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SIMATIC HMI / INDUSTRIAL COMPUTING

Human Machine Interface Systems/ Industrial Computing

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Catalog
ST 80/
ST PC

Edition
2026

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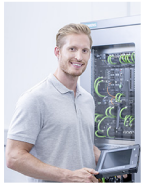
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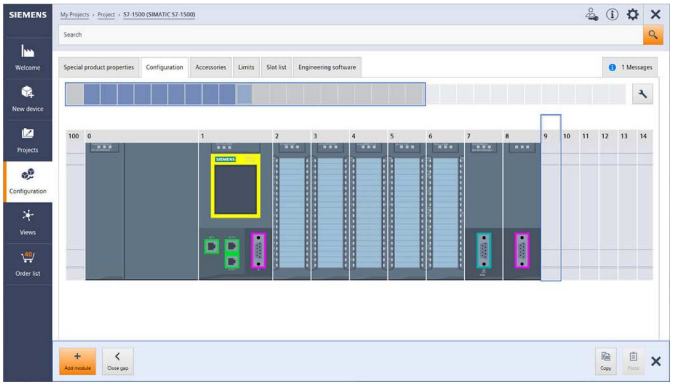




TIA Selection Tool – quick, easy, smart configuration

For you to get the most out of our portfolio quickly and easily.

Do you always need the optimum configuration for planning your project?
For your application we offer the TIA Selection Tool to support all project planners, beginners and experts alike.
No detailed portfolio knowledge is necessary.
TIA Selection Tool is available for download as a free desktop version or a cloud variant.



Your Advantages

Quick

- Configure a complete project with just a few entries – without a manual, without special knowledge
- Import and export of hardware configuration to TIA Portal or other systems
- Ideal visualization of the projects to be configured

Easy

- Tool download either as desktop version or web-based cloud version
- Technically always up-to-date about product portfolio and innovative approaches
- Highly flexible, secure, cross-team work in the cloud
- Direct ordering in SiePortal

Smart

- Smart selection wizard for error-free configuration and ordering
- Configuration options can be tested and simulated in advance
- Library for archiving sample configurations

The TIA Selection Tool is a completely paperless solution.
Download it now:
www.siemens.com/tst

For more information, scan the QR code



Sustainability @Siemens

Transforming the everyday to create a better tomorrow.



For more information, see www.siemens.com/sustainability figures

As a company, Siemens considers environmental, social and governance (ESG) criteria from all angles with its DEGREE framework (decarbonization, ethics, governance, resource efficiency, equity and employability). We are not only committed to reducing the carbon footprint in our own operations to net zero by 2030, but also helping our customers achieve their decarbonization and sustainability goals.

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Our contribution

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Human Machine Interface Systems/ Industrial Computing

SIMATIC HMI / Industrial Computing



Catalog ST 80 / ST PC · 2026

Supersedes:
Catalog ST 80 / ST PC · 2025

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Introduction 1

Operator panels 2

HMI software and automation software 3

Industrial Edge 4

Industrial Computing 5

Accessories 6

Appendix 7

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Introduction



1/2	**Introduction**
1/2	SIMATIC HMI operator control and monitoring systems
1/6	Industrial Computing

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Overview



SIMATIC HMI operator control and monitoring systems – excellent operator control and monitoring

The right solution for every visualization task – for machine manufacturers, integrators, and end users:
For greater transparency in machines – all the way to the controller and monitoring of entire plants.
SIMATIC HMI (Human Machine Interface) enables seamless industrial visualization solutions for monitoring machines and plants. It offers maximum efficiency in engineering and comprehensive control options – with brilliant displays or powerful, PC-based solutions.
Due to increasing digitalization, solutions such as SIMATIC HMI are crucial for mastering complex environments.

Advantages:

- Efficient engineering – The integration into the Totally Integrated Automation Portal (TIA Portal) permits full access to the entire digital automation – from digital planning to integrated engineering, all the way to transparent operation.
- Devices for all environments – Robust SIMATIC HMI Panels and industry PCs meet all requirements for harsh environments in a wide range of industries.
- Scalable HMI solutions – HMI solutions ranging from small machine-level solutions to plant-wide SCADA systems, which can be individually customized due to open interfaces.
- Equipped for the future – The combination of state-of-the-art technologies and powerful systems enables the implementation of increasingly complex processes and reliable fulfillment of growing requirements – while protecting your investments.

General information on SIMATIC HMI is available at this link
General information on SIMATIC SCADA systems is available at this link

SIMATIC HMI software – a lot more than just visualization software

With the SIMATIC WinCC Unified (TIA Portal), SIMATIC WinCC V8 and SIMATIC WinCC Open Architecture product families, SIMATIC HMI covers the entire engineering and visualization software spectrum for the human machine interface.

- SIMATIC WinCC Unified (TIA Portal) is the most innovative HMI system, universally applicable, from Panel to Edge to PC-based applications. The functionality covers both visualization tasks at machine level and SCADA applications on PC-based multi-user systems,

More information on WinCC Unified is available at this link

- SIMATIC WinCC V8, leading in the manufacturing industry, is the proven SCADA system for complex requirements, e.g. distributed or redundant systems and IT/OT integration.

More information on WinCC V8 is available at this link

- SIMATIC WinCC Open Architecture, leading in infrastructure applications, addresses applications with high customer-specific adaptation requirements.

More information on WinCC Open Architecture is available at this link

SIMATIC HMI – brilliant and rugged HMI devices for all applications

- SIMATIC HMI Key Panels
  Preassembled and ready for installation, for conventional operator panels.

More information on Key Panels is available at this link

- SIMATIC HMI Unified Panels
  SIMATIC HMI Unified Basic Panels are a cost-effective entry-level solution and are the new standard in the basic segment of machine visualization.
  Also available as SIPLUS variant for extreme ambient conditions.
- SIMATIC HMI Unified Comfort Panels are the high-end panels for maximum machine transparency and more flexibility in the field of application, even under special ambient conditions (PRO, Hygienic and SIPLUS).

More information on Unified Panels is available at this link

- Mobile Panels
  Portable HMI devices for mobile deployment on site.

More information on Mobile Panels is available at this link

- SIMATIC HMI Industrial Web Panels - Thanks to their capacitive glass front with multi-touch technology, the Industrial Web Panels are as convenient to use as a smartphone or tablet. The sharp colors and high contrast improve readability and user-friendliness. You operate your customized HTML 5 web application on a SIMATIC IPC, an Open Controller or Unified Runtime via the integrated browser.

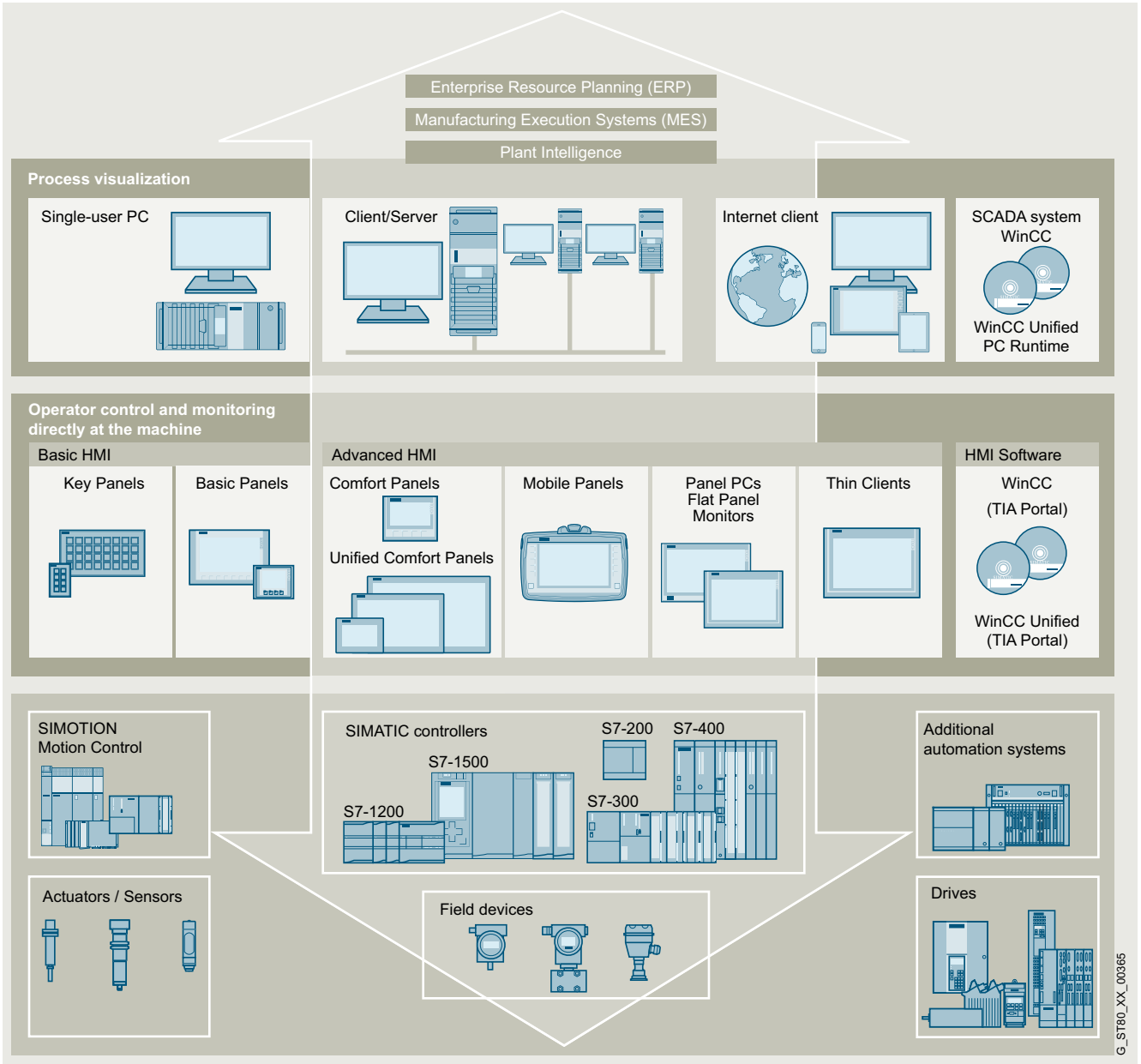
More information is available at this link

Individual HMI devices in customized versions

More information is available at this link

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Overview (continued)



Taking usability to the next level
One swipe, one tap, and the user can immediately see what the selected design looks like on the beverage can. A quick check, and the process is ready to start. Thanks to innovative user guidance, the machine data is so transparent that the complex printing process can be controlled completely intuitively.

Advantages of the solution consisting of SIMATIC WinCC Unified and SIMATIC IPC:

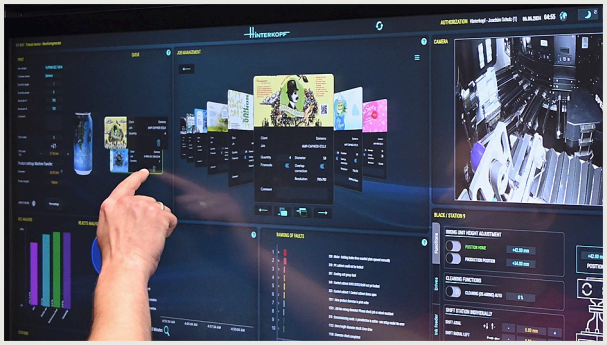
- Efficient engineering and a high degree of openness
- Modern, intuitive user interface as a sales argument and image factor
- Simplified service, shorter downtimes, less remote support

Innovative usability with web technologies at Hinterkopf - Siemens DE

Control system optimizes the productivity of a hot dip galvanizing plant

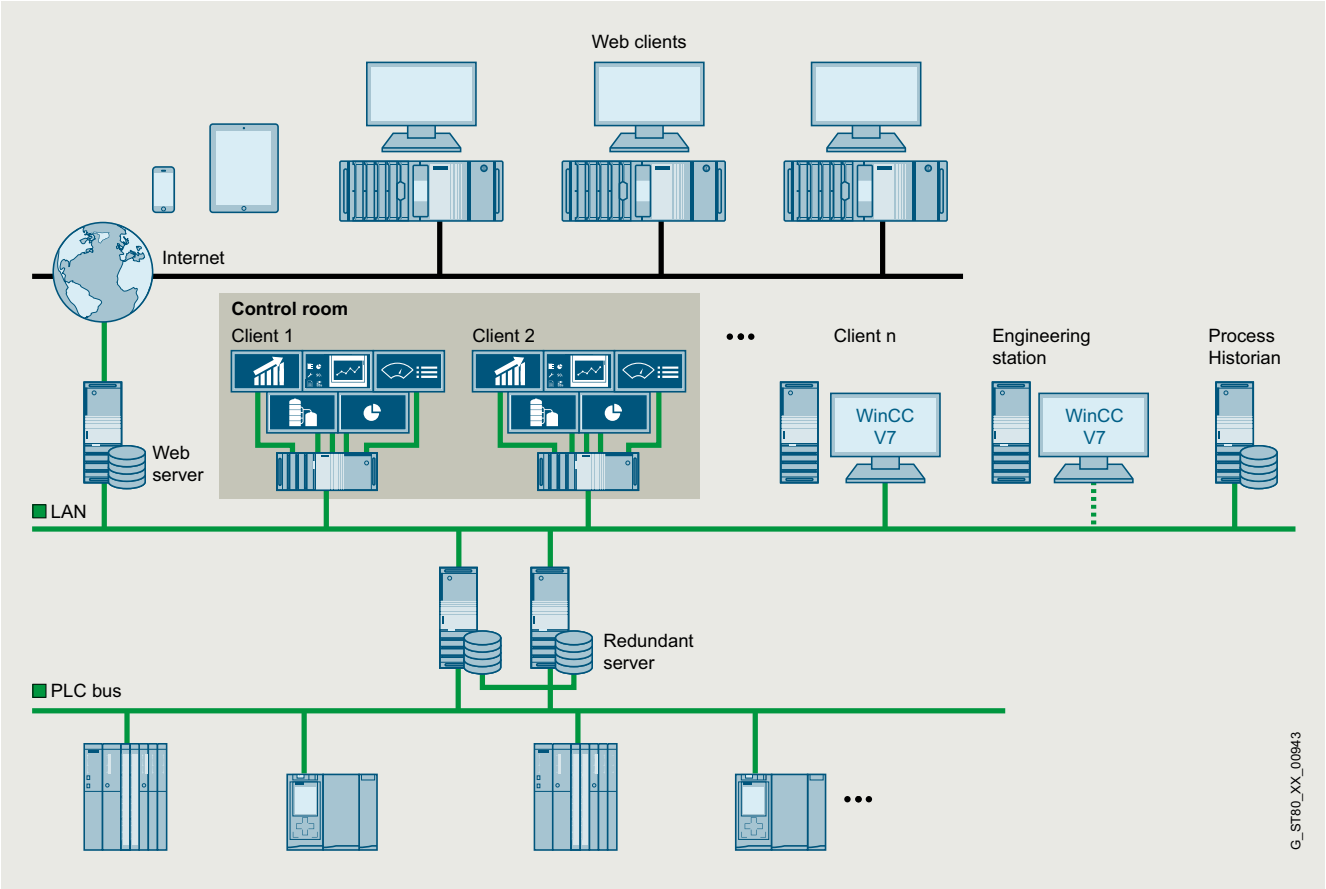
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Overview (continued)



As semi-finished products, galvanized steel sheets play a key role in industrial production, such as car manufacturing. One proven method of protecting steel sheets from rust is the application of a zinc coating in a hot dip galvanizing process, in which strips of sheet steel are drawn through a bath containing liquid zinc. Plants for this process are complex and in continuous operation, thus placing high demands on the process control system and the hardware used. Advantages of the SIMATIC SCADA system and SIMATIC IPC solution:

- SIMATIC WinCC V7/V8 SCADA control system whose scalability and openness also permits the implementation of future function extensions.
- Redundant setup of the control system and operating stations with industry-compatible SIMATIC industrial PCs and Thin Clients.
- Optimum overview thanks to multi-monitor solution in the control room and more than 27 operating stations throughout the plant and production hall.
- Availability of the production data over a long period in SIMATIC Process Historian for reasons of traceability.
- Increased productivity using long-term analyses of plant availability, productivity, energy consumption and quality.
- More effective support and shorter downtimes thanks to fast, web-based access to plants with the SIMATIC WinCC WebNavigator.



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Overview (continued)

Modernization of a plant in the food and beverage industry on the basis of an integrated automation and visualization solution

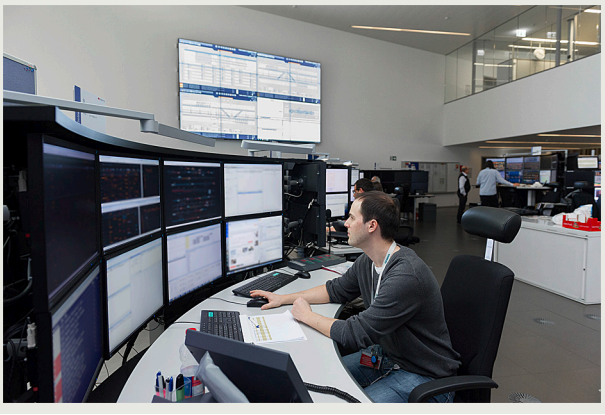


The modernization involved equipping 3 production lines with an expanded SCADA control system, a new control architecture, converters and motor starters. The project was implemented smoothly, and the integrated hardware and software solution with the TIA Portal enabled the simplification of the engineering process.

Advantages of the solution with the SIMATIC SCADA system WinCC Professional in the TIA Portal, S7-1500 and SIMATIC IPC:

- Simplified application engineering
- Efficient monitoring of the production lines enables the optimal path through the production to be defined for each batch.
- Increased productivity
- Simple and intuitive operation implemented thanks to good visual support
- Better control of the motors involved with the process
- Integration of the production data into the existing ERP system
- Faults in the current process can be easily localized

Tunnel control system for the longest railway tunnel in the world



The heart of the monitoring of the entire tunnel infrastructure is the IT/OT and SCADA system WinCC Open Architecture, which is used here as the tunnel control system SIMATIC WinCC Open Architecture. Continuous availability of the entire system is essential to ensure the trouble-free operation of the Gotthard Base Tunnel.

The Gotthard Base Tunnel has a tunnel control center at the south and north portals. The two tunnel control systems installed there monitor and control all of the installed systems and plants. All the required data are acquired, collated and visualized on the tunnel control system. A fully integrated maintenance management tool and an operations control system are also part of the tunnel control system with a large screen display.

The advantages of the solution:

- Highest fail-safety thanks to the presence of doubly redundant tunnel control equipment – Disaster Recovery System (2x2 redundancy)
- Central monitoring of the infrastructure simplifies fault management
- More efficient operation through central control of the entire infrastructure
- Integration of many (sub-)systems thanks to OPC UA as a standardized interface throughout the entire project
- Optimal user friendliness through uniform user interface across all plants, overview of all systems at one work station as well as large screen display (multi-monitor management)

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Overview



SIMATIC Industrial PC

Due to their scalable portfolio, SIMATIC Industrial PCs can be used in a wide range of industrial applications.

Rack PC

Rack PCs are flexible, high-availability industrial PC systems for powerful yet compact applications using 19" technology.

Box PC

SIMATIC Box PCs provide mechanical engineers, plant engineers and control cabinet builders with particularly rugged industrial PC systems for use in powerful yet compact applications.

Panel PC

SIMATIC Panel PCs are suitable thanks to their high industrial compatibility for use in control cabinets, consoles and control panels, as well as directly on the machine. Typical areas of application can be found in both factory and process automation.

Mobile devices

SIMATIC industrial mobile devices open up new areas of application in the context of Industry 4.0. Designed for industrial use, they can impress with their many functions in everyday work. Typical areas of application are in maintenance/service, production, measurement and testing technology, and in local engineering and commissioning.

Industrial monitors

Flexible operating concepts can be implemented with SIMATIC industrial monitors. They are industrial-grade LCD monitors with brilliant displays set apart from the PC.

Devices for special requirements

Selected SIMATIC IPCs are available as fully-enclosed devices (PRO devices) and are ideal for industrial applications in harsh environments due to their extremely rugged design. They are, for example, specially designed for mounting on a support arm/pedestal. As industry-specific versions, selected SIMATIC IPCs also offer variants with stainless steel fronts (HYG devices), e.g. for the food, beverages and tobacco industries.

SIMATIC IPC Software

A graded concept is available for effective early detection of potential failures and minimization of actual downtimes. It consists of hardware and software components especially developed for SIMATIC IPC, which can be used to increase availability on a system-specific basis, depending on safety requirements. In addition, software packages are offered for many SIMATIC IPCs that, when ordered, produce genuine price advantages.

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2/3	**Introduction**
2/3	HMI devices
2/5	**Basic HMI**
2/5	Introduction
2/6	Key Panels
2/6	Introduction
2/7	SIMATIC HMI KP8/KP8F/KP32F
2/18	SIPLUS HMI KP8/KP8F/KP32F
2/22	Basic Panels
2/22	Standard devices 2nd Generation
2/30	SIPLUS Basic Panels (2nd Generation)
2/38	SIMATIC HMI Unified Basic Panels Standard
2/42	**Advanced HMI Panel-based**
2/42	Introduction
2/43	SIMATIC HMI Unified Comfort Panels
2/43	Introduction
2/44	SIMATIC HMI Unified Comfort Panels Standard
2/54	SIPLUS HMI Unified Comfort Panels Standard
2/59	SIMATIC HMI Unified Comfort Panels Hygienic
2/69	SIMATIC HMI Unified Comfort Panel PRO
2/86	SIMATIC WinCC Unified options
2/90	Comfort Panels
2/90	Comfort Panels standard devices
2/98	SIPLUS Comfort Panels Standard
2/103	Comfort Panels Outdoor
2/108	SIPLUS Comfort Panels Outdoor
2/113	Comfort Panels PRO
2/124	System components for fully-enclosed IP65-protected devices
2/125	Comfort Panels INOX and INOX PCT
2/136	Fixing elements
2/140	Extension Units and operator controls
2/154	Extension components
2/157	Mobile Panels
2/157	Introduction
2/158	Mobile Panels 2nd Generation
2/166	Connection box for Mobile Panels (2nd Generation)
2/170	Mobile Panels for low-temperature environment
2/175	System components for Mobile Panels
2/176	Industrial Thin Clients
2/177	HMI Web Panels
2/177	IWP Basic
2/178	SIMATIC HMI IWP700 Basic
2/179	SIMATIC HMI IWP1000 Basic
2/180	SIMATIC HMI IWP1200 Basic
2/181	SIMATIC HMI IWP10F Mobile WebClient
2/184	**Advanced HMI PC-based**
2/184	Overview

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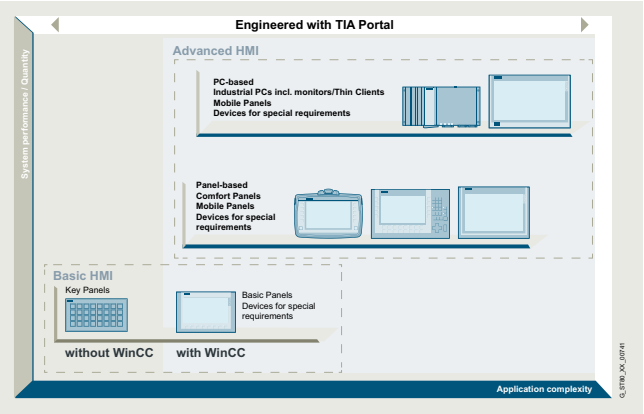


2/185	Panel PC
2/191	Industrial monitors
2/192	**System interfaces with WinCC (TIA Portal)**
2/192	Overview
2/193	SIMATIC S7
2/195	Controllers from other manufacturers

Siemens ST 80 / ST PC · 2026

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Overview



SIMATIC HMI Panels – HMI devices for efficient machine-level interaction

A complete range of powerful and innovative operator control and monitoring devices is available for implementing efficient, machine-level HMI solutions in the most diverse applications and industries. One unique and highly efficient feature is the integrated configuring via SIMATIC WinCC in the TIA Portal, with which users can achieve significant savings with regard to engineering time, costs and effort.

More information is available at this link

Unified Panels

SIMATIC Unified Panels stand for state-of-the-art user-friendliness and innovative visualization features developed for a wide range of industrial applications. These Panels feature high display quality and powerful visualization to facilitate even complex tasks.

Their advanced technologies enable the integration of future-oriented topics such as cybersecurity, cloud connectivity, and mobile accessibility. These properties ensure that the Unified Panels not only meet current requirements, but are also prepared for future developments. Despite technological innovations, users remain quite familiar with proven Siemens solutions.

More information is available at this link

Basic HMI

- Panel-based:
  HMI devices with excellent price-performance ratio for simple visualization tasks.

More information is available at this link

Advanced HMI

- Panel-based:
  Powerful HMI devices for demanding visualization tasks with a high level of convenience.

More information is available at this link

- PC-based:
  High-performance HMI devices for data-intensive and complex visualization tasks.

More information is available at this link

Rugged and compact for use at machine level

With degree of protection IP65/NEMA 4 on the front side, high EMC and extreme vibration resistance, the SIMATIC HMI devices are ideally suited for use at the machine level in harsh industrial environments.

Thanks to their compact design with a shallow mounting depth, the stationary HMI devices can be fitted anywhere, even where only restricted space is available. For distributed configurations, there are also devices available with all-round IP65/NEMA 4 protection.

The extremely rugged and shock-proof enclosure with degree of protection IP65 makes the Mobile Panels especially suitable for industrial applications. Their low weight and ergonomic design means that they are user-friendly and easy to operate.

One configuration software for everything

SIMATIC WinCC (TIA Portal) is a tool for the uniform configuration of all SIMATIC HMI Panels as well as PC-based systems. Graded variants are available for every task. The software permits simple and efficient configuration. Programming experience is not required.

Once created, configurations can be reused within the family. Key Panels only need to be configured, not programmed.

Component of Totally Integrated Automation

Siemens provides the complete modular system of matched components for automation solutions from one source and — with Totally Integrated Automation — one of the most globally successful automation concepts. SIMATIC WinCC (TIA Portal) is an integral component of this world. It offers crucial advantages. Thanks to the triple uniformity in configuration/programming, data management and communication, automation solution engineering costs are significantly reduced.

Open for a wide variety of automation systems

Despite being consistently incorporated into the SIMATIC world, the Panels are nevertheless open for connection to PLCs from many different manufacturers. The standard delivery includes a comprehensive range of user-friendly drivers.

Innovative operator control and monitoring

SIMATIC HMI Panels facilitate innovative operator control and monitoring combined with ruggedness, stability and simplicity. On the Comfort Panels in particular, standard hardware and software interfaces, e.g. the MultiMediaCard/SD card, USB, Ethernet, PROFINET, PROFIBUS DP and Visual Basic scripts, provide more flexibility and openness as well as access to the office world.

Worldwide application

The SIMATIC HMI Panels are ideally equipped for global use. Online language switching permits selection of up to 32 languages during operation simply by pressing a button. The wide variety of languages available also includes, for example, Asian logographic languages (Chinese, Taiwanese, Korean, Japanese) and Russian. The configuration interface of WinCC (TIA Portal) including the online help and the complete documentation is also multilingual. Up to 32 languages can be used in one project. And all this is complemented by global service and support from Siemens.

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Overview (continued)

Configuration at a glance

	WinCC Unified (TIA Portal) engineering software		WinCC (TIA Portal) engineering software				STEP 7
	Comfort	PC	Basic	Comfort	Advanced	Professional	STEP 7
Key Panels	-	-	-	-	-	-	•
Basic Panels 2nd Generation [1]	•	•	•	•	•	•	-
Basic Panels 1st Generation	-	-	•	•	•	•	-
Comfort Panels	•	•	-	• [3]	•	•	-
Unified Comfort Panels	•	•	-	-	-	-	-
Mobile Panels 2nd Generation	•	•	-	• [2]	• [2]	• [2]	-
Mobile Panels x77 Series	-	-	-	•	•	•	-

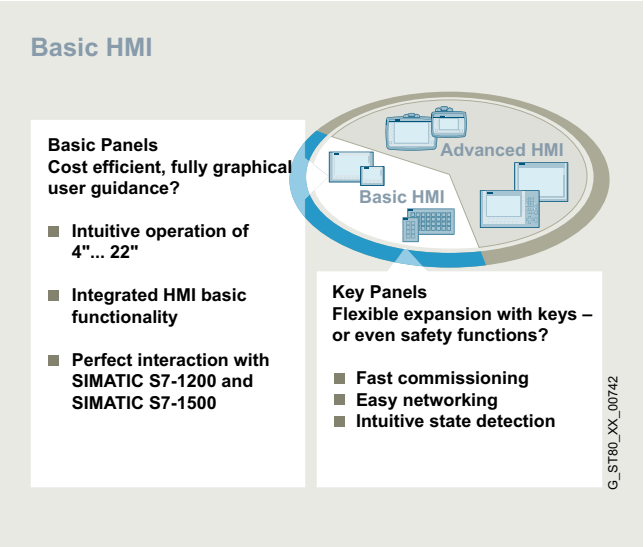
• Possible
1) As of WinCC (TIA Portal) V13
2) As of WinCC (TIA Portal) V13 SP1
3) Outdoor versions from WinCC (TIA Portal) V13 SP1, Update 6 and HSP (download), or Comfort Panels 15" - 22" (-0AX1) from V14 SP1 HSP

	WinCC flexible engineering software			
	Micro	Compact	Standard	Advanced
Key Panels	-	-	-	-
Basic Panels (1st Generation)				
KTP400 Basic mono PN	-	•	•	•
KTP600 Basic	-	•	•	•
KTP1000 Basic	-	•	•	•
TP1500 Basic	-	•	•	•
Mobile Panels				
Mobile Panel 177	-	•	•	•
Mobile Panel 277	-	-	•	•
Mobile Panel 277(F) IWLAN	-	-	•	•
Micro Panels				
OP 73micro	•	•	•	•
TP 177micro	•	•	•	•
Panels – 70 Series				
OP 73	-	•	•	•
OP 77A/B	-	•	•	•
Panels – 170 Series				
TP 177A	-	•	•	•
TP/OP 177B	-	• [1]	• [1]	• [1]
Panels – 270 Series				
TP 277/OP 277	-	-	• [2]	• [2]
Multi Panels – 170 Series				
MP 177	-	• [5]	• [4]	• [4]
Multi Panels – 270 Series				
MP 277	-	-	•	•
Panels – 370 Series				
MP 377	-	-	• [3]	• [3]
WinAC MP				
WinAC MP 177	-	• [5]	• [5]	• [5]
WinAC MP 277	-	-	• [5]	• [5]
WinAC MP 377	-	-	• [5]	• [5]

• Possible
1) WinCC flexible 2005 or higher and TP 177B 4" with WinCC flexible 2008 and higher
2) WinCC flexible 2005 SP1 and higher
3) WinCC flexible 2007 and higher: Mobile Panel 277(F) IWLAN V1; WinCC flexible 2008 SP2 and higher: Mobile Panel 277(F) IWLAN V2
4) WinCC flexible 2008 and higher
5) WinCC flexible 2008 SP1 and higher

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Overview



Inexpensive realization of simple HMI tasks

Basic HMI is recommended for simple applications with a limited quantity structure, where the price-performance ratio counts as well as fast, intuitive operation.

The devices offer a brilliant display quality and high-power visualization, which significantly simplifies the operation of simple machines and equipment. You can also save valuable time during installation, commissioning and engineering with turnkey and flexible solutions.

Unified Basic Panels

Handle efficient HMI tasks with modern technology

For applications that require a modern user interface and integrated future orientation, the Unified Basic Panels offer the ideal solution. These devices combine intuitive operation with high display quality at an attractive price-performance ratio, which greatly simplifies the operation of machines and systems.

Due to ready-to-use and flexible solutions, you not only save valuable time during installation, commissioning, and engineering, but also benefit from seamless integration into modern system architectures. The Unified Basic Panels are ready for future-oriented expansions and support the latest technologies in the field of HMI visualization.

Available:

- Unified Basic Panels
- Innovative design and intuitive user interface
- Extensive visualization options in brilliant display quality
- Prepared for integrated safety and communication solutions

This offering enables you to implement your HMI projects cost-effectively and with an eye toward future developments.

SIMATIC HMI Key Panels

You can use the Key Panels to realize operator panels quickly, as well as save a lot of time and money setting them up since they are prefabricated and ready for installation.

All illuminated pushbuttons are freely configurable and equipped with five colored LEDs (red, green, blue, yellow and white). All buttons can also easily be inscribed in IP65. On the back, there are integrated IO terminals for connecting actuators and sensors.

SIMATIC HMI Basic Panels

Basic Panels are perfect for the cost-effective implementation of simple visualization tasks at machine level. Their basic features and functionality as well as the especially attractive price make them perfect entry-level devices.

Overview (continued)

Available:

- Key Panels
  - SIMATIC HMI KP8/KP8F/KP32F (key devices with multi-colored LEDs)
- Basic Panels
  - Standard devices 2nd Generation
  - Standard devices 1st Generation

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Overview

SIMATIC HMI Key Panels

The Key Panels, PROFINET successors to the PROFIBUS-based Pushbutton Panels, are operator panels which are ready-to-run without any configuration effort at all.

Alternatives to individually wired long-stroke keys. They are designed for direct operator control of the machine.

Key Panels provide many basic functions for direct operator control and monitoring instead of machine operator control, a cost-effective, versatile and space-saving combination, and they reduce configuration and installation costs to a minimum. Furthermore, additional actuators and sensors can also be optionally connected directly on the rear of the devices. For applications directly next to a monitor, a very slim KP8 option is available (KP8 PN LX with 8 keys on top of each other).

The Key Panels can be used directly in line and ring topologies thanks to an integrated switch and two RJ45 PN sockets.

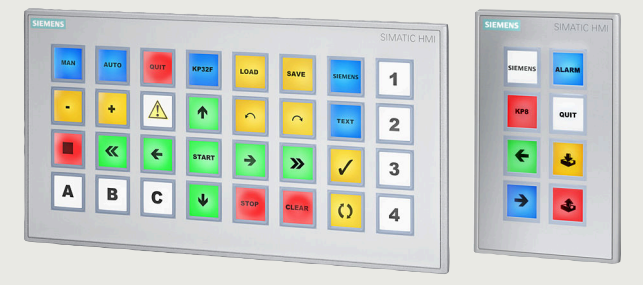
In addition there are two fully configured IP65 installation enclosures for KP8(F) available.
Exact cutouts included. Even supply cables with plugs can easily be connected in IP65 without any drilling or milling. These ready-made enclosures can be used as small local operator stations.
They can be found under Accessories -> Fixing elements, and depending on the option can come supplied with features such as emergency off pushbuttons.

- SIMATIC HMI blank front design
- SIMATIC HMI KP8 PN
- SIMATIC HMI KP8 PN LX
- SIMATIC HMI KP8F PN (shared device with GSD file possible)
- SIMATIC HMI KP32F PN (PROFIsafe can be switched off)
- Installation enclosure KP8 (Accessories -> Fixing elements)
- Installation enclosure KP8F (Accessories -> Fixing elements)

More information is available at this link

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Overview





Key Panel, blank front, at the front, populated



Key Panel, blank front, at the back, not populated

Overview (continued)



SIMATIC HMI KP8 PN LX, 8 short-stroke keys, long, 1–6 mm sheet thickness, PN interfaces, black neutral design, 8 configurable DI/DQ pins

SIMATIC HMI Key Panels

- Optimum operability thanks to large mechanical keys and multi-colored LED backlighting (daylight readable)
- Over 60% time savings for wiring and installation (Plug&Play)
- More than 30% savings in material costs compared to conventional keypad operator panels
- 2 PROFINET ports (incl. switch) already integrated for setting up line and ring topologies
- Freely configurable digital I/Os on the rear for connecting key-operated switches, indicator lights, etc.
- Connection of fail-safe EMERGENCY-STOP buttons or other fail-safe signals with KP8F and KP32F (in SIL2 or SIL3)
- Functionally compatible with all standard PROFINET master CPUs, also non-Siemens
- KP8 PN LX is suitable for direct installation next to monitors
- KP8 and blank front design, also optimized for installation in IPC Extension Units in IP65
- Maximum flexibility due to parameterization
- Blank front design for standardized assembly of flexible operator panels
- Installation enclosure, fully-enclosed IP65, no drilling or milling necessary, KP8(F) not included;
  for accessories see technical specifications for installation enclosure

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Selection and ordering data

SIMATIC HMI KP8 PN Key Panel, 8 short-stroke keys with multi-colored LEDs, PROFINET interfaces, 2 x parameterizable with STEP 7 V5.5 or higher SIEMENS Design (4 x 2 pairs of keys)	**6AV3688-3AY36-0AX0**
SIMATIC HMI KP8 PN LX Neutral design black LX (8 keys on top of each other); Short-stroke keys long, 1-6 mm sheet thickness, PN interfaces, 8 configurable DI/DO pins, 24 V DC can be looped through, parameterizable with STEP 7 V5.5 or higher	**6AV2127-1AB00-0LX1**
SIMATIC HMI KP8F PN Key Panel, 8 short-stroke keys with multi-colored LEDs, PROFINET interfaces with PROFIsafe, parameterizable with STEP 7 V5.5 or higher; 4 additional fail-safe inputs. Can be used as 2 x SIL 2 or 1 x SIL 3	
• SIEMENS design	**6AV3688-3AF37-0AX0**
• As neutral design without Siemens imprint	**6AV3688-3AF37-0AX0-Z A01+S00**
• Blank front design for standard 22.5 mm operator controls, same mounting dimensions as KP8	**6AV3688-3XY38-3AX0**
SIMATIC HMI KP32F PN Key Panel, SIEMENS design; 32 short-stroke keys with multi-colored LEDs, PROFINET interfaces with PROFIsafe, parameterizable with STEP 7 V5.5 or higher; including 8 fail-safe inputs. Can be used as 4 x SIL 2 or 2 x SIL 3	**6AV3688-3EH47-0AX0**
Documentation You can find the Equipment Manual for the Key Panels on the internet at:	Link
Accessories	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Technical specifications

Article number	6AV3688-3AY36-0AX0 SIMATIC HMI KP8 PN	6AV2127-1AB00-0LX1 SIMATIC HMI KP8 PN LX 6mm
General information		
Product type designation	KP8 PN	Key Panel KP8 PN LX (1 ... 6 mm)
Control elements		
With parameterizable keys	Yes	Yes
Keyboard		
• Membrane keyboard		
- user-definable label membrane keys	Yes	No; possible via adjacent display
• Function keys		with L-pattern at key edge
- Number of function keys	8	8; 19 x 19 mm per button
• Short-stroke keys		
- Number of short-stroke keys	8	8
Expansions for operator control of the process		
• DP direct LEDs (LEDs as S7 output I/O)	8; Adjustable brightness	8; Adjustable brightness
• Number of color modes for LED	5; red, green, blue, yellow, white	5; red, green, blue, yellow, white
• Direct keys (keys as S7 input I/O)	8	8
Installation type/mounting		
Mounting type	Clamp terminals	clamp fastening with additional mounting clips
Front mounting	Yes; Compatible with Extension Units dimensions	Yes; mounting clip - Torx T20 tighten to 0.2 Nm; enclosure - Torx T10 tighten to 0.2 Nm
Rail mounting	No	No
Mounting in portrait format possible	Yes	Yes
Mounting in landscape format possible	Yes	Yes
maximum permissible angle of inclination without external ventilation	30°; To the front/rear	30°; To the front/rear
Number of slots for command devices and signaling units	0	0
Supply voltage		
Rated value (DC)	24 V; 24 V looped through at connector, no interruption on pulling	24 V; 24 V can be looped through connector, interrupted when pulled
Digital inputs		
Number of digital inputs	8; Max. 8 inputs and outputs (total)	8; Max. 8 inputs and outputs (total)
Input voltage		
• Rated value (DC)	24 V	24 V
Digital outputs		
Number of digital outputs	8; Max. 8 inputs and outputs (total)	8; Max. 8 inputs and outputs (total)
Short-circuit protection	Yes	Yes
Switching capacity of the outputs		
• with resistive load, max.	100 mA	100 mA
Output voltage		
• Rated value (DC)	24 V; Non-isolated	24 V; Non-isolated
Total current of the outputs		
• Current per channel, max.	100 mA	100 mA
• Current per group, max.	800 mA	800 mA
Interfaces		
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch
Industrial Ethernet		
• Number of ports of the integrated switch	2; Per port	2; Per port
Protocols		
PROFINET	Yes; also 3rd party PLC	Yes; also 3rd party PLC
PROFINET CBA	No	No
IRT	Yes	Yes
PROFIsafe	No	No
PROFIBUS	No	No
Redundancy mode		
- Media redundancy		

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Technical specifications (continued)

Article number	6AV3688-3AY36-0AX0 SIMATIC HMI KP8 PN	6AV2127-1AB00-0LX1 SIMATIC HMI KP8 PN LX 6mm
- MRP	Yes	Yes
Test commissioning functions		
Illuminant test	Yes; During switch on	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on	Yes; automatically when switching on
Degree and class of protection		
IP (at the front)	IP65	IP64
IP (rear)	IP20	IP20
NEMA (front)		
• Enclosure Type 4x at the front	Yes; Incl. NEMA12	No
• Enclosure Type 12 at the front		No
Standards, approvals, certificates		
CE mark	Yes	Yes
CSA approval		No
UL approval		No
cULus	Yes	No
FM approval		No
RCM (formerly C-TICK)	Yes	No
KC approval	Yes	No
EAC (formerly Gost-R)		No
CCC		No; not necessary
Suitable for safety functions	No	No
Marine approval		No
Use in hazardous areas		
• ATEX Zone 2	Yes	No
• ATEX Zone 22	Yes	No
• cULus Class I Zone 2, Division 2	Yes	No
• FM Class I Division 2	Yes	No
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	55 °C	60 °C
Relative humidity		
• Operation, max.	95 %; no condensation	95 %; no condensation
Functionality under WinCC (TIA Portal)		
Process coupling		
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes	Yes
• S7-200	No	No
• S7-300/400	Yes; STEP 7 or SIMATIC STEP 7 Basic V11 or higher	Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic V11 (or higher)
• LOGO!	No	No
• WinAC	Yes	Yes
• SIMOTION	No	No
• Allen Bradley (EtherNet/IP)	No	No
• Allen Bradley (DF1)	No	No
• Mitsubishi (MC TCP/IP)	No	No
• Mitsubishi (FX)	No	No
• OMRON (FINS TCP)	No	No
• OMRON (Host Link)	No	No
• Modicon (Modbus TCP/IP)	No	No
• Modicon (Modbus RTU)	No	No
Mechanics/material		
Enclosure material (front)		Bayblend FR3010 enclosure, Autotex F150 front membrane
• plastic	Yes	Yes; neutral enclosure, black RAL 9005

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Technical specifications (continued)

Article number	6AV3688-3AY36-0AX0 SIMATIC HMI KP8 PN	6AV2127-1AB00-0LX1 SIMATIC HMI KP8 PN LX 6mm
• Aluminum	No	No
• Stainless steel	No	No
Service life		
• Short-stroke keys (in switching cycles)	1 500 000	1 500 000
• LEDs (ON period)	100 %	100 %
Dimensions		
Width of the housing front	98 mm	40.7 mm
Height of housing front	155 mm	252.4 mm
Mounting cutout, width	67.7 mm; Max. thickness of mounting plate 2 - 6 mm	24 mm; tolerances +0.5 mm, not including connection plug (depending on connector type)
Mounting cutout, height	129.7 mm	244 mm; tolerances +0.5 mm, not including connection plug (depending on connector type)
mounting depth	49 mm; Incl. angled SIMATIC Ethernet connector	68.15 mm; mounting plate thickness max. 1 ... 6 mm
Weights		
Weight (without packaging)	270 g	297 g
Other		
Merchandise		Yes; KS28603
Manufacturer name		GETT Gerätetechnik GmbH
Manufacturer's address		Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany
Note:		Key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, compatible with 6AV2127-1AB00-0LX0

Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
General information	
Product type designation	KP8F PN
Control elements	
With parameterizable keys	Yes
Keyboard	
• Membrane keyboard	
- user-definable label membrane keys	Yes
• Function keys	
- Number of function keys	8
• Short-stroke keys	
- Number of short-stroke keys	8
Expansions for operator control of the process	
• DP direct LEDs (LEDs as S7 output I/O)	8; Adjustable brightness
• Number of color modes for LED	5; red, green, blue, yellow, white
• Direct keys (keys as S7 input I/O)	8
Installation type/mounting	
Mounting type	Mounting clip
Front mounting	Yes; Compatible with Extension Units dimensions
Rail mounting	No
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	30°; To the front/rear
Number of slots for command devices and signaling units	0
Supply voltage	
Rated value (DC)	24 V; 24 V can be looped through connector, interrupted when pulled
Digital inputs	
Number of digital inputs	8; total inputs and outputs max. 8 and 2x SIL 2 or 1x SIL 3
Input voltage	

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Technical specifications (continued)

Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
• Rated value (DC)	24 V
Digital outputs	
Number of digital outputs	8; Max. 8 inputs and outputs (total)
Short-circuit protection	Yes
Switching capacity of the outputs	
• with resistive load, max.	100 mA
Output voltage	
• Rated value (DC)	24 V; Non-isolated
Total current of the outputs	
• Current per channel, max.	100 mA
• Current per group, max.	800 mA
Interfaces	
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch
Industrial Ethernet	
• Number of ports of the integrated switch	2; Per port
Protocols	
PROFINET	Yes; also 3rd party PLC
PROFINET CBA	No
IRT	Yes
PROFIsafe	Yes; 1x SIL 3 (two-channel) or 2x SIL 2 (single-channel) emergency stop sensors
PROFIBUS	No
Redundancy mode	
- Media redundancy	
- MRP	Yes
Test commissioning functions	
Illuminant test	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
• Enclosure Type 4x at the front	Yes; Incl. NEMA12
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
CCC	No; not necessary
Suitable for safety functions	Yes
Use in hazardous areas	
• ATEX Zone 2	Yes
• ATEX Zone 22	Yes
• cULus Class I Zone 2, Division 2	Yes
• FM Class I Division 2	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	95 %; no condensation
Functionality under WinCC (TIA Portal)	
Process coupling	

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Technical specifications (continued)

Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes
• S7-200	No
• S7-300/400	Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic V11 (or higher)
• LOGO!	No
• WinAC	Yes
• SIMOTION	No
• Allen Bradley (EtherNet/IP)	No
• Allen Bradley (DF1)	No
• Mitsubishi (MC TCP/IP)	No
• Mitsubishi (FX)	No
• OMRON (FINS TCP)	No
• OMRON (Host Link)	No
• Modicon (Modbus TCP/IP)	No
• Modicon (Modbus RTU)	No
Mechanics/material	
Enclosure material (front)	
• plastic	Yes
• Aluminum	No
• Stainless steel	No
Service life	
• Short-stroke keys (in switching cycles)	1 500 000
• LEDs (ON period)	100 %
Dimensions	
Width of the housing front	98 mm
Height of housing front	155 mm
Mounting cutout, width	67.7 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	129.7 mm
mounting depth	49 mm; Incl. angled SIMATIC Ethernet connector
Weights	
Weight (without packaging)	280 g

Article number	6AV3688-3EH47-0AX0 SIMATIC HMI KP32F PN
General information	
Product type designation	KP32F PN
Control elements	
With parameterizable keys	Yes
Keyboard	
• Membrane keyboard	
- user-definable label membrane keys	Yes
• Function keys	
- Number of function keys	32
• Short-stroke keys	
- Number of short-stroke keys	32
Expansions for operator control of the process	
• DP direct LEDs (LEDs as S7 output I/O)	8; Adjustable brightness
• Number of color modes for LED	5; red, green, blue, yellow, white
• Direct keys (keys as S7 input I/O)	32
Installation type/mounting	
Mounting type	Mounting clip
Front mounting	Yes
Rail mounting	No
Mounting in portrait format possible	Yes

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Technical specifications (continued)

Article number	6AV3688-3EH47-0AX0 SIMATIC HMI KP32F PN
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	30°; To the front/rear
Number of slots for command devices and signaling units	0
Supply voltage	
Rated value (DC)	24 V; 24 V looped through at connector, no interruption on pulling
Digital inputs	
Number of digital inputs	32; Total inputs and outputs max. 32 and 2x SIL 2 or 4x SIL 3
Input voltage	
• Rated value (DC)	24 V
Digital outputs	
Number of digital outputs	16; Max. 32 inputs and outputs (total)
Short-circuit protection	Yes
Switching capacity of the outputs	
• with resistive load, max.	100 mA
Output voltage	
• Rated value (DC)	24 V; Non-isolated
Total current of the outputs	
• Current per channel, max.	100 mA
• Current per group, max.	800 mA
Interfaces	
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch
Industrial Ethernet	
• Number of ports of the integrated switch	2; Per port
Protocols	
PROFINET	Yes; incl. shared device, 3rd party PLC
PROFINET CBA	Yes
IRT	No
PROFIsafe	Yes; 2x SIL 3 (two-channel) or 4x SIL 2 (single-channel) emergency stop sensors
PROFIBUS	No
Redundancy mode	
- Media redundancy	
- MRP	Yes
Test commissioning functions	
Illuminant test	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
• Enclosure Type 4x at the front	Yes; Incl. NEMA12
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
CCC	No; not necessary
Suitable for safety functions	Yes
Use in hazardous areas	
• ATEX Zone 2	No
• ATEX Zone 22	No
• cULus Class I Zone 2, Division 2	No
• FM Class I Division 2	No

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Technical specifications (continued)

Article number	6AV3688-3EH47-0AX0 SIMATIC HMI KP32F PN
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	95 %; no condensation
Functionality under WinCC (TIA Portal)	
Process coupling	
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes
• S7-200	No
• S7-300/400	Yes; with F-CPU: STEP 7 V11 SP1 or higher and Safety V11 (or higher), without F-CPU STEP 7 or SIMATIC STEP 7 Basic V11 (or higher)
• LOGO!	No
• WinAC	Yes
• SIMOTION	No
• Allen Bradley (EtherNet/IP)	No
• Allen Bradley (DF1)	No
• Mitsubishi (MC TCP/IP)	No
• Mitsubishi (FX)	No
• OMRON (FINS TCP)	No
• OMRON (Host Link)	No
• Modicon (Modbus TCP/IP)	No
• Modicon (Modbus RTU)	No
Mechanics/material	
Enclosure material (front)	
• plastic	No
• Aluminum	Yes
• Stainless steel	No
Service life	
• Short-stroke keys (in switching cycles)	1 500 000
• LEDs (ON period)	100 %
Dimensions	
Width of the housing front	295 mm
Height of housing front	155 mm
Mounting cutout, width	277 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	137 mm
mounting depth	37 mm; Incl. angled SIMATIC Ethernet connector
Weights	
Weight (without packaging)	1 220 g

Article number	6AV3688-3XY38-3AX0 KP8 Design blank Front
General information	
Product type designation	Empty front design
Installation type/mounting	
Mounting type	Clamp terminals
Mounting position	any
Rack mounting	No
Front mounting	Yes; Compatible with Extension Units dimensions
Rail mounting	No
Wall mounting/direct mounting	No
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	180°; To the front/rear

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Technical specifications (continued)

Article number	6AV3688-3XY38-3AX0 KP8 Design blank Front
Number of slots for command devices and signaling units	5; Max. 5 possible
Supply voltage	
Design of the power supply	external
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of USB interfaces	0
Protocols	
PROFINET	No
PROFIsafe	No
Redundancy mode	
- Media redundancy	
- MRP	No
Test commissioning functions	
Key and signal lamp test	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
• Enclosure Type 4 at the front	No
• Enclosure Type 4x at the front	No
Standards, approvals, certificates	
CE mark	Yes
cULus	No
RCM (formerly C-TICK)	No
KC approval	No
Use in hazardous areas	
• ATEX Zone 2	No
• ATEX Zone 22	No
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	No
• FM Class I Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	No
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
• Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	95 %
Mechanics/material	
Enclosure material (front)	
• Plastic	No
• Aluminum	Yes
• Stainless steel	No
Dimensions	
Width	98 mm
Height	155 mm
Mounting cutout, width	68 mm; Max. thickness of mounting plate 2 - 6 mm

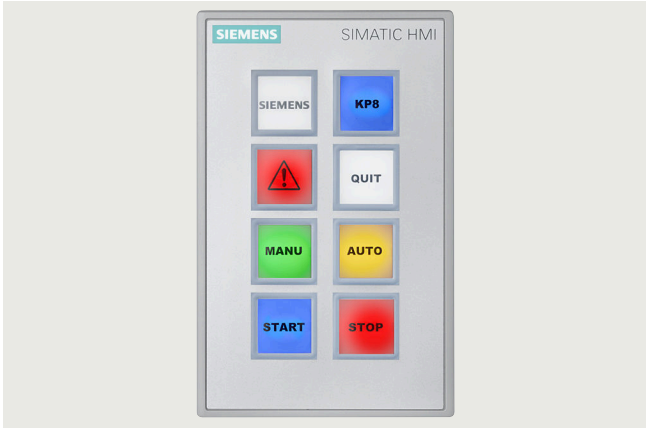
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Technical specifications (continued)

Article number	6AV3688-3XY38-3AX0 KP8 Design blank Front
Mounting cutout, height	129 mm
mounting depth	49 mm
Weights	
Weight (without packaging)	240 g
Other	
Merchandise	Yes
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany

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Overview



SIPLUS HMI KP8 PN



Blank front

SIPLUS HMI Key Panels

- Optimum operability thanks to large mechanical keys and multi-colored LED backlighting (daylight readable)
- Over 60% time savings for wiring and installation (Plug&Play)
- More than 30% savings in material costs compared to conventional keypad operator panels
- 2 PROFINET ports (incl. switch) already integrated for setting up line and ring topologies
- Freely configurable digital I/Os on the rear for connecting key-operated switches, indicator lights, etc.
- Connection of fail-safe emergency stop buttons or other fail-safe signals with KP8F and KP32F (in SIL 2 or SIL 3)
- Functionally compatible with all standard PROFINET master CPUs, also from other manufacturers
- KP8 and blank front design, also optimized for installation in IPC Extension Units in IP65
- Maximum flexibility due to parameterization
- Blank front design for standardized assembly of flexible operator panels

Overview (continued)

Note

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme-specific information was added.

Selection and ordering data

SIPLUS HMI KP8 PN (extended temperature range and exposure to environmental substances) Key Panel, 8 short-stroke keys with multi-colored LEDs, PROFINET interfaces, 2 x parameterizable with STEP 7 V5.5 or higher	**6AG1688-3AY36-2AX0**
SIPLUS HMI KP8F PN (extended temperature range and exposure to environmental substances) Key Panel, 8 short-stroke keys with multi-colored LEDs, PROFINET interfaces with PROFIsafe, parameterizable with STEP 7 V5.5 or higher; 4 additional fail-safe inputs. Can be used as 2 x SIL 2 or 1 x SIL 3	**6AG1688-3AF37-2AX0**
SIPLUS HMI KP32F PN (extended temperature range and exposure to environmental substances) Key Panel, 32 short-stroke keys with multi-colored LEDs, PROFINET interfaces with PROFIsafe, parameterizable with STEP 7 V5.5 or higher; including 8 fail-safe inputs. Can be used as 4 x SIL 2 or 2 x SIL 3	**6AG1688-3EH47-2AX0**
Blank front design (Exposure to environmental substances) For standard 22.5 mm operator controls, same mounting dimensions as KP8	**6AG1688-3XY38-2AX0**
Documentation	
You can find the Equipment Manual for the Key Panels on the Internet at:	http://support.automation.siemens.com/WW/view/en/56652789
Accessories	See SIMATIC HMI accessories

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Technical specifications

Article number	6AG1688-3AY36-2AX0 SIPLUS HMI KP8 PN	6AG1688-3AF37-2AX0 SIPLUS HMI KP8F PN	6AG1688-3EH47-2AX0 SIPLUS HMI KP32F PN
General information			
Product type designation	KP8 PN	KP8F PN	KP32F PN
Control elements			
With parameterizable keys	Yes	Yes	Yes
Keyboard			
• Membrane keyboard			
- user-definable label membrane keys	Yes	Yes	Yes
• Function keys			
- Number of function keys	8	8	32
• Short-stroke keys			
- Number of short-stroke keys	8	8	32
Expansions for operator control of the process			
• DP direct LEDs (LEDs as S7 output I/O)	8; Adjustable brightness	8; Adjustable brightness	8; Adjustable brightness
• Number of color modes for LED	5; red, green, blue, yellow, white	5; red, green, blue, yellow, white	5; red, green, blue, yellow, white
• Direct keys (keys as S7 input I/O)	8	8	32
Installation type/mounting			
Mounting type	Mounting clip	Mounting clip	Mounting clip
Front mounting	Yes; Compatible with Extension Units dimensions	Yes; Compatible with Extension Units dimensions	Yes
Rail mounting	No	No	No
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
maximum permissible angle of inclination without external ventilation	30°; To the front/rear	30°; To the front/rear	30°; To the front/rear
Number of slots for command devices and signaling units	0	0	0
Supply voltage			
Rated value (DC)	24 V; 24 V looped through at connector, no interruption on pulling	24 V; 24 V can be looped through connector, interrupted when pulled	24 V; 24 V looped through at connector, no interruption on pulling
Digital inputs			
Number of digital inputs	8; Max. 8 inputs and outputs (total)	8; Total inputs and outputs max. 8 and 1x SIL 2 or 2x SIL 3	32; Total inputs and outputs max. 32 and 2x SIL 2 or 4x SIL 3
Input voltage			
• Rated value (DC)	24 V	24 V	24 V
Digital outputs			
Number of digital outputs	8; Max. 8 inputs and outputs (total)	8; Max. 8 inputs and outputs (total)	16; Max. 32 inputs and outputs (total)
Short-circuit protection	Yes	Yes	Yes
Switching capacity of the outputs			
• with resistive load, max.	100 mA	100 mA	100 mA
Output voltage			
• Rated value (DC)	24 V; Non-isolated	24 V; Non-isolated	24 V; Non-isolated
Total current of the outputs			
• Current per channel, max.	100 mA	100 mA	100 mA
• Current per group, max.	800 mA	800 mA	800 mA
Interfaces			
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch
Industrial Ethernet			
• Number of ports of the integrated switch	2; Per port	2; Per port	2; Per port
Protocols			
PROFINET	Yes; also 3rd party PLC	Yes; also 3rd party PLC	Yes; incl. shared device, 3rd party PLC
PROFINET CBA	No	No	No
IRT	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AG1688-3AY36-2AX0 SIPLUS HMI KP8 PN	6AG1688-3AF37-2AX0 SIPLUS HMI KP8F PN	6AG1688-3EH47-2AX0 SIPLUS HMI KP32F PN
PROFIsafe	No	Yes; 1x SIL 3 (two-channel) or 2x SIL 2 (single-channel) emergency stop sensors	Yes; 2x SIL 3 (two-channel) or 4x SIL 2 (single-channel) emergency stop sensors
PROFIBUS	No	No	No
Redundancy mode			
- Media redundancy			
- MRP	Yes	Yes	Yes
Test commissioning functions			
Illuminant test	Yes; During switch on	Yes; During switch on	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on
Degree and class of protection			
IP (at the front)	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20
NEMA (front)			
• Enclosure Type 4x at the front	Yes; Incl. NEMA12	Yes; Incl. NEMA12	Yes; Incl. NEMA12
Standards, approvals, certificates			
Suitable for safety functions	No	Yes	Yes
Ambient conditions			
Ambient temperature during operation			
• min.	-40 °C; = Tmin; Startup @ -25 °C	-20 °C; = Tmin (incl. condensation/frost)	-20 °C; = Tmin (incl. condensation/frost)
• max.	60 °C; = Tmax	55 °C; = Tmax	55 °C; = Tmax
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.	5 000 m	2 000 m	2 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m)
Relative humidity			
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance			
- Coolants and lubricants			
- Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air
- Use in stationary industrial systems			
- to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *
- Use on ships/at sea			
- to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
- to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *
- Usage in industrial process technology			
- Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)		

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Technical specifications (continued)

Article number	6AG1688-3AY36-2AX0 SIPLUS HMI KP8 PN	6AG1688-3AF37-2AX0 SIPLUS HMI KP8F PN	6AG1688-3EH47-2AX0 SIPLUS HMI KP32F PN
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		
- Remark			
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating			
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A
Functionality under WinCC (TIA Portal)			
Process coupling			
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU	Yes; with ET 200pro CPU and ET 200S CPU	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes	Yes	Yes
• S7-200	No	No	No
• S7-300/400	Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic V11 (or higher)	Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic V11 (or higher)	Yes; with F-CPU: STEP 7 V11 SP1 or higher and Safety V11 (or higher), without F-CPU STEP 7 or SIMATIC STEP 7 Basic V11 (or higher)
• LOGO!	No	No	No
• WinAC	Yes	Yes	Yes
• SIMOTION	No	No	No
• Allen Bradley (EtherNet/IP)	No	No	No
• Allen Bradley (DF1)	No	No	No
• Mitsubishi (MC TCP/IP)	No	No	No
• Mitsubishi (FX)	No	No	No
• OMRON (FINS TCP)	No	No	No
• OMRON (Host Link)	No	No	No
• Modicon (Modbus TCP/IP)	No	No	No
• Modicon (Modbus RTU)	No	No	No
Mechanics/material			
Enclosure material (front)			
• plastic	Yes	Yes	No
• Aluminum	No	No	Yes
• Stainless steel	No	No	No
Service life			
• Short-stroke keys (in switching cycles)	1 500 000	1 500 000	1 500 000
• LEDs (ON period)	100 %	100 %	100 %
Dimensions			
Width of the housing front	98 mm	98 mm	295 mm
Height of housing front	155 mm	155 mm	155 mm
Mounting cutout, width	68 mm; Max. thickness of mounting plate 2 - 6 mm	67.7 mm; Max. thickness of mounting plate 2 - 6 mm	277 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	129 mm	129.7 mm	137 mm
mounting depth	49 mm; Incl. angled SIMATIC Ethernet connector	49 mm; Incl. angled SIMATIC Ethernet connector	37 mm; Incl. angled SIMATIC Ethernet connector
Weights			
Weight (without packaging)	280 g	280 g	1 220 g

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Overview



Basic Panels 2nd Generation

With their fully developed HMI basic functions, SIMATIC HMI Basic Panels 2nd Generation are the ideal entry-level series for simple HMI applications.

The device family offers panels with 4", 7", 9" and 12" displays, as well as combined key and touch operation.

The innovative high-resolution widescreen displays with 64 000 colors are also suitable for upright installation, and they can be dimmed down to 100%. The innovative operator interface with improved usability opens up a diverse range of options thanks to new controls and graphics. The new USB interface enables the connection of keyboard, mouse or bar code scanner, and supports the simple archiving of data on a USB flash drive as well as the manual backup and restoring of the complete panel.

The integrated Ethernet or RS 485/RS 422 interface (version-specific) enables simple connection to the controller.

More information is available at this link

Selection and ordering data

SIMATIC HMI Basic Panels (2 nd Generation)	
Key and touch devices	
SIMATIC HMI KTP400 Basic Key/touch operation; 4" TFT widescreen display, 65 536 colors, PROFINET interface	**6AV2123-2DB03-0AX0**
SIMATIC HMI TP400 Basic Keyless Touch screen operation; 4" TFT widescreen display, 65 536 colors, PROFINET interface	**6AV2143-6DB00-0AA0**
SIMATIC HMI KTP700 Basic Key/touch operation; 7" TFT display, 65 536 colors, PROFINET interface	**6AV2123-2GB03-0AX0**
SIMATIC HMI KTP700 Basic DP Key/touch operation; 7" TFT display, 65 536 colors, PROFIBUS interface	**6AV2123-2GA03-0AX0**
SIMATIC HMI TP700 Basic Keyless Touch screen operation; 7" TFT display, 65 536 colors, PROFINET interface	**6AV2143-6GB00-0AA0**
SIMATIC HMI KTP900 Basic Key/touch operation; 9" TFT display, 65 536 colors, PROFINET interface	**6AV2123-2JB03-0AX0**
SIMATIC HMI TP900 Basic Keyless Touch screen operation; 9" TFT display, 65 536 colors, PROFINET interface	**6AV2143-6JB00-0AA0**
SIMATIC HMI KTP1200 Basic Key/touch operation; 12" TFT display, 65 536 colors, PROFINET interface	**6AV2123-2MB03-0AX0**
SIMATIC HMI KTP1200 Basic DP Key/touch operation; 12" TFT display, 65 536 colors, PROFIBUS interface	**6AV2123-2MA03-0AX0**
Documentation	
You can find the Equipment Manual for the Basic Panels on the Internet at:	Link
Accessories	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Technical specifications

Article number	6AV2123-2DB03-0AX0	6AV2143-6DB00-0AA0	6AV2123-2GB03-0AX0	6AV2123-2GA03-0AX0	6AV2143-6GB00-0AA0
	SIMATIC HMI KTP400 Basic	SIMATIC HMI TP400 Basic OEM	SIMATIC HMI KTP700 Basic	SIMATIC HMI KTP700 Basic DP	SIMATIC HMI TP700 Basic OEM
General information					
Product type designation	KTP400 Basic	TP400 Basic Keyless	KTP700 Basic color PN	KTP700 Basic color DP	TP700 Basic Keyless
Display					
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	4.3 in	4.3 in	7 in	7 in	7 in
Number of colors	65 536	65 536	65 536	65 536	65 536
Resolution (pixels)					
• Horizontal image resolution	480 pixel	480 pixel	800 pixel	800 pixel	800 pixel
• Vertical image resolution	272 pixel	272 pixel	480 pixel	480 pixel	480 pixel
Backlighting					
• MTBF backlighting (at 25 °C)	20 000 h	20 000 h	20 000 h	20 000 h	20 000 h
Control elements					
Keyboard					
• Function keys		No			No
- Number of function keys	4	0	8	8	0
Touch operation					
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive
• Design as multi-touch screen		No			
• Monitor keyboard		Yes			
Installation type/mounting					
Wall mounting/direct mounting	No	No	No		
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Storage					
Memory available for user data	10 Mbyte	10 Mbyte	10 Mbyte	10 Mbyte	10 Mbyte
Type of output					
Acoustics					
• Buzzer	Yes	Yes	Yes	Yes	Yes
Time of day					
Clock					
• Software clock	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes
Interfaces					
Number of industrial Ethernet interfaces	1	1	1	0	1
Number of RS 485 interfaces	0	0	0	1	0
Number of USB interfaces	1; Up to 16 GB	1	1; Up to 16 GB	1; Up to 16 GB	1; Up to 16 GB
Number of SD card slots	0	0	0	0	0
Protocols					
PROFINET	Yes	Yes	Yes	No	Yes
IRT	No	No	No	No	No
PROFIBUS	No	No	No	Yes	No
MPI	No	No	No	Yes	No
Redundancy mode					
- Media redundancy					
- MRP	No	No	No	No	No
Degree and class of protection					
IP (at the front)	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20
NEMA (front)					
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2123-2DB03-0AX0	6AV2143-6DB00-0AA0	6AV2123-2GB03-0AX0	6AV2123-2GA03-0AX0	6AV2143-6GB00-0AA0
	SIMATIC HMI KTP400 Basic	SIMATIC HMI TP400 Basic OEM	SIMATIC HMI KTP700 Basic	SIMATIC HMI KTP700 Basic DP	SIMATIC HMI TP700 Basic OEM
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes		Yes	Yes	Yes
EAC (formerly Gost-R)		Yes			
Use in hazardous areas					
• ATEX Zone 2	No	No	No	No	No
• ATEX Zone 22	No	No	No	No	No
• IECEx Zone 2	No		No	No	No
• IECEx Zone 22	No		No	No	No
• cULus Class I Zone 2, Division 2	No	No	No	No	No
• FM Class I Division 2	No	No	No	No	No
Ambient conditions					
Suited for indoor use	Yes			Yes	
Suited for outdoor use	No			No	
Relative humidity					
• Operation, max.	90 %; no condensation	90 %	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages					
Online languages					
• Number of online/runtime languages	10	10	10	10	10
Functionality under WinCC (TIA Portal)					
Applications/options					
• Web browser	Yes		Yes	No	Yes
• SIMATIC WinCC Sm@rtServer	Yes; Available with WinCC (TIA Portal) V14 or higher		Yes; Available with WinCC (TIA Portal) V14 or higher	No	
Number of Visual Basic Scripts	No	No	No	No	No
Task planner	Yes	Yes	Yes	Yes	Yes
• time-controlled	No	No	No	No	No
• task-controlled	Yes	Yes	Yes	Yes	Yes
Message system					
• Bit messages					
- Number of bit messages	1 000	1 000	1 000	1 000	1 000
• Analog messages					
- Number of analog messages	25	25	25	25	25
• Message buffer					
- Number of entries	256	256	256	256	256
- Circulating buffer	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes
Recipe management					
• Number of recipes	50	50	50	50	50
• Size of internal recipe memory	256 kbyte	256 kbyte	256 kbyte	256 kbyte	256 kbyte
• Recipe memory expandable	No	No	No	No	No
Variables					
• Number of variables per device	800	800	800	800	800
• Number of variables per screen	100	100	100	100	100
Images					
• Number of configurable images	250	100	250	250	250
Archiving					
• Number of archives per device	2; One message and one process value archive	2	2; One message and one process value archive	2; One message and one process value archive	2
• Number of entries per archive	10 000	10 000	10 000	10 000	10 000

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Technical specifications (continued)

Article number	6AV2123-2DB03-0AX0	6AV2143-6DB00-0AA0	6AV2123-2GB03-0AX0	6AV2123-2GA03-0AX0	6AV2143-6GB00-0AA0
	SIMATIC HMI KTP400 Basic	SIMATIC HMI TP400 Basic OEM	SIMATIC HMI KTP700 Basic	SIMATIC HMI KTP700 Basic DP	SIMATIC HMI TP700 Basic OEM
• Message archive	Yes	Yes	Yes	Yes	Yes
• Process value archive	Yes	Yes	Yes	Yes	Yes
• Archiving methods					
- Sequential archive	Yes	Yes	Yes	Yes	Yes
- Short-term archive	Yes	Yes	Yes	Yes	Yes
• Memory location					
- Memory card	No	No	No	No	No
- USB memory	Yes	Yes	Yes	Yes	Yes
- Ethernet	No	No	No	No	No
• Data storage format					
- CSV	No	Yes	No	No	No
- TXT	Yes	No	Yes	Yes	Yes
- RDB	No	No	No	No	No
Security					
• Number of user groups	50	50	50	50	50
• Number of users	50		50	50	50
• SIMATIC Logon	No	No	No	No	No
Transfer (upload/download)					
• MPI/PROFIBUS DP	No	No	No	Yes	No
• Ethernet	Yes	Yes	Yes	No	Yes
Process coupling					
• S7-1200	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	No	Yes
• Allen Bradley (DF1)	No	No	No	Yes	No
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	No	Yes
• Mitsubishi (FX)	No	No	No	Yes	No
• OMRON (FINS TCP)	No	No	No	No	No
• OMRON (Host Link)	No	No	No	Yes	No
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	No	Yes
• Modicon (Modbus RTU)	No	No	No	Yes	No
Peripherals/Options					
Printer	No	No	No	No	No
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	No	No	No	No	No
USB memory	Yes	Yes; USB storage medium can be connected	Yes	Yes	Yes
Mechanics/material					
Enclosure material (front)					
• Plastic	Yes	Yes	Yes	Yes	Yes
• Aluminum	No	No	No	No	No
• Stainless steel	No	No	No	No	No
Dimensions					
Width of the housing front	140 mm	140 mm	214 mm	214 mm	214 mm
Height of housing front	116 mm	116 mm	158 mm	158 mm	158 mm
Mounting cutout, width	124 mm	123 mm	198 mm	198 mm	197 mm
Mounting cutout, height	100 mm	99 mm	142 mm	142 mm	141 mm

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Technical specifications (continued)

Article number	6AV2123-2DB03-0AX0	6AV2143-6DB00-0AA0	6AV2123-2GB03-0AX0	6AV2123-2GA03-0AX0	6AV2143-6GB00-0AA0
	SIMATIC HMI KTP400 Basic	SIMATIC HMI TP400 Basic OEM	SIMATIC HMI KTP700 Basic	SIMATIC HMI KTP700 Basic DP	SIMATIC HMI TP700 Basic OEM
mounting depth	34.9 mm	33 mm	39 mm	39 mm	39 mm
Weights					
Weight (without packaging)	360 g		780 g	800 g	780 g

Article number	6AV2123-2JB03-0AX0	6AV2143-6JB00-0AA0	6AV2123-2MB03-0AX0	6AV2123-2MA03-0AX0
	SIMATIC HMI KTP900 Basic	SIMATIC HMI TP900 Basic OEM	SIMATIC HMI KTP1200 Basic	SIMATIC HMI KTP1200 Basic DP
General information				
Product type designation	KTP900 Basic color PN	TP900 Basic Keyless	KTP1200 Basic color PN	KTP1200 Basic color DP
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	9 in	9 in	12 in	12 in
Number of colors	65 536	65 536	65 536	65 536
Resolution (pixels)				
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel	800 pixel
Backlighting				
• MTBF backlighting (at 25 °C)	20 000 h	20 000 h	20 000 h	20 000 h
Control elements				
Keyboard				
• Function keys		No		
- Number of function keys	8	0	10	10
Touch operation				
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive
• Design as multi-touch screen		No		
• Monitor keyboard		Yes		
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Storage				
Memory available for user data	10 Mbyte	10 Mbyte	10 Mbyte	10 Mbyte
Type of output				
Acoustics		Buzzer		
• Buzzer	Yes	Yes	Yes	Yes
Time of day				
Clock				
• Software clock	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes
Interfaces				
Number of industrial Ethernet interfaces	1	1	1	0
Number of RS 485 interfaces	0	0	0	1
Number of USB interfaces	1; Up to 16 GB	1; USB 2.0, up to 16 GB respectively	1; Up to 16 GB	1; Up to 16 GB
Number of SD card slots	0	0	0	0
Industrial Ethernet				
• Number of ports of the integrated switch		0		
Protocols				
PROFINET	Yes	Yes	Yes	No
IRT	No	No	No	No
PROFIBUS	No	No	No	Yes
MPI	No	No	No	Yes
Redundancy mode				

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Technical specifications (continued)

Article number	6AV2123-2JB03-0AX0 SIMATIC HMI KTP900 Basic	6AV2143-6JB00-0AA0 SIMATIC HMI TP900 Basic OEM	6AV2123-2MB03-0AX0 SIMATIC HMI KTP1200 Basic	6AV2123-2MA03-0AX0 SIMATIC HMI KTP1200 Basic DP
- Media redundancy				
- MRP	No	No	No	No
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
cULus	Yes		Yes	Yes
RCM (formerly C-TICK)	Yes		Yes	Yes
KC approval	Yes		Yes	Yes
Use in hazardous areas				
• ATEX Zone 2	No		No	No
• ATEX Zone 22	No		No	No
• IECEx Zone 2	No		No	No
• IECEx Zone 22	No		No	No
• cULus Class I Zone 2, Division 2	No		No	No
• FM Class I Division 2	No		No	No
Ambient conditions				
Suited for indoor use				Yes
Suited for outdoor use				No
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages				
Online languages				
• Number of online/runtime languages	10	10	10	10
Functionality under WinCC (TIA Portal)				
Applications/options				
• Web browser	Yes	No	Yes	No
• SIMATIC WinCC Sm@rtServer	Yes; Available with WinCC (TIA Portal) V14 or higher	No	Yes; Available with WinCC (TIA Portal) V14 or higher	No
Number of Visual Basic Scripts	No	No	No	No
Task planner	Yes	Yes	Yes	Yes
• time-controlled	No	No	No	No
• task-controlled	Yes	Yes	Yes	Yes
Message system				
• Bit messages				
- Number of bit messages	1 000	1 000	1 000	1 000
• Analog messages				
- Number of analog messages	25	25	25	25
• Message buffer				
- Number of entries	256	256	256	256
- Circulating buffer	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes
Recipe management				
• Number of recipes	50	50	50	50
• Size of internal recipe memory	256 kbyte	256 kbyte	256 kbyte	256 kbyte
• Recipe memory expandable	No		No	No
Variables				
• Number of variables per device	800	800	800	800
• Number of variables per screen	100	100	100	100
Images				
• Number of configurable images	250	100	250	250

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Technical specifications (continued)

Article number	6AV2123-2JB03-0AX0 SIMATIC HMI KTP900 Basic	6AV2143-6JB00-0AA0 SIMATIC HMI TP900 Basic OEM	6AV2123-2MB03-0AX0 SIMATIC HMI KTP1200 Basic	6AV2123-2MA03-0AX0 SIMATIC HMI KTP1200 Basic DP
Archiving				
• Number of archives per device	2; One message and one process value archive	2	2; One message and one process value archive	2; One message and one process value archive
• Number of entries per archive	10 000	10 000	10 000	10 000
• Message archive	Yes	Yes	Yes	Yes
• Process value archive	Yes	Yes	Yes	Yes
• Archiving methods				
- Sequential archive	Yes	Yes	Yes	Yes
- Short-term archive	Yes	Yes	Yes	Yes
• Memory location				
- Memory card	No	No	No	No
- USB memory	Yes	Yes	Yes	Yes
- Ethernet	No	No	No	No
• Data storage format				
- CSV	No	No	No	No
- TXT	Yes	Yes	Yes	Yes
- RDB	No	No	No	No
Security				
• Number of user groups	50	50	50	50
• Number of users	50		50	50
• SIMATIC Logon	No	No	No	No
Transfer (upload/download)				
• MPI/PROFIBUS DP	No	No	No	Yes
• Ethernet	Yes	Yes	Yes	No
Process coupling				
• S7-1200	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	No
• Allen Bradley (DF1)	No	No	No	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	No
• Mitsubishi (FX)	No	No	No	Yes
• OMRON (FINS TCP)	No	No	No	No
• OMRON (Host Link)	No	No	No	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	No
• Modicon (Modbus RTU)	No	No	No	Yes
Peripherals/Options				
Printer	No	No	No	No
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	No	No	No	No
USB memory	Yes	Yes; USB storage medium can be connected	Yes	Yes
Mechanics/material				
Enclosure material (front)				
• Plastic	Yes	Yes	Yes	Yes
• Aluminum	No	No	No	No
• Stainless steel	No	No	No	No
Dimensions				
Width of the housing front	267 mm	267 mm	330 mm	330 mm

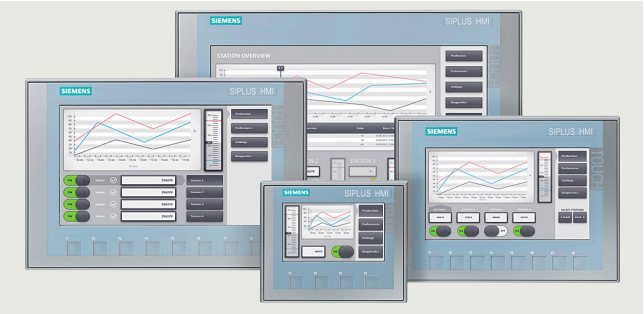
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Technical specifications (continued)

Article number	6AV2123-2JB03-0AX0	6AV2143-6JB00-0AA0	6AV2123-2MB03-0AX0	6AV2123-2MA03-0AX0
	SIMATIC HMI KTP900 Basic	SIMATIC HMI TP900 Basic OEM	SIMATIC HMI KTP1200 Basic	SIMATIC HMI KTP1200 Basic DP
Height of housing front	182 mm	182 mm	245 mm	245 mm
Mounting cutout, width	251 mm	251 mm	310 mm	310 mm
Mounting cutout, height	166 mm	166 mm	221 mm	221 mm
mounting depth	39.4 mm	55 mm	54.9 mm	54.9 mm
Weights				
Weight (without packaging)	1 130 g	1 130 g	1 710 g	1 710 g

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Overview



With their fully developed HMI basic functions, 2nd Generation SIPLUS Basic Panels are the ideal entry-level series for simple HMI applications.

The device family offers panels with 4", 7", 9" and 12" displays, as well as combined key and touch operation.

The innovative high-resolution widescreen displays with 64 000 colors are also suitable for upright installation, and they can be dimmed down to 100%. The innovative operator interface with improved usability opens up a diverse range of options thanks to new controls and graphics. The new USB interface enables the connection of keyboard, mouse or barcode scanner, and supports the simple archiving of data on a USB flash drive.

The integrated Ethernet or RS 485/422 interface (version-specific) enables simple connection to the controller.

Note

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the corresponding standard products. SIPLUS extreme-specific information was added.

Selection and ordering data

SIPLUS HMI Basic Panels, Key and Touch	
SIPLUS HMI KTP400 Basic For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -20 ... +60 °C	**6AG1123-2DB03-2AX0**
SIPLUS HMI KTP700 Basic For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -20 ... +50 °C	**6AG1123-2GB03-2AX0**
SIPLUS HMI KTP700 Basic DP For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -20 ... +50 °C	**6AG1123-2GA03-2AX0**
SIPLUS HMI KTP900 Basic For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -20 ... +50 °C	**6AG1123-2JB03-2AX0**
SIPLUS HMI KTP1200 Basic For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -10 ... +50 °C	**6AG1123-2MB03-2AX0**
SIPLUS HMI KTP1200 Basic DP For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -10 ... +50 °C	**6AG1123-2MA03-2AX0**
Accessories	See SIMATIC Basic Panels 2nd Generation

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Technical specifications

Article number	6AG1123-2DB03-2AX0 SIPLUS HMI KTP400 BASIC	6AG1123-2GB03-2AX0 SIPLUS HMI KTP700 BASIC	6AG1123-2GA03-2AX0 SIPLUS HMI KTP700 BASIC DP
General information			
Product type designation	KTP400 Basic color PN	KTP700 Basic color PN	KTP700 Basic color DP
Display			
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	4.3 in	7 in	7 in
Number of colors	65 536	65 536	65 536
Resolution (pixels)			
• Horizontal image resolution	480 pixel	800 pixel	800 pixel
• Vertical image resolution	272 pixel	480 pixel	480 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	20 000 h	20 000 h	20 000 h
Control elements			
Keyboard			
• Function keys			
- Number of function keys	4	8	8
Touch operation			
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive
Installation type/mounting			
Wall mounting/direct mounting	No	No	
Mounting in portrait format possible	Yes	Yes	Yes
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Storage			
Memory available for user data	10 Mbyte	10 Mbyte	10 Mbyte
Type of output			
Acoustics			
• Buzzer	Yes	Yes	Yes
Time of day			
Clock			
• Software clock	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	1	1	0
Number of RS 485 interfaces	0	0	1
Number of USB interfaces	1; Up to 16 GB	1; Up to 16 GB	1; Up to 16 GB
Number of SD card slots	0	0	0
Protocols			
PROFINET	Yes	Yes	No
IRT	No	No	No
PROFIBUS	No	No	Yes
MPI	No	No	Yes
Redundancy mode			
- Media redundancy			
- MRP	No	No	No
Degree and class of protection			
IP (at the front)	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20
NEMA (front)			
• Enclosure Type 4x at the front	Yes	Yes	Yes
Ambient conditions			
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.	5 000 m	5 000 m	5 000 m

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Technical specifications (continued)

Article number	6AG1123-2DB03-2AX0 SIPLUS HMI KTP400 BASIC	6AG1123-2GB03-2AX0 SIPLUS HMI KTP700 BASIC	6AG1123-2GA03-2AX0 SIPLUS HMI KTP700 BASIC DP
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity			
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position
Resistance			
- Coolants and lubricants			
- Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air
- Use in stationary industrial systems			
- to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *
- Use on ships/at sea			
- to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
- to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *
- Usage in industrial process technology			
- Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
- Remark			
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating			
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A
Languages			
Online languages			
• Number of online/runtime languages	10	10	10
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser		Yes	No
• SIMATIC WinCC Sm@rtServer	Yes; Available with WinCC (TIA Portal) V14 or higher	Yes; Available with WinCC (TIA Portal) V14 or higher	No

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Technical specifications (continued)

Article number	6AG1123-2DB03-2AX0 SIPLUS HMI KTP400 BASIC	6AG1123-2GB03-2AX0 SIPLUS HMI KTP700 BASIC	6AG1123-2GA03-2AX0 SIPLUS HMI KTP700 BASIC DP
Number of Visual Basic Scripts	No	No	No
Task planner	Yes	Yes	Yes
• time-controlled	No	No	No
• task-controlled	Yes	Yes	Yes
Message system			
• Bit messages			
- Number of bit messages	1 000	1 000	1 000
• Analog messages			
- Number of analog messages	25	25	25
• Message buffer	Yes		
- Number of entries	256	256	256
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe management			
• Number of recipes	50	50	50
• Size of internal recipe memory	256 kbyte	256 kbyte	256 kbyte
• Recipe memory expandable	No	No	No
Variables			
• Number of variables per device	800	800	800
• Number of variables per screen	100	100	100
Images			
• Number of configurable images	250	250	250
Archiving			
• Number of archives per device	2; One message and one process value archive	2; One message and one process value archive	2; One message and one process value archive
• Number of entries per archive	10 000	10 000	10 000
• Message archive	Yes	Yes	Yes
• Process value archive	Yes	Yes	Yes
• Archiving methods			
- Sequential archive	Yes	Yes	Yes
- Short-term archive	Yes	Yes	Yes
• Memory location			
- Memory card	No	No	No
- USB memory	Yes	Yes	Yes
- Ethernet	No	No	No
• Data storage format			
- CSV	No	No	No
- TXT	Yes	Yes	Yes
- RDB	No	No	No
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
• SIMATIC Logon	No	No	No
Transfer (upload/download)			
• MPI/PROFIBUS DP	No	No	Yes
• Ethernet	Yes	Yes	No
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	No

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Technical specifications (continued)

Article number	6AG1123-2DB03-2AX0 SIPLUS HMI KTP400 BASIC	6AG1123-2GB03-2AX0 SIPLUS HMI KTP700 BASIC	6AG1123-2GA03-2AX0 SIPLUS HMI KTP700 BASIC DP
• Allen Bradley (DF1)	No	No	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	No
• Mitsubishi (FX)	No	No	Yes
• OMRON (FINS TCP)	No	No	No
• OMRON (Host Link)	No	No	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	No
• Modicon (Modbus RTU)	No	No	Yes
Peripherals/Options			
Printer	No	No	No
SIMATIC HMI MM memory card: Multi Media Card	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	No	No	No
USB memory	Yes	Yes	Yes
Mechanics/material			
Enclosure material (front)			
• plastic	Yes	Yes	Yes
• Aluminum	No	No	No
• Stainless steel	No	No	No
Dimensions			
Width of the housing front	140 mm	214 mm	214 mm
Height of housing front	116 mm	158 mm	158 mm
Mounting cutout, width	124 mm	198 mm	198 mm
Mounting cutout, height	100 mm	142 mm	142 mm
mounting depth	34.9 mm	39 mm	39 mm
Weights			
Weight (without packaging)	360 g	780 g	800 g

Article number	6AG1123-2JB03-2AX0 SIPLUS HMI KTP900 BASIC	6AG1123-2MB03-2AX0 SIPLUS HMI KTP1200 BASIC	6AG1123-2MA03-2AX0 SIPLUS HMI KTP1200 BASIC DP
General information			
Product type designation	KTP900 Basic color PN	KTP1200 Basic color PN	KTP1200 Basic color DP
Display			
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	9 in	12 in	12 in
Number of colors	65 536	65 536	65 536
Resolution (pixels)			
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	20 000 h	20 000 h	20 000 h
Control elements			
Keyboard			
• Function keys			
- Number of function keys	8	10	10
Touch operation			
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Storage			
Memory available for user data	10 Mbyte	10 Mbyte	10 Mbyte
Type of output			
Acoustics			

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Technical specifications (continued)

Article number	6AG1123-2JB03-2AX0 SIPLUS HMI KTP900 BASIC	6AG1123-2MB03-2AX0 SIPLUS HMI KTP1200 BASIC	6AG1123-2MA03-2AX0 SIPLUS HMI KTP1200 BASIC DP
• Buzzer	Yes	Yes	Yes
Time of day			
Clock			
• Software clock	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	1	1	0
Number of RS 485 interfaces	0	0	1
Number of USB interfaces	1; Up to 16 GB	1; Up to 16 GB	1; Up to 16 GB
Number of SD card slots	0	0	0
Protocols			
PROFINET	Yes	Yes	No
IRT	No	No	No
PROFIBUS	No	No	Yes
MPI	No	No	Yes
Redundancy mode			
- Media redundancy			
- MRP	No	No	No
Degree and class of protection			
IP (at the front)	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20
NEMA (front)			
• Enclosure Type 4x at the front	Yes	Yes	Yes
Ambient conditions			
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.	5 000 m	5 000 m	5 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity			
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position
Resistance			
- Coolants and lubricants			
- Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air
- Use in stationary industrial systems			
- to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *
- Use on ships/at sea			
- to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
- to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *

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Technical specifications (continued)

Article number	6AG1123-2JB03-2AX0 SIPLUS HMI KTP900 BASIC	6AG1123-2MB03-2AX0 SIPLUS HMI KTP1200 BASIC	6AG1123-2MA03-2AX0 SIPLUS HMI KTP1200 BASIC DP
- to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *
- Usage in industrial process technology			
- Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
- Remark			
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating			
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A
Languages			
Online languages			
• Number of online/runtime languages	10	10	10
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser	Yes	Yes	No
• SIMATIC WinCC Sm@rtServer	Yes; Available with WinCC (TIA Portal) V14 or higher	Yes; Available with WinCC (TIA Portal) V14 or higher	No
Number of Visual Basic Scripts	No	No	No
Task planner	Yes	Yes	Yes
• time-controlled	No	No	No
• task-controlled	Yes	Yes	Yes
Message system			
• Bit messages			
- Number of bit messages	1 000	1 000	1 000
• Analog messages			
- Number of analog messages	25	25	25
• Message buffer	Yes		
- Number of entries	256	256	256
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe management			
• Number of recipes	50	50	50
• Size of internal recipe memory	256 kbyte	256 kbyte	256 kbyte
• Recipe memory expandable	No	No	No
Variables			
• Number of variables per device	800	800	800
• Number of variables per screen	100	100	100
Images			
• Number of configurable images	250	250	250
Archiving			
• Number of archives per device	2	2; One message and one process value archive	2
• Number of entries per archive	10 000	10 000	10 000

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Technical specifications (continued)

Article number	6AG1123-2JB03-2AX0 SIPLUS HMI KTP900 BASIC	6AG1123-2MB03-2AX0 SIPLUS HMI KTP1200 BASIC	6AG1123-2MA03-2AX0 SIPLUS HMI KTP1200 BASIC DP
• Message archive	Yes	Yes	Yes
• Process value archive	Yes	Yes	Yes
• Archiving methods			
- Sequential archive	Yes	Yes	Yes
- Short-term archive	Yes	Yes	Yes
• Memory location			
- Memory card	No	No	No
- USB memory	Yes	Yes	Yes
- Ethernet	No	No	No
• Data storage format			
- CSV	No	No	No
- TXT	Yes	Yes	Yes
- RDB	No	No	No
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
• SIMATIC Logon	No	No	No
Transfer (upload/download)			
• MPI/PROFIBUS DP	No	No	Yes
• Ethernet	Yes	Yes	No
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	No
• Allen Bradley (DF1)	No	No	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	No
• Mitsubishi (FX)	No	No	Yes
• OMRON (FINS TCP)	No	No	No
• OMRON (Host Link)	No	No	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	No
• Modicon (Modbus RTU)	No	No	Yes
Peripherals/Options			
Printer	No	No	No
SIMATIC HMI MM memory card: Multi Media Card	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	No	No	No
USB memory	Yes	Yes	Yes
Mechanics/material			
Enclosure material (front)			
• plastic	Yes	Yes	Yes
• Aluminum	No	No	No
• Stainless steel	No	No	No
Dimensions			
Width of the housing front	267 mm	330 mm	330 mm
Height of housing front	182 mm	245 mm	245 mm
Mounting cutout, width	251 mm	310 mm	310 mm
Mounting cutout, height	166 mm	221 mm	221 mm
mounting depth	39.4 mm	54.9 mm	54.9 mm
Weights			
Weight (without packaging)	1 130 g	1 710 g	1 710 g

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Overview



SIMATIC HMI Unified Basic Panels

SIMATIC HMI Unified Basic Panels consist of four different devices with varying display sizes.
All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Basic Panel is available in the standard design with Siemens and SIMATIC HMI branding.

SIMATIC WinCC Unified contains visualization, communication, alarms/warnings, administration of parameter sets, archiving of user administration.
Furthermore, a WinCC Unified Client Operate for remote operator control and monitoring is included.

Client access is based on native web technologies such as HTML5, SVG and JavaScript. Synchronous access for service and maintenance can be easily implemented via Sm@rt/VNC clients.

Selection and ordering data

SIMATIC HMI MTP400, Unified Basic Panel Touch operation, 4" widescreen TFT display, 16 million colors, PROFINET interface, configurable as of WinCC Unified Basic V18 Upd. 3, contains open source SW which is provided free of chargeSee enclosed Blu-Ray	**6AV2123-3DB32-0AW0**
SIMATIC HMI MTP700, Unified Basic Panel Touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as of WinCC Unified Basic V18 Upd. 3, contains open source SW which is provided free of chargeSee enclosed Blu-Ray	**6AV2123-3GB32-0AW0**
SIMATIC HMI MTP1000, Unified Basic Panel Touch operation, 10" widescreen TFT display, 16 million colors, PROFINET interface, configurable as of WinCC Unified Basic V18 Upd. 3, contains open source SW which is provided free of chargeSee enclosed Blu-Ray	**6AV2123-3KB32-0AW0**
SIMATIC HMI MTP1200, Unified Basic Panel Touch operation, 12" widescreen TFT display, 16 million colors, PROFINET interface, configurable as of WinCC Unified Basic V18 Upd. 3, contains open source SW which is provided free of chargeSee enclosed Blu-Ray	**6AV2123-3MB32-0AW0**

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Technical specifications

Article number	6AV2123-3DB32-0AW0 SIMATIC HMI MTP400 Unified Basic	6AV2123-3GB32-0AW0 SIMATIC HMI MTP700 Unified Basic	6AV2123-3KB32-0AW0 SIMATIC HMI MTP1000 Unified Basic	6AV2123-3MB32-0AW0 SIMATIC HMI MTP1200 Unified Basic
General information				
Product type designation	MTP400 Unified Basic	MTP700 Unified Basic	MTP1000 Unified Basic	MTP1200 Unified Basic
Display				
Design of display	TFT	TFT	TFT	TFT
Screen diagonal	4.3 in	7 in	10.1 in	12.1 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)				
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel	800 pixel
Backlighting				
• MTBF backlighting (at 25 °C)	20 000 h; At 25°C	20 000 h; At 25°C	20 000 h; At 25°C	20 000 h; At 25°C
Control elements				
Touch operation				
• Design as touch screen	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes	Yes	Yes
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Type of output				
Acoustics				
• Buzzer	No	No	No	No
Time of day				
Clock				
• Software clock	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes
Interfaces				
Number of industrial Ethernet interfaces	1; Gigabit Ethernet (IE/PN), RJ45	1; Gigabit Ethernet (IE/PN), RJ45	1; Gigabit Ethernet (IE/PN), RJ45	1; Gigabit Ethernet (IE/PN), RJ45
Number of RS 485 interfaces	0	0	0	0
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
Number of SD card slots	0	0	0	0
Industrial Ethernet				
• Number of ports of the integrated switch	1	1	1	1
Protocols				
PROFINET	Yes	Yes	Yes	Yes
IRT	No	No	No	No
MPI	No	No	No	No
Redundancy mode				
- Media redundancy				
- MRP	No	No	No	No
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)	NEMA 4, NEMA 4x (when installed)	NEMA 4, NEMA 4x (when installed)	NEMA 4, NEMA 4x (when installed)	NEMA 4, NEMA 4x (when installed)
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	No	No	No	No
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
FM approval	No	No	No	No

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Technical specifications (continued)

Article number	6AV2123-3DB32-0AW0 SIMATIC HMI MTP400 Unified Basic	6AV2123-3GB32-0AW0 SIMATIC HMI MTP700 Unified Basic	6AV2123-3KB32-0AW0 SIMATIC HMI MTP1000 Unified Basic	6AV2123-3MB32-0AW0 SIMATIC HMI MTP1200 Unified Basic
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	No	No	No	No
CCC	No	No	No	No
Use in hazardous areas				
• ATEX Zone 2	No	No	No	No
• ATEX Zone 22	No	No	No	No
• IECEx Zone 2	No	No	No	No
• IECEx Zone 22	No	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No	No
• cULus Class II Division 2	No	No	No	No
• FM Class I Division 2	No	No	No	No
• FM Class II Division 2	No	No	No	No
Marine approval				
• Germanischer Lloyd (GL)	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV
• American Bureau of Shipping (ABS)	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
• Bureau Veritas (BV)	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes
• Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No
Ambient temperature during operation				
- Operation (vertical installation)				
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration				
Configuration software				
• WinCC Unified Basic Engineering (TIA Portal)	Yes	Yes	Yes	Yes
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes
Languages				
Online languages				
• Number of online/runtime languages	32	32	32	32
Functionality under WinCC Unified				
Applications/options	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes
Task planner				
• time-controlled	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes
Message system				
• Bit messages				
- Number of bit messages	2 000	2 000	2 000	2 000
• Analog messages				
- Number of analog messages	100	100	100	100

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Technical specifications (continued)

Article number	6AV2123-3DB32-0AW0 SIMATIC HMI MTP400 Unified Basic	6AV2123-3GB32-0AW0 SIMATIC HMI MTP700 Unified Basic	6AV2123-3KB32-0AW0 SIMATIC HMI MTP1000 Unified Basic	6AV2123-3MB32-0AW0 SIMATIC HMI MTP1200 Unified Basic
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes
Parameter set management (recipes)				
• Number of parameter set types	250	250	250	250
• Size of internal parameter set memory	5 Mbyte	5 Mbyte	5 Mbyte	5 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes
Variables				
• Number of variables per device	1 000	1 000	1 000	1 000
• Number of variables per screen	300	300	300	300
Images				
• Number of configurable images	300	300	300	300
Archiving				
• Number of archives per device	10	10	10	10
Security				
• Number of roles	50	50	50	50
• Number of users	200	200	200	200
• Central user administration	Yes	Yes	Yes	Yes
Transfer (upload/download)				
• Ethernet	Yes	Yes	Yes	Yes
Process coupling				
• S7-1200	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes
• Number of S7 connections	8	8	8	8
• LOGO!	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20
• SIMOTION	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes
• OPC UA Server	No	No	No	No
• Software Controller/Open Controller	No	No	No	No
Peripherals/Options				
Peripherals	Barcode reader	Barcode reader	Barcode reader	Barcode reader
Printer	No	No	No	No
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	No	No	No	No
USB memory	Yes	Yes	Yes	Yes
Network camera	No	No	No	No
Mechanics/material				
Enclosure material (front)				
• Plastic	Yes	Yes	Yes	Yes
Dimensions				
Width of the housing front	140 mm	214 mm	280 mm	326 mm
Height of housing front	116 mm	158 mm	205 mm	237 mm
Mounting cutout, width	123 mm	197 mm	264 mm	310 mm
Mounting cutout, height	99 mm	141 mm	189 mm	221 mm
mounting depth	36 mm	36 mm	55 mm	55 mm
Weights				
Weight (without packaging)	0.45 kg	0.85 kg	1.55 kg	2.08 kg

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Overview

Realization of demanding HMI tasks with a high level of user convenience

Advanced HMI is the Panel-based solution for demanding applications with large configuration limits.
The user benefits from excellent functionality and a wide range of devices and applications, with key or touch operation. Both stationary and mobile solutions are available.

SIMATIC HMI Unified Comfort Panels

The new generation of high-end, 7–22" operator panels, part of the new SIMATIC WinCC Unified System, boasts numerous improvements over the predecessor devices in terms of performance, openness and user-friendliness.

- Rugged multi-touch technology
- Innovative SIMATIC WinCC Unified visualization software
- Integrated Edge functionality
- Remote Client support

SIMATIC HMI Comfort Panels

SIMATIC HMI Comfort Panels are designed for implementing high-performance visualization tasks at machine-level. High performance, functionality and numerous integrated interfaces offer the greatest convenience in high-end applications.

- Brilliant widescreen display of 4" to 22"
- Easy commissioning and service concept

SIMATIC HMI Mobile Panels

Panels for high-end mobile applications – even in the fail-safe area of machines and widely distributed plants. The process communication can be wired or via WLAN.

- Innovative operation from 4" to 9"
- Rugged for location-related local operation
- Integrated security concept

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Overview



SIMATIC HMI Unified Comfort Panels

The new generation of high-end, 7–22-inch HMI devices, part of the new SIMATIC WinCC Unified System, boasts numerous improvements over the predecessor devices in terms of performance, openness and user-friendliness.

Thanks to their capacitive glass front with multi-touch technology, the Unified Comfort Panels are as convenient to use as a smartphone or tablet. The sharp colors and high contrast improve the readability and ease of use.

Visualization on the devices is based on SIMATIC WinCC Unified, the new visualization system in the TIA Portal. This opens up many new opportunities and functionalities for the user – across all device sizes.

In addition to the numerous integrated functions (including archiving and recipe management), other license-based SIMATIC WinCC options can be used on the SIMATIC HMI Unified Comfort Panels.

- WinCC Unified Audit Basic/Enhanced for traceability of all operating actions related to value changes on tags. Further entries in the audit trail can be made using system and script functions.
- WinCC Unified Clients (Operate Client and Monitor Client) for asynchronous remote access via HTML5-enabled web browsers. Each HMI Unified Comfort Panel includes a Client Operate and a Client Monitor. The number of web clients can be optionally expanded to a maximum of three clients.
- WinCC Unified Report Execution for the automated generation of reports.
- WinCC Unified Collaboration for distributed configurations between Unified Comfort Panels and WinCC Unified PC RT stations.
- SIMATIC Unified ProDiag for efficient process diagnosis

Manage SIMATIC HMI Unified Comfort Panels with mobile devices (iOS or Android).
The "SIMATIC Unified Air" app is installed on a mobile device and the Unified Comfort Panel is connected to it via Bluetooth. The mobile devices used must be registered in advance for use.

- Authentication via biometric sensors of the mobile device
- Create and download HMI reports
- Capture and download HMI screenshots
- Device information

More information on the TIA Portal options can be found at this link

Brand new to the SIMATIC HMI product portfolio is the option to expand device functionality with apps. Previously, HMI Panels were used exclusively for visualization software. Thanks to the integration of Siemens Industrial Edge, users can now run other programs simultaneously alongside this standard device functionality. Project-specific requirements can thus be implemented quickly and easily.

The product group of SIMATIC HMI Unified Comfort Panels consists of the following variants:

Overview (continued)

- SIMATIC HMI Unified Comfort Panels **Standard**
  - Available in sizes 7" – 22"
  - Standard and neutral design available
- SIMATIC HMI Unified Comfort Panels **Hygienic**
  - Suitable for use in the food, beverages and tobacco industries as well as in the pharmaceutical industry (additional anti-shatter film, impact resistance IK10, and degree of protection IP69)
  - Available in sizes 7" – 22"
  - Standard and neutral design available
- SIMATIC HMI Unified Comfort Panel **PRO**
  - For cabinet-free mounting on support arm or stand systems in an all-round protected IP65 enclosure
  - Available in sizes 12" – 22"
  - Standard and neutral design available
- **SIPLUS** HMI Unified Comfort Panels
  - For use in harsh environments with increased air humidity, vibration, and corrosive gases
  - Available in sizes 7" – 12"
  - Standard design available

More information is available at this link

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Overview



SIMATIC HMI MTP2200 Unified Comfort Panel Standard design front view

SIMATIC HMI Unified Comfort Panels - standard devices

SIMATIC HMI Unified Comfort Panels consist of six different devices with varying display sizes.
All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Comfort Panel is available in the standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.

All Unified Comfort Panels come with integrated Edge functionality.

SIMATIC WinCC Unified contains visualization, communication, alarms/warnings, report creation, administration of parameter sets, archiving of user administration.
Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included.
Additional clients can be enabled with a license. Up to three client licenses can be used.

Client access is based on native web technologies such as HTML5, SVG and JavaScript. The visualization can be accessed via any modern web browser – without the need for additional installation.

Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

Selection and ordering data

Touch devices for SIMATIC HMI Unified Comfort Panels	
Standard design	
SIMATIC HMI MTP700 Unified Comfort Panel 7" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3GB06-0AX1**
SIMATIC HMI MTP1000 Unified Comfort Panel 10.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3KB06-0AX1**
SIMATIC HMI MTP1200 Unified Comfort Panel 12.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3MB06-0AX1**
SIMATIC HMI MTP1500 Unified Comfort Panel 15.6" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3QB06-0AX1**
SIMATIC HMI MTP1900 Unified Comfort Panel 18.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3UB06-0AX1**
SIMATIC HMI MTP2200 Unified Comfort Panel 21.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3XB06-0AX1**
Neutral design	
SIMATIC HMI MTP700 Unified Comfort Panel Neutral, touch operation; 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3GB36-0AX1**

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Selection and ordering data (continued)

SIMATIC HMI MTP1000 Unified Comfort Panel Neutral, touch operation; 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3KB36-0AX1**
SIMATIC HMI MTP1200 Unified Comfort Panel Neutral, touch operation; 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3MB36-0AX1**
SIMATIC HMI MTP1500 Unified Comfort Panel Neutral, touch operation; 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3QB36-0AX1**
SIMATIC HMI MTP1900 Unified Comfort Panel Neutral, touch operation; 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3UB36-0AX1**
SIMATIC HMI MTP2200 Unified Comfort Panel Neutral, touch operation; 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3XB36-0AX1**
Software	
EDGE Runtime for SIMATIC Unified Comfort Runtime software, single license, license key for download, without software and documentation, Class A, email address required for delivery	**6AV2170-2BA00-0AA0**

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Technical specifications

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
General information						
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
Marine approval						
• Germanischer Lloyd (GL)	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
• Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32

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Technical specifications (continued)

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20
• WinAC	No	No	No	No	No	No
• SINUMERIK	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (Host Link)	No	No	No	No	No	No
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	198.3 mm	264.6 mm	310.6 mm	382 mm	448 mm	513 mm
Mounting cutout, height	142 mm	189.1 mm	221.1 mm	241 mm	278 mm	315 mm
mounting depth	63.6 mm	63.6 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
General information						
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
Marine approval						
• Germanischer Lloyd (GL)	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
• Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20
• WinAC	No	No	No	No	No	No
• SINUMERIK	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (Host Link)	No	No	No	No	No	No
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	198.3 mm	264.6 mm	310.6 mm	382 mm	447.9 mm	513 mm
Mounting cutout, height	142 mm	189.1 mm	221.1 mm	241 mm	277.9 mm	315 mm
mounting depth	63.6 mm	63.6 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

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Overview



SIPLUS HMI Unified Comfort Panels - standard devices

SIPLUS HMI Unified Comfort Panels consist of six different devices with varying display sizes.
All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Comfort Panel is available in the standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.

All Unified Comfort Panels come with integrated Edge functionality.

SIMATIC WinCC Unified contains visualization, communication, alarms/warnings, report creation, administration of parameter sets, archiving of user administration.
Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included.
Additional clients can be enabled with a license. Up to three client licenses can be used.

Client access is based on native web technologies such as HTML5, SVG and JavaScript. The visualization can be accessed via any modern web browser – without the need for additional installation.

Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme-specific information was added.

Selection and ordering data

SIPLUS HMI Unified Comfort Panels	
Standard design	
SIPLUS HMI MTP700 Unified Comfort, with conformal coating	**6AG1128-3GB06-4AX1**
SIMATIC HMI MTP1000 Unified Comfort Panel, with conformal coating	**6AG1128-3KB06-4AX1**
SIMATIC HMI MTP1200 Unified Comfort Panel, with conformal coating	**6AG1128-3MB06-4AX1**
Accessories	
EDGE Runtime for SIMATIC Unified Comfort Runtime software, single license, license key for download, without software and documentation, Class A, email address required for delivery	**6AV2170-2BA00-0AA0**
Accessories	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Technical specifications

Article number	6AG1128-3GB06-4AX1 SIPLUS HMI MTP700 Unified Comfort	6AG1128-3KB06-4AX1 SIPLUS HMI MTP1000 Unified Comfort	6AG1128-3MB06-4AX1 SIPLUS HMI MTP1200 Unified Comfort
General information			
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort
Display			
Design of display	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in
Number of colors	16 777 216	16 777 216	16 777 216
Resolution (pixels)			
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements			
Touch operation			
• Design as touch screen	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Type of output			
Acoustics			
• Speaker	No	No	No
Time of day			
Clock			
• Hardware clock (real-time)	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2
Industrial Ethernet			
• Number of ports of the integrated switch	2	2	2
Protocols			
PROFINET	Yes	Yes	Yes
Redundancy mode			
- Media redundancy			
- MRP	Yes	Yes	Yes
Degree and class of protection			
IP (at the front)	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20
NEMA (front)			
• Enclosure Type 4x at the front	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes
Ambient conditions			
Suited for indoor use	Yes	Yes	Yes
Suited for outdoor use	No	No	No
Ambient temperature during operation			
- Operation (vertical installation)			
- For vertical installation, min.	0 °C; = Tmin	0 °C; = Tmin	0 °C; = Tmin
- For vertical installation, max.	50 °C; = Tmax	50 °C; = Tmax	50 °C; = Tmax
Altitude during operation relating to sea level			

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Technical specifications (continued)

Article number	6AG1128-3GB06-4AX1 SIPLUS HMI MTP700 Unified Comfort	6AG1128-3KB06-4AX1 SIPLUS HMI MTP1000 Unified Comfort	6AG1128-3MB06-4AX1 SIPLUS HMI MTP1200 Unified Comfort
• Installation altitude above sea level, max.	5 000 m	5 000 m	5 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity			
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning when condensation present), horizontal at vertical mounting position	100 %; RH incl. condensation/frost (no commissioning when condensation present), horizontal at vertical mounting position	100 %; RH incl. condensation/frost (no commissioning when condensation present), horizontal at vertical mounting position
Resistance			
- Coolants and lubricants			
- Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air
- Use in stationary industrial systems			
- to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *
- Use on ships/at sea			
- to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
- to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *
- Usage in industrial process technology			
- Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
- Remark			
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating			
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A
Configuration			
Configuration software			
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes
Languages			
Online languages			
• Number of online/runtime languages	32	32	32

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Technical specifications (continued)

Article number	6AG1128-3GB06-4AX1 SIPLUS HMI MTP700 Unified Comfort	6AG1128-3KB06-4AX1 SIPLUS HMI MTP1000 Unified Comfort	6AG1128-3MB06-4AX1 SIPLUS HMI MTP1200 Unified Comfort
Functionality under WinCC Unified			
Applications/options			
• Writer	Yes	Yes	Yes
• Calc	Yes		
• Web browser	Yes	Yes	Yes
• PDF Viewer	Yes		
• Media Player	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes
• SIMATIC WinCC Audit	No	Yes	No
• Unified Collaboration	Yes	Yes	Yes
Number of Visual Basic Scripts	No		
JavaScript	Yes	Yes	Yes
Task planner			
• time-controlled	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes
Message system			
• Bit messages			
- Number of bit messages	9 000	9 000	9 000
• Analog messages			
- Number of analog messages	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Parameter set management (recipes)			
• Number of parameter set types	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes
Variables			
• Number of variables per device	8 000	8 000	8 000
• Number of variables per screen	600	600	600
Images			
• Number of configurable images	1 200	1 200	1 200
Archiving			
• Number of archives per device	50	50	50
Security			
• Number of roles	50	50	50
• Number of users	200	200	200
• Central user administration	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17
Transfer (upload/download)			
• Ethernet	Yes	Yes	Yes
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	No	No	No
• S7-300/400	Yes	Yes	Yes
• Number of S7 connections	16	16	16
• LOGO!	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20
• SIMOTION	No	No	No
• OPC UA Client	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes
Peripherals/Options			
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AG1128-3GB06-4AX1 SIPLUS HMI MTP700 Unified Comfort	6AG1128-3KB06-4AX1 SIPLUS HMI MTP1000 Unified Comfort	6AG1128-3MB06-4AX1 SIPLUS HMI MTP1200 Unified Comfort
SIMATIC HMI MM memory card: Multi Media Card	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes
USB memory	Yes	Yes	Yes
Network camera	No	No	No
Mechanics/material			
Enclosure material (front)			
• Aluminum	Yes	Yes	Yes
Dimensions			
Width of the housing front	214 mm	280 mm	326 mm
Height of housing front	158 mm	205 mm	237 mm
Mounting cutout, width	198.3 mm	264.6 mm	310.6 mm
Mounting cutout, height	142 mm	189.1 mm	221.1 mm
mounting depth	63.6 mm	63.6 mm	64 mm
Weights			
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg

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Overview



SIMATIC HMI MTP2200 Unified Comfort Panel Hygienic, neutral design

SIMATIC HMI Unified Comfort Panels Hygienic - standard devices

SIMATIC HMI Unified Comfort Panels Hygienic comprise six different devices with different display sizes.
All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Comfort Panel Hygienic is available in a standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.
All Unified Comfort Panels Hygienic are supplied with integrated Edge functionality.
SIMATIC WinCC Unified includes visualization, communication, alarms/messages, report generation, parameter set management, archiving, and user administration.
Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included.
Additional clients can be enabled with a license. In total, up to three client licenses can be used.
Client access is based on native web technologies such as HTML5, SVG and JavaScript. The visualization can be accessed via any modern web browser – without the need for additional installation.
Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels Hygienic can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

Selection and ordering data

Unified Comfort Panels Hygienic	
SIMATIC HMI MTP700 Unified Comfort Hygienic Touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3GB40-0AX0**
SIMATIC HMI MTP1000 Unified Comfort Hygienic Touch operation, 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3KB40-0AX0**
SIMATIC HMI MTP1200 Unified Comfort Hygienic Touch operation, 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3MB40-0AX0**
SIMATIC HMI MTP1500 Unified Comfort Hygienic Touch operation, 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3QB40-0AX0**
SIMATIC HMI MTP1900 Unified Comfort Hygienic Touch operation, 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3UB40-0AX0**
SIMATIC HMI MTP2200 Unified Comfort Hygienic Touch operation, 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3XB40-0AX0**
SIMATIC HMI MTP700 Unified Comfort Hygienic Neutral Neutral, touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3GB70-0AX0**
SIMATIC HMI MTP1000 Unified Comfort Hygienic Neutral Neutral, touch operation, 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3KB70-0AX0**
SIMATIC HMI MTP1200 Unified Comfort Hygienic Neutral Neutral, touch operation, 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3MB70-0AX0**
SIMATIC HMI MTP1500 Unified Comfort Hygienic Neutral Neutral, touch operation, 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3QB70-0AX0**

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Selection and ordering data (continued)

SIMATIC HMI MTP1900 Unified Comfort Hygienic Neutral Neutral, touch operation, 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3UB70-0AX0**
SIMATIC HMI MTP2200 Unified Comfort Hygienic Neutral Neutral, touch operation, 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3XB70-0AX0**
MTP700 Hygienic Service Pack 7"	**6AV2185-4GA20-0AX0**
MTP1000 Hygienic Service Pack 10"	**6AV2185-4KA20-0AX0**
MTP1200 Hygienic Service Pack, IFP1200 Hygienic 12"	**6AV2185-4MA20-0AX0**
MTP1500 Hygienic Service Pack, IFP1500 Hygienic 15"	**6AV2185-4QA20-0AX0**
MTP1900 Hygienic Service Pack, IFP1900 Hygienic 19"	**6AV2185-4UA20-0AX0**
MTP2200 Hygienic Service Pack, IFP2200 Hygienic 22"	**6AV2185-4XA20-0AX0**

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Technical specifications

Article number	6AV2128-3GB40-0-AX0	6AV2128-3KB40-0-AX0	6AV2128-3MB40-0-AX0	6AV2128-3QB40-0-AX0	6AV2128-3UB40-0-AX0	6AV2128-3XB40-0-AX0
	SIMATIC HMI MTP700 Hygienic	SIMATIC HMI MTP1000 Hygienic	SIMATIC HMI MTP1200 Hygienic	SIMATIC HMI MTP1500 Hygienic	SIMATIC HMI MTP1900 Hygienic	SIMATIC HMI MTP2200 Hygienic
General information						
Product type designation	MTP700 Unified Comfort Hygienic	MTP1000 Unified Comfort	MTP1200 Unified Comfort Hygienic	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort Hygienic
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes		Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation

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Technical specifications (continued)

Article number	6AV2128-3GB40-0-AX0 SIMATIC HMI MTP700 Hygienic	6AV2128-3KB40-0-AX0 SIMATIC HMI MTP1000 Hygienic	6AV2128-3MB40-0-AX0 SIMATIC HMI MTP1200 Hygienic	6AV2128-3QB40-0-AX0 SIMATIC HMI MTP1500 Hygienic	6AV2128-3UB40-0-AX0 SIMATIC HMI MTP1900 Hygienic	6AV2128-3XB40-0-AX0 SIMATIC HMI MTP2200 Hygienic
• Enclosure Type 12 at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
Standards, approvals, certificates						
CE mark	Yes; CE marking / EC Declaration of Conformity	Yes; CE marking / EC Declaration of Conformity	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	No	No				
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB40-0-AX0 SIMATIC HMI MTP700 Hygienic	6AV2128-3KB40-0-AX0 SIMATIC HMI MTP1000 Hygienic	6AV2128-3MB40-0-AX0 SIMATIC HMI MTP1200 Hygienic	6AV2128-3QB40-0-AX0 SIMATIC HMI MTP1500 Hygienic	6AV2128-3UB40-0-AX0 SIMATIC HMI MTP1900 Hygienic	6AV2128-3XB40-0-AX0 SIMATIC HMI MTP2200 Hygienic
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes			Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	No	No	No	No	No	No
• Unified Collaboration	No	No	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte		12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						

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Technical specifications (continued)

Article number	6AV2128-3GB40-0-AX0	6AV2128-3KB40-0-AX0	6AV2128-3MB40-0-AX0	6AV2128-3QB40-0-AX0	6AV2128-3UB40-0-AX0	6AV2128-3XB40-0-AX0
	SIMATIC HMI MTP700 Hygienic	SIMATIC HMI MTP1000 Hygienic	SIMATIC HMI MTP1200 Hygienic	SIMATIC HMI MTP1500 Hygienic	SIMATIC HMI MTP1900 Hygienic	SIMATIC HMI MTP2200 Hygienic
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Accessories						
Further accessories are available	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon
Mechanics/material						
Enclosure material (front)						
• Plastic	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film
• Stainless steel	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	225.6 mm	292 mm	338 mm	412 mm	479 mm	556 mm
Height of housing front	169.6 mm	217 mm	249 mm	273 mm	309 mm	358 mm
Mounting cutout, width	198.3 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	142.1 mm	189 mm	221 mm	241 mm	278 mm	315 mm
mounting depth	66.3 mm	67 mm	64 mm	79 mm	79 mm	79 mm
Weights						
Weight (without packaging)	1.9 kg	2.65 kg	3.4 kg	5.4 kg	6.7 kg	8.15 kg

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
General information						
Product type designation	MTP700 Unified Comfort Hygienic	MTP1000 Unified Comfort	MTP1200 Unified Comfort Hygienic	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort Hygienic
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0 SIMATIC HMI MTP700 Hygienic Neutral	6AV2128-3KB70-0-AX0 SIMATIC HMI MTP1000 Hygienic Neutral	6AV2128-3MB70-0-AX0 SIMATIC HMI MTP1200 Hygienic Neutral	6AV2128-3QB70-0-AX0 SIMATIC HMI MTP1500 Hygienic Neutral	6AV2128-3UB70-0-AX0 SIMATIC HMI MTP1900 Hygienic Neutral	6AV2128-3XB70-0-AX0 SIMATIC HMI MTP2200 Hygienic Neutral
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes		Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.0	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
• Enclosure Type 12 at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
Standards, approvals, certificates						
CE mark	Yes; CE marking / EC Declaration of Conformity	Yes; CE marking / EC Declaration of Conformity	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	No	No				
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes			Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
• SIMATIC WinCC Audit	No	No	No	No	No	No
• Unified Collaboration	No	No	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte		12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	No	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Accessories						
Further accessories are available		No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon
Mechanics/material						
Enclosure material (front)						
• plastic	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film
• Stainless steel	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	225.6 mm	292 mm	338 mm	412 mm	479 mm	556 mm
Height of housing front	169.6 mm	217 mm	249 mm	273 mm	309 mm	358 mm
Mounting cutout, width	198.3 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	142.1 mm	189 mm	221 mm	241 mm	278 mm	315 mm
mounting depth	66.3 mm	67 mm	64 mm	79 mm	79 mm	79 mm
Weights						
Weight (without packaging)	1.9 kg	2.65 kg	3.4 kg	5.4 kg	6.7 kg	8.15 kg

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Overview



SIMATIC HMI Unified Comfort PRO: fully-enclosed IP65 degree of protection, ready-to-use, can be installed directly at the machine

SIMATIC HMI Unified Comfort Panels PRO in 12", 15", 19" and 22" widescreen formats expand the Unified Comfort Panel portfolio to include devices with fully-enclosed IP65 protection.
The rugged aluminum enclosure enables it to be used directly at the machine and guarantees durability, even in harsh and extreme operating environments.

Highlights:

- All-round IP65 degree of protection
- 100% Unified Comfort Panel functionality incl. Siemens Industrial Edge
- Identical display resolutions as the SIMATIC HMI Unified Comfort Panels
- Can be adapted to support arm system of various manufacturers
- Extension with hardware operator controls by means of Extension Units
- Fast integration capability
- Mechanical compatibility with SIMATIC HMI Comfort Panel PRO devices (support arm and Extension Unit connection)
- Devices can be ordered in Siemens and neutral design (without Siemens brand)

More information is available at this link

System components for fully-enclosed IP65-protected devices:

System components for PRO devices are only suitable for SIMATIC HMI/IPC PRO devices.

In combination with SIMATIC HMI PRO basic devices, these components enable flexible adaptation to individual customer requirements for operator control and monitoring at the machine level, as well as offering a versatile and attractive solution for cabinet-free visualization and automation.

The following system components are available:

Overview (continued)

- Fixing elements
  - Adapter sets
  - Basic adapter
  - Round tube adapter
- Extension Units 12" – 22" with operator controls
- Extension components
  - Stainless steel keyboard
  - Tool and keyboard tray

For more detailed information about system components refer to "PC-based Automation" -> "Industrial PC" -> "Devices for special requirements" -> "System components for fully-enclosed IP65-protected devices".

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Selection and ordering data

SIMATIC Unified Comfort Panel PRO	
MTP1200 Unified Comfort PRO	
12.1" TFT display, 1280 x 800 pixels, 16 million colors; multi-touch; 1 x RS422/485, 1 x PROFINET/Industrial Ethernet interface with MRP (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slot; 4 x USB;	
• For support arm (not extendable, flange on top)	**6AV2128-3MB27-0AX0**
• For support arm (not extendable, flange on top), neutral front	**6AV2128-3MB57-0AX0**
• For support arm (extendable, round tube)	**6AV2128-3MB27-0BX0**
• For support arm (extendable, round tube), neutral front	**6AV2128-3MB57-0BX0**
• For supporting foot (extendable, flange below)	**6AV2128-3MB27-1BX0**
• For supporting foot (extendable, flange below), neutral front	**6AV2128-3MB57-1BX0**
MTP1500 Unified Comfort PRO	
15.6" TFT display, 1366 x 768 pixels, 16 million colors; multi-touch; 1 x RS422/485, 1 x PROFINET/Industrial Ethernet interface with MRP (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slot; 4 x USB;	
• For support arm (not extendable, flange on top)	**6AV2128-3QB27-0AX0**
• For support arm (not extendable, flange on top), neutral front	**6AV2128-3QB57-0AX0**
• For support arm (extendable, round tube)	**6AV2128-3QB27-0BX0**
• For support arm (extendable, round tube), neutral front	**6AV2128-3QB57-0BX0**
• For supporting foot (extendable, flange below)	**6AV2128-3QB27-1BX0**
• For supporting foot (extendable, flange below), neutral front	**6AV2128-3QB57-1BX0**
MTP1900 Unified Comfort PRO	
18.5" TFT display, 1920 x 1080 pixels, 16 million colors; multi-touch; 1 x RS422/485, 1 x PROFINET/Industrial Ethernet interface with MRP (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slot; 4 x USB;	
• For support arm (not extendable, flange on top)	**6AV2128-3UB27-0AX0**
• For support arm (not extendable, flange on top), neutral front	**6AV2128-3UB57-0AX0**
• For support arm (extendable, round tube)	**6AV2128-3UB27-0BX0**
• For support arm (extendable, round tube), neutral front	**6AV2128-3UB57-0BX0**
• For supporting foot (extendable, flange below)	**6AV2128-3UB27-1BX0**
• For supporting foot (extendable, flange below), neutral front	**6AV2128-3UB57-1BX0**
MTP2200 Unified Comfort PRO	
21.5" TFT display, 1920 x 1080 pixels, 16 million colors; multi-touch; 1 x RS422/485, 1 x PROFINET/Industrial Ethernet interface with MRP (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slot; 4 x USB;	
• For support arm (not extendable, flange on top)	**6AV2128-3XB27-0AX0**
• For support arm (not extendable, flange on top), neutral front	**6AV2128-3XB57-0AX0**
• For support arm (extendable, round tube)	**6AV2128-3XB27-0BX0**
• For support arm (extendable, round tube), neutral front	**6AV2128-3XB57-0BX0**
• For supporting foot (extendable, flange below)	**6AV2128-3XB27-1BX0**

Selection and ordering data (continued)

• For supporting foot (extendable, flange below), neutral front	**6AV2128-3XB57-1BX0**

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Technical specifications

Article number	6AV2128-3MB27-0-AX0	6AV2128-3MB57-0-AX0	6AV2128-3MB27-0-BX0	6AV2128-3MB57-0-BX0	6AV2128-3MB27-1-BX0	6AV2128-3MB57-1-BX0
	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO
General information						
Product type designation	MTP1200 Unified Comfort PRO	MTP1200 Unified Comfort PRO Neutral Front	MTP1200 Unified Comfort PRO	MTP1200 Unified Comfort PRO Neutral Front	MTP1200 Unified Comfort PRO	MTP1200 Unified Comfort PRO Neutral Front
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	1 280 pixel	1 280 pixel	1 280 pixel	1 280 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	800 pixel	800 pixel	800 pixel	800 pixel	800 pixel	800 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting	Support arm	Support arm	Support arm	Support arm	Pedestal	Pedestal
Mounting in portrait format possible	No	No	No	No	No	No
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3MB27-0-AX0	6AV2128-3MB57-0-AX0	6AV2128-3MB27-0-BX0	6AV2128-3MB57-0-BX0	6AV2128-3MB27-1-BX0	6AV2128-3MB57-1-BX0
	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	No	No	No	No	No	No
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Basic Engineering (TIA Portal)	No	No	No	No	No	No
• WinCC Unified Comfort Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher
• WinCC Unified PC Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher

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Technical specifications (continued)

Article number	6AV2128-3MB27-0-AX0	6AV2128-3MB57-0-AX0	6AV2128-3MB27-0-BX0	6AV2128-3MB57-0-BX0	6AV2128-3MB27-1-BX0	6AV2128-3MB57-1-BX0
	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	600	600	600
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes	Yes	Yes	Yes	Yes	Yes
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3MB27-0-AX0	6AV2128-3MB57-0-AX0	6AV2128-3MB27-0-BX0	6AV2128-3MB57-0-BX0	6AV2128-3MB27-1-BX0	6AV2128-3MB57-1-BX0
	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO	SIMATIC HMI MTP1200 Unified Comfort PRO
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes	Yes
Mechanics/material						
Enclosure material (front)						
• plastic	No	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No	No
Dimensions						
Width of the housing front	313 mm	313 mm	313 mm	313 mm	313 mm	313 mm
Height of housing front	225 mm; Without basic adapter	225 mm; Without basic adapter	225 mm; Without basic adapter	225 mm; Without basic adapter	225 mm; Without basic adapter	225 mm; Without basic adapter
Weights						
Weight (without packaging)	5.1 kg	5.1 kg	5 kg	5 kg	5.1 kg	5.1 kg

Article number	6AV2128-3QB27-0-AX0	6AV2128-3QB57-0-AX0	6AV2128-3QB27-0-BX0	6AV2128-3QB57-0-BX0	6AV2128-3QB27-1-BX0	6AV2128-3QB57-1-BX0
	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO
General information						
Product type designation	MTP1500 Unified Comfort PRO	MTP1500 Unified Comfort PRO Neutral Front	MTP1500 Unified Comfort PRO	MTP1500 Unified Comfort PRO Neutral Front	MTP1500 Unified Comfort PRO	MTP1500 Unified Comfort PRO Neutral Front
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	15.6 in	15.6 in	15.6 in	15.6 in	15.6 in	15.6 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel
• Vertical image resolution	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting	Support arm	Support arm	Support arm	Support arm	Pedestal	Pedestal

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Technical specifications (continued)

Article number	6AV2128-3QB27-0-AX0	6AV2128-3QB57-0-AX0	6AV2128-3QB27-0-BX0	6AV2128-3QB57-0-BX0	6AV2128-3QB27-1-BX0	6AV2128-3QB57-1-BX0
	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO
Mounting in portrait format possible	No	No	No	No	No	No
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	No	No	No	No	No	No

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Technical specifications (continued)

Article number	6AV2128-3QB27-0-AX0	6AV2128-3QB57-0-AX0	6AV2128-3QB27-0-BX0	6AV2128-3QB57-0-BX0	6AV2128-3QB27-1-BX0	6AV2128-3QB57-1-BX0
	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Basic Engineering (TIA Portal)	No	No	No	No	No	No
• WinCC Unified Comfort Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher
• WinCC Unified PC Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						

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Technical specifications (continued)

Article number	6AV2128-3QB27-0-AX0	6AV2128-3QB57-0-AX0	6AV2128-3QB27-0-BX0	6AV2128-3QB57-0-BX0	6AV2128-3QB27-1-BX0	6AV2128-3QB57-1-BX0
	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	800	800	800	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes	Yes	Yes	Yes	Yes	Yes
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes	Yes
Mechanics/material						
Enclosure material (front)						

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Technical specifications (continued)

Article number	6AV2128-3QB27-0-AX0	6AV2128-3QB57-0-AX0	6AV2128-3QB27-0-BX0	6AV2128-3QB57-0-BX0	6AV2128-3QB27-1-BX0	6AV2128-3QB57-1-BX0
	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO	SIMATIC HMI MTP1500 Unified Comfort PRO
• Plastic	No	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No	No
Dimensions						
Width of the housing front	396 mm	396 mm	396 mm	396 mm	396 mm	396 mm
Height of housing front	255 mm; Without basic adapter	255 mm; Without basic adapter	255 mm; Without basic adapter	255 mm; Without basic adapter	255 mm; Without basic adapter	255 mm; Without basic adapter
Weights						
Weight (without packaging)	6.1 kg	6.1 kg	6 kg	6 kg	6.1 kg	6.1 kg

Article number	6AV2128-3UB27-0-AX0	6AV2128-3UB57-0-AX0	6AV2128-3UB27-0-BX0	6AV2128-3UB57-0-BX0	6AV2128-3UB27-1-BX0	6AV2128-3UB57-1-BX0
	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO
General information						
Product type designation	MTP1900 Unified Comfort PRO	MTP1900 Unified Comfort PRO Neutral Front	MTP1900 Unified Comfort PRO	MTP1900 Unified Comfort PRO Neutral Front	MTP1900 Unified Comfort PRO	MTP1900 Unified Comfort PRO Neutral Front
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	18.5 in	18.5 in	18.5 in	18.5 in	18.5 in	18.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting	Support arm	Support arm	Support arm	Support arm	Pedestal	Pedestal
Mounting in portrait format possible	No	No	No	No	No	No
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						

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Technical specifications (continued)

Article number	6AV2128-3UB27-0-AX0	6AV2128-3UB57-0-AX0	6AV2128-3UB27-0-BX0	6AV2128-3UB57-0-BX0	6AV2128-3UB27-1-BX0	6AV2128-3UB57-1-BX0
	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	No	No	No	No	No	No
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C

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Technical specifications (continued)

Article number	6AV2128-3UB27-0-AX0	6AV2128-3UB57-0-AX0	6AV2128-3UB27-0-BX0	6AV2128-3UB57-0-BX0	6AV2128-3UB27-1-BX0	6AV2128-3UB57-1-BX0
	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO
- For vertical installation, max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Basic Engineering (TIA Portal)	No	No	No	No	No	No
• WinCC Unified Comfort Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher
• WinCC Unified PC Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	800	800	800	800	800	800
Images						

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Technical specifications (continued)

Article number	6AV2128-3UB27-0-AX0	6AV2128-3UB57-0-AX0	6AV2128-3UB27-0-BX0	6AV2128-3UB57-0-BX0	6AV2128-3UB27-1-BX0	6AV2128-3UB57-1-BX0
	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO	SIMATIC HMI MTP1900 Unified Comfort PRO
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes	Yes	Yes	Yes	Yes	Yes
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes	Yes
Mechanics/material						
Enclosure material (front)						
• plastic	No	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No	No
Dimensions						
Width of the housing front	462 mm	462 mm	462 mm	462 mm	462 mm	462 mm
Height of housing front	292 mm; Without basic adapter	292 mm; Without basic adapter	292 mm; Without basic adapter	292 mm; Without basic adapter	292 mm; Without basic adapter	292 mm; Without basic adapter
Weights						
Weight (without packaging)	7.1 kg	7.1 kg	7 kg	7 kg	7.1 kg	7.1 kg

Article number	6AV2128-3XB27-0-AX0	6AV2128-3XB57-0-AX0	6AV2128-3XB27-0-BX0	6AV2128-3XB57-0-BX0	6AV2128-3XB27-1-BX0	6AV2128-3XB57-1-BX0
	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO
General information						
Product type designation	MTP2200 Unified Comfort PRO	MTP2200 Unified Comfort PRO Neutral Front	MTP2200 Unified Comfort PRO	MTP2200 Unified Comfort PRO Neutral Front	MTP2200 Unified Comfort PRO	MTP2200 Unified Comfort PRO Neutral Front
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	21.5 in	21.5 in	21.5 in	21.5 in	21.5 in	21.5 in

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Technical specifications (continued)

Article number	6AV2128-3XB27-0-AX0	6AV2128-3XB57-0-AX0	6AV2128-3XB27-0-BX0	6AV2128-3XB57-0-BX0	6AV2128-3XB27-1-BX0	6AV2128-3XB57-1-BX0
	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting	Support arm	Support arm	Support arm	Support arm	Pedestal	Pedestal
Mounting in portrait format possible	No	No	No	No	No	No
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3XB27-0-AX0	6AV2128-3XB57-0-AX0	6AV2128-3XB27-0-BX0	6AV2128-3XB57-0-BX0	6AV2128-3XB27-1-BX0	6AV2128-3XB57-1-BX0
	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO
FM approval	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	No	No	No	No	No	No
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Basic Engineering (TIA Portal)	No	No	No	No	No	No
• WinCC Unified Comfort Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher
• WinCC Unified PC Engineering (TIA Portal)	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher	Yes; V18 or higher
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3XB27-0-AX0	6AV2128-3XB57-0-AX0	6AV2128-3XB27-0-BX0	6AV2128-3XB57-0-BX0	6AV2128-3XB27-1-BX0	6AV2128-3XB57-1-BX0
	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	800	800	800	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes	Yes	Yes	Yes	Yes	Yes
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3XB27-0-AX0	6AV2128-3XB57-0-AX0	6AV2128-3XB27-0-BX0	6AV2128-3XB57-0-BX0	6AV2128-3XB27-1-BX0	6AV2128-3XB57-1-BX0
	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO	SIMATIC HMI MTP2200 Unified Comfort PRO
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes	Yes
Mechanics/material						
Enclosure material (front)						
• plastic	No	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No	No
Dimensions						
Width of the housing front	527 mm	527 mm	527 mm	527 mm	527 mm	527 mm
Height of housing front	329 mm; Without basic adapter	329 mm; Without basic adapter	329 mm; Without basic adapter	329 mm; Without basic adapter	329 mm; Without basic adapter	329 mm; Without basic adapter
Weights						
Weight (without packaging)	8.5 kg	8.5 kg	8.4 kg	8.4 kg	8.5 kg	8.5 kg

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Overview

SIMATIC WinCC Unified options

Option	Unified Basic Panel	Unified Comfort Panel	Unified PC	Version-independent	Upgrade license
Logging Tags	✓	✓	✓	Yes	
Parameter Control	✓	✓	✓	No	Included in the upgrade of the basic system
Client Operate	Not expandable (1 client already available)	✓	✓	Yes	
Client Monitor		✓	✓	Yes	
Control Function Library	✓	✓	✓	Yes	
ProDiag		✓	✓	No	Included in the upgrade of the basic system
Report Execution		✓	✓	No	Included in the upgrade of the basic system
Collaboration		✓	✓	No	Included in the upgrade of the basic system
Audit		✓	✓	No	
MTP Integrator		✓	✓	Yes	
Database Storage			✓	No	Can be ordered separately
Connectivity GraphQL			✓	No	Included in the upgrade of the basic system
Data Hub Client			✓	Yes	
Redundancy			✓	No	Included in the upgrade of the basic system

Information about WinCC Unified Data Hub, WinCC Unified SIQENCE, and WinCC Unified Runtime for Industrial Edge can be found in the respective chapters.

WinCC Unified Audit

Contains the functionality to trace all operator actions related to value changes on tags.
Other entries in the Audit Trail can be made by system and script functions.

Licensing:

One RT license is required for each RT station (Panel or PC) to be monitored. The WinCC Unified Report license is required for automatic creation of reports.

SIMATIC Unified Basic Panels:

- The Unified Audit option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use Unified Audit on an HMI Unified Comfort Panel, you need a WinCC Unified Audit license.

SIMATIC WinCC Unified PC:

- To use Unified Audit on a WinCC Unified PC RT, you need a WinCC Unified Audit license.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Audit can be configured in trial mode without a valid license.

WinCC Unified Clients

The WinCC Unified Client is the graphical user interface for interacting with the WinCC Unified Runtime.

For operator control and monitoring of machines and plants, the WinCC Unified Client accesses the WinCC Unified Runtime via web mechanisms (on the runtime station itself or via a network). WinCC Unified images can be displayed on any PC or mobile device in HTML 5-enabled browsers.
No additional know-how of the web is necessary for engineering of the WinCC Unified Screens in the TIA Portal.
A distinction is made between WinCC Unified Client Operate and WinCC Unified Client Monitor:

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Overview (continued)

- WinCC Unified Client Operate: For operator control and monitoring of the WinCC Unified Runtime (Panel or PC).
- WinCC Unified Client Monitor: For monitoring the WinCC Unified Runtime (Panel or PC) only. Screen navigation is supported, the connection from the PLC for tags is cut. Defined functions, such as acknowledgment in alarm and tag logging control, are also blocked.

WinCC Unified Logging

Option for WinCC Unified for archiving of process values, messages and Audit Trails. Process value archiving for the recording, compression and storage of measured values and alarm logging to record events. Online evaluation of process value archives and alarm logs with display and possible operations, for example representation of trends and display of tables, as well as further processing. Powerful standard functions permit user-friendly and flexible utilization of the logs.

Licensing:

SIMATIC HMI Unified Basic Panels:

- Messages can be logged without an additional license.
- Up to 50 process values (tags) can be archived (file-based) without an additional license.

SIMATIC HMI Unified Comfort Panels:

- Messages can be logged without an additional license.
- Up to 5000 process values (tags) can be archived (file-based) without an additional license.

WinCC Unified PC:

- Messages can be logged without an additional license.
- The archiving of process values (tags) must be licensed depending on the required number of logging tags.
- Archiving is either file-based (default) or database-based (option: WinCC Unified Database Storage).
- This number can be increased via additive WinCC Unified Logging Tags licenses (countable licenses). These are available in increments of 100, 500, 1,000, 5,000, 10,000, and 30,000 logging tags.
- When using file-based archiving (default), a maximum of 5,000 logging tags are possible. With WinCC Unified Database Storage, the number of logging tags is only limited by the performance of the PC system used.

Upgrade

- The WinCC Unified Logging license is version-independent. No upgrade license is required

Trial

- Archive tags can be configured in trial mode without a valid license.

WinCC Unified Database Storage

For WinCC Unified PC RT systems, database-based archiving for process values, messages, and Audit Trail can be selected for large quantity structures or long archiving periods. All archive data is stored in an SQL server after installing the option and the license.

Licensing:

WinCC Unified PC

- A license is required for each WinCC Unified PC Runtime on which database-based archiving is used
- The archived data is licensed via WinCC Unified Logging.
- The number can be increased at any time using additional WinCC Unified Logging Tags (100, 500, 1,000, 5,000, 10,000, and 30,000) (countable licenses). With WinCC Unified Database Storage, the number of logging tags is only limited by the performance of the PC system used.

Upgrade:

- When upgrading to a new WinCC Unified version, an additional upgrade license is required.

Trial

- No trial mode is available for database-based archiving.

WinCC Unified Data Hub Client

All process information from the connected Data Hub Clients is archived centrally on the WinCC Unified Data Hub Server. Each Data Hub Client requires a license corresponding to the type or amount of process information stored in the central archive on the WinCC Unified Data Hub Server.

HMI Unified Basic Panel:

- The WinCC Unified Data Hub Client option is not supported.

HMI Unified Comfort Panel:

- The WinCC Unified Data Hub Client option is not supported.
- The license for Unified Data Hub Client is version-independent and does not require an upgrade to a new version
- To use Unified Data Hub Client on a WinCC Unified PC RT, you need a "WinCC Unified Data Hub Client" license

Upgrade

- The "WinCC Unified Data Hub Server" license package is version-dependent and requires the corresponding upgrade license for upgrading.
- The WinCC Unified Data Hub Client license is version-independent. No upgrade license is required

Trial

- If you do not have a valid license, you can configure WinCC Unified Data Hub Server in trial mode.

WinCC Unified Parameter Control

Option for SIMATIC WinCC Unified for the generation and management of parameter sets which contain associated machine or production data. The structure of a user data type (PLC UDT or HMI UDT) can be adopted for one or more parameter set types and can be changed automatically using a new user data type version.

Licensing:

SIMATIC Unified Basic Panels:

- Parameter Control is included in the scope of supply. No license is required

SIMATIC HMI Unified Comfort Panels:

- Parameter Control is included in the scope of supply. No license is required

SIMATIC WinCC Unified PC:

- You require a WinCC Unified Parameter Control (PC) license for the Parameter Control option on a runtime PC.

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Overview (continued)

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Parameter Control can be configured in trial mode without a valid license.

WinCC Unified Report Execution

The scope of supply of WinCC Unified includes an Excel add-in that enables a connection between runtime data and Excel report templates. This runtime data includes, among other things:

- Tags
- Logging Tags
- Alarms
- Shift calendar
- Context Value Lists
- Performance Insight
- Line Coordination

The report templates are imported into WinCC Unified Runtime at runtime – without the engineering system – and linked to execution parameters. Reports can then be generated automatically on a cyclical, demand-driven or event-driven basis and saved in Excel and/or PDF format or sent by email.

Licensing:

- No license is required for the creation of reports in Excel and manual execution of the reports in Excel or from the Report Runtime Control.
- A WinCC Unified Report Execution license (Panel or PC) is required for automated (cyclical, demand or event-driven) report generation.

SIMATIC Unified Basic Panels:

- Reporting is not supported.

SIMATIC HMI Unified Comfort Panels:

- For automatic execution of reports (time, event), you need a "WinCC Unified Report Execution" license on an HMI Unified Comfort Panel.

SIMATIC WinCC Unified PC:

- For automatic execution of reports (time, event), you need a "WinCC Unified Report Execution" license on a WinCC Unified PC.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Report Control can be configured in trial mode without a valid license.

WinCC Unified Connectivity

WinCC Unified Connectivity GraphQL Logged Data

Requirement

HMI Unified Basic Panel:

Requirement HMI Unified Basic Panel:

- The WinCC Unified Connectivity GraphQL Logged Data option is not supported.

HMI Unified Comfort Panel:

- The WinCC Unified Connectivity GraphQL Logged Data option is not supported.

WinCC Unified PC:

- For configuring, you need a WinCC Unified Basic PC ES (Engineering System) license.
- For use in runtime, you need a WinCC Unified PC RT (runtime) license.

Licensing

To access archived data on a WinCC Unified PC RT via the GraphQL interface, you need a "WinCC Unified Connectivity GraphQL Logged Data" license.

Upgrade

- The license is version-dependent and requires the corresponding upgrade license for upgrading.
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- If you do not have a valid license, you can use the GraphQL interface in trial mode.

WinCC Unified Collaboration

Each WinCC Unified Station (Panel or PC) to be connected via Collaboration requires a corresponding license.
The scope and type of exchanged data is not limited. The configuration of Collaboration in the engineering system does not require additional licensing.

Licensing:

SIMATIC HMI Unified Basic Panels:

- The WinCC Unified Unified Collaboration option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use WinCC Unified Collaboration on an HMI Unified Comfort Panel, you need a WinCC Unified Collaboration license for each device involved.

SIMATIC WinCC Unified PC:

- To use Unified Collaboration on a WinCC Unified PC RT, you need a WinCC Unified Collaboration license for each device involved.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Collaboration can be configured in trial mode without a valid license.

WinCC Unified ProDiag

SIMATIC ProDiag is the fully-integrated TIA solution for machine and plant diagnostics. It saves the need for programming diagnostics in the CPU during the engineering phase and provides support for troubleshooting on the HMI.

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Overview (continued)

Licensing:

- The runtime license for controllers includes 250 supervisions or an unlimited number of supervisions per CPU. From FW 2.0 onwards, the software can run on S7-1500/ET 200SP CPUs regardless of the TIA Portal version.
- For the visualization of the messages, the controls are licensed according to the HMI runtime platforms.

SIMATIC HMI Unified Basic Panels:

- The ProDiag option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use ProDiag on an HMI Unified Comfort Panel, you need a WinCC Unified ProDiag license.

SIMATIC WinCC Unified PC:

- To use ProDiag on a WinCC Unified PC RT, you need a WinCC Unified ProDiag license.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified ProDiag can be configured in trial mode without a valid license.

WinCC Unified Redundancy

The WinCC Unified Redundancy option enables the creation of a highly available HMI/SCADA system through the parallel operation of two identically configured runtime systems (primary and secondary systems). In the event of a fault, the standby system automatically takes over control to minimize downtime.
For redundant operation with WinCC Unified, both systems (primary and secondary) must have identical licenses. This applies not only to the redundancy option itself, but also to all other required software functions.

Licensing:

SIMATIC HMI Unified Basic Panels:

- The Unified Redundancy option is not supported.

SIMATIC HMI Unified Comfort Panels:

- The Unified Redundancy option is not supported.

SIMATIC WinCC Unified PC:

- To use Unified Redundancy on a WinCC Unified PC RT, you need a "WinCC Unified Redundancy" license for each device involved.

Upgrade

- The license is version-dependent
- The upgrade license for a WinCC Unified PC RT station is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Redundancy can be configured in trial mode without a valid license.

Plant Intelligence options

WinCC Unified Calendar

WinCC Unified Calendar serves user groups which have structured a plant via a plant hierarchy and want to define recurring events within this hierarchy.

Licensing:

SIMATIC Unified Basic Panels:

- The Unified Calendar option is not supported.

SIMATIC HMI Unified Comfort Panels:

- The Unified Calendar option is not supported.

SIMATIC WinCC Unified PC:

- To use Unified Calendar on a WinCC Unified PC RT, you need a "WinCC Unified Calendar Base" license
- Per additional basic calendar, you require a "WinCC Unified Calendar Extension (1)" license. The license is version-dependent and cumulative

Upgrade

- When upgrading to a new WinCC Unified version, an additional "WinCC Unified Calendar Base" upgrade license is required.

Trial

- WinCC Unified Calendar can be configured in trial mode without a valid license.

WinCC Unified Performance Insight

All user groups benefit from WinCC Unified Performance Insight, from the application engineer all the way to management-level evaluators.
The engineer can use the application environment integrated in WinCC Unified to derive individual formulas for calculating performance indicators.

Licensing:

SIMATIC Unified Basic Panels:

- The Unified Performance option is not supported.

SIMATIC HMI Unified Comfort Panels:

- The Unified Performance option is not supported.

SIMATIC WinCC Unified PC:

- To use Unified Performance Insight on a WinCC Unified PC RT, you need a "WinCC Unified Performance Insight Base" license
- You need one "WinCC Unified Performance Insight Extension" license for each additional plant object. The license is version-dependent and cumulative.
- WinCC Unified Performance Insight Extension: license packages in stages of 10, 30, 100 and 300

Upgrade

- When upgrading to a new WinCC Unified version, an additional "WinCC Unified Performance Insight Base" upgrade license is required.

Trial

- WinCC Unified Performance can be configured in trial mode without a valid license.

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Overview



SIMATIC HMI Comfort Panels - Standard devices

- Excellent HMI functionality for demanding applications
- Widescreen TFT displays with 4", 7", 9", 12", 15", 19" and 22" diagonals (all 16 million colors) with up to 40% more visualization area as compared to the predecessor devices
- Integrated high-end functionality with archives, scripts, PDF/Word/Excel viewer, Internet Explorer, Media Player and Web Server
- Dimmable displays from 0 to 100% via PROFIenergy, via the HMI project or via a controller
- Modern industrial design, cast aluminum fronts for 7" upwards
- Upright installation for all touch devices
- Data security in the event of a power failure for the device and for the SIMATIC HMI Memory Card
- Innovative service and commissioning concept
- Maximum performance with short screen refresh times
- Suitable for extremely harsh industrial environments thanks to extended approvals such as ATEX 2/22 and marine approvals
- All versions can be used as an OPC UA client or as a server
- Key-operated devices with LED in every function key and new text input mechanism, similar to the keypads of mobile phones
- All keys have a service life of 2 million operations
- Configuring with the WinCC engineering software of the TIA Portal engineering framework

Note:
A 7" and a 15" Comfort Outdoor version are available. These devices have been specially designed for outdoor applications in difficult environments. Best display quality, even under sunlight, UV-resistant fronts and much more.
More information is available at this link

Selection and ordering data

SIMATIC HMI Comfort Panels	
Touch devices	
SIMATIC HMI TP700 Comfort Touch operation; 7" widescreen display	**6AV2124-0GC01-0AX0**
SIMATIC HMI TP900 Comfort Touch operation; 9" widescreen display	**6AV2124-0JC01-0AX0**
SIMATIC HMI TP1200 Comfort Touch operation; 12" widescreen display	**6AV2124-0MC01-0AX0**
SIMATIC HMI TP1500 Comfort Touch operation; 15" widescreen display; Ambient temperature up to 50 °C (up to 55 °C with restriction)	**6AV2124-0QC02-0AX1**
SIMATIC HMI TP1500 Comfort Touch operation; 15" widescreen display; Ambient temperature up to 45 °C	**6AV2124-0QC02-0AX2**
SIMATIC HMI TP1900 Comfort Touch operation; 19" widescreen display	**6AV2124-0UC02-0AX1**
SIMATIC HMI TP2200 Comfort Touch operation; 22" widescreen display	**6AV2124-0XC02-0AX1**
Key devices	
SIMATIC HMI KP700 Comfort Key operation; 7" widescreen display	**6AV2124-1GC01-0AX0**
SIMATIC HMI KP900 Comfort Key operation; 9" widescreen display	**6AV2124-1JC01-0AX0**
SIMATIC HMI KP1200 Comfort Key operation; 12" widescreen display	**6AV2124-1MC01-0AX0**
SIMATIC HMI KP1500 Comfort Key operation; 15" widescreen display; Ambient temperature up to 50 °C (up to 55 °C with restriction)	**6AV2124-1QC02-0AX1**
SIMATIC HMI KP1500 Comfort Key operation; 15" widescreen display; Ambient temperature up to 45 °C	**6AV2124-1QC02-0AX2**
Accessories	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Technical specifications

Article number	6AV2124-1GC01-0AX0	6AV2124-1JC01-0AX0	6AV2124-1MC01-0AX-0	6AV2124-1QC02-0AX1	6AV2124-1QC02-0AX2
	SIMATIC HMI KP700 Comfort	SIMATIC HMI KP900 Comfort	SIMATIC HMI KP1200 Comfort	SIMATIC HMI KP1500 Comfort	SIMATIC HMI KP1500 Comfort
General information					
Product type designation	KP700 Comfort	KP900 Comfort	KP1200 Comfort	KP1500 Comfort	KP1500 Comfort
Display					
Design of display	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	9 in	12.1 in	15.4 in	15.4 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)					
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel	800 pixel	800 pixel
Backlighting					
• MTBF backlighting (at 25 °C)	80 000 h	80 000 h	80 000 h	80 000 h	80 000 h
Control elements					
Keyboard					
• Function keys					
- Number of function keys	24	26	34	36	36
Touch operation					
• Design as touch screen	No; without	No; without	No; without	No; without	No
Installation type/mounting					
Wall mounting/direct mounting	No	No	No		
Mounting in portrait format possible	No	No	No	No	No
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Storage					
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte	24 Mbyte	24 Mbyte
Type of output					
Acoustics					
• Speaker	Yes	Yes	Yes	Yes	Yes
Time of day					
Clock					
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes
Interfaces					
Number of industrial Ethernet interfaces	1; 2 ports (switch)	1; 2 ports (switch)	1; 2 ports (switch)	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole	1; 5-pole	1; 5-pole		
Number of SD card slots	2	2	2	2	2
Industrial Ethernet					
• Number of ports of the integrated switch	2	2	2	2	2
Protocols					
PROFINET	Yes	Yes	Yes	Yes	Yes
IRT	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes	Yes; WinCC V14 SP1 HSP or higher
PROFIBUS	Yes	Yes	Yes	Yes	Yes
MPI	Yes	Yes	Yes	Yes	Yes
Redundancy mode					
- Media redundancy					
- MRP	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes	Yes
Degree and class of protection					
IP (at the front)	IP65	IP65	IP65	IP65	IP65

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Technical specifications (continued)

Article number	6AV2124-1GC01-0AX0	6AV2124-1JC01-0AX0	6AV2124-1MC01-0AX-0	6AV2124-1QC02-0AX1	6AV2124-1QC02-0AX2
	SIMATIC HMI KP700 Comfort	SIMATIC HMI KP900 Comfort	SIMATIC HMI KP1200 Comfort	SIMATIC HMI KP1500 Comfort	SIMATIC HMI KP1500 Comfort
IP (rear)	IP20	IP20	IP20	IP20	IP20
NEMA (front)					
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)				Yes	Yes
Use in hazardous areas					
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes; for inscription on device rating plate	Yes
• cULus Class II Division 2				No; in preparation	No
• FM Class I Division 2	Yes	Yes	Yes	Yes; for inscription on device rating plate	Yes
• FM Class II Division 2				No; in preparation	No
Ambient conditions					
Suited for indoor use				Yes	Yes
Suited for outdoor use				No	No
Relative humidity					
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages					
Online languages					
• Number of online/runtime languages	32	32	32	32	32
Functionality under WinCC (TIA Portal)					
Applications/options					
• Web browser	Yes	Yes	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes	Yes
Task planner					
• time-controlled	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes
Message system					
• Bit messages	Yes	Yes	Yes		
- Number of bit messages	4 000	4 000	4 000	6 000	6 000
• Analog messages	Yes	Yes	Yes		
- Number of analog messages	200	200	200	200	200
• Message buffer					
- Number of entries	1 024	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes
Recipe management					
• Number of recipes	300	300	300	500	500
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte	4 Mbyte	4 Mbyte

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Technical specifications (continued)

Article number	6AV2124-1GC01-0AX0	6AV2124-1JC01-0AX0	6AV2124-1MC01-0AX-0	6AV2124-1QC02-0AX1	6AV2124-1QC02-0AX2
	SIMATIC HMI KP700 Comfort	SIMATIC HMI KP900 Comfort	SIMATIC HMI KP1200 Comfort	SIMATIC HMI KP1500 Comfort	SIMATIC HMI KP1500 Comfort
• Recipe memory expandable	Yes	Yes	Yes	Yes	Yes
Variables					
• Number of variables per device	2 048	2 048	2 048	4 096	4 096
• Number of variables per screen	400	400	400	400	400
Images					
• Number of configurable images	500	500	500	750	750
Archiving					
• Number of archives per device	50	50	50	50	50
Security					
• Number of user groups	50	50	50	50	50
• Number of users	50	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes	Yes
Logging through printer					
• Alarms	Yes	Yes	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)					
• MPI/PROFIBUS DP	Yes	Yes	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes	Yes	Yes
Process coupling					
• S7-1200	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes
Peripherals/Options					
Printer	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes
Mechanics/material					
Enclosure material (front)					
• plastic	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No
Dimensions					
Width of the housing front	308 mm	361.2 mm	454 mm	483 mm	483 mm
Height of housing front	204 mm	230 mm	289 mm	310 mm	310 mm

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Technical specifications (continued)

Article number	6AV2124-1GC01-0AX0	6AV2124-1JC01-0AX0	6AV2124-1MC01-0AX-0	6AV2124-1QC02-0AX1	6AV2124-1QC02-0AX2
	SIMATIC HMI KP700 Comfort	SIMATIC HMI KP900 Comfort	SIMATIC HMI KP1200 Comfort	SIMATIC HMI KP1500 Comfort	SIMATIC HMI KP1500 Comfort
Mounting cutout, width	282 mm	338 mm	434 mm	450 mm	450 mm
Mounting cutout, height	178 mm	206 mm	269 mm	291 mm	291 mm
mounting depth	63 mm	63 mm	64.6 mm	73.2 mm	73.2 mm
Weights					
Weight (without packaging)	2.2 kg	2.7 kg	4.4 kg	4.7 kg	4.7 kg

Article number	6AV2124-0GC01--0AX0	6AV2124-0JC01--0AX0	6AV2124-0MC0-1-0AX0	6AV2124-0QC02--0AX1	6AV2124-0QC02--0AX2	6AV2124-0UC02--0AX1	6AV2124-0XC02--0AX1
	SIMATIC HMI TP700 Comfort	SIMATIC HMI TP900 Comfort	SIMATIC HMI TP1200 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1900 Comfort	SIMATIC HMI TP2200 Comfort
General information							
Product type designation	TP700 Comfort	TP900 Comfort	TP1200 Comfort	TP1500 Comfort	TP1500 Comfort	TP1900 Comfort	TP2200 Comfort
Display							
Design of display	TFT	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	9 in	12.1 in	15.4 in	15.4 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)							
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel
Backlighting							
• MTBF backlighting (at 25 °C)	80 000 h	80 000 h	80 000 h	80 000 h	80 000 h	50 000 h	30 000 h
Control elements							
Keyboard							
• Function keys							
- Number of function keys	0	0	0	0	0	0	0
Touch operation							
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes	Yes; Analog-resistive	Yes; Analog-resistive
Installation type/mounting							
Wall mounting/direct mounting	No	No	No				
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage							
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Storage							
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte	24 Mbyte	24 Mbyte	24 Mbyte	24 Mbyte
Type of output							
Acoustics							
• Speaker	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time of day							
Clock							
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces							
Number of industrial Ethernet interfaces	1; 2 ports (switch)	1; 2 ports (switch)	1; 2 ports (switch)	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole	1; 5-pole	1; 5-pole				
Number of SD card slots	2	2	2	2	2	2	2
Industrial Ethernet							
• Number of ports of the integrated switch	2	2	2	2	2	2	2
Protocols							
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IRT	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes	Yes; WinCC V14 SP1 HSP or higher	Yes	Yes

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Technical specifications (continued)

Article number	6AV2124-0GC01--0AX0	6AV2124-0JC01--0AX0	6AV2124-0MC0-1-0AX0	6AV2124-0QC02--0AX1	6AV2124-0QC02--0AX2	6AV2124-0UC02--0AX1	6AV2124-0XC02--0AX1
	SIMATIC HMI TP700 Comfort	SIMATIC HMI TP900 Comfort	SIMATIC HMI TP1200 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1900 Comfort	SIMATIC HMI TP2200 Comfort
PROFIBUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode							
- Media redundancy							
- MRP	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes	Yes	Yes	Yes
Degree and class of protection							
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)							
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates							
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FM approval					Yes		
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)				Yes	Yes	Yes	Yes
Use in hazardous areas							
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes; for inscription on device rating plate	Yes	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• cULus Class II Division 2				No; in preparation	No	No; in preparation	No; in preparation
• FM Class I Division 2	Yes	Yes	Yes	Yes; for inscription on device rating plate	Yes	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• FM Class II Division 2				No; in preparation	No	No; in preparation	No; in preparation
Ambient conditions							
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No	No
Relative humidity							
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages							
Online languages							
• Number of online/runtime languages	32	32	32	32	32	32	32
Functionality under WinCC (TIA Portal)							
Applications/options							
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Task planner							
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Message system							
• Bit messages	Yes	Yes	Yes				
- Number of bit messages	4 000	4 000	4 000	6 000	6 000	6 000	6 000
• Analog messages	Yes	Yes	Yes				

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Technical specifications (continued)

Article number	6AV2124-0GC01--0AX0	6AV2124-0JC01--0AX0	6AV2124-0MC0-1-0AX0	6AV2124-0QC02--0AX1	6AV2124-0QC02--0AX2	6AV2124-0UC02--0AX1	6AV2124-0XC02--0AX1
	SIMATIC HMI TP700 Comfort	SIMATIC HMI TP900 Comfort	SIMATIC HMI TP1200 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1900 Comfort	SIMATIC HMI TP2200 Comfort
- Number of analog messages	200	200	200	200	200	200	200
• Message buffer							
- Number of entries	1 024	1 024	1 024	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recipe management							
• Number of recipes	300	300	300	500	500	500	500
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte	4 Mbyte	4 Mbyte	4 Mbyte	4 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Variables							
• Number of variables per device	2 048	2 048	2 048	4 096	4 096	4 096	4 096
• Number of variables per screen	400	400	400	400	400	400	400
Images							
• Number of configurable images	500	500	500	750	750	750	750
Archiving							
• Number of archives per device	50	50	50	50	50	50	50
Security							
• Number of user groups	50	50	50	50	50	50	50
• Number of users	50	50	50	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Logging through printer							
• Alarms	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)							
• MPI/PROFIBUS DP	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling							
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No	No	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options							
Printer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2124-0GC01--0AX0	6AV2124-0JC01--0AX0	6AV2124-0MC0-1-0AX0	6AV2124-0QC02--0AX1	6AV2124-0QC02--0AX2	6AV2124-0UC02--0AX1	6AV2124-0XC02--0AX1
	SIMATIC HMI TP700 Comfort	SIMATIC HMI TP900 Comfort	SIMATIC HMI TP1200 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1500 Comfort	SIMATIC HMI TP1900 Comfort	SIMATIC HMI TP2200 Comfort
Mechanics/material							
Enclosure material (front)							
• plastic	No	No	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No	No	No
Dimensions							
Width of the housing front	214 mm	274 mm	330 mm	415 mm	415 mm	483 mm	560 mm
Height of housing front	158 mm	190 mm	241 mm	310 mm	310 mm	337 mm	380 mm
Mounting cutout, width	198 mm	251 mm	310 mm	396 mm	396 mm	465 mm	542 mm
Mounting cutout, height	142 mm	166 mm	221 mm	291 mm	291 mm	319 mm	362 mm
mounting depth	63 mm	62.7 mm	64 mm	73.2 mm	73.2 mm	73.2 mm	73.2 mm
Weights							
Weight (without packaging)	1.4 kg	1.9 kg	2.8 kg	4.4 kg	4.4 kg	5.6 kg	6.7 kg

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Overview



- Excellent HMI functionality for demanding applications
- Widescreen TFT displays with 4", 7", 9", 12", 15", 19" and 22" diagonals (all 16 million colors) with up to 40% more visualization area as compared to the predecessor devices
- Integrated high-end functionality with archives, scripts, PDF/Word/Excel viewer, Internet Explorer, Media Player
- Dimmable displays from 0 to 100% via PROFIenergy, via the HMI project or via a controller
- Modern industrial design, cast aluminum fronts for 7" upwards
- Upright installation for all touch devices
- Optimal selection option: seven touch and five key versions are available
- Data security in the event of a power failure for the device and for the SIMATIC HMI Memory Card
- Innovative service and commissioning concept through second SD card (automatic backup)
- Easy project transfer via standard cable (standard Ethernet cable, standard USB cable)
- Maximum performance with short screen refresh times
- Suitable for extremely harsh industrial environments thanks to extended approvals such as ATEX 2/22
- Wide range of communication options: PROFIBUS and PROFINET onboard; 2x PROFINET with integrated switch for 7" models or larger; plus 1 additional PROFINET with Gigabit support for 15" models or larger
- All variants can be used as an OPC UA client or as an OPC DA server
- Key-operated devices with LED in every function key and new text input mechanism, similar to the keypads of mobile phones
- Key-operated devices with stamped keys for optimum tactile feedback
- All keys have a service life of 2 million operations
- Configuring with the WinCC engineering software of the TIA Portal

Note:

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the corresponding standard products. SIPLUS extreme-specific information was added.

Selection and ordering data

SIPLUS HMI Comfort Panels, Touch	
SIPLUS HMI TP700 Comfort	6AG1124-0GC01-4AX0
SIPLUS HMI TP900 Comfort	6AG1124-0JC01-4AX0
SIPLUS HMI TP1200 Comfort	6AG1124-0MC01-4AX0
SIPLUS HMI TP1500 Comfort	6AG1124-0QC02-4AX1
SIPLUS HMI TP1900 Comfort	6AG1124-0UC02-4AX1
SIPLUS HMI TP2200 Comfort	6AG1124-0XC02-4AX1
SIPLUS HMI Comfort Panels, Keys	
SIPLUS HMI KP700 Comfort	6AG1124-1GC01-4AX0
SIPLUS HMI KP900 Comfort	6AG1124-1JC01-4AX0
SIPLUS HMI KP1200 Comfort	6AG1124-1MC01-4AX0
SIPLUS HMI KP1500 Comfort	6AG1124-1QC02-4AX1
Accessories	See HMI accessories

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Technical specifications

Article number	6AG1124-1GC01-4AX0 SIPLUS HMI KP700 COMFORT	6AG1124-1JC01-4AX0 SIPLUS HMI KP900 COMFORT	6AG1124-1MC01-4AX0 SIPLUS HMI KP1200 COMFORT	6AG1124-1QC02-4AX1 SIPLUS HMI KP1500 Comfort
General information				
Product type designation	KP700 Comfort	KP900 Comfort	KP1200 Comfort	KP1500 Comfort
Display				
Design of display	TFT	TFT	TFT	TFT
Screen diagonal	7 in	9 in	12.1 in	15.4 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)				
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel	800 pixel
Backlighting				
• MTBF backlighting (at 25 °C)	80 000 h	80 000 h	80 000 h	80 000 h
Control elements				
Keyboard				
• Function keys				
- Number of function keys	24	26	34	36
Touch operation				
• Design as touch screen	No; without	No; without	No; without	No; without
Installation type/mounting				
Wall mounting/direct mounting	No	No	No	
Mounting in portrait format possible	No	No	No	No
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Storage				
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte	24 Mbyte
Type of output				
Acoustics				
• Speaker	Yes	Yes	Yes	Yes
Time of day				
Clock				
• Hardware clock (real-time)	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes
Interfaces				
Number of industrial Ethernet interfaces	1; 2 ports (switch)	1; 2 ports (switch)	1; 2 ports (switch)	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole	1; 5-pole	1; 5-pole	
Number of SD card slots	2	2	2	2
Industrial Ethernet				
• Number of ports of the integrated switch	2	2	2	2
Protocols				
PROFINET	Yes	Yes	Yes	Yes
IRT	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes
PROFIBUS	Yes	Yes	Yes	Yes
MPI	Yes	Yes	Yes	Yes
Redundancy mode				
- Media redundancy				
- MRP	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AG1124-1GC01-4AX0 SIPLUS HMI KP700 COMFORT	6AG1124-1JC01-4AX0 SIPLUS HMI KP900 COMFORT	6AG1124-1MC01-4AX0 SIPLUS HMI KP1200 COMFORT	6AG1124-1QC02-4AX1 SIPLUS HMI KP1500 Comfort
Ambient conditions				
Suited for indoor use				Yes
Suited for outdoor use				No
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	5 000 m	5 000 m	5 000 m	5 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity				
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance				
- Coolants and lubricants				
- Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air
- Use in stationary industrial systems				
- to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *
- Use on ships/at sea				
- to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
- to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *
- Usage in industrial process technology				
- Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
- Remark				
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating				
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection

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Technical specifications (continued)

Article number	6AG1124-1GC01-4AX0 SIPLUS HMI KP700 COMFORT	6AG1124-1JC01-4AX0 SIPLUS HMI KP900 COMFORT	6AG1124-1MC01-4AX0 SIPLUS HMI KP1200 COMFORT	6AG1124-1QC02-4AX1 SIPLUS HMI KP1500 Comfort
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A
Languages				
Online languages				
• Number of online/runtime languages	32	32	32	32
Functionality under WinCC (TIA Portal)				
Applications/options				
• Web browser	Yes	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes
Task planner				
• time-controlled	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes
Message system				
• Bit messages	Yes		Yes	
- Number of bit messages	4 000	4 000	4 000	6 000
• Analog messages	Yes		Yes	
- Number of analog messages	200	200	200	200
• Message buffer				
- Number of entries	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes
Recipe management				
• Number of recipes	300	300	300	500
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte	4 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes
Variables				
• Number of variables per device	2 048	2 048	2 048	4 096
• Number of variables per screen	400	400	400	400
Images				
• Number of configurable images	500	500	500	750
Archiving				
• Number of archives per device	50	50	50	50
Security				
• Number of user groups	50	50	50	50
• Number of users	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes
Logging through printer				
• Alarms	Yes	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)				
• MPI/PROFIBUS DP	Yes	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes	Yes
Process coupling				

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Technical specifications (continued)

Article number	6AG1124-1GC01-4AX0 SIPLUS HMI KP700 COMFORT	6AG1124-1JC01-4AX0 SIPLUS HMI KP900 COMFORT	6AG1124-1MC01-4AX0 SIPLUS HMI KP1200 COMFORT	6AG1124-1QC02-4AX1 SIPLUS HMI KP1500 Comfort
• S7-1200	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes
Peripherals/Options				
Printer	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes
Mechanics/material				
Enclosure material (front)				
• plastic	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No
Dimensions				
Width of the housing front	308 mm	361.2 mm	454 mm	483 mm
Height of housing front	204 mm	230 mm	289 mm	310 mm
Mounting cutout, width	282 mm	338 mm	434 mm	450 mm
Mounting cutout, height	178 mm	206 mm	269 mm	291 mm
mounting depth	63 mm	63 mm	64.6 mm	75 mm
Weights				
Weight (without packaging)	2.2 kg	2.7 kg	4.4 kg	4.7 kg

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Overview



SIMATIC HMI Comfort Panels Outdoor

Special HMI Panels have been developed which are designed to withstand outdoor environments.

It's not only extreme temperatures which call for robust hardware. Direct sunlight, too, must not be allowed to impair display readability and the panel front must be protected from UV radiation. The specially-bonded Outdoor fronts and the rugged hardware of the Outdoor Panels make the SIMATIC HMI Comfort Panels Outdoor a reliable partner in this environment.

- For outdoor operation without additional measures
- 7" and 15" daylight-readable display, widescreen
- Automatic, central or manual dimming of the backlight, with integrated sensor
- Panel front 100% UV protected
- Front resistant to salt mist
- Front IP66 and Nema4 x (indoor/outdoor)
- Numerous explosion protection and shipbuilding certifications
- Extended operating temperature range: from -30 °C to +60 °C at 3 000 m installation altitude
- TIA Portal central engineering tool (WinCC V13 SP1&HSP or higher)
- Comfort Panel functionality and performance

Notice:

The 7" Comfort Panel Outdoor corresponds to a 7" Comfort Panel Standard, the 15" Comfort Panel Outdoor corresponds to a 12" Comfort Panel Standard in respect of performance, functionality and quantity structure.

More information is available at this link

Selection and ordering data

SIMATIC HMI Comfort Panels Outdoor	
SIMATIC TP700 Comfort Panel Outdoor Touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable as from WinCC Comfort V13, SP1, HSP	**6AV2124-0GC13-0AX0**
SIMATIC TP1500 Comfort Panel Outdoor Touch operation, 15" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable as from WinCC Comfort V13, SP1, HSP	**6AV2124-0QC13-0AX0**
Accessories	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Technical specifications

Article number	6AV2124-0GC13-0AX0 SIMATIC HMI TP700 Comfort Outdoor	6AV2124-0QC13-0AX0 SIMATIC HMI TP1500 Comfort Outdoor
General information		
Product type designation	TP700 Comfort Outdoor	TP1500 Comfort Outdoor
Display		
Design of display	TFT, bonded, daylight-readable	TFT, bonded, daylight-readable
Screen diagonal	7 in	15.4 in
Number of colors	16 777 216	16 777 216
Resolution (pixels)		
• Horizontal image resolution	800 pixel	1 280 pixel
• Vertical image resolution	480 pixel	800 pixel
Backlighting		
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h
Control elements		
Keyboard		
• Function keys		
- Number of function keys	0	0
Touch operation		
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive
Installation type/mounting		
Mounting in portrait format possible	Yes	Yes
Supply voltage		
Rated value (DC)	24 V	24 V
Storage		
Memory available for user data	12 Mbyte	12 Mbyte
Type of output		
Acoustics		
• Speaker	Yes	Yes
Time of day		
Clock		
• Hardware clock (real-time)	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes
Interfaces		
Number of industrial Ethernet interfaces	2	2
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole	1; 5-pole
Number of SD card slots	2	2
Industrial Ethernet		
• Number of ports of the integrated switch	2	2
Protocols		
PROFINET	Yes	Yes
IRT	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher
PROFIBUS	Yes	Yes
MPI	Yes	Yes
Redundancy mode		
- Media redundancy		
- MRP	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher
Degree and class of protection		
IP (at the front)	IP66	IP66
IP (rear)	IP20	IP20
NEMA (front)		
• Enclosure Type 4x at the front	Yes	Yes
Standards, approvals, certificates		
CE mark	Yes	Yes
cULus	Yes	Yes

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Technical specifications (continued)

Article number	6AV2124-0GC13-0AX0 SIMATIC HMI TP700 Comfort Outdoor	6AV2124-0QC13-0AX0 SIMATIC HMI TP1500 Comfort Outdoor
RCM (formerly C-TICK)	Yes	Yes
KC approval	Yes	Yes
Use in hazardous areas		
• ATEX Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• ATEX Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• FM Class I Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant
Altitude during operation relating to sea level		
• Installation altitude above sea level, max.	3 000 m; Depending on the operating temperature	3 000 m; Depending on the operating temperature
Relative humidity		
• Operation, max.	90 %; no condensation	90 %; no condensation
Languages		
Online languages		
• Number of online/runtime languages	32	32
Functionality under WinCC (TIA Portal)		
Applications/options		
• Web browser	Yes	Yes
• Pocket Word	Yes	Yes
• Pocket Excel	Yes	Yes
• PDF Viewer	Yes	Yes
• Media Player	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes
Task planner		
• time-controlled	Yes	Yes
• task-controlled	Yes	Yes
Message system		
• Bit messages		
- Number of bit messages	4 000	4 000
• Analog messages		
- Number of analog messages	200	200
• Message buffer		
- Number of entries	1 024	1 024
- Circulating buffer	Yes	Yes
- retentive	Yes	Yes
Recipe management		
• Number of recipes	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes
Variables		
• Number of variables per device	2 048	2 048
• Number of variables per screen	400	400
Images		
• Number of configurable images	500	500
Archiving		
• Number of archives per device	50	50
Security		

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Technical specifications (continued)

Article number	6AV2124-0GC13-0AX0 SIMATIC HMI TP700 Comfort Outdoor	6AV2124-0QC13-0AX0 SIMATIC HMI TP1500 Comfort Outdoor
• Number of user groups	50	50
• Number of users	50	50
• SIMATIC Logon	Yes	Yes
Logging through printer		
• Alarms	Yes	Yes
• Report (shift log)	Yes	Yes
• Hardcopy	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)		
• MPI/PROFIBUS DP	Yes	Yes
• Ethernet	Yes	Yes
Process coupling		
• S7-1200	Yes	Yes
• S7-1500	Yes	Yes
• S7-200	Yes	Yes
• S7-300/400	Yes	Yes
• LOGO!	Yes	Yes
• WinAC	Yes	Yes
• SIMOTION	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes
• Mitsubishi (FX)	Yes	Yes
• OMRON (FINS TCP)	No	No
• OMRON (Host Link)	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes
• OPC UA Client	Yes	Yes
• OPC UA Server	Yes	Yes
Peripherals/Options		
Printer	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes
USB memory	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171
Network camera	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473
Accessories		
extension module	Optional e.g. USB RFID reader, see FAQ entry ID: 99808171	Optional e.g. USB RFID reader, see FAQ entry ID: 99808171
Further accessories are available	Yes; Mounting clips and 2-pin power supply connector	Yes; Mounting clips and 2-pin power supply connector
Mechanics/material		
Enclosure material (front)		
• Plastic	No	No
• Aluminum	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant
• Stainless steel	No	No
Dimensions		
Width of the housing front	214 mm	415 mm
Height of housing front	158 mm	310 mm
Mounting cutout, width	198 mm	396 mm
Mounting cutout, height	142 mm	291 mm
mounting depth	64.6 mm	73.2 mm
Weights		
Weight (without packaging)	1.5 kg	4 kg

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Technical specifications (continued)

Article number	6AV2124-0GC13-0AX0 SIMATIC HMI TP700 Comfort Outdoor	6AV2124-0QC13-0AX0 SIMATIC HMI TP1500 Comfort Outdoor
Other		
Note:	Power, quantity structure and performance correspond to a standard 7" Comfort Panel	Power, quantity structure and performance correspond to a standard 12" Comfort Panel

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Overview



SIPLUS HMI Comfort Panels Outdoor

Special HMI Panels have been developed which are designed to withstand outdoor environments.

It's not only extreme temperatures which call for robust hardware. Direct sunlight, too, must not be allowed to impair display readability and the panel front must be protected from UV radiation. The specially-bonded Outdoor fronts and the rugged hardware of the Outdoor Panels make the SIMATIC HMI Comfort Panels Outdoor a reliable partner in this environment.

- For outdoor operation without additional measures
- 7" and 15" daylight-readable display, widescreen
- Automatic, central or manual dimming of the backlight, with integrated sensor
- Panel front 100% UV protected
- Front resistant to salt mist
- Front IP66 and Nema4 x (indoor/outdoor)
- Many explosion protection and shipbuilding certifications
- Extended operating temperature range: from -30 °C to +60 °C at 3 000 m installation altitude
- TIA Portal central engineering tool (WinCC V13 SP1&HSP or higher)
- Comfort Panel functionality and performance

Notice:

The SIPLUS HMI 7" Comfort Panel Outdoor corresponds to a SIPLUS HMI 7" Comfort Panel Standard, the SIPLUS HMI 15" Comfort Panel Outdoor corresponds to a SIPLUS HMI 12" Comfort Panel Standard in respect of performance, functionality and quantity structure.

Note:

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the corresponding standard products. SIPLUS extreme-specific information was added.

Selection and ordering data

SIPLUS HMI Comfort Outdoor Panels	
SIPLUS HMI TP700 Comfort Panel Outdoor For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -30 ... +60 °C Touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable as from WinCC Comfort V13, SP1, HSP	**6AG1124-0GC13-2AX0**
SIPLUS HMI TP700 Comfort Outdoor M Conformity with the MIL-STD-461G standard: MIL-STD-461G RE102 and MIL-STD-461G RE103.	**6AG1124-0GC13-2AM0**
SIPLUS HMI TP1500 Comfort Panel Outdoor For areas with extreme exposure to environmental substances (conformal coating); ambient temperature -30 ... +60 °C Touch operation, 15" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable as from WinCC Comfort V13, SP1, HSP	**6AG1124-0QC13-2AX0**
SIPLUS HMI TP1500 Comfort Outdoor M Conformity with the MIL-STD-461G standard: MIL-STD-461G RE102 and MIL-STD-461G RE103.	**6AG1124-0QC13-2AM0**
Accessories	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Technical specifications

Article number	6AG1124-0GC13-2AX0 SIPLUS HMI TP700 COMFORT OUTDOOR	6AG1124-0GC13-2AM0 SIPLUS HMI TP700 COMFORT OUTDOOR M	6AG1124-0QC13-2AX0 SIPLUS HMI TP1500 Comfort Outdoor	6AG1124-0QC13-2AM0 SIPLUS HMI TP1500 COMFORT OUTDOOR M
General information				
Product type designation	TP700 Comfort Outdoor	TP700 Comfort Outdoor	TP1500 Comfort Outdoor	TP1500 Comfort Outdoor
Display				
Design of display	TFT	TFT, bonded, daylight-readable	TFT, bonded, daylight-readable	TFT, bonded, daylight-readable
Screen diagonal	7 in	7 in	15.4 in	15.4 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)				
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel	800 pixel
Backlighting				
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h
Control elements				
Keyboard				
• Function keys				
- Number of function keys	0	0	0	0
Touch operation				
• Design as touch screen	Yes; Analog-resistive	Yes; analog, resistive	Yes; Analog-resistive	Yes; analog, resistive
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Storage				
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
Type of output				
Acoustics				
• Speaker	Yes	Yes	Yes	Yes
Time of day				
Clock				
• Hardware clock (real-time)	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes
Interfaces				
Number of industrial Ethernet interfaces	2	2	2	2
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole	1; 5-pole	1; 5-pole	1; 5-pole
Number of SD card slots	2	2	2	2
Industrial Ethernet				
• Number of ports of the integrated switch	2	2	2	2
Protocols				
PROFINET	Yes	Yes	Yes	Yes
IRT	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher
PROFIBUS	Yes	Yes	Yes	Yes
MPI	Yes	Yes	Yes	Yes
Redundancy mode				
- Media redundancy				
- MRP	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher	Yes; WinCC V13 SP1 HSP or higher
Degree and class of protection				
IP (at the front)	IP66	IP66	IP66	IP66
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AG1124-0GC13-2AX0 SIPLUS HMI TP700 COMFORT OUTDOOR	6AG1124-0GC13-2AM0 SIPLUS HMI TP700 COMFORT OUTDOOR M	6AG1124-0QC13-2AX0 SIPLUS HMI TP1500 Comfort Outdoor	6AG1124-0QC13-2AM0 SIPLUS HMI TP1500 COMFORT OUTDOOR M
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	5 000 m	5 000 m	5 000 m	5 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity				
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position
Resistance				
- Coolants and lubricants				
- Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air
- Use in stationary industrial systems				
- to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *
- Use on ships/at sea				
- to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
- to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *
- Usage in industrial process technology				
- Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
- Remark				
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating				
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability

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Technical specifications (continued)

Article number	6AG1124-0GC13-2AX0 SIPLUS HMI TP700 COMFORT OUTDOOR	6AG1124-0GC13-2AM0 SIPLUS HMI TP700 COMFORT OUTDOOR M	6AG1124-0QC13-2AX0 SIPLUS HMI TP1500 Comfort Outdoor	6AG1124-0QC13-2AM0 SIPLUS HMI TP1500 COMFORT OUTDOOR M
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A
Languages				
Online languages				
• Number of online/runtime languages	32	32	32	32
Functionality under WinCC (TIA Portal)				
Applications/options				
• Web browser	Yes	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes
Task planner				
• time-controlled	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes
Message system				
• Bit messages				
- Number of bit messages	4 000	4 000	4 000	4 000
• Analog messages				
- Number of analog messages	200	200	200	200
• Message buffer				
- Number of entries	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes
Recipe management				
• Number of recipes	300	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes
Variables				
• Number of variables per device	2 048	2 048	2 048	2 048
• Number of variables per screen	400	400	400	400
Images				
• Number of configurable images	500	500	500	500
Archiving				
• Number of archives per device	50	50	50	50
Security				
• Number of user groups	50	50	50	50
• Number of users	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes
Logging through printer				
• Alarms	Yes	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)				
• MPI/PROFIBUS DP	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AG1124-0GC13-2AX0 SIPLUS HMI TP700 COMFORT OUTDOOR	6AG1124-0GC13-2AM0 SIPLUS HMI TP700 COMFORT OUTDOOR M	6AG1124-0QC13-2AX0 SIPLUS HMI TP1500 Comfort Outdoor	6AG1124-0QC13-2AM0 SIPLUS HMI TP1500 COMFORT OUTDOOR M
• Ethernet	Yes	Yes	Yes	Yes
Process coupling				
• S7-1200	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes
Peripherals/Options				
Printer	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes	Yes	Yes	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes
USB memory	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171
Network camera	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473
Accessories				
extension module		Optional e.g. USB RFID reader, see FAQ entry ID: 99808171	Optional e.g. USB RFID reader, see FAQ entry ID: 99808171	Optional e.g. USB RFID reader, see FAQ entry ID: 99808171
Further accessories are available		Yes; Mounting clips and 2-pin power supply connector	Yes; Mounting clips and 2-pin power supply connector	Yes; Mounting clips and 2-pin power supply connector
Mechanics/material				
Enclosure material (front)				
• plastic	No	No	No	No
• Aluminum	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant	Yes; Powder-coated, UV resistant
• Stainless steel	No	No	No	No
Dimensions				
Width of the housing front	214 mm	214 mm	415 mm	415 mm
Height of housing front	158 mm	158 mm	310 mm	310 mm
Mounting cutout, width	198 mm	198 mm	396 mm	396 mm
Mounting cutout, height	142 mm	142 mm	291 mm	291 mm
mounting depth	64.6 mm	64.6 mm	73.2 mm	73.2 mm
Weights				
Weight (without packaging)	1.5 kg	1.5 kg	4 kg	4 kg
Other				
Note:	Power, quantity structure and performance correspond to a standard 7" Comfort Panel	Power, quantity structure and performance correspond to a standard 7" Comfort Panel	Power, quantity structure and performance correspond to a standard 12" Comfort Panel	Power, quantity structure and performance correspond to a standard 12" Comfort Panel

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Overview



SIMATIC HMI Comfort PRO: The new Comfort Panel PRO with fully-enclosed IP65 degree of protection – powerful, ready-to-use, and can be installed directly at the machine

SIMATIC HMI Comfort Panels PRO with 12", 15", 19" and 22" widescreen format expand the Comfort Panel portfolio to include devices with glass fronts.

The rugged aluminum casing enables it to be used directly at the machine and guarantees durability, even in harsh and extreme operating environments.

Highlights:

- All-round IP65 degree of protection
- Comfort Panel functionality and performance
- Rugged, industrial 12", 15", 19" and 22" widescreen displays
- Slim, modern design
- Can be adapted to support arm system of various manufacturers
- Integration of operator controls with Extension Units
- High degree of investment security
- Fast integration capability

12", 15", 19" and 22" SIMATIC HMI Comfort Panels PRO are available in three different versions, depending on the application:

- For support arm (extendable, round tube): mounting by means of standard 48 mm round tube or Siemens round tube adapter
- For support arm (not extendable, flange on top): mounting by means of basic adapter and flange on top, included in scope of delivery
- For pedestal (extendable, flange below): mounting by means of basic adapter and flange below, included in scope of delivery

More information is available at this link

System components for fully-enclosed IP65-protected devices

System components for PRO devices are only suitable for SIMATIC HMI/IPC PRO devices.

In combination with SIMATIC HMI PRO basic devices, these components enable easy adaptation to individual customer requirements for operator control and monitoring at the machine level, as well as offering a versatile and attractive solution for cabinet-free visualization and automation.

The following system components are available:

Overview (continued)

- Fixing elements
  - Adapter sets
  - Basic adapter
  - Round tube adapter
- Extension Units 12" - 22" with operator controls
- Extension components
  - Stainless steel keyboard
  - Tool and keyboard tray

For more detailed information about system components refer to "PC-based Automation" -> "Industry PC" -> "Devices for special requirements" -> "PROtected devices and system components".

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Selection and ordering data

Comfort Panels PRO	
TP1200 Comfort PRO	
12.1" TFT display, 1 280 x 800 pixels, 16 million colors; touch screen; 1 x MPI/PROFIBUS DP, 1 x PROFINET/Industrial Ethernet interface with MRP and RT/IRT support (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slots; 2 x USB	
• For support arm (not extendable, flange on top)	**6AV2124-0MC24-0AX0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0MC24-0BX0**
• For pedestal (extendable, flange below)	**6AV2124-0MC24-1AX0**
Neutral design	
• For support arm (not extendable, flange on top)	**6AV2124-0MC24-0AB0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0MC24-0BB0**
• For pedestal (extendable, flange below)	**6AV2124-0MC24-1AB0**
TP1500 Comfort PRO	
15.6" TFT display, 1 366 x 768 pixels, 16 million colors; touch screen; 1 x MPI/PROFIBUS DP, 1 x PROFINET/Industrial Ethernet Interface with MRP and RT/IRT support (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slots; 2 x USB	
• For support arm (not extendable, flange on top)	**6AV2124-0QC24-0AX0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0QC24-0BX0**
• For pedestal (extendable, flange below)	**6AV2124-0QC24-1AX0**
Neutral design	
• For support arm (not extendable, flange on top)	**6AV2124-0QC24-0AB0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0QC24-0BB0**
• For pedestal (extendable, flange below)	**6AV2124-0QC24-1AB0**
TP1900 Comfort PRO	
18.5" TFT display, 1 366 x 768 pixels, 16 million colors; touch screen; 1 x MPI/PROFIBUS DP, 1 x PROFINET/Industrial Ethernet Interface with MRP and RT/IRT support (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slots; 2 x USB	
• For support arm (not extendable, flange on top)	**6AV2124-0UC24-0AX0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0UC24-0BX0**
• For pedestal (extendable, flange below)	**6AV2124-0UC24-1AX0**
Neutral design	
• For support arm (not extendable, flange on top)	**6AV2124-0UC24-0AB0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0UC24-0BB0**
• For pedestal (extendable, flange below)	**6AV2124-0UC24-1AB0**
TP2200 Comfort PRO	
21.5" TFT display, 1 920 x 1 080 pixels, 16 million colors; touch screen; 1 x MPI/PROFIBUS DP, 1 x PROFINET/Industrial Ethernet Interface with MRP and RT/IRT support (2 ports); 1 x Ethernet (Gigabit); 2 x SD card slots; 2 x USB	
• For support arm (not extendable, flange on top)	**6AV2124-0XC24-0AX0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0XC24-0BX0**
• For pedestal (extendable, flange below)	**6AV2124-0XC24-1AX0**
Neutral design	
• For support arm (not extendable, flange on top)	**6AV2124-0XC24-0AB0**
• For support arm (extendable, round tube) and Extension Unit:	**6AV2124-0XC24-0BB0**
• For pedestal (extendable, flange below)	**6AV2124-0XC24-1AB0**

Selection and ordering data (continued)

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Technical specifications

Article number	6AV2124-0MC24-0-AX0	6AV2124-0MC24-1-AX0	6AV2124-0MC24-0-BX0	6AV2124-0MC24-0-AB0	6AV2124-0MC24-0-BB0	6AV2124-0MC24-1-AB0
	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral
General information						
Product type designation	TP1200 Comfort PRO	TP1200 Comfort PRO	TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	1 280 pixel	1 280 pixel	1 280 pixel	1 280 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	800 pixel	800 pixel	800 pixel	800 pixel	800 pixel	800 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	80 000 h	80 000 h	80 000 h	80 000 h	80 000 h	80 000 h
Control elements						
Keyboard						
• Function keys						
- Number of function keys	0	0	0			
Touch operation						
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting						
Mounting	Support arm	Pedestal	Support arm	Support arm	Support arm	Pedestal
Mounting in portrait format possible	No	No	No	No	No	No
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Storage						
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
Type of output						
Acoustics						
• Speaker	Yes	Yes	Yes	Yes	Yes	Yes
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
IRT	Yes	Yes	Yes	Yes	Yes	Yes
PROFIBUS	Yes	Yes	Yes	Yes	Yes	Yes
MPI	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2124-0MC24-0-AX0	6AV2124-0MC24-1-AX0	6AV2124-0MC24-0-BX0	6AV2124-0MC24-0-AB0	6AV2124-0MC24-0-BB0	6AV2124-0MC24-1-AB0
	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC (TIA Portal)						
Applications/options						
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	4 000	4 000	4 000	4 000	4 000	4 000
• Analog messages						
- Number of analog messages	200	200	200	200	200	200
• Message buffer						
- Number of entries	1 024	1 024	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Recipe management						
• Number of recipes	300	300	300	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	2 048	2 048	2 048	2 048	2 048	2 048
• Number of variables per screen	400	400	400	400	400	400

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Technical specifications (continued)

Article number	6AV2124-0MC24-0-AX0	6AV2124-0MC24-1-AX0	6AV2124-0MC24-0-BX0	6AV2124-0MC24-0-AB0	6AV2124-0MC24-0-BB0	6AV2124-0MC24-1-AB0
	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral
Images						
• Number of configurable images	500	500	500	500	500	500
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of user groups	50	50	50	50	50	50
• Number of users	50	50	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes	Yes	Yes
Logging through printer						
• Alarms	Yes	Yes	Yes	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)						
• MPI/PROFIBUS DP	Yes	Yes	Yes	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes	Yes
Mechanics/material						
Enclosure material (front)						
• plastic	No	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No	No
Dimensions						
Width of the housing front	313 mm	313 mm	313 mm	313 mm	313 mm	313 mm
Height of housing front	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter

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Technical specifications (continued)

Article number	6AV2124-0MC24-0-AX0	6AV2124-0MC24-1-AX0	6AV2124-0MC24-0-BX0	6AV2124-0MC24-0-AB0	6AV2124-0MC24-0-BB0	6AV2124-0MC24-1-AB0
	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral	SIMATIC HMI TP1200 Comfort PRO neutral
Weights						
Weight (without packaging)	4.9 kg	4.9 kg	4.5 kg	4.9 kg	4.5 kg	4.9 kg

Article number	6AV2124-0QC24-0-AX0	6AV2124-0QC24-0-BX0	6AV2124-0QC24-1-AX0	6AV2124-0QC24-0-AB0	6AV2124-0QC24-0-BB0	6AV2124-0QC24-1-AB0
	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral
General information						
Product type designation	TP1500 Comfort PRO	TP1500 Comfort PRO	TP1500 Comfort PRO	TP1500 Comfort PRO	TP1500 Comfort PRO	TP1500 Comfort PRO
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	15.6 in	15.6 in	15.6 in	15.6 in	15.6 in	15.6 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel
• Vertical image resolution	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h
Control elements						
Keyboard						
• Function keys						
- Number of function keys	0	0	0		0	0
Touch operation						
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting						
Mounting	Support arm	Support arm	Pedestal	Support arm	Support arm	Pedestal
Mounting in portrait format possible	No	No	No	No	No	No
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Storage						
Memory available for user data	24 Mbyte	24 Mbyte	24 Mbyte	24 Mbyte	24 Mbyte	24 Mbyte
Type of output						
Acoustics						
• Speaker	Yes	Yes	Yes	Yes	Yes	Yes
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2

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Technical specifications (continued)

Article number	6AV2124-0QC24-0-AX0	6AV2124-0QC24-0-BX0	6AV2124-0QC24-1-AX0	6AV2124-0QC24-0-AB0	6AV2124-0QC24-0-BB0	6AV2124-0QC24-1-AB0
	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
IRT	Yes	Yes	Yes	Yes	Yes	Yes
PROFIBUS	Yes	Yes	Yes	Yes	Yes	Yes
MPI	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC (TIA Portal)						
Applications/options						
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	6 000	6 000	6 000	6 000	6 000	6 000
• Analog messages						
- Number of analog messages	200	200	200	200	200	200
• Message buffer						
- Number of entries	1 024	1 024	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Recipe management						

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Technical specifications (continued)

Article number	6AV2124-0QC24-0-AX0	6AV2124-0QC24-0-BX0	6AV2124-0QC24-1-AX0	6AV2124-0QC24-0-AB0	6AV2124-0QC24-0-BB0	6AV2124-0QC24-1-AB0
	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral
• Number of recipes	500	500	500	500	500	500
• Size of internal recipe memory	4 Mbyte	4 Mbyte	4 Mbyte	4 Mbyte	4 Mbyte	4 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	4 096	4 096	4 096	4 096	4 096	4 096
• Number of variables per screen	400	400	400	400	400	400
Images						
• Number of configurable images	750	750	750	750	750	750
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of user groups	50	50	50	50	50	50
• Number of users	50	50	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes	Yes	Yes
Logging through printer						
• Alarms	Yes	Yes	Yes	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)						
• MPI/PROFIBUS DP	Yes	Yes	Yes	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes	Yes	Yes
Mechanics/material						
Enclosure material (front)						

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Technical specifications (continued)

Article number	6AV2124-0QC24-0-AX0	6AV2124-0QC24-0-BX0	6AV2124-0QC24-1-AX0	6AV2124-0QC24-0-AB0	6AV2124-0QC24-0-BB0	6AV2124-0QC24-1-AB0
	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral	SIMATIC HMI TP1500 Comfort PRO neutral
• plastic	No	No	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No	No	No
Dimensions						
Width of the housing front	396 mm	396 mm	396 mm	396 mm	396 mm	396 mm
Height of housing front	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter	225.5 mm; Without basic adapter
Weights						
Weight (without packaging)	6.3 kg	6.3 kg	6.3 kg	6.3 kg	6.3 kg	6.3 kg

Article number	6AV2124-0XC24-0AX0	6AV2124-0XC24-0AB0	6AV2124-0XC24-0BB0	6AV2124-0XC24-1AB0
	SIMATIC HMI TP2200 Comfort PRO	SIMATIC HMI TP2200 Comfort PRO neutral	SIMATIC HMI TP2200 Comfort PRO neutral	SIMATIC HMI TP2200 Comfort PRO neutral
General information				
Product type designation	TP2200 Comfort PRO	TP2200 Comfort PRO	TP2200 Comfort PRO	TP2200 Comfort PRO
Display				
Design of display	TFT	TFT	TFT	TFT
Screen diagonal	21.5 in	21.5 in	21.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)				
• Horizontal image resolution	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel
Backlighting				
• MTBF backlighting (at 25 °C)	30 000 h	30 000 h	30 000 h	30 000 h
Control elements				
Keyboard				
• Function keys				
- Number of function keys	0	0	0	0
Touch operation				
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting				
Mounting	Support arm	Support arm	Support arm	Pedestal
Mounting in portrait format possible	No	No	No	No
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Storage				
Memory available for user data	24 Mbyte	24 Mbyte	24 Mbyte	24 Mbyte
Type of output				
Acoustics				
• Speaker	Yes	Yes	Yes	Yes
Time of day				
Clock				
• Hardware clock (real-time)	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes
Interfaces				
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
Number of SD card slots	2	2	2	2
Industrial Ethernet				
• Number of ports of the integrated switch	2	2	2	2

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Technical specifications (continued)

Article number	6AV2124-0XC24-0AX0	6AV2124-0XC24-0AB0	6AV2124-0XC24-0BB0	6AV2124-0XC24-1AB0
	SIMATIC HMI TP2200 Comfort PRO	SIMATIC HMI TP2200 Comfort PRO neutral	SIMATIC HMI TP2200 Comfort PRO neutral	SIMATIC HMI TP2200 Comfort PRO neutral
Protocols				
PROFINET	Yes	Yes	Yes	Yes
IRT	Yes	Yes	Yes	Yes
PROFIBUS	Yes	Yes	Yes	Yes
MPI	Yes	Yes	Yes	Yes
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages				
Online languages				
• Number of online/runtime languages	32	32	32	32
Functionality under WinCC (TIA Portal)				
Applications/options				
• Web browser	Yes	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes
Task planner				
• time-controlled	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes
Message system				
• Bit messages				
- Number of bit messages	6 000	6 000	6 000	6 000
• Analog messages				
- Number of analog messages	200	200	200	200
• Message buffer				
- Number of entries	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes
Recipe management				
• Number of recipes	500	500	500	500
• Size of internal recipe memory	4 Mbyte	4 Mbyte	4 Mbyte	4 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes
Variables				
• Number of variables per device	4 096	4 096	4 096	4 096

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Technical specifications (continued)

Article number	6AV2124-0XC24-0AX0 SIMATIC HMI TP2200 Comfort PRO	6AV2124-0XC24-0AB0 SIMATIC HMI TP2200 Comfort PRO neutral	6AV2124-0XC24-0BB0 SIMATIC HMI TP2200 Comfort PRO neutral	6AV2124-0XC24-1AB0 SIMATIC HMI TP2200 Comfort PRO neutral
• Number of variables per screen	400	400	400	400
Images				
• Number of configurable images	750	750	750	750
Archiving				
• Number of archives per device	50	50	50	50
Security				
• Number of user groups	50	50	50	50
• Number of users	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes
Logging through printer				
• Alarms	Yes	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)				
• MPI/PROFIBUS DP	Yes	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes	Yes
Process coupling				
• S7-1200	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes
Peripherals/Options				
Printer	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes	Yes
Network camera	Yes	Yes	Yes	Yes
Mechanics/material				
Enclosure material (front)				
• plastic	No	No	No	No
• Aluminum	Yes	Yes	Yes	Yes
• Stainless steel	No	No	No	No
Dimensions				
Width of the housing front	527 mm	527 mm	527 mm	527 mm
Height of housing front	330 mm; Without basic adapter	330 mm; Without basic adapter	330 mm; Without basic adapter	330 mm; Without basic adapter
Weights				
Weight (without packaging)	8.5 kg	8.5 kg	8.5 kg	8.5 kg

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Overview

System components for fully-enclosed IP65-protected devices

System components for PRO devices are only suitable for SIMATIC HMI/IPC PRO devices. In combination with the SIMATIC HMI PRO basic devices, these components enable easy adaptation to individual customer requirements for operator control and monitoring at the machine level, as well as offering a versatile and attractive cabinet-free solution for visualization and automation.

The following system components are available:

- Fixing elements
  - Adapter sets
  - Basic adapter
  - Round tube adapter
- Extension Units and operator controls
- Extension components
  - Stainless steel keyboard
  - Tool and keyboard tray
  - USB interface for PRO devices
  - Handles for PRO devices

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Overview



SIMATIC HMI TP1200 Comfort INOX PCT

SIMATIC HMI TP Comfort Panels INOX and INOX PCT (PCT = Projected Capacitive Touchscreen)

Panels with touch screens (analog-resistive or projective-capacitive) and stainless steel fronts are designed for use in the food, beverages and tobacco industry, the pharmaceutical industry, fine chemicals and in other hygiene areas for machine-level operator control and monitoring.

For this reason, the devices with stainless steel front have been developed in compliance with EN 1672-2 "Food processing machinery – Safety and Hygiene Requirements".

More information is available at this link

Selection and ordering data

SIMATIC HMI TP Comfort Panel INOX	
With analog-resistive touch and front film	
SIMATIC HMI TP700 Comfort Panel INOX With accessory pack consisting of: clamping frame, device seal, mounting clamps, connection terminal, as well as installation instructions.	**6AV2144-8GC10-0AA0**
SIMATIC HMI TP900 Comfort Panel INOX With accessory pack consisting of: clamping frame, device seal, mounting clamps, connection terminal, as well as installation instructions.	**6AV2144-8JC10-0AA0**
SIMATIC HMI TP1200 Comfort Panel INOX With accessory pack consisting of: clamping frame, device seal, mounting clamps, connection terminal, as well as installation instructions.	**6AV2144-8MC10-0AA0**
SIMATIC HMI TP Comfort Panel INOX PCT	
With projective-capacitive touch and front glass	
SIMATIC HMI TP700 Comfort Panel INOX PCT Stainless steel front, glass pane, capacitive touch, IP69K degree of protection front, 7" widescreen TFT display, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, WinCC Comfort V15.1	**6AV2144-8GC20-0AA0**
SIMATIC HMI TP900 Comfort Panel INOX PCT With accessory pack consisting of: clamping frame, device seal, mounting clamps, connection terminal, as well as installation instructions.	**6AV2144-8JC20-0AA0**
SIMATIC HMI TP1200 Comfort Panel INOX PCT With accessory pack consisting of: clamping frame, device seal, mounting clamps, connection terminal, as well as installation instructions.	**6AV2144-8MC20-0AA0**
Comfort Panels Large Front	
SIMATIC HMI TP1200 Comfort INOX with long stainless steel front 12" widescreen TFT display with long stainless steel front, decorative membrane, IP66K degree of protection front, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0 (Microsoft support including safety updates set), configurable as from WinCC Comfort V11 or higher	**6AV2144-8MC10-0AC0**
SIMATIC HMI TP1500 Comfort Panel INOX with long stainless steel front 15" widescreen TFT display with long stainless steel front, decorative membrane, IP66K degree of protection front, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, Windows, CE 2013, configurable as from WinCC Comfort V14 SP1 with HSP or higher	**6AV2144-8QC10-0AA2**
SIMATIC HMI TP1900 Comfort Panel INOX with long stainless steel front 19" widescreen TFT display with long stainless steel front, decorative membrane, IP66K degree of protection front, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, Windows, CE 2013, configurable as from WinCC Comfort V14 SP1 with HSP or higher	**6AV2144-8UC10-0AA1**
Accessories	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Selection and ordering data (continued)

The device seals can be replaced using the corresponding service packages from the accessories.

Technical specifications

Article number	6AV2144-8GC10-0AA0 SIMATIC HMI TP700 COMFORT INOX	6AV2144-8JC10-0AA0 SIMATIC HMI TP900 Comfort INOX	6AV2144-8MC10-0AA0 SIMATIC HMI TP1200 COMFORT INOX
General information			
Product type designation	TP700 Comfort INOX	TP900 Comfort INOX	TP1200 Comfort INOX
Display			
Design of display	TFT	TFT	TFT
Screen diagonal	7 in	9 in	12.1 in
Number of colors	16 777 216	16 777 216	16 777 216
Resolution (pixels)			
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	80 000 h	80 000 h	80 000 h
Control elements			
Keyboard			
• Function keys			
- Number of function keys	0	0	0
Touch operation			
• Design as touch screen	Yes; capacitive	Yes; capacitive	Yes; capacitive
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Storage			
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte
Type of output			
Acoustics			
• Speaker	Yes	Yes	Yes
Time of day			
Clock			
• Hardware clock (real-time)	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	1; 2 ports (switch)	1; 2 ports (switch)	1; 2 ports (switch)
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole	1; 5-pole	1; 5-pole
Number of SD card slots	2	2	2
Industrial Ethernet			
• Number of ports of the integrated switch	2	2	2
Protocols			
PROFINET	Yes	Yes	Yes
IRT	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12
PROFIBUS	Yes	Yes	Yes
MPI	Yes	Yes	Yes
Redundancy mode			
- Media redundancy			
- MRP	Yes; As of WinCC V12	Yes; As of WinCC V12	Yes; As of WinCC V12

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Technical specifications (continued)

Article number	6AV2144-8GC10-0AA0 SIMATIC HMI TP700 COMFORT INOX	6AV2144-8JC10-0AA0 SIMATIC HMI TP900 Comfort INOX	6AV2144-8MC10-0AA0 SIMATIC HMI TP1200 COMFORT INOX
Degree and class of protection			
IP (at the front)	IP66K	IP66K	IP66K
IP (rear)	IP20	IP20	IP20
NEMA (front)			
• Enclosure Type 4x at the front	Yes; indoor use only	Yes; indoor use only	Yes; indoor use only
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
cULus	Yes	Yes	Yes
FM approval	Yes		Yes
RCM (formerly C-TICK)	Yes	Yes	Yes
KC approval	Yes		Yes
EAC (formerly Gost-R)	Yes	Yes	Yes
Use in hazardous areas			
• ATEX Zone 2	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes
• FM Class I Division 2	Yes	No	Yes
Ambient conditions			
Relative humidity			
• Operation, max.	90 %; no condensation	90 %; no condensation	80 %; no condensation
Languages			
Online languages			
• Number of online/runtime languages	32	32	32
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes
Task planner			
• time-controlled	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes
Message system			
• Bit messages			
- Number of bit messages	4 000	4 000	4 000
• Analog messages			
- Number of analog messages	200	200	200
• Message buffer			
- Number of entries	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe management			
• Number of recipes	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes
Variables			
• Number of variables per device	2 048	2 048	2 048
• Number of variables per screen	400	400	400

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Technical specifications (continued)

Article number	6AV2144-8GC10-0AA0 SIMATIC HMI TP700 COMFORT INOX	6AV2144-8JC10-0AA0 SIMATIC HMI TP900 Comfort INOX	6AV2144-8MC10-0AA0 SIMATIC HMI TP1200 COMFORT INOX
Images			
• Number of configurable images	500	500	500
Archiving			
• Number of archives per device	50	50	50
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
• SIMATIC Logon	Yes	Yes	Yes
Logging through printer			
• Alarms	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)			
• MPI/PROFIBUS DP	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes
Peripherals/Options			
Printer	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes
Network camera	Yes	Yes	Yes
Mechanics/material			
Enclosure material (front)			
• plastic	No	No	No
• Aluminum	No	No	No
• Stainless steel	Yes	Yes	Yes
Dimensions			
Width of the housing front	214 mm	274 mm	330 mm
Height of housing front	158 mm	190 mm	241 mm
Mounting cutout, width	198 mm	250 mm	310 mm
Mounting cutout, height	142 mm	166 mm	221 mm
mounting depth	64.215 mm	65 mm	67 mm
Weights			
Weight (without packaging)	1.9 kg	2.5 kg	3.6 kg

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Technical specifications (continued)

Article number	6AV2144-8GC20-0AA0 SIMATIC HMI TP700 Comfort INOX PCT	6AV2144-8JC20-0AA0 SIMATIC HMI TP900 COMFORT INOX PCT	6AV2144-8MC20-0AA0 SIMATIC HMI TP1200 COMFORT INOX PCT
General information			
Product type designation	TP700 Comfort INOX PCT	TP900 Comfort INOX PCT	TP1200 Comfort INOX PCT
Display			
Design of display	TFT	TFT	TFT
Screen diagonal	7 in	9 in	12.1 in
Number of colors	16 777 216	16 777 216	16 777 216
Resolution (pixels)			
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	80 000 h	80 000 h	80 000 h
Control elements			
Keyboard			
• Function keys			
- Number of function keys	0	0	0
Touch operation			
• Design as touch screen	Yes; capacitive	Yes; capacitive	Yes; capacitive
• Design as multi-touch screen	No	No	No
• Monitor keyboard	Yes	Yes	Yes
Installation type/mounting			
Mounting in portrait format possible	No	Yes	Yes
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Storage			
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte
Type of output			
Acoustics	Speaker	Speaker	Speaker
• Speaker	Yes	Yes	Yes
Time of day			
Clock			
• Hardware clock (real-time)	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	1; 2 ports (switch)	1; 2 ports (switch)	1; 2 ports (switch)
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole	1; 5-pole	1; 5-pole
Number of SD card slots	2	2	2
Industrial Ethernet			
• Number of ports of the integrated switch	2	2	2
Protocols			
PROFINET	Yes	Yes	Yes
IRT	Yes; As of WinCC V15.1	Yes; As of WinCC V15	Yes; As of WinCC V15
PROFIBUS	Yes	Yes	Yes
MPI	Yes	Yes	Yes
Redundancy mode			
- Media redundancy			
- MRP	Yes; As of WinCC V15.1	Yes; As of WinCC V15	Yes; As of WinCC V15
Degree and class of protection			
IP (at the front)	IP66 / IPx6K and IP69 / IPx9K	IP66 / IPx6K and IP69 / IPx9K	IP66 / IPx6K and IP69 / IPx9K
IP (rear)	IP20	IP20	IP20
NEMA (front)			NEMA 4, NEMA 12 (when installed)

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Technical specifications (continued)

Article number	6AV2144-8GC20-0AA0 SIMATIC HMI TP700 Comfort INOX PCT	6AV2144-8JC20-0AA0 SIMATIC HMI TP900 COMFORT INOX PCT	6AV2144-8MC20-0AA0 SIMATIC HMI TP1200 COMFORT INOX PCT
• Enclosure Type 4x at the front		No	Yes
• Enclosure Type 12 at the front	No	No	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
cULus	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes
KC approval	No	No	No
EAC (formerly Gost-R)	Yes	Yes	Yes
Use in hazardous areas			
• ATEX Zone 2	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes
• cULus Class II Division 2	No	No	No
• FM Class I Division 2	No	No	No
• FM Class II Division 2	No	No	No
Ambient conditions			
Suited for indoor use	Yes	Yes	Yes
Suited for outdoor use	No	No	No
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m
Relative humidity			
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation
Languages			
Online languages			
• Number of online/runtime languages	32	32	32
Functionality under WinCC (TIA Portal)			
Applications/options	Internet Explorer, PDF/Word/Excel Viewer, Sm@rtService, Sm@rtAccess, ProAgent	Internet Explorer, PDF/Word/Excel Viewer, Sm@rtService, Sm@rtAccess, ProAgent	Internet Explorer, PDF/Word/Excel Viewer, Sm@rtService, Sm@rtAccess, ProAgent
• Web browser	Yes	Yes	Yes
• Pocket Word	Yes; Viewer	Yes; Viewer	Yes; Viewer
• Pocket Excel	Yes; Viewer	Yes; Viewer	Yes; Viewer
• PDF Viewer	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes
Task planner	Yes	Yes	Yes
• time-controlled	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes
Message system			
• Bit messages			
- Number of bit messages	4 000	4 000	4 000
• Analog messages			
- Number of analog messages	200	200	200
• Message buffer			
- Number of entries	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe management			
• Number of recipes	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2144-8GC20-0AA0 SIMATIC HMI TP700 Comfort INOX PCT	6AV2144-8JC20-0AA0 SIMATIC HMI TP900 COMFORT INOX PCT	6AV2144-8MC20-0AA0 SIMATIC HMI TP1200 COMFORT INOX PCT
Variables			
• Number of variables per device	2 048	2 048	2 048
• Number of variables per screen	400	400	400
Images			
• Number of configurable images	500	500	500
Archiving			
• Number of archives per device	50	50	50
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
• SIMATIC Logon	Yes	Yes	Yes
Logging through printer			
• Alarms	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes
• Electronic print to file	No	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)			
• MPI/PROFIBUS DP	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes
Peripherals/Options			
Printer	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes
Network camera	Yes	Yes	Yes
Accessories			
Further accessories are available	Yes; Service Pack (seal, mounting clips, clamping frame, power supply connector)	Yes; Service Pack (seal, mounting clips, clamping frame, power supply connector)	Yes; Service Pack (seal, mounting clips, clamping frame, power supply connector)
Mechanics/material			
Enclosure material (front)			
• plastic	No	No	No
• Aluminum	No	No	No
• Stainless steel	Yes	Yes	Yes
Dimensions			
Width of the housing front	214 mm	274 mm	330 mm

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Technical specifications (continued)

Article number	6AV2144-8GC20-0AA0 SIMATIC HMI TP700 Comfort INOX PCT	6AV2144-8JC20-0AA0 SIMATIC HMI TP900 COMFORT INOX PCT	6AV2144-8MC20-0AA0 SIMATIC HMI TP1200 COMFORT INOX PCT
Height of housing front	158 mm	190 mm	241 mm
Mounting cutout, width	197 mm	251 mm	310 mm
Mounting cutout, height	141 mm	166 mm	221 mm
mounting depth	66 mm	66 mm	65 mm
Weights			
Weight (without packaging)	2 kg	2.9 kg	4.2 kg

Article number	6AV2144-8MC10-0AC0 SIMATIC HMI TP1200 COMFORT INOX LF	6AV2144-8QC10-0AA2 SIMATIC HMI TP1500 Comfort INOX	6AV2144-8UC10-0AA1 SIMATIC HMI TP1900 Comfort INOX
General information			
Product type designation	TP1200 Comfort INOX LF	TP1500 Comfort INOX	TP1900 Comfort INOX
Display			
Design of display	TFT	TFT	TFT
Screen diagonal	12.1 in	15.4 in	18.5 in
Number of colors	16 777 216	16 777 216	16 777 216
Resolution (pixels)			
• Horizontal image resolution	1 280 pixel	1 280 pixel	1 366 pixel
• Vertical image resolution	800 pixel	800 pixel	768 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	80 000 h	80 000 h	50 000 h
Control elements			
Keyboard			
• Function keys			
- Number of function keys	0	0	0
Touch operation			
• Design as touch screen	Yes; capacitive	Yes; Analog-resistive	Yes; capacitive
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Storage			
Memory available for user data	12 Mbyte	24 Mbyte	24 Mbyte
Type of output			
Acoustics			
• Speaker	Yes	Yes	Yes
Time of day			
Clock			
• Hardware clock (real-time)	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	1; 2 ports (switch)	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0
• USB Mini B	1; 5-pole		
Number of SD card slots	2	2	2
Industrial Ethernet			
• Number of ports of the integrated switch	2	2	2
Protocols			
PROFINET	Yes	Yes	Yes
IRT	Yes; As of WinCC V12	Yes	Yes
PROFIBUS	Yes	Yes	Yes
MPI	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2144-8MC10-0AC0 SIMATIC HMI TP1200 COMFORT INOX LF	6AV2144-8QC10-0AA2 SIMATIC HMI TP1500 Comfort INOX	6AV2144-8UC10-0AA1 SIMATIC HMI TP1900 Comfort INOX
Redundancy mode			
- Media redundancy			
- MRP	Yes; As of WinCC V12	Yes	Yes
Degree and class of protection			
IP (at the front)	IP66K	IP66K	IP66K
IP (rear)	IP20	IP20	IP20
NEMA (front)			
• Enclosure Type 4x at the front	Yes; indoor use only	Yes; indoor use only	Yes; indoor use only
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
cULus	Yes	Yes	Yes
FM approval	No		
RCM (formerly C-TICK)	No	Yes	Yes
KC approval	No	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes
Use in hazardous areas			
• ATEX Zone 2	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes
• FM Class I Division 2	No	No	No
Ambient conditions			
Suited for indoor use		Yes	Yes
Suited for outdoor use		No	No
Relative humidity			
• Operation, max.	80 %; no condensation	80 %; no condensation	70 %; no condensation
Languages			
Online languages			
• Number of online/runtime languages	32	32	32
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser	Yes	Yes	Yes
• Pocket Word	Yes	Yes	Yes
• Pocket Excel	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes
Task planner			
• time-controlled	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes
Message system			
• Bit messages			
- Number of bit messages	4 000	6 000	6 000
• Analog messages			
- Number of analog messages	200	200	200
• Message buffer			
- Number of entries	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe management			
• Number of recipes	300	500	500

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Technical specifications (continued)

Article number	6AV2144-8MC10-0AC0 SIMATIC HMI TP1200 COMFORT INOX LF	6AV2144-8QC10-0AA2 SIMATIC HMI TP1500 Comfort INOX	6AV2144-8UC10-0AA1 SIMATIC HMI TP1900 Comfort INOX
• Size of internal recipe memory	2 Mbyte	4 Mbyte	4 Mbyte
• Recipe memory expandable	Yes	Yes	Yes
Variables			
• Number of variables per device	2 048	4 096	4 096
• Number of variables per screen	400	400	400
Images			
• Number of configurable images	500	750	750
Archiving			
• Number of archives per device	50	50	50
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
• SIMATIC Logon	Yes	Yes	Yes
Logging through printer			
• Alarms	Yes	Yes	Yes
• Report (shift log)	Yes	Yes	Yes
• Hardcopy	Yes	Yes	Yes
• Electronic print to file	Yes; PDF, HTML	Yes; PDF, HTML	Yes; PDF, HTML
Transfer (upload/download)			
• MPI/PROFIBUS DP	Yes	Yes	Yes
• Ethernet	Yes	Yes	Yes
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes
• WinAC	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes
• OMRON (FINS TCP)	No	No	No
• OMRON (Host Link)	Yes	Yes	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes
Peripherals/Options			
Printer	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB	Yes; Up to 128 MB	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB	Yes; Up to 2 GB	Yes; Up to 2 GB
USB memory	Yes	Yes	Yes
Network camera	Yes	Yes	Yes
Mechanics/material			
Enclosure material (front)			
• plastic	No	No	No
• Aluminum	No	No	No
• Stainless steel	Yes	Yes	Yes
Dimensions			
Width of the housing front	330 mm	415 mm	483 mm
Height of housing front	269 mm	310 mm	337 mm
Mounting cutout, width	310 mm	396 mm	465 mm

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Technical specifications (continued)

Article number	6AV2144-8MC10-0AC0 SIMATIC HMI TP1200 COMFORT INOX LF	6AV2144-8QC10-0AA2 SIMATIC HMI TP1500 Comfort INOX	6AV2144-8UC10-0AA1 SIMATIC HMI TP1900 Comfort INOX
Mounting cutout, height	248 mm	291 mm	319 mm
mounting depth	67 mm	74 mm	73 mm
Weights			
Weight (without packaging)	4.2 kg	5.9 kg	7.9 kg

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Overview

Fixing elements

Adapter sets, basic adapter, round tube adapter and round tube cap

The fixing elements are required for connecting the SIMATIC HMI PRO device with the support arm head of the respective support arm system.

Since the support arm head is connected directly to the device, there is complete flexibility in the choice of support arm components.

Adapter sets are available for the VESA 75 and VESA 100 systems.

Further adapter sets can be obtained directly from the respective support arm manufacturers:

- Bernstein
- Rittal
- Rose
- Haseke and
- Rolec

For the 4:3 and 16:9 variants, basic adapters are available according to design:

- The basic adapter is included in the scope of delivery of the device for 4:3 systems (dark gray)
- The basic adapter is included in the scope of delivery of the device for 16:9 systems (silver) (the basic adapter is included in the scope of delivery as a matter of principle. It is excluded only from the version "prepared for support arm and extension components", because connection is made via a round tube.)

For the version "prepared for support arm and extension components" of the 16:9 PRO devices, installation can alternatively take place with the Siemens round tube adapter or with a standard 48 mm diameter round tube. The round tube adapter enables the transition from a round tube connection to the familiar mechanical interface of the basic adapter. This means you can combine different versions of the PRO devices with the same support arm or pedestal system.

Selection and ordering data

VESA 100 adapter set[1)]	**6AV7674-0KD00-0AA0**
VESA 75 adapter set	**6AV7674-0KE00-0AA0**
Basic adapter for 16:9 systems Spare part (silver, included in the scope of delivery of the device)	**6AV7674-1KA00-0AA0**
Round tube adapter for 16:9 systems Suitable for 16:9 PRO devices of the type "prepared for support arm and extension components (round tube connection)"	**6AV7674-1KF00-0AA0**
VESA 100/75 round tube adapter For SIMATIC PRO devices. Can be mounted with a 100 mm (M6) or 75 mm (M6) VESA. IP20 cable entry directly in the round tube adapter. Suitable for all common support arm systems with corresponding VESA coupling, load capacity and hole spacing. More information is available in the technical specifications.	**6AV6881-0AD56-0AA0**
Round tube cap for PRO devices	**6AV7674-1LB40-0AA0**
Replacement adapter for PRO devices	**6AV7674-1LB50-0AA0**

1) The VESA 100 adapter set cannot be used in combination with the 19" Flat Panel PRO.

Note:

The 48 mm internal diameter of the support arm tubes is not suitable for feeding through the standard DVI-D cable.

Scope of delivery:

- One adapter set or basic adapter, round tube adapter
- Fittings for mounting

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Technical specifications

Article number	6AV7674-0KD00-0AA0 Adapter Set VESA 100 Fully enclosed HMI	6AV7674-0KE00-0AA0 Adapter Set VESA 75 f. Fully Enclose HMI
General information		
Product type designation	Adapter set VESA 100	Adapter set VESA 75
Degree and class of protection		
IP (all-round)	IP65	IP65
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	No	No
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	55 °C	55 °C
Relative humidity		
• Operation, max.	90 %	90 %
• Condensation permissible	No	No
Scope of supply		
Delivery quantity in pieces	1	1
Other		
Merchandise	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	Not suitable for 19" 4:3 devices	Not suitable for 19" 4:3 devices

Article number	6AV7674-1KA00-0AA0 Basic Adapter for HMI/IPC Pro (16:9)
General information	
Product type designation	Basic adapter
Other	
Merchandise	Yes
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany

Article number	6AV7674-1KF00-0AA0 Flange Mount for Pro Devices
General information	
Product type designation	Flange mount
Installation type/mounting	
Mounting	for the transition from a size 48 round tube to a flange plate (compatible with basic adapter interface)
Degree and class of protection	
IP (all-round)	IP65 when installed
Mechanics/material	
Material	Steel, powder coating in RAL 9006
Dimensions	
Width	76.3 mm; Width of flange plate, distance between holes 40 mm
Height	168 mm; Round tube and flange plate
Depth	80 mm; Depth of flange plate, distance between holes 63 mm
Enclosure diameter	48.3 mm; Round tube in interface area
Weights	
Weight (without packaging)	900 g
Scope of supply	
Delivery quantity in pieces	1
Other	
Target devices	Suitable for PRO devices, prepared for support arm and extension components (round tube connection)

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Technical specifications (continued)

Article number	6AV6881-0AD56-0AA0 Flange mount adapter VESA 100/75
General information	
Product type designation	VESA 100/75 flange adapter
Installation type/mounting	
Mounting	VESA 100 mm / 75 mm with M6 thread
Mounting type	Support arm with VESA 100 mm or 75 mm
Degree and class of protection	
IP (at the front)	IP20 (depending on mounting)
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	90 %
• Condensation permissible	No
Mechanics/material	
Material	steel
• Aluminum	No
• Sheet metal	Yes; 11SMnPb30 + C
• PET	No
Enclosure material (rear)	sheet metal S235 powder-coated
Dimensions	
Width	135 mm
Height	120 mm
Depth	67.5 mm
Scope of supply	
Delivery quantity in pieces	1; VESA round tube adapter 100/75 suitable for PRO devices, max. IP20 attainable
Components included	Without additional accessories
Other	
Merchandise	Yes; VESA 100/75 PRO adapter
Manufacturer name	QUERUM products UG
Manufacturer's address	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer	email: querumproducts@web.de
Target devices	Not suitable for 19" 4:3 devices
Note:	Max. load 35 kg, for expandable support arm mounting

Article number	6AV7674-1LB40-0AA0 Round tube plug for PRO devices	6AV7674-1LB50-0AA0 Exchange adapter for PRO devices
General information		
Product type designation	round tube cap	replacement adapter
Degree and class of protection		
IP (all-round)	IP65 when installed	IP65 when installed
NEMA (front)		
• Enclosure Type 4 at the front	Yes; When installed	Yes; When installed
Mechanics/material		
Material		
• Aluminum	Yes; Powder-coated, RAL 9006	Yes; Powder-coated, RAL 9006
Weights		
Weight (without packaging)	0.24 kg	0.34 kg
Scope of supply		
Delivery quantity in pieces	1	1
Components included	Round tube plug for PRO devices	Screws for attachment

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Technical specifications (continued)

Article number	6AV7674-1LB40-0AA0 Round tube plug for PRO devices	6AV7674-1LB50-0AA0 Exchange adapter for PRO devices
Other		
Target devices	PRO devices for support arm (extendable, round tube)	PRO devices for support arm (extendable, round tube) and pedestal (extendable, flange below)

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Overview

Extension Units

Extension Units with 12" to 22", as well as a 24" portrait version for SIMATIC HMI PRO devices, are part of the system components for fully-enclosed IP65-protected devices.
They enable the expansion of the operating options on site by the installation of various operator controls. Communication can take place via PROFINET, PROFIsafe or conventional wiring.

SIMATIC Extension Unit (BTO & Advanced)

With Customized Automation, Extension Units are built to specific customer requirements and given their own customer MLFB. BTO (built to order).

Extension Units for 16:9 PRO devices





Extension Units for the 16:9 PRO devices are suitable for the flexible installation of various operator controls that extend the operating options on site easily and on an individual basis. They are coordinated with the design of the 16:9 PRO devices and can easily be mounted below the device by the customers themselves.

Additionally, the Extension Unit box is available for the flexible installation of lower operator controls.

Selection and ordering data

Extension Units for 16:9 PRO devices	
Extension Unit Hardwired	
• 12"	**6AV7674-1LA31-0AA0**
• 15"	**6AV7674-1LA41-0AA0**
• 19"	**6AV7674-1LA51-0AA0**
• 22"	**6AV7674-1LA61-0AA0**
• 24"	**6AV7674-1LA71-0AA0**
• 24" portrait	**6AV7674-1LA81-0AA0**
Extension Unit PROFINET	
• 12"	**6AV7674-1LA32-0AA0**
• 15"	**6AV7674-1LA42-0AA0**
• 19"	**6AV7674-1LA52-0AA0**
• 22"	**6AV7674-1LA62-0AA0**
• 24"	**6AV7674-1LA72-0AA0**
• 24" portrait	**6AV7674-1LA82-0AA0**
Extension Unit PROFIsafe	
• 12"	**6AV7674-1LA33-0AA0**
• 15"	**6AV7674-1LA43-0AA0**
• 19"	**6AV7674-1LA53-0AA0**
• 22"	**6AV7674-1LA63-0AA0**
• 24"	**6AV7674-1LA73-0AA0**
• 24" portrait	**6AV7674-1LA83-0AA0**
Extension Unit box	
• 12"	**6AV7674-1LA30-0AA0**
• 15"	**6AV7674-1LA40-0AA0**
• 19"	**6AV7674-1LA50-0AA0**
• 22"	**6AV7674-1LA60-0AA0**
• 24"	**6AV7674-1LA70-0AA0**
• 24" portrait	**6AV7674-1LA80-0AA0**
Extension Unit Advanced PROFINET [1]	
• 12" KP12 PN	**6AV2185-8CE01-0AA0**
• 15" KP12 PN	**6AV2185-8DE01-0AA0**
• 19" KP12 PN	**6AV2185-8EE01-0AA0**
• 22" KP12 PN	**6AV2185-8FE01-0AA0**
• 12" KP24 PN	**6AV2185-8CE08-0AA0**
• 15" KP36 PN	**6AV2185-8DE08-0AA0**
• 19" KP36 PN	**6AV2185-8EE08-0AA0**
• 22" KP48 PN	**6AV2185-8FE08-0AA0**
Extension Unit Advanced PROFIsafe [1]	
• 12" KP12F PN	**6AV2185-8CF01-0AA0**
• 15" KP12F PN	**6AV2185-8DF01-0AA0**
• 19" KP12F PN	**6AV2185-8EF01-0AA0**
• 22" KP12F PN	**6AV2185-8FF01-0AA0**

1) Max. two Extension Units possible as extension

Scope of delivery

Extension Units Hardwired:

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Selection and ordering data (continued)

- 1 Extension Unit
- 1 plug connector, 16-pin, for interface X12
- 1 plug connector, 12-pin, for interface X11
- 1 plug connector, 8-pin, for interface X10
- 1 power supply terminal for 24 V DC
- 4 bolts M4x20 for mounting the Extension Unit on the SIMATIC PRO device

PROFINET Extension Units:

- 1 Extension Unit
- 1 plug connector, 8-pin, for interface X10
- 1 power supply connector for 24 V DC
- 4 bolts M4x20 for mounting the Extension Unit on the SIMATIC PRO device

Operator controls	
EMERGENCY STOP button	**6AV7674-1MA00-0AA0**
Illuminated pushbutton	
• One NO contact	**6AV7674-1MB00-0AA0**
• One NO contact and one NC contact	**6AV7674-1MG00-0AA0**
Pushbutton Safety	**6AV7674-1MG50-0AA0**
Indicator light	**6AV7674-1MC00-0AA0**
Selector switch	**6AV7674-1MD00-0AA0**
Keyswitch	**6AV7674-1ME00-0AA0**
Keyswitch Safety	**6AV7674-1ME50-0AA0**
Accessories	
USB interface for front mounting in Extension Unit USB 2.0 type A, IP65 degree of protection with closed protective cover, cable and plug	**6AV7674-1MF00-0AA0**
Insert labels for self-inscription	**6AV7674-1LB30-0AA0**
Label holders for self-inscription	**6AV7674-1LB20-0AA0**

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Technical specifications

Article number	6AV7674-1LA31-0-AA0 Extension Unit 12" hardwired	6AV7674-1LA41-0-AA0 Extension Unit 15" hardwired	6AV7674-1LA51-0-AA0 Extension Unit 19" hardwired	6AV7674-1LA61-0-AA0 Extension Unit 22" hardwired	6AV7674-1LA71-0-AA0 Extension Unit 24" hardwired	6AV7674-1LA81-0-AA0 Extension Unit 24" Portrait hardwired
General information						
Product type designation	Extension Unit 12" Hardwired	Extension Unit 15" hardwired	Extension Unit 19" hardwired	Extension Unit 22" hardwired	Extension Unit 24" hardwired	Extension Unit 24" Portrait hardwired
Control elements						
Connection type						
• Connection type of the LED module	12-pin connector	12-pin connector	12-pin connector	12-pin connector	12-pin connector	
• Connection type of the contacts of the control elements	16-pin connector	16-pin connector	16-pin connector	16-pin connector	16-pin connector	
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector	8-pin connector	
Installation type/mounting						
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No	No	No
Front mounting	No	No	No	No	No	No
Number of slots for command devices and signaling units	6	8	10; Max. 8 control elements + 1 emergency stop button can be mounted (refer to manual)	10; Max. 8 control elements + 1 emergency stop button can be mounted (refer to manual)	12; Max. 8 control elements + 1 emergency stop button can be mounted (refer to manual)	6
RFID reader can be installed						Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Degree and class of protection						
IP (all-round)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4 at the front	Yes	Yes	Yes	Yes	Yes	
• Enclosure Type 4x at the front						Yes; All-round
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables						
Cable length	30 m	30 m	30 m	30 m	30 m	

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Technical specifications (continued)

Article number	6AV7674-1LA31-0-AA0 Extension Unit 12" hardwired	6AV7674-1LA41-0-AA0 Extension Unit 15" hardwired	6AV7674-1LA51-0-AA0 Extension Unit 19" hardwired	6AV7674-1LA61-0-AA0 Extension Unit 22" hardwired	6AV7674-1LA71-0-AA0 Extension Unit 24" hardwired	6AV7674-1LA81-0-AA0 Extension Unit 24" Portrait hardwired
Mechanics/material						
Material						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Enclosure material (front)						
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions						
Width	313 mm	396 mm	462 mm	527 mm	583 mm	361 mm
Height	99 mm	99 mm	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm					100.65 mm
Thickness		100.65 mm	100.65 mm	100.65 mm	100.65 mm	
Weights						
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg	2.6 kg	2.2 kg
Scope of supply						
Delivery quantity in pieces	1	1	1	1	1	1
Components included	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces

Article number	6AV7674-1LA32-0-AA0 Extension Unit 12" PROFINET	6AV7674-1LA42-0-AA0 Extension Unit 15" PROFINET	6AV7674-1LA52-0-AA0 Extension Unit 19" PROFINET	6AV7674-1LA62-0-AA0 Extension Unit 22" PROFINET	6AV7674-1LA72-0-AA0 Extension Unit 24" PROFINET	6AV7674-1LA82-0-AA0 Extension Unit 24" Portrait PROFINET
General information						
Product type designation	Extension Unit 12" PROFINET	Extension Unit 15" PROFINET	Extension Unit 19" PROFINET	Extension Unit 22" PROFINET	Extension Unit 24" PROFINET	Extension Unit 24" Portrait PROFINET
Control elements						
With parameterizable keys	Yes	Yes	Yes	Yes		
Connection type						
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector	8-pin connector	
Installation type/mounting						
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No	No	No
Front mounting	No	No	No	No	No	No
Number of slots for command devices and signaling units	6	8	10	12	12	6
RFID reader can be installed		Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Interfaces						
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						

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Technical specifications (continued)

Article number	6AV7674-1LA32-0-AA0 Extension Unit 12" PROFINET	6AV7674-1LA42-0-AA0 Extension Unit 15" PROFINET	6AV7674-1LA52-0-AA0 Extension Unit 19" PROFINET	6AV7674-1LA62-0-AA0 Extension Unit 22" PROFINET	6AV7674-1LA72-0-AA0 Extension Unit 24" PROFINET	6AV7674-1LA82-0-AA0 Extension Unit 24" Portrait PROFINET
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Test commissioning functions						
Key and signal lamp test	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on		Yes; automatically when switching on
Degree and class of protection						
IP (all-round)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4 at the front					Yes	
• Enclosure Type 4x at the front	Yes; All-round	Yes; All-round	Yes; All-round	Yes; All-round		Yes; All-round
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables						
Cable length	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m	
Mechanics/material						
Material						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Enclosure material (front)						
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions						
Width	313 mm	396 mm	462 mm	527 mm	583 mm	361 mm
Height	99 mm	99 mm	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights						
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg	2.6 kg	2.2 kg
Scope of supply						
Delivery quantity in pieces	1	1	1	1	1	1
Components included	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs

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Technical specifications (continued)

Article number	6AV7674-1LA33-0AA0	6AV7674-1LA43-0AA0	6AV7674-1LA53-0AA0	6AV7674-1LA63-0AA0	6AV7674-1LA73-0AA0
	Extension Unit 12" PROFIsafe	Extension Unit 15" PROFIsafe	Extension Unit 19" PROFIsafe	Extension Unit 22" PROFIsafe	Extension Unit 24" PROFIsafe
General information					
Product type designation	Extension Unit 12" PROFIsafe	Extension Unit 15" PROFIsafe	Extension Unit 19" PROFIsafe	Extension Unit 22" PROFIsafe	Extension Unit 24" PROFIsafe
Control elements					
With parameterizable keys	Yes	Yes	Yes	Yes	
Installation type/mounting					
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No	No
Front mounting	No	No	No	No	No
Number of slots for command devices and signaling units	6	8	10	12	12
RFID reader can be installed	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Interfaces					
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols					
PROFIsafe	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor
Redundancy mode					
- Media redundancy					
- MRP	Yes	Yes			Yes
Test commissioning functions					
Key and signal lamp test	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on	
Degree and class of protection					
IP (all-round)	IP65	IP65	IP65	IP65	IP65
NEMA (front)					
• Enclosure Type 4 at the front					Yes
• Enclosure Type 4x at the front	Yes; All-round	Yes; All-round	Yes; All-round	Yes; All-round	
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level					
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity					
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables					
Cable length					30 m

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Technical specifications (continued)

Article number	6AV7674-1LA33-0AA0	6AV7674-1LA43-0AA0	6AV7674-1LA53-0AA0	6AV7674-1LA63-0AA0	6AV7674-1LA73-0AA0
	Extension Unit 12" PROFISAFE	Extension Unit 15" PROFISAFE	Extension Unit 19" PROFISAFE	Extension Unit 22" PROFISAFE	Extension Unit 24" PROFISAFE
Mechanics/material					
Material					
• Aluminum	Yes	Yes	Yes	Yes	Yes
Enclosure material (front)					
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions					
Width	313 mm	396 mm	462 mm	527 mm	583 mm
Height	99 mm	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights					
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg	2.6 kg
Scope of supply					
Delivery quantity in pieces	1	1	1	1	1
Components included	Power supply connector	Power supply connector	Power supply connector	Power supply connector	Power supply connector

Article number	6AV2185-8CE01-0AA0	6AV2185-8DE01-0AA0	6AV2185-8EE01-0AA0	6AV2185-8FE01-0AA0
	Extension Unit 12" KP12 PN	Extension Unit 15" KP12 PN	Extension Unit 19" KP12 PN	Extension Unit 22" KP12 PN
General information				
Product type designation	Extension Unit 12" KP12 PN	Extension Unit 15" KP12 PN	Extension Unit 19" KP12 PN	Extension Unit 22" KP12 PN
Control elements				
Version of actuating element	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12
Operating principle of the actuating element	Tactile feedback	Tactile feedback	Tactile feedback	Tactile feedback
Functional lighting	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow
With parameterizable keys	Yes	Yes	Yes	Yes
Connection type				
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector
Installation type/mounting				
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No
Front mounting	No	No	No	No
Number of slots for command devices and signaling units	3	5	6	8
RFID reader can be installed	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Interfaces				
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols				
PROFINET	Yes	Yes	Yes	Yes
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (all-round)	IP65	IP65	IP65	IP65
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2185-8CE01-0AA0 Extension Unit 12" KP12 PN	6AV2185-8DE01-0AA0 Extension Unit 15" KP12 PN	6AV2185-8EE01-0AA0 Extension Unit 19" KP12 PN	6AV2185-8FE01-0AA0 Extension Unit 22" KP12 PN
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes; EAC	Yes; EAC	Yes; EAC	Yes; EAC
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables				
Cable length	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop
Mechanics/material				
Material				
• Aluminum	Yes	Yes	Yes	Yes
Enclosure material (front)				
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions				
Width	313 mm	396 mm	462 mm	527 mm
Height	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights				
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Components included	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs

Article number	6AV2185-8CE08-0AA0 Extension Unit 12" KP24 PN	6AV2185-8DE08-0AA0 Extension Unit 15" KP36 PN	6AV2185-8EE08-0AA0 Extension Unit 19" KP36 PN	6AV2185-8FE08-0AA0 Extension Unit 22" KP48 PN
General information				
Product type designation	Extension Unit 12" KP24 PN	Extension Unit 15" KP36 PN	Extension Unit 19" KP36 PN	Extension Unit 22" KP48 PN
Control elements				
Version of actuating element	2x Key Panel 12	3x Key Panel 12	3x Key Panel 12	4x Key Panel 12
Operating principle of the actuating element	Tactile feedback	Tactile feedback	Tactile feedback	Tactile feedback
Functional lighting	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow
With parameterizable keys	Yes	Yes	Yes	Yes
Connection type				
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector
Installation type/mounting				
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No
Front mounting	No	No	No	No

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Technical specifications (continued)

Article number	6AV2185-8CE08-0AA0 Extension Unit 12" KP24 PN	6AV2185-8DE08-0AA0 Extension Unit 15" KP36 PN	6AV2185-8EE08-0AA0 Extension Unit 19" KP36 PN	6AV2185-8FE08-0AA0 Extension Unit 22" KP48 PN
Number of slots for command devices and signaling units	0	0	0	0
RFID reader can be installed	No	No	No	No
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Interfaces				
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols				
PROFINET	Yes	Yes	Yes	Yes
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (all-round)	IP65	IP65	IP65	IP65
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
CSA approval			Yes	
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes		Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes; EAC	Yes; EAC	Yes; EAC	Yes; EAC
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables				
Cable length	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop
Mechanics/material				
Material				
• Aluminum	Yes	Yes	Yes	Yes
Enclosure material (front)				
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions				
Width	313 mm	396 mm	462 mm	527 mm
Height	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights				
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Components included	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs

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Technical specifications (continued)

Article number	6AV2185-8CF01-0AA0 Extension Unit 12" KP12F PN	6AV2185-8DF01-0AA0 Extension Unit 15" KP12F PN	6AV2185-8EF01-0AA0 Extension Unit 19" KP12F PN	6AV2185-8FF01-0AA0 Extension Unit 22" KP12F PN
General information				
Product type designation	Extension Unit 12" KP12F PN	Extension Unit 15" KP12F PN	Extension Unit 19" KP12F PN	Extension Unit 22" KP12F PN
Control elements				
Version of actuating element	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12
Operating principle of the actuating element	Tactile feedback	Tactile feedback	Tactile feedback	Tactile feedback
Functional lighting	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow
With parameterizable keys	Yes	Yes	Yes	Yes
Installation type/mounting				
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No
Front mounting	No	No	No	No
Number of slots for command devices and signaling units	3	5	6	8
RFID reader can be installed	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Interfaces				
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols				
PROFIsafe	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (all-round)	IP65	IP65	IP65	IP65
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes; EAC	Yes; EAC	Yes; EAC	Yes; EAC
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Mechanics/material				
Material				
• Aluminum	Yes	Yes	Yes	Yes
Enclosure material (front)				
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film

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Technical specifications (continued)

Article number	6AV2185-8CF01-0AA0 Extension Unit 12" KP12F PN	6AV2185-8DF01-0AA0 Extension Unit 15" KP12F PN	6AV2185-8EF01-0AA0 Extension Unit 19" KP12F PN	6AV2185-8FF01-0AA0 Extension Unit 22" KP12F PN
Dimensions				
Width	313 mm	396 mm	462 mm	527 mm
Height	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights				
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Components included	Power supply connector	Power supply connector	Power supply connector	Power supply connector

Article number	6AV7674-1MA00-0AA-0 E-Stop Pushbutton for Ext. Unit	6AV7674-1MB00-0AA-0 Illuminated Pushbutton for Ext. Unit	6AV7674-1MG00-0AA-0 Illum. pushbutton for ext.unit (1NO+1NC)	6AV7674-1MG50-0AA-0 Pushbutton Safety for Ext. Unit	6AV7674-1MC00-0AA-0 Indicator Light for Ext. Unit
General information					
Product type designation	EMERGENCY STOP mushroom pushbutton for Extension Unit	Illuminated pushbutton for Extension Unit	Illuminated pushbutton for Extension Unit (1 NC contact / 1 NO contact)	Safety pushbutton for Extension Unit (2 NO contacts)	Indicator light for Extension Unit
Control elements					
Version of actuating element	Conical mushroom pushbutton	Pushbutton with flat button	Pushbutton with flat button	Pushbutton with flat button	Flat lens
Operating principle of the actuating element	Latching, rotate to unlatch	Momentary contact	Momentary contact	Momentary contact	
Shape of actuating element	Round	Round	Round	Round	Round
Illuminant	No; Cannot be illuminated	Yes; Can be illuminated	Yes; Can be illuminated	No; Cannot be illuminated	Yes; Can be illuminated
• Type of light source					SMT LED
• Color of light source		Translucent white (different colors are created using the colored disk supplied)	Translucent white (different colors are created using the colored disk supplied)	Translucent white (different colors are created using the colored disk supplied)	Translucent white (different colors are created using the colored disk supplied)
Contact configuration	2 NC contacts	1 NO contact	1 NC contact, 1 NO contact	2 NO contacts	
Installation type/mounting					
Mounting type	Threaded ring	Threaded ring	Threaded ring	Threaded ring	Threaded ring
Front mounting	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Degree and class of protection					
IP (at the front)	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes
UL approval	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit
cULus	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit
RCM (formerly C-TICK)	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C

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Technical specifications (continued)

Article number	6AV7674-1MA00-0AA-0 E-Stop Pushbutton for Ext. Unit	6AV7674-1MB00-0AA-0 Illuminated Pushbutton for Ext. Unit	6AV7674-1MG00-0AA-0 Illum. pushbutton for ext.unit (1NO+1NC)	6AV7674-1MG50-0AA-0 Pushbutton Safety for Ext. Unit	6AV7674-1MC00-0AA-0 Indicator Light for Ext. Unit
• max.	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level					
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity					
• Operation, max.	90 %	90 %	90 %	90 %	90 %
• Condensation permissible	No	No	No	No	No
Mechanics/material					
Material					
• plastic	Yes	Yes	Yes	Yes	Yes
Material of the actuating element	plastic	plastic	plastic	plastic	plastic
Material of the front ring	plastic	plastic	plastic	plastic	plastic
Enclosure color (front)	red	Colorless	Colorless	Colorless	Colorless
Color of the front ring	Yellow	Silver metallic	Silver metallic	Silver metallic	Silver metallic
Service life					
• Number of operating cycles, keys	50 000	1 000 000	1 000 000	1 000 000	
Dimensions					
Height of housing front	33.2 mm	9.85 mm	9.85 mm	9.85 mm	9.85 mm
Mounting diameter	22.3 mm	22.3 mm	22.3 mm	22.3 mm	22.3 mm
Weights					
Weight (without packaging)	50 g	50 g	50 g	50 g	50 g
Scope of supply					
Delivery quantity in pieces	1	1	1	1	1
Components included					
• Number of colored lenses		5; colorless, red, yellow, green, blue	5; colorless, red, yellow, green, blue	6; colorless, red, yellow, green, blue, black	5; colorless, red, yellow, green, blue
Other					
Target devices	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	suitable for Extension Units of the 16:9 HMI/IPC PRO devices as of TIA Portal V16 (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)
Note:				configurable as of TIA Portal V16	

Article number	6AV7674-1MD00-0AA0 Selector Switch for Ext. Unit	6AV7674-1ME00-0AA0 Key-operated Switch for Ext. Unit	6AV7674-1ME50-0AA0 Key-operated Switch Safety for Ext. Unit	6AV7674-1MF00-0AA0 USB interface for extension unit
General information				
Product type designation	Selector switch for Extension Unit	Key-operated switch for Extension Unit	Safety keyswitch for Extension Unit	USB interface for Extension Unit
Control elements				
Version of actuating element	Rotary handle, 3 switch positions	3 switch positions (withdrawal positions)	2 switch positions (pos. 0 removal position)	
Operating principle of the actuating element	Latching	Latching	Latching	
Shape of actuating element	Round	Round	Round	
Illuminant	Yes; Can be illuminated	No; Cannot be illuminated	No; Cannot be illuminated	
• Type of light source	SMT LED			
• Color of light source	Translucent white			
Contact configuration	2 NO contacts	2 NO contacts	2 NO contacts	
Connection type				
• USB				Yes; USB 2.0 type A
• Cable length				0.7 m

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Technical specifications (continued)

Article number	6AV7674-1MD00-0AA0 Selector Switch for Ext. Unit	6AV7674-1ME00-0AA0 Key-operated Switch for Ext. Unit	6AV7674-1ME50-0AA0 Key-operated Switch Safety for Ext. Unit	6AV7674-1MF00-0AA0 USB interface for extension unit
Installation type/mounting				
Mounting type	Threaded ring	Threaded ring	Threaded ring	Threaded ring
Front mounting	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	
Degree and class of protection				
IP (all-round)				IP65 fully enclosed (when protective cover is closed)
IP (at the front)	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP20 when protective cover is open
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes
UL approval	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes
cULus	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes
RCM (formerly C-TICK)	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes
KC approval				Yes
EAC (formerly Gost-R)				Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
• Condensation permissible	No	No	No	No
Operating systems				
Runs under operating system				
• other				Yes; Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 E/P, 32-bit / 64-bit
Cables				
Cable length				0.5 m
smallest bending radius				0 mm
Mechanics/material				
Material				aluminum
• plastic	Yes	Yes	Yes	
Material of the actuating element	plastic	plastic	plastic	
Material of the front ring	plastic	plastic	plastic	
Enclosure color (front)	gray	gray	gray	Silver metallic
Color of the front ring	Silver metallic	Silver metallic	Silver metallic	
Service life				
• Number of operating cycles, keys	300 000	50 000	50 000	1 500; Insertion cycles
Dimensions				
Height of housing front	22.24 mm	45.1 mm	45.1 mm	
mounting depth				10 mm
Mounting diameter	22.3 mm	22.3 mm	22.3 mm	22.3 mm
Weights				
Weight (without packaging)	50 g	50 g	50 g	0.13 g

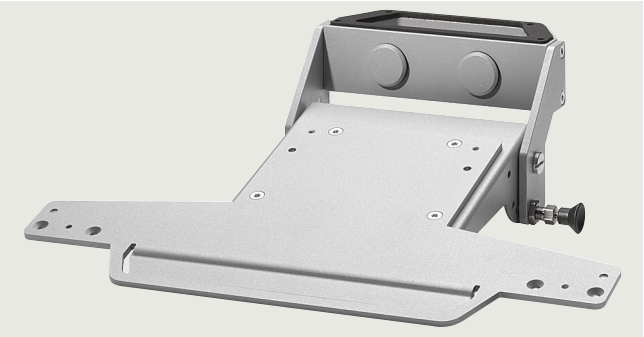
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Technical specifications (continued)

Article number	6AV7674-1MD00-0AA0 Selector Switch for Ext. Unit	6AV7674-1ME00-0AA0 Key-operated Switch for Ext. Unit	6AV7674-1ME50-0AA0 Key-operated Switch Safety for Ext. Unit	6AV7674-1MF00-0AA0 USB interface for extension unit
Scope of supply				
Delivery quantity in pieces	1	1; Including 2 keys	1; Including 2 keys	
Components included				USB socket with cable and connector, threaded ring
Other				
Target devices	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	suitable for Extension Units of the 16:9 HMI/IPC PRO devices as of TIA Portal V16 (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)
Note:			configurable as of TIA Portal V16	

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Overview



Extension components

The extension components are part of the system components for PRO devices and complement the portfolio of fully enclosed devices. These components in combination with the basic devices enable customers to implement a large variety of operating scenarios.

The following products are available as extension components:

- Keyboard tray for PRO devices
- Keyboard tray plate for PRO devices
- USB interface for PRO devices
- Handles for PRO devices (12" – 22" variant and 24" variant)

You can find suitable accessories that match the extension elements, such as INOX keyboards, in the category "Accessories" under "Input devices".

Selection and ordering data

Keyboard tray for PRO devices Tiltable, incl. 2-way USB interface; color: silver	**6AV7674-1NF01-0AA0**
Keyboard tray plate for PRO devices Tiltable, incl. 2-way USB interface; color: silver	**6AV7674-1NG00-0AA0**
USB interface for PRO devices Cable and connector, USB 2.0 type A. IP65 degree of protection if protective cover is closed. Integrated via cover on the side of the basic adapter	**6AV7674-1LX00-0AA0**
Handles for PRO devices For optimum handling and haptics when positioning and tilting the HMI PRO device. Universally adjustable from 12" to 22".	**6AV7674-1LB10-0AA0**
Handles for PRO devices 24"	**6AV7674-1LB15-0AA0**

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Technical specifications

Article number	6AV7674-1NF01-0AA0 Keyboard tray for PRO devices	6AV7674-1NG00-0AA0 Keyboard tray plate for HMI PRO devices
General information		
Product type designation	keyboard tray	storage plate
Mechanics/material		
Material		
• plastic	No	
• Aluminum	Yes; Powder-coated	
• Sheet metal	No	
• Stainless steel	No	
• PET	No	

Article number	6AV7674-1LB15-0AA0 Handles for HMI PRO devices 24"
General information	
Product type designation	Handles for HMI PRO devices 24"
Degree and class of protection	
IP (all-round)	IP65 when installed
NEMA (front)	
• Enclosure Type 4 at the front	Yes
Standards, approvals, certificates	
RoHS conformity	Yes
Mechanics/material	
Material	
• Aluminum	Yes; Powder-coated, RAL 9006
Weights	
Weight (without packaging)	1.9 kg
Scope of supply	
Delivery quantity in pieces	1
Components included	Screws for attachment
Other	
Target devices	PRO devices for support arm (extendable, round tube) and pedestal (extendable, flange below)

Article number	6AV7674-1LX00-0AA0 USB Interface for Pro Devices
General information	
Product type designation	USB interface for PRO devices
Control elements	
Connection type	
• USB	Yes; USB 2.0 type A
• Cable length	0.5 m
Installation type/mounting	
Mounting	Integrated by means of cover on the side of the basic adapter.
Degree and class of protection	
IP (all-round)	IP65 fully enclosed (when protective cover is closed)
IP (at the front)	IP20 when protective cover is open
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 500 m
Relative humidity	
• Operation, max.	90 %

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Technical specifications (continued)

Article number	6AV7674-1LX00-0AA0 USB Interface for Pro Devices
• Condensation permissible	No
Cables	
Cable length	0.5 m
Mechanics/material	
Material	Brass, nickel-plated
Enclosure material (front)	USB cover: Anodized aluminum, cover for basic adapter: Aluminum, powder-coated, RAL 9006
Enclosure color (front)	Silver metallic
Service life	
• Number of operating cycles, keys	1 500; Insertion cycles
Dimensions	
Enclosure diameter	22.5 mm; Hole diameter in the cover for the basic adapter
mounting depth	20 mm
Weights	
Weight (without packaging)	0.25 kg
Scope of supply	
Delivery quantity in pieces	1
Components included	USB socket with cable and connector, cover for the basic adapter, bolts for fastening

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Overview

SIMATIC Mobile Panels

Mobile Panels 2nd Generation

The second generation of SIMATIC HMI Mobile Panels impresses with its convenience, performance and quality.

The highlights: A brilliant widescreen display, particularly simple configuration and the unique illuminated emergency stop button.

This series of devices offers Panels with 7", 9" and 10" displays, some of which are available with or without safety-related operator controls.

Mobile Panels of the 2nd Generation are the successors to the SIMATIC HMI Mobile Panels x77 with cable connections.

- SIMATIC HMI KTP400F Mobile
- SIMATIC HMI KTP700 Mobile
- SIMATIC HMI KTP700F Mobile
- SIMATIC HMI KTP700F Mobile HW
- SIMATIC HMI KTP700F Mobile HW/OR
- SIMATIC HMI KTP900 Mobile
- SIMATIC HMI KTP900F Mobile
- SIMATIC HMI TP1000F Mobile

Mobile Panels for low-temperature environment

SIMATIC HMI KTP700F Mobile Arctic is designed for use in weather-protected areas with low ambient temperatures down to -28 °C. For optimum operation even at low temperatures, a touch pen has been integrated in the front panel at the center underneath the display.

The operator panel has the same functionality as the SIMATIC HMI Mobile Panels 2nd Generation and is integrated in the "Totally Integrated Automation Portal" engineering framework.

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Overview



- SIMATIC HMI KTP700F Mobile HW
- SIMATIC HMI KTP700F Mobile HW/OR
- SIMATIC HMI TP1000F Mobile
- SIMATIC HMI KTP400F Mobile
- SIMATIC HMI KTP700 Mobile
- SIMATIC HMI KTP700F Mobile
- SIMATIC HMI KTP900 Mobile
- SIMATIC HMI KTP900F Mobile

Selection and ordering data

SIMATIC Mobile Panels 2nd Generation [1]	
SIMATIC HMI KTP700F Mobile HW 7.0" TFT display, 800 x 480 pixels, 16 million colors, key and touch operation, 6 function keys, 2 illuminated pushbuttons, 1x PROFINET/Industrial Ethernet interface, 1x Multimedia card, 1x USB, key-operated switch, acknowledgment button, emergency stop/stop button, handwheel, configurable as from WinCC Comfort V15	**6AV2145-8GB00-0AA0**
SIMATIC HMI KTP700F Mobile HW/OR 7.0" TFT display, 800 x 480 pixels, 16 million colors, key and touch operation, 6 function keys, 2 illuminated pushbuttons, 1x PROFINET/Industrial Ethernet interface, 1x Multimedia card, 1x USB, key-operated switch, acknowledgment button, emergency stop/stop button, handwheel and override, configurable as from WinCC Comfort V15	**6AV2145-8GB01-0AA0**
SIMATIC HMI TP1000F Mobile 10.0" TFT display, 1 280 x 800 pixels, 16 million colors, touch operation, touch pen, 1x PROFINET/Industrial Ethernet interface, 1x Multimedia card, 1x USB, key-operated switch, acknowledgment button, emergency stop/stop pushbutton, configurable as from WinCC Comfort V14	**6AV2145-6KB20-0AS0**
KTP400F Mobile	**6AV2125-2DB23-0AX0**
KTP700 Mobile	**6AV2125-2GB03-0AX0**
KTP700F Mobile	**6AV2125-2GB23-0AX0**
KTP900 Mobile	**6AV2125-2JB03-0AX0**
KTP900F Mobile	**6AV2125-2JB23-0AX0**
Accessories	
Connecting cable and accessories for Mobile Panels	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

1) The system components (connecting cables and connection boxes) must be ordered separately.

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Technical specifications

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
General information			
Product type designation	KTP700F	KTP700F	TP1000F Mobile
Display			
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	7 in	7 in	10.1 in
Number of colors	16 777 216	16 777 216	16 777 216
Resolution (pixels)			
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h
Control elements			
Keyboard			
• Function keys			
- Number of function keys	6	6	0
Touch operation			
• Design as touch screen	Yes	Yes	Yes
• Design as multi-touch screen	No	No	No
Special operator controls			
• Stop button (forced blocking)	Yes	Yes	Yes
• Emergency stop button (illuminated and forced blocking)	Yes	Yes	Yes
• Acknowledgement button (3-stage)	Yes	Yes	Yes
• Key-operated switch	Yes	Yes	Yes
• Illuminated pushbutton	Yes	Yes	Yes
• Handwheel	Yes	Yes	No
Camera			
• integrated camera	No	No	No
Expansions for operator control of the process			
• DP direct LEDs (LEDs as S7 output I/O)			
- F1...Fx	6	6	0
• Direct keys (keys as S7 input I/O)			
- F1...Fx	6	6	0
• Direct keys (touch buttons as S7 input I/O)	32	32	0
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Storage			
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte
Time of day			
Clock			
• Hardware clock (real-time)	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	1	1	1
Number of PROFINET interfaces	1	1	1
Number of RS 485 interfaces	0	0	0
Number of USB interfaces	1; USB 2.0	1; USB 2.0	1; USB 2.0
Number of wireless interfaces	0	0	0
Number of SD card slots	1	1	1
Protocols			
PROFINET	Yes	Yes	Yes
PROFIsafe	Yes	Yes	Yes
PROFIBUS	No	No	No
EtherNet/IP	Yes	Yes	Yes
Protocols (Ethernet)			

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Technical specifications (continued)

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
• TCP/IP	Yes	Yes	Yes
• DHCP	Yes	Yes	Yes
• SNMP	Yes	Yes	Yes
• DCP	Yes	Yes	Yes
• LLDP	Yes	Yes	Yes
WEB characteristics			
• HTTP	Yes	Yes	Yes
• HTTPS	Yes	Yes	Yes
• HTML	Yes	Yes	Yes
• XML	No	No	No
• CSS	Yes	Yes	Yes
• Active X	No	No	No
• JavaScript	Yes	Yes	Yes
• Java VM	No	No	No
Further protocols			
• MODBUS	Yes	Yes	Yes
Communication functions			
Wireless communication			
• supported standards			
- Radio standard WLAN 802.11	No	No	No
- Bluetooth radio standard	No	No	No
Degree and class of protection			
IP65 (all-round)	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
UL approval	Yes	Yes	
cULus	Yes	Yes	Yes
FM approval	No	No	
RCM (formerly C-TICK)	Yes	Yes	Yes
KC approval	No	No	No
EAC (formerly Gost-R)	Yes	Yes	
Suitable for safety functions	Yes	Yes	Yes
Marine approval	No	No	No
Highest safety class achievable in safety mode			
• Performance level according to ISO 13849-1	PLe	PLe	PLe
• SIL acc. to IEC 61508	SIL 3	SIL 3	SIL 3
Use in hazardous areas			
• ATEX Zone 2	No	No	No
• ATEX Zone 22	No	No	No
• IECEx Zone 2	No	No	No
• IECEx Zone 22	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No
• cULus Class II Division 2	No	No	
• FM Class I Division 2	No	No	No
• FM Class II Division 2	No	No	
Ambient conditions			
Free fall			
• Fall height, max.	1.2 m	1.2 m	1.2 m
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %

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Technical specifications (continued)

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
Languages			
Online languages			
• Number of online/runtime languages	32	32	32
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser	Yes	Yes	Yes
• Pocket Word	No	No	No
• Pocket Excel	No	No	No
• PDF Viewer	Yes	Yes	Yes
• Media Player	No	No	No
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes
Task planner			
• time-controlled	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes
Multiproject			
• Number of projects (internal)	0	0	0
• Number of projects (external)	0	0	0
Message system			
• Bit messages			
- Number of bit messages	4 000	4 000	4 000
• Analog messages			
- Number of analog messages	200	200	200
• Message buffer			
- Number of entries	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe management			
• Number of recipes	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes
Variables			
• Number of variables per device	2 048	2 048	2 048
• Number of variables per screen	400	400	400
Images			
• Number of configurable images	500	500	500
Archiving			
• Number of archives per device	50	50	50
• Number of entries per archive	20 000	20 000	20 000
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
• SIMATIC Logon	Yes	Yes	Yes
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes
• WinAC	No	No	Yes; WinAC RTX
• SIMOTION	Yes	Yes	Yes
Peripherals/Options			
Printer	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
SIMATIC HMI MM memory card: Multi Media Card	Yes	Yes	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes
USB memory	Yes	Yes	Yes
Mechanics/material			
Enclosure material (front)			
• Plastic	Yes	Yes	Yes
• Aluminum	No	No	No
• Stainless steel	No	No	No
Dimensions			
Width of the housing front			307.5 mm
Height of housing front			223.5 mm
Weights			
Weight (without packaging)	1.3 kg	1.3 kg	1.6 kg

Article number	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
General information				
Product type designation	KTP700 Mobile	KTP700F Mobile	KTP900 Mobile	KTP900F Mobile
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	7 in	7 in	9 in	9 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)				
• Horizontal image resolution	800 pixel	800 pixel	800 pixel	800 pixel
• Vertical image resolution	480 pixel	480 pixel	480 pixel	480 pixel
Backlighting				
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h
Control elements				
Keyboard				
• Function keys				
- Number of function keys	8	8	10	10
Touch operation				
• Design as touch screen	Yes	Yes	Yes	Yes
• Design as multi-touch screen	No	No	No	No
Special operator controls				
• Stop button (forced blocking)	No	Yes	No	Yes
• Emergency stop button (illuminated and forced blocking)	No	Yes	No	Yes
• Acknowledgement button (3-stage)	No	Yes	No	Yes
• Key-operated switch	No	Yes	No	Yes
• Illuminated pushbutton	Yes	Yes	Yes	Yes
Camera				
• integrated camera	No	No	No	No
Expansions for operator control of the process				
• DP direct LEDs (LEDs as S7 output I/O)				
- F1...Fx	8	8	10	10
• Direct keys (keys as S7 input I/O)				
- F1...Fx	8	8	10	10
• Direct keys (touch buttons as S7 input I/O)	32	32	32	32
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V

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Technical specifications (continued)

Article number	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
Storage				
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
Time of day				
Clock				
• Hardware clock (real-time)	Yes	Yes	Yes	Yes
Interfaces				
Number of industrial Ethernet interfaces	1	1	1	1
Number of PROFINET interfaces	1	1	1	1
Number of RS 485 interfaces	0	0	0	0
Number of USB interfaces	1; USB 2.0	1; USB 2.0	1; USB 2.0	1; USB 2.0
Number of wireless interfaces	0	0	0	0
Number of SD card slots	1	1	1	1
Protocols				
PROFINET	Yes	Yes	Yes	Yes
PROFIsafe	No	Yes	No	Yes
PROFIBUS	No	No	No	No
EtherNet/IP	Yes	Yes	Yes	Yes
Protocols (Ethernet)				
• TCP/IP	Yes	Yes	Yes	Yes
• DHCP	Yes	Yes	Yes	Yes
• SNMP	Yes	Yes	Yes	Yes
• DCP	Yes	Yes	Yes	Yes
• LLDP	Yes	Yes	Yes	Yes
WEB characteristics				
• HTTP	Yes	Yes	Yes	Yes
• HTTPS	Yes	Yes	Yes	Yes
• HTML	Yes	Yes	Yes	Yes
• XML	No	No	No	No
• CSS	Yes	Yes	Yes	Yes
• Active X	No	No	No	No
• JavaScript	Yes	Yes	Yes	Yes
• Java VM	No	No	No	No
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Further protocols				
• MODBUS	Yes	Yes	Yes	Yes
Communication functions				
Wireless communication				
• supported standards				
- Radio standard WLAN 802.11	No	No	No	No
- Bluetooth radio standard	No	No	No	No
Degree and class of protection				
IP65 (all-round)	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
Suitable for safety functions	No	Yes	No	Yes
Marine approval	Yes	Yes	Yes	Yes
Highest safety class achievable in safety mode				
• Performance level according to ISO 13849-1	none	PLe	none	PLe

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Technical specifications (continued)

Article number	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
• SIL acc. to IEC 61508	No	SIL 3	No	SIL 3
Use in hazardous areas				
• ATEX Zone 2	No	No	No	No
• ATEX Zone 22	No	No	No	No
• IECEx Zone 2	No	No	No	No
• IECEx Zone 22	No	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No	No
• FM Class I Division 2	No	No	No	No
Ambient conditions				
Free fall				
• Fall height, max.	1.2 m	1.2 m	1.2 m	1.2 m
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
Languages				
Online languages				
• Number of online/runtime languages	32	32	32	32
Functionality under WinCC (TIA Portal)				
Applications/options				
• Web browser	Yes	Yes	Yes	Yes
• Pocket Word	No	No	No	No
• Pocket Excel	No	No	No	No
• PDF Viewer	Yes	Yes	Yes	Yes
• Media Player	No	No	No	No
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes
Task planner				
• time-controlled	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes
Multiproject				
• Number of projects (internal)	0	0	0	0
• Number of projects (external)	0	0	0	0
Message system				
• Bit messages				
- Number of bit messages	4 000	4 000	4 000	4 000
• Analog messages				
- Number of analog messages	200	200	200	200
• Message buffer				
- Number of entries	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes
Recipe management				
• Number of recipes	300	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes
Variables				
• Number of variables per device	2 048	2 048	2 048	2 048
• Number of variables per screen	400	400	400	400
Images				
• Number of configurable images	500	500	500	500
Archiving				

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Technical specifications (continued)

Article number	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
• Number of archives per device	50	50	50	50
• Number of entries per archive	20 000	20 000	20 000	20 000
Security				
• Number of user groups	50	50	50	50
• Number of users	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes
Process coupling				
• S7-1200	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes
• WinAC	Yes; WinAC RTX	Yes; WinAC RTX	Yes; WinAC RTX	Yes; WinAC RTX
• SIMOTION	Yes	Yes	Yes	Yes
Peripherals/Options				
Printer	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes	Yes	Yes	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes
Mechanics/material				
Enclosure material (front)				
• plastic	Yes	Yes	Yes	Yes
• Aluminum	No	No	No	No
• Stainless steel	No	No	No	No
Weights				
Weight (without packaging)	1.2 kg	1.3 kg	1.5 kg	1.6 kg

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Overview



Mobile Panels with emergency stop/stop buttons can be wired into the emergency stop circuit of a machine or plant by means of the connection boxes.

Pressing the emergency stop/stop button on the Mobile Panel activates the emergency stop function.

The emergency stop/stop button on the Mobile Panel supplements, but does not replace, the emergency stop equipment permanently installed on the machine.

Selection and ordering data

Connection boxes for SIMATIC Mobile Panels of 2nd Generation and Arctic Panel	
• Connection Box, Compact	**6AV2125-2AE03-0AX0**
• Connection Box, Standard	**6AV2125-2AE13-0AX0**
• Connection Box, Advanced	**6AV2125-2AE23-0AX0**
Connecting cable and accessories for Mobile Panels	See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

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Technical specifications

Article number	6AV2125-2AE03-0AX0 SIMATIC HMI Connection Box Compact	6AV2125-2AE13-0AX0 SIMATIC HMI Connection Box Standard	6AV2125-2AE23-0AX0 SIMATIC HMI Connection Box Advanced
General information			
Product type designation	Connection box	Connection box	Connection box
Product function			
• Web-based management	No	Yes	Yes
FH technology			
Safety evaluation through direct wiring			
• Reconnection without emergency stop circuit interruption	No	No	Yes
• Reconnection with emergency stop circuit interruption	Yes	Yes	No
• Monitoring the STOP button	Yes	Yes	Yes
• Monitoring of emergency stop button	Yes	Yes	Yes
• Monitoring of acknowledgement button	Yes	Yes	Yes
Safety evaluation via PROFIsafe			
• Reconnection without emergency stop circuit interruption	Yes	Yes	Yes
• Reconnection with emergency stop circuit interruption	No	No	No
• Monitoring the STOP button	Yes	Yes	Yes
• Monitoring of emergency stop button	Yes	Yes	Yes
• Monitoring of acknowledgement button	Yes	Yes	Yes
Installation type/mounting			
Wall mounting/direct mounting	No	Yes	Yes
Control cabinet installation	Yes	No	No
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Input current			
Current consumption (rated value)	18 mA	96 mA	95 mA
Starting current inrush I^2t	0.003 $A^2 \cdot s$	0.15 $A^2 \cdot s$	0.16 $A^2 \cdot s$
Power			
Active power input, typ.	0.43 W	2.3 W	2.3 W
Interfaces			
Number of industrial Ethernet interfaces	2	3	3
Number of PROFINET interfaces	2	3	3
Connection point identification	Yes	Yes	Yes
Industrial Ethernet			
• Industrial Ethernet status LED	0	3	3
Protocols			
PROFINET	Yes; No switch functionality	Yes	Yes
IRT	No	No	Yes
PROFIsafe	Yes; No switch functionality	Yes	Yes
EtherNet/IP	Yes	Yes	Yes
AS-Interface	No	No	No
EIB/KNX	No	No	No
Protocols (Ethernet)			
• TCP/IP	Yes; No switch functionality	Yes	Yes
• DHCP	No	Yes	Yes
• SNMP	No	Yes	Yes
• DCP	No	Yes	Yes
• LLDP	No	Yes	Yes
Redundancy mode			
- Media redundancy			
- MRP	No	No	Yes
Further protocols			
• MODBUS	Yes	Yes	Yes
• other bus systems	No	No	No

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Technical specifications (continued)

Article number	6AV2125-2AE03-0AX0 SIMATIC HMI Connection Box Compact	6AV2125-2AE13-0AX0 SIMATIC HMI Connection Box Standard	6AV2125-2AE23-0AX0 SIMATIC HMI Connection Box Advanced
Degree and class of protection			
IP degree of protection		IP65	IP65
IP65 (all-round)		Yes	Yes
IP (at the front)	IP65	IP65	IP65
IP (rear)	IP20		
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
cULus	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes
KC approval	No; in preparation	No; in preparation	No; in preparation
Suitable for safety functions	Yes	Yes	Yes
Highest safety class achievable in safety mode			
• Performance level according to ISO 13849-1	PLe	PLe	PLe
• SIL acc. to IEC 61508	SIL 3	SIL 3	SIL 3
Use in hazardous areas			
• ATEX Zone 2	No	No	No
• ATEX Zone 22	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No
• FM Class I Division 2	No	No	No
Marine approval			
• Germanischer Lloyd (GL)	Yes	Yes	Yes
• American Bureau of Shipping (ABS)	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes
• Polski Rejestr Statkow (PRS)	No	No	No
• Chinese Classification Society (CCS)	Yes	Yes	Yes
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
Configuration			
Configuration software			
• STEP 7 Professional (TIA Portal)	No	No	No
• WinCC Comfort (TIA Portal)	No	Yes; Optional	Yes; Optional
• WinCC Advanced (TIA Portal)	No	Yes; Optional	Yes; Optional
• WinCC Professional (TIA Portal)	No	Yes; Optional	Yes; Optional
Mechanics/material			
Enclosure material (front)			
• plastic	Yes	Yes	Yes
• Aluminum	No	No	No
• Stainless steel	No	No	No
Dimensions			
Width	96 mm	230 mm	230 mm
Height	125 mm	151.5 mm	151.3 mm
Depth	77.9 mm	75.4 mm	75.4 mm
Mounting cutout, width	78 mm		
Mounting cutout, height	107 mm		
mounting depth	30 mm		

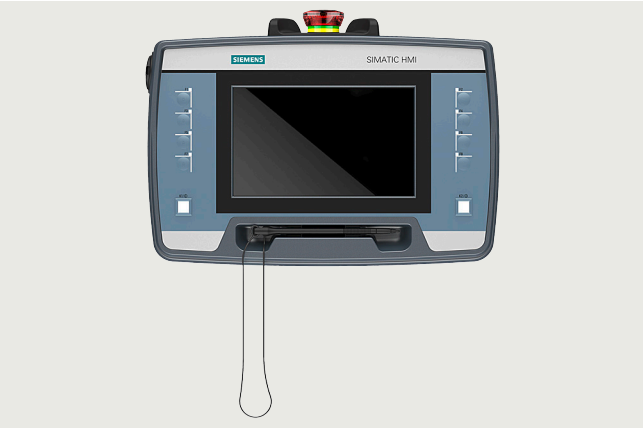
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Technical specifications (continued)

Article number	6AV2125-2AE03-0AX0 SIMATIC HMI Connection Box Compact	6AV2125-2AE13-0AX0 SIMATIC HMI Connection Box Standard	6AV2125-2AE23-0AX0 SIMATIC HMI Connection Box Advanced
Weights			
Weight (without packaging)	0.25 kg	0.72 kg	0.72 kg

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Overview



SIMATIC HMI KTP700F MOBILE ARCTIC

SIMATIC HMI KTP700F Mobile Arctic

The operator panel with glass touch screen is designed for use in weather-protected areas with low ambient temperatures, e.g. in cooling technology.

It has the same functionality as the SIMATIC HMI Mobile Panels 2nd Generation and is configured exclusively with the innovative HMI software WinCC.

The engineering software is integrated into the "Totally Integrated Automation Portal" engineering framework. WinCC (TIA Portal) as of V15.1 is required to configure the device.

Selection and ordering data

SIMATIC HMI KTP700F Mobile Arctic Extended operating temperature range, 7.0" TFT display, 800 x 480 pixels, 16 million colors, key and touch operation, 8 function keys, 1x PROFINET/Industrial Ethernet interface, 1x Multimedia card, 1x USB, 1x touch pen, key-operated switch, acknowledgment button, emergency stop/stop button, configurable as of WinCC Comfort V15.1	**6AV2145-6GB06-0AA0**
Accessories	
Connection boxes, Compact and Advanced	See System components for Mobile Panels
Connecting cable	Connecting cable KTP Mobile

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Technical specifications

Article number	6AV2145-6GB06-0AA0 SIMATIC HMI KTP700F Mobile Arctic
General information	
Product type designation	KTP700F Mobile Arctic
Display	
Design of display	TFT, bonded, daylight-readable
Screen diagonal	7 in
Number of colors	16 777 216
Resolution (pixels)	
• Horizontal image resolution	800 pixel
• Vertical image resolution	480 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Keyboard	
• Function keys	
- Number of function keys	8
Touch operation	
• Design as touch screen	Yes
• Design as multi-touch screen	No
Special operator controls	
• Stop button (forced blocking)	Yes
• Emergency stop button (illuminated and forced blocking)	Yes
• Acknowledgement button (3-stage)	Yes
• Key-operated switch	Yes
• Illuminated pushbutton	Yes
Camera	
• integrated camera	No
Expansions for operator control of the process	
• DP direct LEDs (LEDs as S7 output I/O)	
- F1...Fx	8
• Direct keys (keys as S7 input I/O)	
- F1...Fx	8
• Direct keys (touch buttons as S7 input I/O)	32
Supply voltage	
Rated value (DC)	24 V
Storage	
Memory available for user data	12 Mbyte
Time of day	
Clock	
• Hardware clock (real-time)	Yes
Interfaces	
Number of industrial Ethernet interfaces	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	0
Number of USB interfaces	1; USB 2.0
Number of wireless interfaces	0
Number of SD card slots	1
Protocols	
PROFINET	Yes
PROFIsafe	Yes
PROFIBUS	No
EtherNet/IP	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes

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Technical specifications (continued)

Article number	6AV2145-6GB06-0AA0 SIMATIC HMI KTP700F Mobile Arctic
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	No
• CSS	Yes
• Active X	No
• JavaScript	Yes
• Java VM	No
Further protocols	
• MODBUS	Yes
Communication functions	
Wireless communication	
• supported standards	
- Radio standard WLAN 802.11	No
- Bluetooth radio standard	No
Degree and class of protection	
IP65 (all-round)	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	No
Suitable for safety functions	Yes
Marine approval	No
Highest safety class achievable in safety mode	
• Performance level according to ISO 13849-1	PLe
• SIL acc. to IEC 61508	SIL 3
Use in hazardous areas	
• ATEX Zone 2	No
• ATEX Zone 22	No
• IECEx Zone 2	No
• IECEx Zone 22	No
• cULus Class I Zone 2, Division 2	No
• cULus Class II Division 2	No
• FM Class I Division 2	No
• FM Class II Division 2	No
Ambient conditions	
Free fall	
• Fall height, max.	1.2 m
Ambient temperature during operation	
• min.	-28 °C
• max.	45 °C
Relative humidity	
• Operation, max.	90 %; no condensation
Languages	
Online languages	
• Number of online/runtime languages	32
Functionality under WinCC (TIA Portal)	
Applications/options	
• Web browser	Yes
• Pocket Word	No

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Technical specifications (continued)

Article number	6AV2145-6GB06-0AA0 SIMATIC HMI KTP700F Mobile Arctic
• Pocket Excel	No
• PDF Viewer	Yes
• Media Player	No
• SIMATIC WinCC Sm@rtServer	Yes
• SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
• task-controlled	Yes
Multiproject	
• Number of projects (internal)	0
• Number of projects (external)	0
Message system	
• Bit messages	
- Number of bit messages	4 000
• Analog messages	
- Number of analog messages	200
• Message buffer	
- Number of entries	1 024
- Circulating buffer	Yes
- retentive	Yes
Recipe management	
• Number of recipes	300
• Size of internal recipe memory	2 Mbyte
• Recipe memory expandable	Yes
Variables	
• Number of variables per device	2 048
• Number of variables per screen	400
Images	
• Number of configurable images	500
Archiving	
• Number of archives per device	50
• Number of entries per archive	20 000
Security	
• Number of user groups	50
• Number of users	50
• SIMATIC Logon	Yes
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes; WinAC RTX
• SIMOTION	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Mechanics/material	
Enclosure material (front)	
• plastic	Yes
• Aluminum	No
• Stainless steel	No

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Technical specifications (continued)

Article number	6AV2145-6GB06-0AA0 SIMATIC HMI KTP700F Mobile Arctic
Weights	
Weight (without packaging)	1.3 kg

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Overview





System components for SIMATIC Mobile Panels are perfectly matched to the SIMATIC Mobile Panels. Charging stations, transponders, and diverse connection boxes are available for various applications.

Accessories for SIMATIC Mobile Panels can be found under "Accessories".

Only the latest accessories are listed in this section; the full range of accessories is available in SiePortal and in our other online media.

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Overview

The SIMATIC Thin Clients are cost-effective operator terminals that support different protocols and can thus be flexibly connected via PROFINET / Ethernet.

Available:

- SIMATIC Industrial Thin Client
- SIMATIC Industrial Thin Client PRO

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Overview

SIMATIC Industrial Web Panels Advanced from 12 to 24 inches are available now.

The new generation of Advanced HMI devices from 12 to 24 inches are the devices of the new SIMATIC Industrial Web Panels family. Compared to its predecessors, it is characterized by numerous improvements – for example, in terms of user friendliness.

SIMATIC Industrial Web Panels Advanced from 12 to 24 inches are available now.
The new generation of Advanced HMI devices from 12 to 24 inches are the devices of the new SIMATIC Industrial Web Panels family. Compared to its predecessors, it is characterized by numerous improvements – for example, in terms of user friendliness.

Thanks to their capacitive glass front with multi-touch technology, the Industrial Web Panels are as convenient to use as a smartphone or tablet. The sharp colors and high contrast improve the readability and ease of use. You operate your customized HTML 5 web application on a SIMATIC IPC, an Open Controller or a Unified Runtime Panel via the integrated browser.

Highlights at a glance

Software features:

WebClient with HTML5 web browser in kiosk mode

Flexible IWP software for customer-specific applications

Unique selling propositions

Current HTML5 browser for client visualization

Freely configurable software keys

Area of application

Complex web applications

Web server, e.g. SIMATIC S7 web server

Unified Web Client

Industrial Security Integrated

The proprietary operating system based on SIMATIC Industrial OS offers maximum security.

Devices

Thanks to the multi-touch technology, the Industrial Web Panels Advanced are optimized for industrial environments. They are available in five display sizes.

All devices come with the same number of hardware interfaces and the same functionality – select the suitable device for your needs based on the screen size.

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Freely configurable software keys

Area of application

Complex web applications

Web server, e.g. SIMATIC S7 web server

Unified Web Client

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All devices come with the same number of hardware interfaces and the same functionality – select the suitable device for your needs based on the screen size.

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Overview



IWP10F Mobile WebClient

IWP10F Mobile WebClient is an operator control and display device in rugged design.

Equipped with a capacitive multi-touch screen as well as hardwired safety elements and PROFINET, the HMI device is optimally equipped for various applications and offers additional flexibility in any application.

Selection and ordering data

SIMATIC HMI IWP10F Mobile WebClient Mobile WebClient, 10.0" TFT display, 1280x800 pixels, 16 million colors, multi-touch, 7 function keys, handwheel, PROFINET/Industrial Ethernet interface, USB, acknowledgment button, emergency stop button	**6AV2145-6KM00-0AA0**
Accessories	
Connecting cable	
• 2 m	**6XV1440-4BH20**
• 5 m	**6XV1440-4BH50**
• 8 m	**6XV1440-4BH80**
• 10 m	**6XV1440-4BN10**
• 15 m	**6XV1440-4BN15**
• 20 m	**6XV1440-4BN20**
• 25 m	**6XV1440-4BN25**
Connection boxes	
• compact	**6AV2125-2AE03-0AX0**
• standard	**6AV2125-2AE13-0AX0**
• advanced	**6AV2125-2AE23-0AX0**
Wall-mounting bracket	**6FC5348-0AA20-0AA0**

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Technical specifications

Article number	6AV2145-6KM00-0AA0 IWP10F Mobile WebClient
General information	
Product type designation	IWP10F Mobile WebClient
Display	
Design of display	10" TFT multi-touch
Screen diagonal	10 in
Resolution (pixels)	
• Horizontal image resolution	1 280 pixel
• Vertical image resolution	800 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C
Control elements	
Keyboard	
• Function keys	Yes
- Number of function keys	7
Touch operation	
• Design as touch screen	Yes
• Design as multi-touch screen	Yes; Projective-capacitive
Special operator controls	
• Emergency stop button (illuminated and forced blocking)	Yes
• Acknowledgement button (3-stage)	Yes
• Handwheel	Yes
Expansions for operator control of the process	
• DP direct LEDs (LEDs as S7 output I/O)	
- F1...Fx	7
• Direct keys (keys as S7 input I/O)	
- F1...Fx	7
Supply voltage	
Rated value (DC)	24 V
Interfaces	
Number of industrial Ethernet interfaces	1
Number of USB interfaces	1
Number of wireless interfaces	0
Number of SD card slots	0
Protocols	
PROFINET	Yes
PROFIsafe	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes; HTML5
• XML	Yes
• CSS	Yes
• Active X	No
• JavaScript	Yes
• Java VM	No
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	No
EAC (formerly Gost-R)	No

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Technical specifications (continued)

Article number	6AV2145-6KM00-0AA0 IWP10F Mobile WebClient
CCC	No
Suitable for safety functions	Yes
Marine approval	No
Highest safety class achievable in safety mode	
• Performance level according to ISO 13849-1	PLe
• SIL acc. to IEC 61508	SIL 3
Ambient conditions	
Free fall	
• Fall height, max.	1.2 m
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Relative humidity	
• Operation, max.	95 %; no condensation
Languages	
Online languages	
• Number of online/runtime languages	5; de, en, fr, it, es
Functionality under WinCC (TIA Portal)	
Variables	
• Number of variables per screen	200
Peripherals/Options	
USB memory	Yes; USB storage medium can be connected
Mechanics/material	
Enclosure material (front)	
• plastic	Yes
Weights	
Weight (without packaging)	1.5 kg

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Overview

SIMATIC Advanced HMI – efficient realization of even the most demanding and sophisticated HMI tasks

A PC-based system is recommended if the production places particularly high demands on the quantity and type of information to be processed and documented.

It offers the appropriate options for sufficient storage space, processor performance and data connection. The user can either opt for a centralized solution in which the visualization and PC are combined in a single unit, or for a distributed solution with an industrial monitor as Thin Client.

SIMATIC Industrial Panel PCs

The most complex visualization and control tasks can be realized centrally on the machine with extremely compact industrial panel PCs. You can always find an optimum solution in our portfolio – from the embedded to the high-end industrial PC – to meet the many requirements of manufacturing and process automation.

SIMATIC IFP and SIMATIC ITC

Two innovative options are available for distributed control concepts. SIMATIC industrial monitors and Thin Clients are used as a desktop device for control rooms, as a built-in unit for operator panel or as PC-based visualization and control solution in which the operating unit is operated separately.

The following modules are available:

- Panel PC
- Industrial monitors and Thin Clients
- Software packages

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Overview



SIMATIC Panel PCs are suitable thanks to their high industrial compatibility for use in control cabinets, consoles and control panels, as well as directly on the machine. Typical areas of application can be found in both factory and process automation.

There is a broad range of robust, high-performance SIMATIC Panel PCs available for different requirements.

Shared industrial functionality

- High-quality components and modules with a high MTBF (mean time between failure), which also ensure 24-hour operation in the extended temperature range
- High swing/shock capacity of the devices through special hard-disk suspensions, locked connectors and card retainers
- Rugged housing model with high electromagnetic compatibility (EMC) and integrated industrial power supplies (also in accordance with NAMUR)
- Service-friendly device design
- Bright, brilliant displays in different sizes from 7" to 22"
- Rugged fronts protected from dust, humidity and chemical substances (front-side IP65 degree of protection)

SIMATIC IPC277: The Panel PC with optimized performance – maintenance-free and compact with displays from 7"

- High degree of flexibility for selecting rugged widescreen fronts from 7" to 19" for a more freely configurable display area
- High resolution, large viewing angle, and up to 100% dimmable backlighting for a brilliant display with optimized power consumption
- Absolutely maintenance-free due to the use of CompactFlash/CFast or SSD as mass storage and fanless operation up to 50 °C ambient temperature
- Maximum industrial functionality due to non-volatile retentive memory (option)
- Ready-to-use embedded bundles with visualization and/or control software

Overview (continued)

SIMATIC IPC377: the industrial Basic Panel PC at an appealing price

- Low-cost platform for visualization in the industrial and industry-oriented field
- Flexible installation in the control cabinet or via VESA, as well as simple connection of I/O devices due to a large number of interfaces
- Fanless industrial design
- Available directly ex stock

SIMATIC IPC PX-32: Panel PC without fan with attractive price/performance ratio

- Single-touch
- Compact design
- High performance with highly compact design and ruggedness
- No rotating parts (without fan and hard disk)
- Ready-to-use devices with optionally preinstalled software

SIMATIC IPC PX-39: The powerful embedded Panel PC – maintenance-free with versatile configuration

- Multi-touch
- Compact design
- High performance with highly compact design and ruggedness
- Flexible expansion using a PCIe I/O card (optional)
- No rotating parts (without fan and hard disk)
- High security due to use of the operating system
- Retentive memory (NV-RAM, can be used with Software Controller)
- Available as PRO version (fully-enclosed IP65 degree of protection) with multi-touch

SIMATIC IPC677: The high-end Panel PC – with maximum performance, functional scope and expansion capability

- Rugged, expandable industrial PC with choice of operating units (front panels)
- Rugged design for industrial use
- Complete PC openness
- Optional PROFIBUS or PROFINET onboard
- All processors with Dual-Core

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Technical specifications

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
General information							
Product type designation	IPC277G	IPC277E	IPC377G	PX-32A	PX-39A	IPC477E	IPC677E
Installation type/mounting							
Mounting	For horizontal and vertical mounting		Panel mount and VESA, horizontal and vertical	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit
maximum permissible installation angle +/-	45°	45°					
Supply voltage							
Type of supply voltage	24 V DC	24 V DC	24 V DC	9 - 36 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange); 24 V DC
Rated value (DC)	24 V				24 V	24 V; PELV / SELV floating	
Rated value (AC)					240 V		
Line frequency							
• Rated value 50 Hz					Yes	Yes	Yes
• Rated value 60 Hz					Yes	Yes	Yes
Mains buffering							
• Mains/voltage failure stored energy time	20 ms	20 ms	10 ms	20 ms	20 ms	20 ms	20 ms
Input current							
Current consumption (rated value)					5 A; at 24 V DC and without load		
Current consumption, max.					5 A; At 24 V DC		
Inrush current, max.					75 A		
Processor							
Processor type	Intel Atom X6211E / X6413E / X6414RE	Intel Celeron N2807 / N2930	Intel Atom X6413E	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)
Chipset	SoC	SoC		Intel® RM590E	Intel® RM590E	Intel C236 / Intel H110	Intel C246
Graphic							
Graphics controller	Integrated	Integrated		Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)	Intel HD graphics controller	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)
Drives							
Hard disk				M.2 SSD ≥ 240 GB	M.2 SSD ≥ 240 GB	2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB
SSD	Yes; 256 Eco / 240 / 480 GB	Yes; 256 Eco / 240 / 480 GB		Yes; ≥ 240 GB optional	Yes; ≥ 240 GB optional, RAID1 optional	Yes; 128 / 240 / 480 GB	Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay
Storage							
Type of memory	DDR4 SO-DIMM	DDR3L SO-DIMM	DDR4	DDR4-3200 SO-DIMM	DDR4-3200 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2666 DIMM
Main memory	4 / 8 / 16 GB; inband ECC optional	2 / 4 / 8 GB	4 GB, 8 GB,16 GB	4 / 8 / 16 / 32 GB	4 / 8 / 16 / 32 GB; ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 / 32 / 64 GB

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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
Data areas and their retentivity							
Retentive data area (incl. timers, counters, flags), max.		512 kbyte; 128 KB can be stored in the buffer time; optional			512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration							
Slots							
• free slots	2x M.2		2x M.2		1x PCIe; optional: 1x PCIe (x4), with card retainer	1x PCIe (slot with card retainer), 1x slot for CFAST card	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
Interfaces							
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)	2; 2x Ethernet (RJ45)	2; 2x RJ45 (independent)	2; 2x Gigabit Ethernet (IE/PN), RJ45	4; 4x Gigabit Ethernet (IE/PN)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2 10 GB/s + 2x USB 2.0 pin header	1x USB 3.0 / 3x USB 2.0 (7" / 9": 2x USB 2.0)		4x USB 3.2 Gen2	4x USB 3.2 Gen2	4x USB 3.0	6x USB 3.1 Gen. 2 (2x type C)
Connection for keyboard/mouse	USB / USB	USB / USB		USB / USB	USB / USB	USB / USB	USB / USB
serial interface	without / 1x / 2x COM (RS 232 / 485 / 422; selectable)	1x COM (1x RS 232 / 422 / 485), selectable in the BIOS		2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)	1x / 2x (optional) COM (RS 232 / 485 / 422; selectable)	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	1x COM
Video interfaces							
• Graphics interface	2x DisplayPort	1x DisplayPort	2x DisplayPort	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit	2x DisplayPort	2x DisplayPort; 1x DVI-D
Industrial Ethernet							
• Industrial Ethernet interface	3x Ethernet (RJ45)	2x Ethernet (RJ45)	2x Ethernet (RJ45)	2x Ethernet (RJ45)	4x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protocols							
Protocols (Ethernet)							
• TCP/IP			Yes				
• DHCP	Yes						
Interrupts/diagnostics/status information							
LED status display	No	No	POWER, HDD	No	No		1x power, 3x user
Integrated Functions							
Monitoring functions							
• Temperature monitoring	Yes	Yes	Yes	No	Yes	Yes	Yes
• Watchdog	Yes	Yes	Yes	No	Yes	Yes	Yes
• Fan	No	No	No	No	No	No	Yes
• Monitoring function via network	Optional	Optional		Optional	Optional	Optional	Optional
EMC							
Interference immunity against discharge of static electricity							
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields							
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to 2.7 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6	10 V/m for 80 ... 1 000 MHz, 80 % AM according to IEC 61000-4-3; 3 V/m for 1.4 ... 6 GHz, 80 % AM according to IEC 61000-4-3	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference							

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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m		±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m		±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge							
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric		±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields							
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8		100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference							
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	Noise emission: EN 61000-6-4:2007 +A1:2011 (industrial environments), CISPR 22 Class B, FCC Class A		IEC 61000-6-4, CAN/CSA CISPR 32 class B, FCC class A	IEC 61000-6-4, CAN/CSA CISPR 32 class B, FCC class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection							
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	20	IP20	IP40	IP20	IP20	IP20	IP20
Standards, approvals, certificates							
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark				Yes	Yes		
CSA approval			Yes	Yes	Yes	Yes	
UL approval		Yes	Yes	Yes; UL 61010-2-201 Second Edition, File E472609	Yes; UL 61010-2-201 Second Edition, File E85972	Yes	Yes
• UL 508		Yes		No	No	Yes	
cULus	Yes	Yes		Yes	Yes	Yes	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	No; in preparation	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes		Yes	No	Yes	Yes	Yes
FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BSMI			Yes	No; in preparation	No; in preparation		
BIS				Yes	Yes		
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005	CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005		CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	EN 61000-6-1, EN 61000-6-2, EN 61000-6-4, CAN/CSA CISPR 32 class A, EN 55032 class B, FCC class A, KN32	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Dust protection			Protection against foreign bodies > 1 mm				
Use in hazardous areas							

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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
• ATEX Zone 2				No		Yes; for inscription on device rating plate	Yes; Optional
• ATEX Zone 22						Yes; for inscription on device rating plate	Yes; Optional
• IECEx Zone 2				No		Yes; for inscription on device rating plate	Yes; Optional
• IECEx Zone 22						Yes; for inscription on device rating plate	Yes; Optional
• CCC Ex						Yes; for inscription on device rating plate	Yes; Optional
• cULus Class I Zone 2, Division 2				No		Yes; for inscription on device rating plate	Yes; Optional
• cULus Class II Division 2						Yes; for inscription on device rating plate	Yes; Optional
• FM Class I Division 2						No	
• FM Class II Division 2						No	
Marine approval							
• Germanischer Lloyd (GL)		Yes; 7", 9", 12" single-touch		No	Yes	Yes	
• American Bureau of Shipping (ABS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Bureau Veritas (BV)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Det Norske Veritas (DNV)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Korean Register of Shipping (KRS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Lloyds Register of Shipping (LRS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Nippon Kaiji Kyokai (Class NK)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Chinese Classification Society (CCS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT					Yes; Only with SSD
Ambient conditions							
Ambient temperature during operation							
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	5 °C
• max.	50 °C; from 19", 22", 24": max. 45 °C	50 °C; 19": max. 45 °C	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C	50 °C	45 °C	45 °C
Relative humidity							
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	max. 85% at 30 °C, no condensation, gradient <= 10 °C/h	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
• Operation, max.	85 %		85 %	85 %	85 %		
Vibrations							

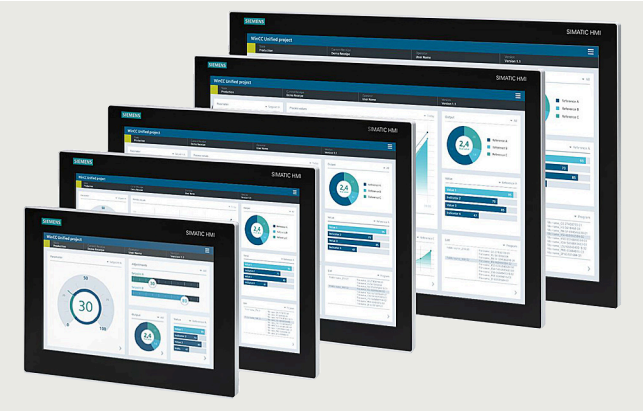
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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)
Shock testing							
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	Tested according to IEC 60068-2-27: 50 m/s², 30 ms	tested according to IEC 60068-2-27: 150 m/s², 11 ms; 5 g, 30 ms	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks
Operating systems							
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 E/P, 32-bit / 64-bit		Windows 10 IoT Enterprise 2021 LTSC, Industrial OS	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI
Additional info on operating system		optional: SIMATIC Industrial OS					
without operating system	Yes; Optional	Yes; Optional	Yes	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional
Software							
SIMATIC Software	Optional package with SIMATIC WinCC	Optional package with SIMATIC WinCC or WinAC RTX			Optional package with SIMATIC WinCC	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	
Dimensions							
Width			652 mm				
Height			443 mm				
Depth			209 mm				

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Overview



SIMATIC industrial monitors in industry-standard design are fail-safe and durable. This means that a wide range of operating concepts can be implemented, e.g. as a built-in device for control panels or as a PC-based visualization and control solution that is installed separately from the industrial PC.

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Overview

The SIMATIC Basic Panel, Comfort Panel and Mobile Panel offer HMI functionality for the control systems:

- SIMATIC S7
- Non-Siemens controllers:
  - Allen Bradley
  - Mitsubishi
  - Modicon
  - Omron

For more detailed information, refer to the WinCC (TIA Portal) user manual, the "Windows-based systems communication" manual, or the WinCC (TIA Portal) online help.

OPC communication and HTTP communication are offered for Comfort Panels and Mobile Panels with an integrated Ethernet interface. Both OPC and HTTP communication can be used in parallel with the process links to SIMATIC S7 or non-Siemens PLCs.

Note:

Interface options for HMI devices: See the individual device descriptions.

OPC communication

OPC Data Access is an open standard for exchanging both local and remote variables between various applications via Industrial Ethernet.

HTTP communication for variable exchange between SIMATIC HMI systems

Communication based on HTTP message frames enables variables to be exchanged between SIMATIC HMI systems.

Communication standard	SIMATIC HMI			
Version	Comfort Panel	Mobile Panel 177 PN/ 277	Mobile Panel KTPx00	WinCC Runtime Advanced
OPC Data Access V2.05a + OPC UA Data Access V1.01 + OPC Data Access XML V1.00				
OPC DA client (COM/DCOM)	–	–	–	•
OPC DA server (COM/DCOM)	–	–	–	•
OPC UA DA client	•	–	•	•
OPC UA DA server	•	–	•	•
HTTP communication for variable exchange between SIMATIC HMI systems				
HTTP client	•	•	•	•
HTTP server	•	•	•	•

• System interface possible
– System interface not possible

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Overview

The following types of interface are differentiated in respect of the link between the SIMATIC Panels and SIMATIC S7 controllers:

- PROFINET interface:
  Coupling of SIMATIC Panel to SIMATIC S7 controllers via Industrial Ethernet TCP/IP using the integrated PROFINET interface of the CPU or, alternatively, a PROFINET interface module.
- MPI/PROFIBUS interface:
  Coupling of SIMATIC Panel to SIMATIC S7 controllers via MPI/PROFIBUS using the integrated MPI/PROFIBUS interface of the CPU or the integrated PPI interface of the CPU in the case of S7-200 or, alternatively, a PROFIBUS interface module in the case of S7-1200, S7-1500, S7-300 and S7-400.
- PPI interface:
  Coupling of SIMATIC Panel to SIMATIC S7-200 via PPI network using the integrated PPI interface of the CPU.

The maximum possible number of S7 connections of one CPU is determined by its performance capacity (see Catalog ST 70); from the point of view of the SIMATIC Panel, the following restrictions apply:

- Basic Panel, Comfort Panel 4", Mobile Panel 177: max. 4 connections
- Comfort Panels from 7" to 22" (incl. Outdoor), Mobile Panel 2nd Generation: max. 8 connections
- Mobile Panel 277: max. 6 connections
- PC with WinCC Runtime Advanced: max. 8 connections

PPI interface

The PPI interface is a point-to-point connection between a SIMATIC Panel (PPI master) or alternatively a PG (PPI master) and an S7-200 (PPI slave).

MPI/PROFIBUS interface or PROFINET interface

The corresponding multipoint-enabled SIMATIC Panel and SIMATIC S7 communication interfaces are used.
The following are possible:

- Interface between one or more SIMATIC Panels (MPI master) and one or more S7-1200/S7-1500/S7-300/S7-400s or WinAC (MPI master) (possible network topology: MPI/PROFIBUS or Industrial Ethernet TCP/IP)
- Interface between one or more SIMATIC Panels (MPI master) and one or more S7-200s (MPI slave)[1] (possible network topology: PPI, MPI/PROFIBUS)

Unlike PPI connections, MPI connections are static connections that are set up during run-up and then monitored.

In principle this type of information exchange between SIMATIC Panels and SIMATIC S7 is independent of the network used, PPI, MPI/PROFIBUS or Industrial Ethernet: SIMATIC Panels are S7 clients and SIMATIC S7 CPUs are S7 servers.

Controller	SIMATIC HMI					
Target hardware (PROTOCOL) (physics)	**Basic Panel**	**Comfort Panel**	**Mobile Panel 177 DP / PN [1]**	**Mobile Panel 277 [1]**	**KTPx00(F) Mobile [1]**	**WinCC Runtime Advanced**
SIMATIC S7-1200 [2]						
over Ethernet (TCP/IP)	• [3]	•	• [3]	•	•	•
over MPI or PROFIBUS network	• [4]	•	• [3]	•	–	• [5]
SIMATIC S7-1500 [2]						
over Ethernet (TCP/IP)	• [3]	•	• [3]	•	•	•
over PROFIBUS network	• [3]	•	• [3]	•	–	• [5]
SIMATIC S7-300, -400, WinAC [2]						
over Ethernet (TCP/IP)	• [3]	•	• [3]	•	•	•
over MPI or PROFIBUS network		•	• [4]	•	–	• [5]
SIMATIC S7-200 [2]						
over Ethernet (TCP/IP) (MPI protocol)	• [3]	•	• [3]	•	•	•
over MPI or PROFIBUS network	• [4]	• [6]	• [4] [6]	• [6]	–	• [5] [6]
over PPI network (MPI protocol)	• [4]	–	•	–	–	–
over PPI network (PPI protocol)	–	• [7]	• [7]	• [7]	–	• [5] [7]

• System interface possible
- System interface not possible

1) Mobile Panel connection via special connecting cable and connection box (see Mobile Panels), see Manual for cable assignment
2) Controllers can be combined as desired
3) Basic Panel PN and Mobile Panel 177 PN only
4) Basic Panel DP and Mobile Panel 177 DP only
5) Connection via integrated MPI/PROFIBUS interface; in the case of a standard PC, a communications processor (CP) is to be used (e.g. CP 5612/5622)
6) Only on passive S7-200
7) Can be interfaced via PPI to max. 1 x S7-200 (PPI); network operation (parallel PG, etc.) is possible

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Overview (continued)

Note:
For detailed information on cable assignment, refer to WinCC Online Help.

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Overview

SIMATIC Basic Panels, Comfort Panels and Mobile Panels, as well as the SIMATIC HMI software package for PC WinCC Runtime Advanced support the following protocols for linking the control systems of other manufacturers:

- Allen Bradley
  - Ethernet IP protocol
  - DF1 protocol
- Mitsubishi
  - MC TCP/IP protocol
  - FX protocol
- Modicon
  - Modbus TCP/IP protocol
  - Modbus RTU protocol
- Omron
  - Link/Multi Link protocol

The following table contains more detailed information.

Connection overview

Controller	SIMATIC HMI					
Target hardware (PROTOCOL) (physics)	**Basic Panel**	**Comfort Panel Outdoor**	**Mobile Panel 177 DP [1] Mobile Panel 177 PN [1]**	**Mobile Panel 277 [1]**	**KTPx00(F) Mobile**	**WinCC Runtime Advanced**
Allen Bradley (Ethernet IP)						
via Ethernet TCP/IP network to max. 4 x controllers [2] • ControlLogix 1756-L6x, -L6xS with Ethernet module 1756-ENBT • GuardLogix System • CompactLogix 1769-L2xE, -L3xE • CompactLogix 1769-L4x with Ethernet module 1768-ENBT • SLC 5/05 • MicroLogix 1100, 1400	• [3]	•	• [3]	•	•	•
Allen Bradley (DF1)						
to max. 1 x controller • SLC 5/03, /04, /05 • MicroLogix (RS 232)	• [4] [5]	• [4]	• [4] [5]	• [4]	–	• [6]
to max. 1 x controller • PLC5/11, /20, /30, /40, /60, /80 (RS 232)	• [4] [5]	• [4]	• [4] [5]	• [4]	–	• [7]
via KF2 gateway and DH+ network to max. 4 x controllers [2] • SLC 5/04 • PLC5/11, /20, /30, /40, /60, /80 (RS 232)	• [4] [5]	• [4]	• [4] [5]	• [4]	–	• [7] [8]
via KF2 gateway and DH+ network to max. 4 x controllers [2] • SLC 5/04 • PLC5/11, /20, /30, /40, /60, /80 (RS 422)	• [5]	•	• [5]	•	–	–
via KF3 gateway and DH485 network to max. 4 x controllers [2] • SLC 500 • MicroLogix (RS 232)	• [4] [5]	• [4]	• [4] [5]	• [4]	–	• [7] [8]

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Overview (continued)

• System interface possible
- System interface not possible
1) Mobile Panel connection via special connecting cable and connection box (see Mobile Panels), see Manual for cable assignment
2) The following listed controllers can be combined as required
3) Basic Panel PN and Mobile Panel 177 PN only
4) The RS 422/RS 232 adapter 6AV6671-8XE00-0AX0 is required for Basic Panels and Comfort Panels
5) Basic Panel DP and Mobile Panel 177 DP only
6) Connection via Allen Bradley PC cable 1747 CP3
7) Connection via Allen Bradley PC cable 1784 CP10
8) For connection to KF2/KF3 gateway, a gender-changer (25-pin socket/25-pin socket) is required on the gateway side

Note:
For detailed information on cable assignment, refer to WinCC Online Help; see also FAQs.

Controller	SIMATIC HMI					
Target hardware (PROTOCOL) (physics)	**Basic Panel**	**Comfort Panel Outdoor**	**Mobile Panel 177 DP** [1] **Mobile Panel 177 PN** [1]	**Mobile Panel 277** [1]	**KTPx00(F) Mobile**	**WinCC Runtime Advanced**
Mitsubishi (MC TCP/IP)						
via Ethernet IP network to max. 4 x controllers [2] • FX series FX3G, FX3U, FX3UC with Ethernet module FX3U ENET, • Series Q with Ethernet module QJ71E71-100 • iQ series/QnUD QnUDEH	• [3]	•	• [3]	•	•	•
Mitsubishi FX (serial)						
to max. 1 x controller FX series FX1N, FX2N (RS 232)	• [4]	•	• [4]	•	–	• [5]

• System interface possible
- System interface not possible
1) Mobile Panel connection via special connecting cable and connection box (see Mobile Panels), see Manual for cable assignment
2) The following listed controllers can be combined as required
3) Basic Panel PN and Mobile Panel 177 PN only
4) Basic Panel DP and Mobile Panel 177 DP only
5) Connection using a Mitsubishi PC cable SC-09 with integrated level converter RS 232/RS 422

Note:
For detailed information on cable assignment, refer to WinCC Online Help; see also FAQs.

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Overview (continued)

Controller	SIMATIC HMI					
Target hardware (PROTOCOL) (physics)	**Basic Panel**	**Comfort Panel Outdoor**	**Mobile Panel 177 DP** [1] **Mobile Panel 177 PN** [1]	**Mobile Panel 277** [1]	**KTPx00(F) Mobile**	**WinCC Runtime Advanced**
Modicon (MODBUS TCP/IP)						
via MODBUS TCP/IP network to max. 4 x controllers [2] • Concept Quantum, Unity Quantum • Momentum • Premium (TSX57) • TSX Micro (TSX37) • Modicon M340 20x0 (except 2010)	• [3]	•	• [3]	•	•	•
via TCP/IP Modbus Plus Bridge 174 CEV 200 40 and MODBUS PLUS network to max. 4 x controllers [2] • Concept Quantum, Unity Quantum • Momentum • Compact	• [3]	•	• [3]	•	•	•
Modicon (MODBUS RTU)						
to max. 1 x controller • Concept Quantum • Momentum • Compact (RS 232)	• [4] [5]	• [4]	• [4] [5]	• [4]	–	•
via bridge BM85-000 or PLC with bridge functionality and MODBUS PLUS network to max. 4 x controllers [2] • Concept Quantum • Compact (RS 232)	• [4] [5]	• [4]	• [4] [5]	• [4]	–	•

• System interface possible
- System interface not possible
1) Mobile Panel connection via special connecting cable and connection box (see Mobile Panels), see Manual for cable assignment
2) The following listed controllers can be combined as required
3) Basic Panel PN and Mobile Panel 177 PN only
4) The RS 422/RS 232 adapter 6AV6671-8XE00-0AX0 is required for Basic Panels and Mobile Panels
5) Basic Panel DP and Mobile Panel 177 DP only

Note:
For detailed information on cable assignment, refer to WinCC Online Help; see also FAQs.

Controller	SIMATIC HMI					
Target hardware (PROTOCOL) (physics)	**Basic Panel**	**Comfort Panel Outdoor**	**Mobile Panel 177 DP** [1] **Mobile Panel 177 PN** [1]	**Mobile Panel 277** [1]	**KTPx00(F) Mobile**	**WinCC Runtime Advanced**
Omron (Link/Multi Link)						
to max. 1 x controller • CP1L, CP1H, CP1E • CJ1M, CJ1H, CJ1G • CJ2H • CS1G, CS1H, CS1D • CP2MC (RS 232)	–	• [3]	• [3] [4]	• [3]	–	•
via converter NT-AL001 and RS 422 network to max. 4 x controllers [2] • CP1L, CP1H, CP1E • CJ1M, CJ1H, CJ1G • CJ2H • CS1G, CS1H, CS1D • CP2MC (RS 232)	–	• [3]	• [3] [4]	• [3]	–	•
via RS 422 network to max. 4 x controllers [2] • CP1L, CP1H, CP1E • CJ1M, CJ1H, CJ1G (RS 422)	• [4]	•	• [4]	• [4]	–	–

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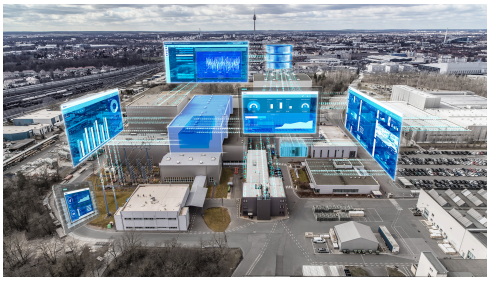
Overview (continued)

Controller	SIMATIC HMI					
via RS422 network to max. 4 x controllers [2] • CJ2H • CS1G, CS1H, CS1D • CP2MC (RS 422)	–	–	• [4]	• [4]	–	–

• System interface possible
- System interface not possible
1) Mobile Panel connection via special connecting cable and connection box (see Mobile Panels), see Manual for cable assignment
2) The controllers listed below can be combined in any way required; connection via RS 422 interface of the controller or via RS 422 module
3) The RS 422/RS 232 adapter 6AV6671-8XE00-0AX0 is required for Basic Panels and Mobile Panels
4) Basic Panel DP and Mobile Panel 177 DP only

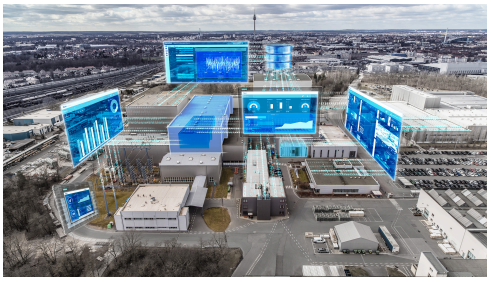
Note:
For detailed information on cable assignment, refer to WinCC Online Help; see also FAQs.

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3/4	**Introduction**
3/4	HMI software
3/6	**TIA Portal**
3/6	SIMATIC WinCC Unified (TIA Portal)
3/6	SIMATIC WinCC Unified (TIA Portal)
3/7	TIA Cloud Services
3/9	SIMATIC WinCC Unified Engineering
3/10	SIMATIC WinCC Unified Runtime
3/11	WinCC Unified PC Runtime
3/13	WinCC Unified Data Hub Server
3/14	WinCC Unified SIQENCE
3/15	WinCC Unified Runtime for Industrial Edge
3/16	Software packages
3/18	SIMATIC WinCC Unified options
3/22	WinCC Unified Audit
3/23	WinCC Unified Clients
3/25	WinCC Unified Database Storage
3/26	WinCC Unified Logging
3/27	WinCC Unified Parameter Control
3/28	WinCC Unified Report
3/29	WinCC Unified Collaboration
3/30	SIMATIC WinCC Unified Plant Intelligence options
3/31	WinCC Unified ResCon
3/33	WinCC Unified Calendar
3/34	WinCC Unified Performance Insight
3/35	WinCC Unified Runtime for Industrial Edge
3/36	SIMATIC WinCC (TIA Portal)
3/36	Introduction
3/37	SIMATIC WinCC (TIA Portal) Engineering
3/39	SIMATIC WinCC (TIA Portal) Runtime
3/40	WinCC Runtime Advanced
3/42	WinCC Runtime Professional
3/46	WinCC Runtime communication
3/50	TRANSLINE HMI
3/51	SIMATIC WinCC (TIA Portal) options
3/53	SIMATIC Logon
3/54	WinCC Logging
3/55	WinCC Recipes
3/56	WinCC Audit
3/57	WinCC Sm@rtServer
3/59	WinCC DataMonitor
3/60	WinCC Redundancy
3/61	WinCC Server / WinCC Client
3/62	WinCC WebNavigator
3/64	**TIA Portal options**
3/64	TIA Portal Cloud Connector
3/65	SIMATIC Visualization Architect
3/66	SIMATIC ProDiag

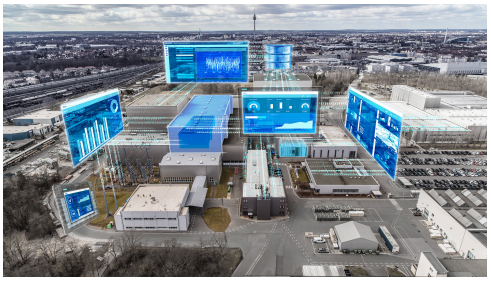
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3/67	**SIMATIC WinCC V7/V8**
3/67	Introduction
3/68	SIMATIC WinCC V7/V8 basic software
3/74	SIMATIC WinCC V7/V8 options
3/75	SIMATIC TeleControl
3/77	WinCC/Audit & WinCC/ChangeControl
3/79	WinCC/Calendar Scheduler
3/80	WinCC/Connectivity Pack & WinCC Connectivity Station
3/81	WinCC/Event Notifier
3/82	WinCC/Open Development Kit (ODK)
3/83	WinCC/PerformanceMonitor
3/84	WinCC/Redundancy
3/85	WinCC/Server
3/87	WinCC/UserArchives
3/88	**SIMATIC WinCC Open Architecture**
3/88	Introduction
3/89	SIMATIC WinCC Open Architecture Software and Software Services
3/91	WinCC Open Architecture Single Station
3/92	WinCC Open Architecture Server
3/96	WinCC Open Architecture User Interfaces
3/103	WinCC Open Architecture Drivers
3/107	WinCC Open Architecture Add-ons
3/116	WinCC Open Architecture IPC Packages
3/117	WinCC Open Architecture OneClick licenses
3/118	WinCC Open Architecture Development Packages
3/119	WinCC Open Architecture Solution Frameworks
3/121	SIMATIC WinCC Open Architecture Services
3/122	WinCC Open Architecture Basic Support
3/123	WinCC Open Architecture Extended Services
3/124	WinCC Open Architecture Solution
3/125	WinCC Open Architecture Trainings
3/127	WinCC Open Architecture Travel costs
3/128	WinCC Open Architecture Trade goods
3/129	SIMATIC Information Server
3/130	SIMATIC Process Historian
3/131	WinCC IndustrialDataBridge
3/132	WinCC WebUX
3/133	**SCADA software**
3/133	Introduction
3/134	Process management - Add-ons
3/135	PM-CONTROL
3/136	PM-QUALITY
3/137	PM-ANALYZE
3/138	PM-MAINT
3/139	PM-MES Interface
3/140	PM-LOGON

Siemens ST 80 / ST PC · 2026

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3/141	PM-OPEN EXPORT
3/142	PM-OPEN IMPORT
3/143	PM-OPEN MINDCONNECT
3/144	PM-AGENT
3/145	UNIVERSAL PM-PACKAGE
3/146	COPYPROJECT
3/147	PM-GRID CONTROL
3/148	WinCC Add-ons and partner management
3/150	**SIMATIC ProAgent process diagnostics software**
3/150	Introduction
3/151	SIMATIC WinCC/ProAgent
3/152	**SIMATIC Unified Air**
3/152	SIMATIC Unified Air

Siemens ST 80 / ST PC · 2026

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Overview

SIMATIC HMI – a lot more than just visualization software

Innovative, efficient, scalable and open software for the machine-level area and for SCADA solutions.

With the SIMATIC WinCC Unified (TIA Portal), SIMATIC WinCC V8 and SIMATIC WinCC Open Architecture product families, SIMATIC HMI and SIMATIC SCADA covers the entire software spectrum for the human machine interface and complex SCADA applications for all industries.

- SIMATIC WinCC Unified (TIA Portal)
  - The HMI system, everywhere from Panel to Edge to PC-based applications.
  - Creation of applications in the machine-level area and of process visualization or SCADA systems
- SIMATIC WinCC V7/V8 SCADA system
  - The reliable SCADA system, leading in the manufacturing industry
  - Creation of process visualization or SCADA systems
- SIMATIC WinCC Open Architecture SCADA system
  - The trusted SCADA system, leading in infrastructure applications
  - Creation of applications with high customer-specific adaptation requirements, large and/or complex applications, and projects that require special system requirements and functions.

More information on SIMATIC HMI is available at this link

Industrial operations with SIMATIC SCADA systems

The digital transformation in industry is opening up new opportunities and tapping into unexploited potential! Our innovative SCADA systems transform all your data into useful knowledge and bridge the gap between automation (OT) and IT systems. This allows you to identify optimization potential and use resources more efficiently.

More information on SIMATIC SCADA systems is available at this link

SIMATIC WinCC Unified (TIA Portal)

The HMI system, everywhere from Panel to Edge to PC-based applications.

SIMATIC WinCC Unified (TIA Portal) is the most cutting-edge system, everywhere from Panel-, to Edge-, to PC-based HMI & SCADA applications. It covers basic or advanced visualization tasks at machine level up to complex SCADA applications with redundant configuration, a WinCC Unified Data Hub as central long-term archive or WinCC Unified SIQENCE for ISA-88 batch automation.

WinCC Unified (TIA Portal) offers the uniform and scalable configuration tools WinCC Unified Basic, WinCC Unified Comfort, and WinCC Unified PC for configuring

SIMATIC HMI devices:

- SIMATIC HMI Unified Basic Panels
- SIMATIC HMI Unified Comfort Panels
- SIMATIC WinCC Unified PC-based systems
- WinCC Unified Engineering also supports the configuration of SIMATIC Basic Panels, SIMATIC Comfort Panels, and WinCC Runtime Advanced.

Highlights:

Overview (continued)

- The latest technology with proven engineering
  - The runtime of the newly developed SIMATIC WinCC Unified visualization software is based on native web technologies such as HTML5, SVG and JavaScript.
  - Visualization is created simply and efficiently with SIMATIC WinCC Unified Engineering in the tried and tested Totally Integrated Automation Portal (TIA Portal).
- Simple and unlimited scalability
  - Simple and consistently scalable for all applications, from HMI devices directly on the machine all the way to complex SCADA solutions.
  - SIMATIC Unified Comfort Panels and SIMATIC IPCs are designed to make optimum use of the performance capabilities of WinCC Unified.
- Expandable to meet every demand and diverse possibilities for the implementation of requirements using open interfaces.
  - Flexible data exchange facilitates interaction between all devices during operation and allows authorized users direct access from any modern web browser – without additional installation.

More information is available at this link



SIMATIC WinCC V7/V8

The process visualization or SCADA system for visualizing and operating processes, production flows, machines and plants in all sectors – from the simple single-user station through to distributed multi-user systems with redundant servers and cross-location solutions with web clients. WinCC is the information hub for company-wide, vertical integration (process visualization and platform for IT & business integration).

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Overview (continued)

- All HMI functions on-board with industry-standard functions for signaling and acknowledging events, archiving of messages and measured values, logging of all process and configuration data, user administration and visualization (WinCC Basic Software).
- Company-wide, flexible client/server structures with operator stations on the web, distributed servers and data integrity thanks to redundancy
- Easy to integrate over standard interfaces such as OPC (OLE for Process Control), WinCC OLE DB, VBA (Visual Basic for Applications), VB script, C-API (ODK)
- Integration platform in the company thanks to the Historian functionality integrated into WinCC based on the Microsoft SQL Server, standard and programming interfaces and tools and clients for evaluation
- Modular expansion with options and add-ons as well as individual function extensions with VB Script, Visual Basic for Applications, C-API (ODK) and integration of ActiveX elements.

More information is available at this link

SIMATIC WinCC Open Architecture

The SIMATIC WinCC Open Architecture (WinCC OA) SCADA system is designed for applications with high demand for customer-specific adaptations, large and/or complex applications, as well as projects that demand special system requirements and functions.

SIMATIC WinCC Open Architecture demonstrates its high performance in networked and redundant high-end control systems in particular. From the field level to the control station, from the machine to the company headquarters – integrated, high-performance communication is ensured. In every situation, a high level of availability, reliable information, fast interaction and user friendliness are guaranteed. Applications can also be changed without interrupting the process. Profitability, efficiency and safety are therefore always in equilibrium.

With its hot standby redundancy and Disaster Recovery system, SIMATIC WinCC Open Architecture demonstrates its reliability in a wide range of business-critical applications. SIMATIC WinCC Open Architecture can be used on any platform and is available for Windows, Linux, iOS and Android.

SIMATIC WinCC Open Architecture is open for independent in-house developments, which means that ideas can be turned into new applications quickly and easily.

- Object orientation supports efficient engineering and flexible plant expansion
- For large, distributed systems with up to 2 048 servers
- Scalable – from a small single-user system up to a networked, redundant high-end system
- WinCC OA can be used on any platform, and is available for Windows, Linux, iOS and Android
- Hot standby redundancy and Disaster Recovery system assure maximum fail-safety and availability
- WinCC OA offers a platform for customer-specific solutions
- Extensive driver and interfacing options: S7, SINAUT, OPC, OPC UA, Modbus, IEC 60870-5-101/104, DNP3, BACnet, and more than 25 native drivers available
- Flexible logging of data either in file-based value archive or in a relational database (ORACLE)
- Create and reuse your own libraries – working with already existing object libraries and easy, individual modifications (customer design, specific changes)

Overview (continued)

- Modular expansion using options and add-ons as well as individual function extensions by means of own script language CONTROL, API (C++) and integration of ActiveX elements
- Integration of TIA Projects using TIA Importer for S7-1200 and S7-1500

More information is available at this link

PC-based HMI solutions (machine-level / SCADA) with SIMATIC industrial PCs

Our reliable and innovative SIMATIC IPC industrial PCs are the optimal PC hardware platforms. SIMATIC industrial PCs are offered with low-cost software packages. For Runtime versions with SIMATIC WinCC V7/V8, WinCC Runtime Professional or WinCC Runtime Advanced visualization software products, as well as the Software Controller.
The simultaneous order of industrial PC and software package results in a price advantage.

SIMATIC SCADA and SIMATIC IPCs

Perfect interaction for optimum productivity.

- Price advantage as "Package" comprising hardware and software
- System-tested solutions reduce testing overhead
- Simple ordering and synchronized logistics

Only if ordered together with the SIMATIC IPC.
More information is available at this link

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Overview

SIMATIC WinCC Unified (TIA Portal)

SIMATIC WinCC Unified is the new visualization system which permits users to competently meet the challenges of digitalization in machine and plant construction. SIMATIC WinCC Unified combines the know-how accumulated from more than 30 years of experience in the area of Human Machine Interface with state-of-the-art hardware and software technologies.

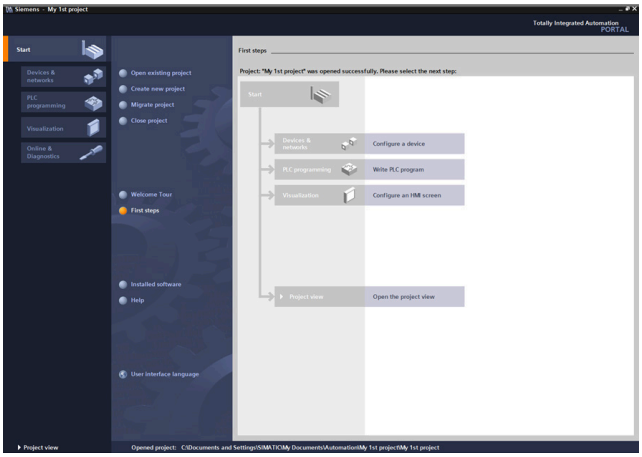
Highlights:

- The latest technology with proven engineering
  - The runtime of the newly developed SIMATIC WinCC Unified visualization software is based on native web technologies such as HTML5, SVG and JavaScript.
  - Visualization is created simply and efficiently with SIMATIC WinCC Unified Engineering in the proven Totally Integrated Automation Portal (TIA Portal).
- Simple and unlimited scalability
  - Simple and consistently scalable for all applications, from the operator panel directly on the machine through to the complex SCADA solution.
  - SIMATIC Unified Panels and SIMATIC IPCs are provided to ensure optimum utilization of the performance capability of WinCC Unified.
  - Expandable to meet every demand and diverse possibilities for the implementation of requirements using open interfaces.
  - Through flexible data exchange, the system facilitates the interaction of all devices during operation and allows direct access to authorized users from any modern web browser – without the need for any additional installation.

More information is available at this link

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Overview



TIA Portal Cloud enables the use of the TIA Portal software in a virtualized cloud environment. No local installation of the software is required. Local projects can be transferred to the cloud via a file share service and also loaded back.

TIA Portal Cloud includes the major versions of TIA Portal and the main option packages of these versions.

Licensing

TIA Portal Cloud is offered as a subscription and certificate. This increases flexibility and enables a low-cost entry compared to the classic license model.

- With the pay-per-use variant, the actual usage time is booked on an hourly basis and billed at the end of the month.
- The monthly subscription offers unlimited use within one month. The subscription is automatically renewed for a further month unless it is canceled before the end of the contract period.
- In addition to unlimited use of TIA Portal Cloud, the annual subscription provides free access to "SITRAIN access - the digital learning platform".
- The 365-day certificate is a Certificate of Contract (CoC) with a fixed term of 365 days and is not automatically renewed. A PDF with the information on how to activate the TIA Portal Cloud access is supplied.
- The 100-hour certificate is a Certificate of License (CoL) with a 100-hour credit. A PDF with the information on how to activate the TIA Portal Cloud access is supplied.

More information

More information is available on this at this link.

Selection and ordering data

TIA Cloud Services TIA Portal software packages for use in a virtual cloud environment without local installation. Can only be ordered via SiePortal. Consignee email address required for delivery	
TIA Portal Cloud – pay-per-use Only available via Industry Mall. Consignee email address required for delivery. For this service, the following T&Cs apply exclusively www.siemens.com/premiumdocs (i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services, (ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Cloud and (iii) Universal Customer Agreement.	**6ES7804-0CP41-3YA0**
TIA Portal Cloud – monthly subscription Only available via Industry Mall. Consignee email address required for delivery. For this service, the following T&Cs apply exclusively www.siemens.com/premiumdocs (i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services (ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Cloud and (iii) Universal Customer Agreement.	**6ES7804-0CP41-2YA0**
TIA Portal Cloud – annual subscription incl. SITRAIN access Your benefit: In addition to use of TIA Portal Cloud, you receive free access to SITRAIN access - the digital learning platform. Your engineering environment and know-how are always up to date, thanks to cloud technology anywhere at any time. Consignee email address required for delivery. The specific terms under www.siemens.com/premiumdocs apply exclusively	**6ES7804-0CP41-1YA0**
TIA Portal Cloud – 365-day certificate You will receive a Certificate of Contract to unlock TIA Portal Cloud for 365 days, starting from the date of delivery. This subscription ends automatically. Contents: Certificate of Contract (CoC) Consignee email address required for delivery. The specific terms under www.siemens.com/premiumdocs apply exclusively	**6ES7804-0CP41-1YA8**
TIA Portal Cloud – 100-hour certificate TIA Portal Cloud, 100 hours credit. You will receive a Certificate of License with a 100-hour credit. The credit is valid for 365 days, starting from the date of delivery. Contents: Certificate of License (CoL) Consignee email address required for delivery. The specific terms under www.siemens.com/premiumdocs apply exclusively	**6ES7804-0CP41-3YA8**
TIA Simulation Cloud – 50 hours for 2D simulation engineering You receive a Certificate of License with 50 hours of credit for 2D simulation engineering. The credit is valid for 365 days, starting from the date of delivery. Contents: Certificate of License (CoL) Consignee email address required for delivery. The specific terms under www.siemens.com/premiumdocs apply exclusively	**6ES7804-0VP41-3AA8**

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Selection and ordering data (continued)

TIA Simulation Cloud – 50 hours for 3D simulation player You receive a Certificate of License with 50 hours of credit for 3D simulation engineering. The credit is valid for 365 days, starting from the date of delivery. Contents: Certificate of License (CoL) Consignee email address required for delivery. The specific terms under www.siemens.com/premiumdocs apply exclusively	**6ES7804-0VP41-3BA8**

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Overview

SIMATIC WinCC Unified Engineering

- Proven engineering in the TIA Portal allows a consistent, efficient, and intuitive solution for all automation tasks.
- Together with the STEP 7 (TIA Portal) products, WinCC (TIA Portal) forms the optimum solution for integrated engineering.
- WinCC Unified Engineering is the configuration software for all applications, from the control panel directly on the machine through to the complex SCADA solution.
- WinCC Unified Engineering also supports configuration of the SIMATIC Basic Panel, SIMATIC Comfort Panel, WinCC Runtime Advanced, and WinCC Runtime Professional. [1)]
- Version compatibility in engineering: With the current version, HMI devices of a previous version can also be loaded.

1) License only; requires installation of SIMATIC WinCC (TIA Portal) Engineering.

Selection and ordering data

SIMATIC WinCC Unified Engineering System	
Base Packages V21	
Data storage medium	
• WinCC Unified Basic	**6AV2151-0XA02-5AA5**
• WinCC Unified Comfort	**6AV2151-0XB02-5AA5**
• WinCC Unified PC (10k) ES	**6AV2153-2FB02-5AA5**
• WinCC Unified PC (100k) ES	**6AV2153-2GB02-5AA5**
• WinCC Unified PC (max.) ES	**6AV2153-0XB02-5AA5**
Download [1)]	
• WinCC Unified Basic	**6AV2151-0XA02-5LA5**
• WinCC Unified Comfort	**6AV2151-0XB02-5LA5**
• WinCC Unified PC (10k) ES	**6AV2153-2FB02-5LA5**
• WinCC Unified PC (100k) ES	**6AV2153-2GB02-5LA5**
• WinCC Unified PC (max.) ES	**6AV2153-0XB02-5LA5**
PowerPacks without version change	
Download [1)]	
• WinCC Unified Basic -> WinCC Unified Comfort	**6AV2151-0XB20-0LB5**
• WinCC Unified Comfort -> WinCC Unified PC (10k)	**6AV2153-2FB20-0LB5**
• WinCC Unified PC (10k) -> WinCC Unified PC (100k)	**6AV2153-2GB20-0LB5**
• WinCC Unified PC (100k) -> WinCC Unified PC (max.)	**6AV2153-0XB20-0LB5**
• WinCC Advanced and WinCC Prof. 512..4096 -> WinCC Unified PC (100k)	**6AV2153-2GB60-0LB5**
• WinCC Prof. max -> WinCC Unified PC (max.)	**6AV2153-0XB60-0LB5**
Upgrades V16...V20 -> V21	
Data storage medium	
• WinCC Unified Comfort ES Upgrade	**6AV2151-0XB32-5AA5**
• WinCC Unified PC (10k) ES Upgrade	**6AV2153-2FB32-5AA5**
• WinCC Unified PC (100k) ES Upgrade	**6AV2153-2GB32-5AA5**
• WinCC Unified PC (max.) ES Upgrade	**6AV2153-0XB32-5AA5**
Download [1)]	
• WinCC Unified Comfort ES Upgrade	**6AV2151-0XB32-5LA5**
• WinCC Unified PC (10k) ES Upgrade	**6AV2153-2FB32-5LA5**
• WinCC Unified PC (100k) ES Upgrade	**6AV2153-2GB32-5LA5**
• WinCC Unified PC (max.) ES Upgrade	**6AV2153-0XB32-5LA5**
Software Update Service	
WinCC Unified Comfort ES Software Update Service	
• Download [1)]	**6AV2151-0XB00-0LY5**
WinCC Unified PC (100k) ES Software Update Service	
• Download [1)]	**6AV2153-2GB00-0LY5**
WinCC Unified PC (10k) ES Software Update Service	
• Download [1)]	**6AV2153-2FB00-0LY5**
WinCC Unified PC (max.) ES Software Update Service	
• Download [1)]	**6AV2153-0XB00-0LY5**

[1)] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Overview

SIMATIC WinCC Unified is the modern HMI platform from Siemens for all applications – from machine operation and Edge computing all the way to complex SCADA systems. The platform is based entirely on web technologies such as HTML5, SVG, JavaScript and offers an integrated software architecture for maximum flexibility and scalability.

WinCC Unified Runtime is the visualization system for Panels and PCs with extensive functions for operator control, monitoring, and analysis. In combination with the WinCC Unified Data Hub (UDH), a powerful overall solution for visualization, central data archiving and analysis is created – future-oriented, transparent and audit-proof.

WinCC Unified PC Runtime

The WinCC Unified SCADA system with a scalable scope of functions for complex, distributed configurations with an unlimited number of data points, SQL-based data archiving, or as a redundant system for higher availability.

WinCC Unified SIQENCE

The recipe and batch system for WinCC Unified, provides ISA88–compliant and PLC-based batch execution with integrated recipe creation at runtime, as well as batch monitoring, and batch reporting.

WinCC Unified Data Hub Server (UDH)

Central long-term archiving for process data, alarms and Audit Trails from several WinCC Unified Runtime systems.

WinCC Unified for Industrial Edge

The SIMATIC WinCC Unified for Industrial Edge system combines first-class SIMATIC HMI solutions with Industrial Edge

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Overview

SIMATIC WinCC Unified PC Runtime can be used to implement solutions ranging from PC-based machine visualization to complex SCADA systems. It is Siemens' modern HMI platform for all applications – from machine operation and edge computing all the way to comprehensive SCADA solutions. The platform is based entirely on web technologies such as HTML5, SVG, JavaScript, and GraphQL. It offers a consistent software architecture for maximum flexibility and scalability, enabling its use in many industries – including in redundant configurations for increased availability or with IT applications. Through the combination with the WinCC Unified Data Hub (UDH), a powerful overall solution for visualization, central data archiving and analysis is created – future-oriented, transparent and audit-proof.

Selection and ordering data

SIMATIC WinCC Unified Runtime System	
SIMATIC WinCC Unified Runtime System V21 **Base Packages**	
Data storage medium	
• WinCC Unified PC (150) RT	**6AV2154-3DB02-5AA0**
• WinCC Unified PC (500) RT	**6AV2154-1EB02-5AA0**
• WinCC Unified PC (1 000) RT	**6AV2154-2EB02-5AA0**
• WinCC Unified PC (2 500) RT	**6AV2154-2MB02-5AA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB02-5AA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB02-5AA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB02-5AA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB02-5AA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB02-5AA0**
Download	
• WinCC Unified PC (150) RT	**6AV2154-3DB02-5LA0**
• WinCC Unified PC (500) RT	**6AV2154-1EB02-5LA0**
• WinCC Unified PC (1 000) RT	**6AV2154-2EB02-5LA0**
• WinCC Unified PC (2 500) RT	**6AV2154-2MB02-5LA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB02-5LA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB02-5LA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB02-5LA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB02-5LA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB02-5LA0**

Selection and ordering data (continued)

SIMATIC WinCC Unified Runtime System V21 **Packages (base system including options)**	
Download	
• WinCC Unified PC start (1k) RT Including: Parameter Control, Logging Tags (100), Report Execution	**6AV2155-2ES02-5LA0**
• WinCC Unified PC small (10k) RT Including: Parameter Control, Logging Tags (1000), Report Execution, Audit Basis	**6AV2155-2FS02-5LA0**
• WinCC Unified PC medium (100k) RT Including: Parameter Control, Database Option, Logging Tags (2000), Report Execution, Audit Basis, Client Operate (2x 1)	**6AV2155-2GS02-5LA0**
• WinCC Unified PC (max) RT Including: Parameter Control, Database Option, Logging Tags (5000), Report Execution, Audit Basis, Client Operate (max)	**6AV2155-0XS02-5LA0**
• WinCC Unified PC small (10k) RT redundant Including: Parameter Control, Database Option, Logging Tags (1000), Report Execution, Audit Basis, Redundancy	**6AV2155-2FR02-5LA0**
• WinCC Unified PC medium (100k) RT redundant Including: Parameter Control, Database Option, Logging Tags (1000), Report Execution, Audit Basis, Client Operate (1), Redundancy	**6AV2155-2GR02-5LA0**
• WinCC Unified PC (max) RT redundant Including: Parameter Control, Database Option, Logging Tags (5000), Report Execution, Audit Basis, Client Operate (max), Redundancy	**6AV2155-0XR02-5LA0**
SIMATIC WinCC Unified Runtime System V21 ASIA **Base Packages**	
Data storage medium	
• WinCC Unified PC (150) RT	**6AV2154-3DB02-5BA0**
• WinCC Unified PC (500) RT	**6AV2154-1EB02-5BA0**
• WinCC Unified PC (1 000) RT	**6AV2154-2EB02-5BA0**
• WinCC Unified PC (2 500) RT	**6AV2154-2MB02-5BA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB02-5BA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB02-5BA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB02-5BA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB02-5BA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB02-5BA0**

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Selection and ordering data (continued)

SIMATIC WinCC Unified Runtime System V20 Base Packages	
Data storage medium	
• WinCC Unified PC (150) RT	**6AV2154-3DB02-4AA0**
• WinCC Unified PC (500) RT	**6AV2154-1EB02-4AA0**
• WinCC Unified PC (1 000) RT	**6AV2154-2EB02-4AA0**
• WinCC Unified PC (2 500) RT	**6AV2154-2MB02-4AA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB02-4AA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB02-4AA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB02-4AA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB02-4AA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB02-4AA0**
Download	
• WinCC Unified PC (150) RT	**6AV2154-3DB02-4LA0**
• WinCC Unified PC (500) RT	**6AV2154-1EB02-4LA0**
• WinCC Unified PC (1 000) RT	**6AV2154-2EB02-4LA0**
• WinCC Unified PC (2 500) RT	**6AV2154-2MB02-4LA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB02-4LA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB02-4LA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB02-4LA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB02-4LA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB02-4LA0**
SIMATIC WinCC Unified Runtime System V20 ASIA Base Packages	
Data storage medium	
• WinCC Unified PC (150) RT	**6AV2154-3DB02-4BA0**
• WinCC Unified PC (500) RT	**6AV2154-1EB02-4BA0**
• WinCC Unified PC (1 000) RT	**6AV2154-2EB02-4BA0**
• WinCC Unified PC (2 500) RT	**6AV2154-2MB02-4BA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB02-4BA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB02-4BA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB02-4BA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB02-4BA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB02-4BA0**

Selection and ordering data (continued)

SIMATIC WinCC Unified Runtime System Upgrades V19..V20 to V21	
Data storage medium	
• WinCC Unified PC (150) RT	**6AV2154-3DB32-5AA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB32-5AA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB32-5AA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB32-5AA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB32-5AA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB32-5AA0**
Download	
• WinCC Unified PC (150) RT	**6AV2154-3DB32-5LA0**
• WinCC Unified PC (500) RT	**6AV2154-1EB32-5LA0**
• WinCC Unified PC (1 000) RT	**6AV2154-2EB32-5LA0**
• WinCC Unified PC (2 500) RT	**6AV2154-2MB32-5LA0**
• WinCC Unified PC (5 000) RT	**6AV2154-1FB32-5LA0**
• WinCC Unified PC (10k) RT	**6AV2154-2FB32-5LA0**
• WinCC Unified PC (50k) RT	**6AV2154-1GB32-5LA0**
• WinCC Unified PC (100k) RT	**6AV2154-2GB32-5LA0**
• WinCC Unified PC (max.) RT	**6AV2154-0XB32-5LA0**
SIMATIC WinCC Unified Runtime System PowerPacks	
Download	
• WinCC Unified PC (150->500) RT PowerPack (V17..V21)	**6AV2154-1EB20-0LB0**
• WinCC Unified PC (500->1k) RT PowerPack (V17..V21)	**6AV2154-2EB20-0LB0**
• WinCC Unified PC (1k->2.5k) RT PowerPack (V17..V21)	**6AV2154-2MB20-0LB0**
• WinCC Unified PC (2.5k->5k) RT PowerPack (V17..V21)	**6AV2154-1FB20-0LB0**
• WinCC Unified PC (5k->10k) RT PowerPack (V17..V21)	**6AV2154-2FB20-0LB0**
• WinCC Unified PC (10k->50k) RT PowerPack (V17..V21)	**6AV2154-1GB20-0LB0**
• WinCC Unified PC (50k->100k) RT PowerPack (V17..V21)	**6AV2154-2GB20-0LB0**
• WinCC Unified PC (100k->max.) RT PowerPack (V17..V21)	**6AV2154-0XB20-0LB0**

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Overview

SIMATIC WinCC Unified Data Hub Server

The SIMATIC WinCC Unified Data Hub (UDH) is the central, scalable long-term archiving solution for WinCC Unified Runtime systems. It enables the storage and evaluation of process data, alarms, and the audit trail from multiple WinCC Unified Runtime stations (UDH clients) in a shared database on the UDH server. The data is transferred in real time, buffered on the client in the event of a malfunction, and archived centrally - independently of local archiving on the UDH clients.
The UDH connects the operational level (OT) with the IT world and provides consistent, centralized data archiving and provision. The data source is configured in the TIA Portal. Here, the process values, alarms, and audit trails to be archived are selected and assigned to the UDH server.
Communication between OT and IT is implemented via modern web technologies such as GraphQL.

WinCC Unified Data Hub Server Package

The WinCC Unified Data Hub Server package includes the following licenses

- 1 x WinCC Unified Data Hub Server
- 1 x SIMATIC WinCC Unified Data Hub Client (1) for use on the data source (UDH Client)
- 1 x WinCC Unified PC (150) RT for operation of WinCC Unified Runtime on the UDH server.
- 1 x WinCC Unified Database Storage

Upgrade

- The "WinCC Unified Data Hub Server" license package is version-dependent and requires the corresponding upgrade license for upgrading.
- The WinCC Unified Data Hub Client license is version-independent. No upgrade license is required

Trial

- If you do not have a valid license, you can configure WinCC Unified Data Hub Server in trial mode.

Selection and ordering data

SIMATIC WinCC Unified Data Hub	
SIMATIC WinCC Unified Data Hub Server Package	
Data storage medium	
• SIMATIC WinCC Unified Data Hub Server Package	Only available as download
Download [1]	
• SIMATIC WinCC Unified Data Hub Server Package	**6AV2155-3DD02-5LA0**
• SIMATIC WinCC Unified Data Hub Server Package V21	**6AV2155-3DD02-5LA0**

1) Current information and availability of the new type of delivery can be found at this link
For ordering the required SIMATIC WinCC Unified
- Data Hub Client Small,
- Data Hub Client or
- Data Hub Audit Trail

see under WinCC Unified options / WinCC Unified Data Hub Client

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Overview

SIMATIC WinCC Unified SIQENCE is an extension to WinCC Unified, delivering ISA 88 based recipe and batch automation directly to machines and small production process cells.
It empowers OEMs, System Integrators and end users to visually create, adapt, and execute complex procedures for operations like blending, mixing, heating and dosing ensuring high consistency with minimal engineering effort.

Batch execution is PLC-based, while engineering is supported by a flexible library approach within the familiar TIA Portal environment. WinCC Unified SIQENCE integrates seamlessly into WinCC Unified PC Runtime and uses standard objects enhanced by a rich technological hierarchy and dedicated visualization blocks for all the recipe and batch-related information.

Configuration

WinCC Unified SIQENCE offers packages with different numbers of units. These can be expanded using power packs (number of units) without affecting the overall price.

These packages are licenses to enable the usage of SIQENCE at the Runtime environment (production environment), no separate engineering license is required.

WinCC Unified SIQENCE works completely based on standard S7-1500 and WinCC Unified PC products.

It requires a valid WinCC Unified PC Runtime license, as well as any other license needed for further Runtime options to be used within the same WinCC Unified project.

Types of licenses available for WinCC Unified SIQENCE:

- **Unit runtime licenses:** single packages, counting how many units have been configured in the system, so that they can be controlled and monitored using all SIQENCE functionalities.

The packages are not accumulative (only one runtime package can be used in one system, extensions are done via PowerPacks instead).

They are version dependent.

WinCC Unified SIQENCE Package

- WinCC Unified SIQENCE Vxx (1 Unit)
- WinCC Unified SIQENCE Vxx (2 Units)
- WinCC Unified SIQENCE Vxx (4 Units)
- WinCC Unified SIQENCE Vxx (10 Units)
- WinCC Unified SIQENCE Vxx (30 Units)

Powerpack packages: they allow to convert a Unit runtime license to the next size, extending it to a higher amount of units.

WinCC Unified SIQENCE PowerPacks

- WinCC Unified SIQENCE PowerPacks
- WinCC Unified SIQENCE PP (1 -> 2 Units)
- WinCC Unified SIQENCE PP (2 -> 4 Units)
- WinCC Unified SIQENCE PP (4 -> 10 Units)

Upgrade packages: they allow to upgrade a Unit runtime license to a newer version, so that the newer software version can be installed and used. The specific upgrade version path must be ordered (e.g. Vxx -> Vxx+1)

Configuration (continued)

Currently it is the first version of the software, therefore no upgrade package is available yet.

WinCC Unified SIQENCE Upgrade Packages

- WinCC Unified SIQENCE Upgrade Packages
- WinCC Unified SIQENCE UPG Vxx -> Vxy (1 Unit)
- WinCC Unified SIQENCE UPG Vxx -> Vxy (2 Units)
- WinCC Unified SIQENCE UPG Vxx -> Vxy (4 Units)
- WinCC Unified SIQENCE UPG Vxx -> Vxy (4 Units)

SUS package: yearly contract-based Software Update Services. The SUS package applies individually to one runtime package of Units. With this, while your contract is active, you will be able to update your software to a newer version and upgrade the related Units license to that newer version.

WinCC Unified SIQENCE SUS Package

- WinCC Unified SIQENCE SUS Package

Selection and ordering data

SIMATIC WinCC Unified SIQENCE V21	
Base Package	
Download [1] - email address required for delivery	
• WinCC Unified SIQENCE (1 Unit)	**6AV2156-1JQ02-5LA0**
• WinCC Unified SIQENCE (2 Units)	**6AV2156-2JQ02-5LA0**
• WinCC Unified SIQENCE (4 Units)	**6AV2156-4JQ02-5LA0**
• WinCC Unified SIQENCE (10 Units)	**6AV2156-1SQ02-5LA0**
• WinCC Unified SIQENCE (30 Units)	**6AV2156-1SQ02-5LA0**
SIMATIC WinCC Unified SIQENCE	
Powerpacks	
Download [1] - email address required for delivery	
• WinCC Unified SIQENCE (1->2 units) Powerpack (V21)	**6AV2156-2JQ20-0LA0**
• WinCC Unified SIQENCE (1->2 units) Powerpack (V21)	**6AV2156-4JQ20-0LA0**
• WinCC Unified SIQENCE (4->10 units) Powerpack (V21)	**6AV2156-1SQ20-0LA0**
• WinCC Unified SIQENCE (10->30 units) Powerpack (V21)	**6AV2156-3SQ20-0LA0**
Software Update Service (SUS)	
Under this contract, you receive all current software versions for a period of one year. The contract is automatically extended for one more year unless it is canceled three months before expiration.	
Download [1] - email address required for delivery	
• WinCC Unified SIQENCE SUS (30 Units)	**6AV2156-3SQ02-5LY0**

1) Current information and availability regarding the new type of delivery can be found at this link

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Overview

SIMATIC WinCC Unified Runtime for Industrial Edge

The SIMATIC WinCC Unified for Industrial Edge system combines first-class SIMATIC HMI solutions with Industrial Edge, using the comfortable WinCC Unified Engineering (TIA Portal).

It offers app-based monitoring and control of machines, where data from production can be combined with information from other Edge apps.

This application can be purchased via the Edge Marketplace under this link

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview



Software packages with SIMATIC IPC

Software packages with SIMATIC WinCC or SIMATIC SW Controller together with the corresponding SIMATIC IPC.

Available:

- SIMATIC IPC Packages with WinCC Unified PC RT (TIA Portal)
- SIMATIC IPC Packages with WinCC V7/V8
- SIMATIC IPC Packages with WinCC Open Architecture – WinCC OA
- SIMATIC IPC Packages with WinCC RT Advanced (TIA Portal)
- SIMATIC IPC Packages with WinCC RT Professional (TIA Portal)
- SIMATIC IPC Packages with SIMATIC S7-1500 Software Controller

A software package can only be supplied if the same number of SIMATIC industry PCs is ordered together with the software. It cannot be ordered subsequently or separately.

Selection and ordering data

Software packages for SIMATIC IPC	
SIMATIC WinCC Unified V20 PC Runtime [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control.	
• 150 PowerTags	**6AV2155-3DB02-4AA0**
• 500 PowerTags	**6AV2155-1EB02-4AA0**
• 1k PowerTags	**6AV2155-2EB02-4AA0**
• 2.5k PowerTags	**6AV2155-2MB02-4AA0**
• 5k PowerTags	**6AV2155-1FB02-4AA0**
• 10k PowerTags	**6AV2155-2FB02-4AA0**
• 50k PowerTags	**6AV2155-1GB02-4AA0**
SIMATIC WinCC Unified V20 PC Runtime ASIA [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control.	
• 150 PowerTags	**6AV2155-3DB02-4BA0**
• 500 PowerTags	**6AV2155-1EB02-4BA0**
• 1k PowerTags	**6AV2155-2EB02-4BA0**
• 2.5k PowerTags	**6AV2155-2MB02-4BA0**
• 5k PowerTags	**6AV2155-1FB02-4BA0**
• 10k PowerTags	**6AV2155-2FB02-4BA0**
• 50k PowerTags	**6AV2155-1GB02-4BA0**
SIMATIC WinCC Unified V19 PC Runtime [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control.	
• 150 PowerTags	**6AV2155-3DB02-3AA0**
• 500 PowerTags	**6AV2155-1EB02-3AA0**
• 1k PowerTags	**6AV2155-2EB02-3AA0**
• 2.5k PowerTags	**6AV2155-2MB02-3AA0**
• 5k PowerTags	**6AV2155-1FB02-3AA0**
• 10k PowerTags	**6AV2155-2FB02-3AA0**
• 50k PowerTags	**6AV2155-1GB02-3AA0**
SIMATIC WinCC Unified V19 PC Runtime ASIA [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control	
• 150 PowerTags	**6AV2155-3DB02-3BA0**
• 500 PowerTags	**6AV2155-1EB02-3BA0**
• 1k PowerTags	**6AV2155-2EB02-3BA0**
• 2.5k PowerTags	**6AV2155-2MB02-3BA0**
• 5k PowerTags	**6AV2155-1FB02-3BA0**
• 10k PowerTags	**6AV2155-2FB02-3BA0**
• 50k PowerTags	**6AV2155-1GB02-3BA0**
SIMATIC WinCC Runtime Advanced V17 [1) 2)]	
Software and documentation on DVD, incl. WinCC Archives and WinCC Recipes. Single license, license key on USB flash drive for:	
• 128 PowerTags	**6AV2114-2BA07-0AA0**
• 512 PowerTags	**6AV2114-2DA07-0AA0**
• 2 048 PowerTags	**6AV2114-2FA07-0AA0**
• 4 096 PowerTags	**6AV2114-2HA07-0AA0**
• 8 192 PowerTags	**6AV2114-2KA07-0AA0**

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Selection and ordering data (continued)

SIMATIC WinCC Runtime Professional V20 1) 2) 3)	
• WinCC Client for RT Professional	**6AV2117-2DB02-4AA0**
• 128 PowerTags	**6AV2115-2BA02-4AA0**
• 512 PowerTags	**6AV2115-2DA02-4AA0**
• 2 048 PowerTags	**6AV2115-2FA02-4AA0**
• 4 096 PowerTags	**6AV2115-2HA02-4AA0**
• 8 192 PowerTags	**6AV2115-2KA02-4AA0**
• 65 536 PowerTags	**6AV2115-2MA02-4AA0**
SIMATIC WinCC Runtime Professional V19 1) 2) 3)	
• WinCC Client for RT Professional	**6AV2117-2DB02-3AA0**
• 512 PowerTags	**6AV2115-2DA02-3AA0**
• 2 048 PowerTags	**6AV2115-2FA02-3AA0**
• 4 096 PowerTags	**6AV2115-2HA02-3AA0**
• 8 192 PowerTags	**6AV2115-2KA02-3AA0**
• 65 536 PowerTags	**6AV2115-2MA02-3AA0**

1) Only if ordered together with a SIMATIC IPC.
2) The current version is always supplied.
3) IPC127 only as client and single-user station for small projects, IPC227E/IPC277E and IPC327E/IPC377E only as WinCC client & single-user station.

Software packages for SIMATIC IPC	
SIMATIC WinCC V8.1 Runtime 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-1AX0**
• 128 PowerTags	**6AV6382-2CA08-1AX0**
• 512 PowerTags	**6AV6382-2DA08-1AX0**
• 2 048 PowerTags	**6AV6382-2EA08-1AX0**
• 8 192 PowerTags	**6AV6382-2HA08-1AX0**
• 65 536 PowerTags	**6AV6382-2FA08-1AX0**
SIMATIC WinCC V8.1 Runtime ASIA 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-1AV0**
• 128 PowerTags	**6AV6382-2CA08-1AV0**
• 512 PowerTags	**6AV6382-2DA08-1AV0**
• 2 048 PowerTags	**6AV6382-2EA08-1AV0**
• 8 192 PowerTags	**6AV6382-2HA08-1AV0**
• 65 536 PowerTags	**6AV6382-2FA08-1AV0**
SIMATIC WinCC V8.0 SP2 Runtime 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-0AX0**
• 128 PowerTags	**6AV6382-2CA08-0AX0**
• 512 PowerTags	**6AV6382-2DA08-0AX0**
• 2 048 PowerTags	**6AV6382-2EA08-0AX0**
• 8 192 PowerTags	**6AV6382-2HA08-0AX0**
• 65 536 PowerTags	**6AV6382-2FA08-0AX0**
SIMATIC WinCC V8.0 SP2 Runtime ASIA 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-0AV0**
• 128 PowerTags	**6AV6382-2CA08-0AV0**
• 512 PowerTags	**6AV6382-2DA08-0AV0**
• 2 048 PowerTags	**6AV6382-2EA08-0AV0**
• 8 192 PowerTags	**6AV6382-2HA08-0AV0**
• 65 536 PowerTags	**6AV6382-2FA08-0AV0**

Selection and ordering data (continued)

1) Only if ordered together with a SIMATIC IPC
2) The current version is always supplied

SIMATIC WinCC Open Architecture	
V3.20 Only offered with the IPC127E, IPC227E/IPC277E, IPC BX-21A, IPC BX-39A. These packages cannot be extended with other WinCC OA options (Restrictions according to WinCC OA documentation). N/EAR99S 9377	
• 128 PowerTags	**6AV6355-1AA50-0FA4**
• 256 PowerTags	**6AV6355-1AA50-0FA0**
• 512 PowerTags	**6AV6355-1AA50-0FA1**
• 2 048 PowerTags	**6AV6355-1AA50-0FA2**
• 4 096 PowerTags	**6AV6355-1AA50-0FA3**
V3.19 Only offered with the IPC127E, IPC227E/IPC277E, IPC BX-21A, IPC BX-39A	
• 128 PowerTags	**6AV6355-1AA47-7FA4**
• 256 PowerTags	**6AV6355-1AA47-7FA0**
• 512 PowerTags	**6AV6355-1AA47-7FA1**
• 2 048 PowerTags	**6AV6355-1AA47-7FA2**
• 4 096 PowerTags	**6AV6355-1AA47-7FA3**
V3.18 Only offered with the IPC127E, IPC227E/IPC277E, IPC BX-21A, IPC BX-39A	
• 128 PowerTags	**6AV6355-1AA31-8FA4**
• 256 PowerTags	**6AV6355-1AA31-8FA0**
• 512 PowerTags	**6AV6355-1AA31-8FA1**
• 2 048 PowerTags	**6AV6355-1AA31-8FA2**
• 4 096 PowerTags	**6AV6355-1AA31-8FA3**

SIMATIC S7-1500 Software Controller CPU1507S Package	
SW package only available for IPC227E/IPC277E	
• SW Controller CPU 1507S for IPC2x7E (DVD) 1) 2)	**6ES7672-7AC01-6YA0**
• SW Controller CPU 1507S (F) for IPC2x7E (DVD) 1) 2)	**6ES7672-7FC01-6YA0**

1) Only if ordered together with a SIMATIC IPC
2) The current version is always supplied

Note:
For ordering data for Panel PCs and accessories, see configurators in "SIMATIC Panel PCs".

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Overview

SIMATIC WinCC Unified options

Option	Unified Basic Panel	Unified Comfort Panel	Unified PC	Version-independent	Upgrade license
Logging Tags	✓	✓	✓	Yes	
Parameter Control	✓	✓	✓	No	Included in the upgrade of the basic system
Client Operate	Not expandable (1 client already available)	✓	✓	Yes	
Client Monitor		✓	✓	Yes	
Control Function Library	✓	✓	✓	Yes	
ProDiag		✓	✓	No	Included in the upgrade of the basic system
Report Execution		✓	✓	No	Included in the upgrade of the basic system
Collaboration		✓	✓	No	Included in the upgrade of the basic system
Audit		✓	✓	No	
MTP Integrator		✓	✓	Yes	
Database Storage			✓	No	Can be ordered separately
Connectivity GraphQL			✓	No	Included in the upgrade of the basic system
Data Hub Client			✓	Yes	
Redundancy			✓	No	Included in the upgrade of the basic system

Information about WinCC Unified Data Hub, WinCC Unified SIQENCE, and WinCC Unified Runtime for Industrial Edge can be found in the respective chapters.

WinCC Unified Audit

Contains the functionality to trace all operator actions related to value changes on tags.
Other entries in the Audit Trail can be made by system and script functions.

Licensing:

One RT license is required for each RT station (Panel or PC) to be monitored. The WinCC Unified Report license is required for automatic creation of reports.

SIMATIC Unified Basic Panels:

- The Unified Audit option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use Unified Audit on an HMI Unified Comfort Panel, you need a WinCC Unified Audit license.

SIMATIC WinCC Unified PC:

- To use Unified Audit on a WinCC Unified PC RT, you need a WinCC Unified Audit license.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Audit can be configured in trial mode without a valid license.

WinCC Unified Clients

The WinCC Unified Client is the graphical user interface for interacting with the WinCC Unified Runtime.

For operator control and monitoring of machines and plants, the WinCC Unified Client accesses the WinCC Unified Runtime via web mechanisms (on the runtime station itself or via a network). WinCC Unified images can be displayed on any PC or mobile device in HTML 5-enabled browsers.
No additional know-how of the web is necessary for engineering of the WinCC Unified Screens in the TIA Portal.
A distinction is made between WinCC Unified Client Operate and WinCC Unified Client Monitor:

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Overview (continued)

- WinCC Unified Client Operate: For operator control and monitoring of the WinCC Unified Runtime (Panel or PC).
- WinCC Unified Client Monitor: For monitoring the WinCC Unified Runtime (Panel or PC) only. Screen navigation is supported, the connection from the PLC for tags is cut. Defined functions, such as acknowledgment in alarm and tag logging control, are also blocked.

WinCC Unified Logging

Option for WinCC Unified for archiving of process values, messages and Audit Trails. Process value archiving for the recording, compression and storage of measured values and alarm logging to record events. Online evaluation of process value archives and alarm logs with display and possible operations, for example representation of trends and display of tables, as well as further processing. Powerful standard functions permit user-friendly and flexible utilization of the logs.

Licensing:

SIMATIC HMI Unified Basic Panels:

- Messages can be logged without an additional license.
- Up to 50 process values (tags) can be archived (file-based) without an additional license.

SIMATIC HMI Unified Comfort Panels:

- Messages can be logged without an additional license.
- Up to 5000 process values (tags) can be archived (file-based) without an additional license.

WinCC Unified PC:

- Messages can be logged without an additional license.
- The archiving of process values (tags) must be licensed depending on the required number of logging tags.
- Archiving is either file-based (default) or database-based (option: WinCC Unified Database Storage).
- This number can be increased via additive WinCC Unified Logging Tags licenses (countable licenses). These are available in increments of 100, 500, 1,000, 5,000, 10,000, and 30,000 logging tags.
- When using file-based archiving (default), a maximum of 5,000 logging tags are possible. With WinCC Unified Database Storage, the number of logging tags is only limited by the performance of the PC system used.

Upgrade

- The WinCC Unified Logging license is version-independent. No upgrade license is required

Trial

- Archive tags can be configured in trial mode without a valid license.

WinCC Unified Database Storage

For WinCC Unified PC RT systems, database-based archiving for process values, messages, and Audit Trail can be selected for large quantity structures or long archiving periods. All archive data is stored in an SQL server after installing the option and the license.

Licensing:

WinCC Unified PC

- A license is required for each WinCC Unified PC Runtime on which database-based archiving is used
- The archived data is licensed via WinCC Unified Logging.
- The number can be increased at any time using additional WinCC Unified Logging Tags (100, 500, 1,000, 5,000, 10,000, and 30,000) (countable licenses). With WinCC Unified Database Storage, the number of logging tags is only limited by the performance of the PC system used.

Upgrade:

- When upgrading to a new WinCC Unified version, an additional upgrade license is required.

Trial

- No trial mode is available for database-based archiving.

WinCC Unified Data Hub Client

All process information from the connected Data Hub Clients is archived centrally on the WinCC Unified Data Hub Server. Each Data Hub Client requires a license corresponding to the type or amount of process information stored in the central archive on the WinCC Unified Data Hub Server.

HMI Unified Basic Panel:

- The WinCC Unified Data Hub Client option is not supported.

HMI Unified Comfort Panel:

- The WinCC Unified Data Hub Client option is not supported.
- The license for Unified Data Hub Client is version-independent and does not require an upgrade to a new version
- To use Unified Data Hub Client on a WinCC Unified PC RT, you need a "WinCC Unified Data Hub Client" license

Upgrade

- The "WinCC Unified Data Hub Server" license package is version-dependent and requires the corresponding upgrade license for upgrading.
- The WinCC Unified Data Hub Client license is version-independent. No upgrade license is required

Trial

- If you do not have a valid license, you can configure WinCC Unified Data Hub Server in trial mode.

WinCC Unified Parameter Control

Option for SIMATIC WinCC Unified for the generation and management of parameter sets which contain associated machine or production data. The structure of a user data type (PLC UDT or HMI UDT) can be adopted for one or more parameter set types and can be changed automatically using a new user data type version.

Licensing:

SIMATIC Unified Basic Panels:

- Parameter Control is included in the scope of supply. No license is required

SIMATIC HMI Unified Comfort Panels:

- Parameter Control is included in the scope of supply. No license is required

SIMATIC WinCC Unified PC:

- You require a WinCC Unified Parameter Control (PC) license for the Parameter Control option on a runtime PC.

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Overview (continued)

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Parameter Control can be configured in trial mode without a valid license.

WinCC Unified Report Execution

The scope of supply of WinCC Unified includes an Excel add-in that enables a connection between runtime data and Excel report templates. This runtime data includes, among other things:

- Tags
- Logging Tags
- Alarms
- Shift calendar
- Context Value Lists
- Performance Insight
- Line Coordination

The report templates are imported into WinCC Unified Runtime at runtime – without the engineering system – and linked to execution parameters. Reports can then be generated automatically on a cyclical, demand-driven or event-driven basis and saved in Excel and/or PDF format or sent by email.

Licensing:

- No license is required for the creation of reports in Excel and manual execution of the reports in Excel or from the Report Runtime Control.
- A WinCC Unified Report Execution license (Panel or PC) is required for automated (cyclical, demand or event-driven) report generation.

SIMATIC Unified Basic Panels:

- Reporting is not supported.

SIMATIC HMI Unified Comfort Panels:

- For automatic execution of reports (time, event), you need a "WinCC Unified Report Execution" license on an HMI Unified Comfort Panel.

SIMATIC WinCC Unified PC:

- For automatic execution of reports (time, event), you need a "WinCC Unified Report Execution" license on a WinCC Unified PC.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Report Control can be configured in trial mode without a valid license.

WinCC Unified Connectivity

WinCC Unified Connectivity GraphQL Logged Data

Requirement

HMI Unified Basic Panel:

- The WinCC Unified Connectivity GraphQL Logged Data option is not supported.

HMI Unified Comfort Panel:

- The WinCC Unified Connectivity GraphQL Logged Data option is not supported.

WinCC Unified PC:

- For configuring, you need a WinCC Unified Basic PC ES (Engineering System) license.
- For use in runtime, you need a WinCC Unified PC RT (runtime) license.

Licensing

To access archived data on a WinCC Unified PC RT via the GraphQL interface, you need a "WinCC Unified Connectivity GraphQL Logged Data" license.

Upgrade

- The license is version-dependent and requires the corresponding upgrade license for upgrading.
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- If you do not have a valid license, you can use the GraphQL interface in trial mode.

WinCC Unified Collaboration

Each WinCC Unified Station (Panel or PC) to be connected via Collaboration requires a corresponding license.
The scope and type of exchanged data is not limited. The configuration of Collaboration in the engineering system does not require additional licensing.

Licensing:

SIMATIC HMI Unified Basic Panels:

- The WinCC Unified Unified Collaboration option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use WinCC Unified Collaboration on an HMI Unified Comfort Panel, you need a WinCC Unified Collaboration license for each device involved.

SIMATIC WinCC Unified PC:

- To use Unified Collaboration on a WinCC Unified PC RT, you need a WinCC Unified Collaboration license for each device involved.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Collaboration can be configured in trial mode without a valid license.

WinCC Unified ProDiag

SIMATIC ProDiag is the fully-integrated TIA solution for machine and plant diagnostics. It saves the need for programming diagnostics in the CPU during the engineering phase and provides support for troubleshooting on the HMI.

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Overview (continued)

Licensing:

- The runtime license for controllers includes 250 supervisions or an unlimited number of supervisions per CPU. From FW 2.0 onwards, the software can run on S7-1500/ET 200SP CPUs regardless of the TIA Portal version.
- For the visualization of the messages, the controls are licensed according to the HMI runtime platforms.

SIMATIC HMI Unified Basic Panels:

- The ProDiag option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use ProDiag on an HMI Unified Comfort Panel, you need a WinCC Unified ProDiag license.

SIMATIC WinCC Unified PC:

- To use ProDiag on a WinCC Unified PC RT, you need a WinCC Unified ProDiag license.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified ProDiag can be configured in trial mode without a valid license.

WinCC Unified Redundancy

The WinCC Unified Redundancy option enables the creation of a highly available HMI/SCADA system through the parallel operation of two identically configured runtime systems (primary and secondary systems). In the event of a fault, the standby system automatically takes over control to minimize downtime.
For redundant operation with WinCC Unified, both systems (primary and secondary) must have identical licenses. This applies not only to the redundancy option itself, but also to all other required software functions.

Licensing:

SIMATIC HMI Unified Basic Panels:

- The Unified Redundancy option is not supported.

SIMATIC HMI Unified Comfort Panels:

- The Unified Redundancy option is not supported.

SIMATIC WinCC Unified PC:

- To use Unified Redundancy on a WinCC Unified PC RT, you need a "WinCC Unified Redundancy" license for each device involved.

Upgrade

- The license is version-dependent
- The upgrade license for a WinCC Unified PC RT station is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Redundancy can be configured in trial mode without a valid license.

Plant Intelligence options

WinCC Unified Calendar

WinCC Unified Calendar serves user groups which have structured a plant via a plant hierarchy and want to define recurring events within this hierarchy.

Licensing:

SIMATIC Unified Basic Panels:

- The Unified Calendar option is not supported.

SIMATIC HMI Unified Comfort Panels:

- The Unified Calendar option is not supported.

SIMATIC WinCC Unified PC:

- To use Unified Calendar on a WinCC Unified PC RT, you need a "WinCC Unified Calendar Base" license
- Per additional basic calendar, you require a "WinCC Unified Calendar Extension (1)" license. The license is version-dependent and cumulative

Upgrade

- When upgrading to a new WinCC Unified version, an additional "WinCC Unified Calendar Base" upgrade license is required.

Trial

- WinCC Unified Calendar can be configured in trial mode without a valid license.

WinCC Unified Performance Insight

All user groups benefit from WinCC Unified Performance Insight, from the application engineer all the way to management-level evaluators.
The engineer can use the application environment integrated in WinCC Unified to derive individual formulas for calculating performance indicators.

Licensing:

SIMATIC Unified Basic Panels:

- The Unified Performance option is not supported.

SIMATIC HMI Unified Comfort Panels:

- The Unified Performance option is not supported.

SIMATIC WinCC Unified PC:

- To use Unified Performance Insight on a WinCC Unified PC RT, you need a "WinCC Unified Performance Insight Base" license
- You need one "WinCC Unified Performance Insight Extension" license for each additional plant object. The license is version-dependent and cumulative.
- WinCC Unified Performance Insight Extension: license packages in stages of 10, 30, 100 and 300

Upgrade

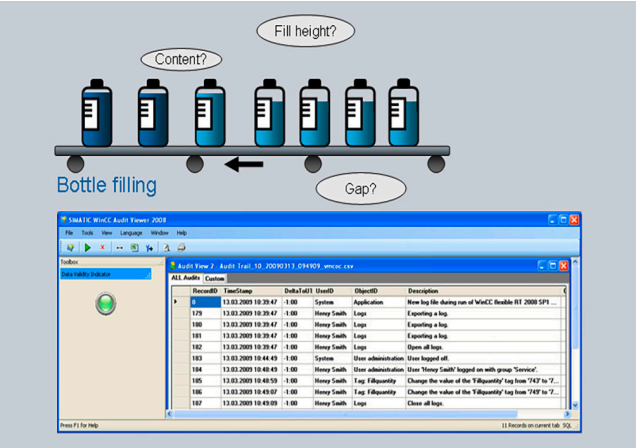
- When upgrading to a new WinCC Unified version, an additional "WinCC Unified Performance Insight Base" upgrade license is required.

Trial

- WinCC Unified Performance can be configured in trial mode without a valid license.

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Overview



WinCC TIA RT Audit

SIMATIC WinCC Unified options
WinCC Unified Audit

Audit-relevant user actions (such as tag changes) are logged in an Audit Trail. For GMP-relevant tags, the system automatically generates an electronic record in the Audit Trail.

Contains the functionality to trace all operator actions related to value changes on tags.
Other entries in the Audit Trail can be made by system and script functions.
Tracing can be used to determine who performed which operations on the machine and when. In addition, the user can perform activities of an individual nature at specific objects or events, such as pressing function keys, moving sliders and other actions, while using a so-called audit entry function to record these activities in the Audit Trail.

Licensing:
WinCC Unified Audit is available for Unified Comfort Panel and WinCC Unified PC RT. One RT license is required for each RT station (server) to be monitored. A PowerPack is available for the extension to the Audit Enhanced license (Basis or Enhanced). The WinCC Unified Report Execution license is required for the automatic creation of reports.

One RT license is required for each RT station (Panel or PC) to be monitored. The WinCC Unified Report license is required for automatic creation of reports.

SIMATIC Unified Basic Panels:

- The Unified Audit option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use Unified Audit on an HMI Unified Comfort Panel, you need a WinCC Unified Audit license.

SIMATIC WinCC Unified PC:

- To use Unified Audit on a WinCC Unified PC RT, you need a WinCC Unified Audit license.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

Overview (continued)

- WinCC Unified Audit can be configured in trial mode without a valid license.

The WinCC Unified Audit Basis license includes:

- Manipulation detection for the Audit Trail
- Recording of process data changes (automatically, via script or system function)
- Recording of alarm operations (Ack, Hide, Shelv)
- Confirmation of a change to a GMP-relevant tag, stating the reason for the change (individually or standardized from text lists with predefined comments)
- Changes in value by a user or by a system function
- Export of Audit Trail entries
- Switching processes in the calendar
- Audit Trail entries for changes in Parameter Control
- Audit Trail entry for login and logout
- Simple electronic signature
- Direct display and analysis of the Audit Trail in the Audit Viewer
  - With online access to audit data from an Audit Trail and offline access to audit data from an exported audit file
  - Set and execute user-specific data query
  - Test mode and filter setting for the display
- Indication of manipulation in Audit Control
- Audit Trail reports with manipulation detection
- Backing up and restoring Audit Trail database segments

The WinCC Unified AUDIT Enhanced license includes:

- All the functions of Audit Basis and additionally
  - Multiple electronic signature (2nd person)

Selection and ordering data

WinCC Unified Audit Basis V20	
• Data storage medium	**6AV2157-0BL02-4AB0**
• Download	**6AV2157-0BL02-4LB0**
WinCC Unified Audit Enhanced V20 (includes Audit Basis)	
• Data storage medium	**6AV2157-1BL02-4AB0**
• Download	**6AV2157-1BL02-4LB0**
WinCC Unified Audit Power Pack Audit Basis -> Enhanced	
• Download	**6AV2157-1BL20-0LB0**
WinCC Unified Audit Basis V19	
• Data storage medium	**6AV2157-0BL02-3AB0**
• Download	**6AV2157-0BL02-3LB0**
WinCC Unified Audit Enhanced V19 (includes Audit Basis)	
• Data storage medium	**6AV2157-1BL02-3AB0**
• Download	**6AV2157-1BL02-3LB0**

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Overview

SIMATIC WinCC Unified options

WinCC Unified Clients

The WinCC Unified Client is the graphical user interface for interacting with the WinCC Unified Runtime.

For operator control and monitoring of machines and plants, the WinCC Unified Client accesses the WinCC Unified Runtime via web mechanisms (on the runtime station itself or via a network). WinCC Unified images can be displayed on any PC or mobile device in HTML 5-enabled browsers. No additional know-how of the web is necessary for engineering of the WinCC Unified Screens in the TIA Portal.

A distinction is made between WinCC Unified Client Operate and WinCC Unified Client Monitor:

- WinCC Unified Client Operate: For operator control and monitoring of the WinCC Unified Runtime (Panel or PC).
- WinCC Unified Client Monitor: For monitoring the WinCC Unified Runtime (Panel or PC) only.

Screen navigation is supported, the connection from the PLC for tags is cut. Defined functions, such as acknowledgment in alarm and tag logging control, are also blocked.

Licensing

For each WinCC Unified Client, a (server-based) license of the WinCC Unified Runtime (Panel or PC) is required. The client licenses are provided on the runtime station (the server or HMI Unified Panel) and are graded in accordance with the number of simultaneous WinCC Unified Web Client access operations. The number of version-independent licenses can be increased at any time via additive WinCC Unified Client licenses (countable licenses).

WinCC Unified Client Operate: License packages in stages of 1, 3, 10 and max. number of WinCC Unified Clients Operate.

WinCC Unified Client Monitor: License packages in stages of 1, 3, 10 and max. number of WinCC Unified Clients Monitor.

Monitor and Operate licenses are independent of each other; it is not possible to upgrade or downgrade client licenses.

SIMATIC HMI Unified Basic Panels:

- The following accesses (except for local operator control and monitoring) to the Panel Runtime are included license-free:
  - 1 x WinCC Unified Client Operate for operator control and monitoring via the web client (remote)
- The number of web clients cannot be increased

SIMATIC HMI Unified Comfort Panels:

- The following accesses (except for local operator control and monitoring) to the Panel Runtime are included license-free:
  - 1 x WinCC Unified Client Operate for operator control and monitoring via the web client (remote)
  - 1 x WinCC Unified Client Monitor for monitoring via the web client (remote)
- It can be expanded to a maximum of 3 simultaneous web clients

SIMATIC WinCC Unified PC:

Overview (continued)

- The following client accesses to the PC Runtime (PC) are included license-free:
  - 1 x WinCC Unified Client Operate for local operator control and monitoring
  - 1 x WinCC Unified Client Operate for operator control and monitoring via the web client (local or remote)
  - 1 x WinCC Unified Client Monitor for monitoring via the web client (local or remote)
- The number of simultaneous web clients can be increased as required.

Upgrade

- The WinCC Unified Client license is version-independent. No upgrade license is required.

Trial

- WinCC Unified Clients can be configured in trial mode without a valid license.

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Selection and ordering data

SIMATIC WinCC Unified options	
WinCC Unified Client (Operate)	
Data storage medium	
• WinCC Unified Clients Panel Operate (1)	**6AV2151-1JW00-0AB0**
• WinCC Unified Clients Panel Operate (5x1)	**6AV2157-5JV00-0AB0**
• WinCC Unified Clients Operate (1)	**6AV2157-1JW00-0AB0**
• WinCC Unified Clients Operate (3)	**6AV2157-3JW00-0AB0**
• WinCC Unified Clients Operate (10)	**6AV2157-2CW00-0AB0**
• WinCC Unified Clients Operate (max. per RT server)	**6AV2157-0XW00-0AB0**
• WinCC Unified Clients Operate (5x1)	**6AV2157-5JW00-0AB0**
Download [1]	
• WinCC Unified Clients Panel Operate (1)	**6AV2151-1JW00-0LB0**
• WinCC Unified Clients Panel Operate (5x1)	**6AV2157-5JV00-0LB0**
• WinCC Unified Clients Operate (1)	**6AV2157-1JW00-0LB0**
• WinCC Unified Clients Operate (3)	**6AV2157-3JW00-0LB0**
• WinCC Unified Clients Operate (10)	**6AV2157-2CW00-0LB0**
• WinCC Unified Clients Operate (max. per RT server)	**6AV2157-0XW00-0LB0**
• WinCC Unified Clients Operate (5x1)	**6AV2157-5JW00-0LB0**
WinCC Unified Client (Monitor)	
Data storage medium	
• WinCC Unified Clients Panel Monitor (1)	**6AV2151-1JM00-0AB0**
• WinCC Unified Clients Monitor (1)	**6AV2157-1JM00-0AB0**
• WinCC Unified Clients Monitor (3)	**6AV2157-3JM00-0AB0**
• WinCC Unified Clients Monitor (10)	**6AV2157-2CM00-0AB0**
• WinCC Unified Clients Monitor (max. per RT server)	**6AV2157-0XM00-0AB0**
Download [1]	
• WinCC Unified Clients Panel Monitor (1)	**6AV2151-1JM00-0LB0**
• WinCC Unified Clients Monitor (1)	**6AV2157-1JM00-0LB0**
• WinCC Unified Clients Monitor (3)	**6AV2157-3JM00-0LB0**
• WinCC Unified Clients Monitor (10)	**6AV2157-2CM00-0LB0**
• WinCC Unified Clients Monitor (max. per RT server)	**6AV2157-0XM00-0LB0**

[1] Current information and availability regarding the new type of delivery can be found under this link.

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Overview

SIMATIC WinCC Unified options

WinCC Unified Database Storage

SIMATIC WinCC Unified PC uses the file-based database (SQLite) in the basic system for logging process values, messages and Audit Trail. The WinCC Unified Databased Storage option is available for use with greater quantity frameworks or lengthy archiving periods. All archive data is stored in an MS SQL server after installing the option and the license.

Licensing

WinCC Unified PC

- A license is required for each WinCC Unified PC Runtime on which database-based archiving is used
- The archived data is licensed via WinCC Unified Logging.
- The number can be increased at any time using additional WinCC Unified Logging Tags (100, 500, 1,000, 5,000, 10,000, and 30,000) (countable licenses). With WinCC Unified Database Storage, the number of logging tags is only limited by the performance of the PC system used.

Upgrade:

- When upgrading to a new WinCC Unified version, an additional upgrade license is required.

Trial

- No trial mode is available for database-based archiving.

Selection and ordering data

SIMATIC WinCC Unified options	
WinCC Unified Database Storage V20	
• Data storage medium	**6AV2154-0BS02-4AA0**
• Download 1)	**6AV2154-0BS02-4LA0**
Upgrade V18..19 -> V20	
• Data storage medium	**6AV2154-2BS32-4AA0**
• Download 1)	**6AV2154-2BS32-4LA0**
WinCC Unified Database Storage V19	
• Data storage medium	**6AV2154-0BS02-3AA0**
• Download 1)	**6AV2154-0BS02-3LA0**
Upgrade V18 -> V19	
• Data storage medium	**6AV2154-2BS32-3AA0**
• Download 1)	**6AV2154-2BS32-3LA0**
WinCC Unified Database Storage V18	
• Data storage medium	**6AV2154-0BS01-8AA0**
• Download 1)	**6AV2154-0BS01-8LA0**
Upgrade V16..V17 -> V18	
• Data storage medium	**6AV2154-0BS31-8AA0**
• Download 1)	**6AV2154-0BS31-8LA0**

1) Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Overview

SIMATIC WinCC Unified options

WinCC Unified Logging

Option for WinCC Unified for archiving of process values, messages and Audit Trails. Process value archiving for the recording, compression and storage of measured values and alarm logging to record events. Online evaluation of process value archives and alarm logs with display and possible operations, for example representation of trends and display of tables, as well as further processing. Powerful standard functions permit user-friendly and flexible utilization of the logs.

Licensing:
SIMATIC HMI Unified Basic Panels:
• Messages can be logged without an additional license.
• Up to 50 process values (tags) can be logged (file-based) without additional license.
SIMATIC HMI Unified Comfort Panels:
• Messages can be logged without an additional license.
• Up to 5000 process values (tags) can be logged (file-based) without an additional license.

SIMATIC WinCC Unified PC:

- Messages can be logged without an additional license.
- Graded licenses for the number of logging tags used are available for the archiving of process values (tags). This number can be increased at any time via additive WinCC Unified Logging Tags (countable licenses).
- The licenses are divided into 100, 500, 1 000, 5 000, 10 000 and 30 000 logging tags.
- A maximum of 5 000 logging tags are possible with utilization of the file-based archiving (default)
- When using the database-based archiving (optional), the number of logging tags is limited by the performance capability of the PC system being used.
- When using file-based archiving (default), a maximum of 5,000 logging tags are possible. With WinCC Unified Database Storage, the number of logging tags is only limited by the performance of the PC system used.

Upgrade

- The WinCC Unified Logging license is version-independent. No upgrade licenses are required

Trial

- Archive tags can be configured in trial mode without a valid license.

Selection and ordering data

SIMATIC WinCC Unified options	
WinCC Unified Logging	
Data storage medium	
• WinCC Unified Logging Tags (100)	**6AV2157-2DA00-0AB0**
• WinCC Unified Logging Tags (500)	**6AV2157-1EA00-0AB0**
• WinCC Unified Logging Tags (1000)	**6AV2157-2EA00-0AB0**
• WinCC Unified Logging Tags (5000)	**6AV2157-1FA00-0AB0**
• WinCC Unified Logging Tags (10k)	**6AV2157-2FA00-0AB0**
• WinCC Unified Logging Tags (30k)	**6AV2157-6FA00-0AB0**
Download [1]	
• WinCC Unified Logging Tags (100)	**6AV2157-2DA00-0LB0**
• WinCC Unified Logging Tags (500)	**6AV2157-1EA00-0LB0**
• WinCC Unified Logging Tags (1000)	**6AV2157-2EA00-0LB0**
• WinCC Unified Logging Tags (5000)	**6AV2157-1FA00-0LB0**
• WinCC Unified Logging Tags (10k)	**6AV2157-2FA00-0LB0**
• WinCC Unified Logging Tags (30k)	**6AV2157-6FA00-0LB0**

[1] Current information and availability regarding the new type of delivery can be found under this link.

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Overview

WinCC Unified Parameter Control

Option for SIMATIC WinCC Unified for the generation and management of parameter sets which contain associated machine or production data. The structure of a user data type (PLC UDT or HMI UDT) can be adopted for one or more parameter set types and can be changed automatically using a new user data type version.

Licensing:

SIMATIC Unified Basic Panels:

- Parameter Control is included in the scope of supply. No license is required

SIMATIC HMI Unified Comfort Panels:

- Parameter Control is included in the scope of supply. No license is required

SIMATIC WinCC Unified PC:

- You require a WinCC Unified Parameter Control (PC) license for the Parameter Control option on a runtime PC.

Upgrade

- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Parameter Control can be configured in trial mode without a valid license.

Selection and ordering data

SIMATIC WinCC Unified options	
WinCC Unified Parameter Control V19	
Data storage medium	
• WinCC Unified Parameter Control	**6AV2154-0BP02-4AB0**
Download [1]	
• WinCC Unified Parameter Control	**6AV2154-0BP02-4LB0**
WinCC Unified Parameter Control V18	
Data storage medium	
• WinCC Unified Parameter Control	**6AV2154-0BP02-3AB0**
Download [1]	
• WinCC Unified Parameter Control	**6AV2154-0BP02-3LB0**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Overview

WinCC Unified Report Execution

The scope of supply of WinCC Unified includes an Excel add-in that enables a connection between runtime data and Excel report templates. This runtime data includes, among other things:

- Tags
- Logging Tags
- Alarms
- Shift calendar
- Context Value Lists
- Performance Insight
- Line Coordination
- WinCC Unified SIQENCE (Recipe & Batch)

The report templates are imported into WinCC Unified Runtime at runtime – without the engineering system – and linked to execution parameters. Reports can then be generated automatically on a cyclical, demand-driven or event-driven basis and saved in Excel and/or PDF format or sent by email.

Licensing:

No license is required for the creation of reports in Excel and manual execution of the reports in Excel or from the Report Runtime Control.
A WinCC Unified Report Execution license (Panel or PC) is required for automated (cyclical, demand or event-driven) report generation.

SIMATIC Unified Basic Panels:

- Reporting is not supported.

SIMATIC HMI Unified Comfort Panels:

- For automatic execution of reports (time, event), you need a "WinCC Unified Report Execution" license on an HMI Unified Comfort Panel.

SIMATIC WinCC Unified PC:

- For automatic execution of reports (time, event), you need a "WinCC Unified Report Execution" license on a WinCC Unified PC.
- Upgrade
- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.

Trial

- WinCC Unified Parameter Control can be configured in trial mode without a valid license.

Selection and ordering data

SIMATIC WinCC Unified options	
WinCC Unified Report Execution V19	
WinCC Unified Report	
• Data storage medium	**6AV2157-0BQ02-4AB0**
• Download [1]	**6AV2157-0BQ02-4LB0**
WinCC Unified Report Execution V18	
WinCC Unified Report	
• Data storage medium	**6AV2157-0BQ02-3AB0**
• Download [1]	**6AV2157-0BQ02-3LB0**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Overview

WinCC Unified Runtime Collaboration

The option for Unified Collaboration offers the possibility to connect several Unified systems (Panels and PC) with each other and to exchange data in runtime.
For example, process displays from other stations can be referenced and shown in a display window to easily and efficiently create plant overview displays.

Licensing

Each WinCC Unified Station (Panel or PC) to be connected via Collaboration requires a corresponding license.

The volume and type of data exchanged is not limited. The configuration of Collaboration in the engineering system does not require additional licensing.

Licensing:

SIMATIC HMI Unified Basic Panels:

- The WinCC Unified Unified Collaboration option is not supported.

SIMATIC HMI Unified Comfort Panels:

- To use WinCC Unified Collaboration on an HMI Unified Comfort Panel, you need a WinCC Unified Collaboration license for each device involved.

SIMATIC WinCC Unified PC:

- To use Unified Collaboration on a WinCC Unified PC RT, you need a WinCC Unified Collaboration license for each device involved.
- Upgrade
- The license is version-dependent
- The upgrade license is included in the upgrade of the Unified basic system.
- Trial
- WinCC Unified Collaboration can be configured in trial mode without a valid license.

Selection and ordering data

SIMATIC WinCC Unified options	
WinCC Unified Collaboration V20	
Data storage medium	
• WinCC Unified Collaboration (1)	**6AV2154-0BR02-4AB0**
• WinCC Unified Collaboration (3x1)	**6AV2154-3JR02-4AB0**
Download [1]	
• WinCC Unified Collaboration (1)	**6AV2154-0BR02-4LB0**
• WinCC Unified Collaboration (3x1)	**6AV2154-3JR02-4LB0**
WinCC Unified Collaboration V19	
Data storage medium	
• WinCC Unified Collaboration (1)	**6AV2154-0BR02-3AB0**
• WinCC Unified Collaboration (3x1)	**6AV2154-3JR02-3AB0**
Download [1]	
• WinCC Unified Collaboration (1)	**6AV2154-0BR02-3LB0**
• WinCC Unified Collaboration (3x1)	**6AV2154-3JR02-3LB0**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Overview

Plant Intelligence options

With the SIMATIC WinCC Unified Plant Intelligence options, SIMATIC WinCC Unified PC Runtime system is expanded according to the requirements of production efficiency.

WinCC Unified Resource Consumption Management:

- Data Acquisition: Resource data analysis and reporting in SCADA
- Machine Efficiency Monitor: Standardized efficiency evaluation of machines
- Load Management: PLC based Peak- and Base-load management for consumers, producers and buffers

Note: Requires the use of S7-1500 PLCs.

WinCC Unified Calendar: Calendar-based production planning

Planning, configuration and management of events and actions in one general calendar in WinCC Unified (including connection of tags or scripts).

Structured planning of the running time of machines and systems, based on standard templates, for regular production days and shifts. In addition, the calendar function can be used to schedule process execution relative to a timeline.

Note: Requires the use of S7-1500 PLCs and technological plant hierarchy.

WinCC Unified Performance Insight: Identify optimization potentials

Definition, calculation and analysis of plant-specific key performance indicators (KPIs) for individual plant units, machines or entire production lines in machine or line-oriented production plants. analyze and optimize the overall effectiveness of your plant.

Individual KPIs are calculated using a formula editor according to ISO standard 22400. The Performance Insight option offers an extensive selection of WinCC controls for viewing and analysis directly in the visualization. In addition, the calculated KPIs can be documented in production reports

Note:Requires the use of S7-1500 PLCs and technological plant hierarchy.

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Overview

SIMATIC WinCC Unified Res Con – Resource Consumption Management

- Data Acquisition: Resource data analysis and reporting in SCADA
- Machine Efficiency Monitor: Standardized efficiency evaluation of machines
- Load Management: PLC based Peak- and Base-load management for consumers, producers and buffers

High resource consumption and automated production are typical for many industries. To keep your energy costs low and if you are looking into digitalization of your resource consumption, you can equip your system with resource measurement technology and thus anchor the resource management of your production. As a plant intelligence option SIMATIC WinCC Unified ResCon for WinCC Unified PC Runtime applications efficiently increase resource transparency and links sustainability management with your processes.

Resource Data Acquisition

Continuous and reliable data collection is required to be able to plan and implement energy efficiency measures reasonably. It is an essential prerequisite for a goal-oriented energy management system that supports the implementation of savings through the creation of data transparency.

Energy data collection and processing already take place within the automation environment:

The acquired resource data is standardized and calculated according to the set archiving period, time-stamped and made available for archiving. The billing-relevant energy and performance values can be archived directly on PLC's internal SIMATIC Memory Card or a connected archive of the WinCC Unified PC RT station:

- Archiving in WinCC Unified Archive:
  The billing-relevant basic energy data are archived in the archive of a connected WinCC Unified system according to the respective archiving period.
- Buffered communication:
  To ensure high data quality, the basic energy data is buffered before transferring to WinCC Unified archive. This means that this billing-relevant data is available in the WinCC Unified archive without loss or error even after a longer interruption of communication with the archive system.
- Archiving on SIMATIC Memory Card:
  The energy data is stored directly on the CPU's internal SIMATIC memory card according to the respective archiving period. There they are available at any time as a CSV file for direct download via the CPU's web server.

Machine Efficiency Monitor

Compare machines with similar functionality regarding their energy efficiency, based on energy values and machine status. The module generates status-related consumption of up to ten measuring points of different media (electricity, flow, compressed air, etc.).

Standardized Efficiency Assessment of Machines

Expanding the range of functions of SIMATIC WinCC Unified ResCon the "Machine Efficiency Monitor" helps with evaluation of production-related energy efficiency measures of your machines.

It includes an instruction library for STEP 7 (TIA Portal) and a corresponding HMI library for WinCC Unified and can be integrated into the machine control and visualization system by the machine manufacturer.

A simple resource efficiency assessment based on energy indicators is realized by linking energy consumption, production meters and the operating status.

Machine Efficiency Monitor enables machine builders to easily evaluate and report the energy efficiency of their machines in accordance with VDMA 34179. The machine-status-based analysis of energy data can be integrated into machines seamlessly and all data is logged automatically.

Peak Load Management

Control the power consumption of the infeed, that it does not exceed a defined average value at the end of the calculation period. Consumption values are analyzed in real time to be able to react to potential load peaks in the best way and at an early stage. These reactions consist of coordinated switching on/off or partially of actuators (loads, producers and buffers).

Peak Load Management with atypical grid usage:

When a flexible contract is negotiated with the energy supplier, the peak load management limits must be adjusted throughout the day or across different seasons of the year. Such contracts can achieve significant cost savings because they enable the energy supplier to distribute loads more evenly during periods of high demand. ResCon is capable of adapting to these dynamic requirements by automatically activating predefined parameter sets within specific time slots.

Base Load Management

For certain applications, it is helpful to ensure that the load profile is as uniform as possible. The performance should be kept within a defined range between a maximum and a minimum value. This allows the power consumption of a specific application (e.g., a charging park) to be regulated in real time.

Selection and ordering data

SIMATIC WinCC Unified ResCon	
Engineering Options	
WinCC Unified Rescon Engineering	**6AV2156-0ER02-5LA5**
Runtime	
Data Acquisition	
WinCC Unified ResCon Acquisition Small	**6AV2156-1AR02-5LA0**
WinCC Unified ResCon Acquisition Medium	**6AV2156-2AR02-5LA0**
WinCC Unified ResCon Acquisition Max	**6AV2156-3AR02-5LA0**
Machine Efficiency Monitor	
WinCC Unified ResCon Efficiency Monitor	**6AV2156-1MR02-5LA0**
WinCC Unified ResCon Efficiency Monitor Max.	**6AV2156-3MR02-5LA0**
Load Management	
WinCC Unified ResCon Load Management Small	**6AV2156-1LR02-5LA0**
WinCC Unified ResCon Load Management Medium	**6AV2156-2LR02-5LA0**
WinCC Unified ResCon Load Management Max	**6AV2156-3LR02-5LA0**

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Options

WinCC Unified ResCon Toolbox

- Export tool, for periodical export of logged energy data of WinCC Unified PC RT to Excel
- Transfer tool for buffered communication of the billing-relevant, periodic energy values of S7-1500 CPU directly into the tag logs of WinCC Unified PC RT

Energy Support Library

Includes S7 modules for simplified communication with measuring Siemens products of the SIMATIC, SENTRON, SINAMICS, SIRIUS and SIMOCODE product families.

With the installation of the Energy Support Library (EnSL), the supported devices can be recognized by WinCC Unified ResCon and can thus be configured as an energy data source by simply selecting the devices – this eliminates the need for time-consuming programming.

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Overview

WinCC Unified Calendar

Recurring, calendar-related working times (shifts) and processes (switching commands) can be planned and modified in advance using the WinCC Unified Calendar.

Planning is based on predefined templates and a time model. This time model is used equally for the "WinCC Unified Calendar" and "WinCC Unified Performance Insight" options.

A technological system hierarchy for the project is created in the TIA Portal. One main calendar is assigned to one branch (main node or root node) within this hierarchy. For runtime (within WinCC Unified Runtime), templates can be created for this main calendar and planning for working times and processes can be defined. Planning takes effect automatically for its "hierarchical children"; they can be supplemented or modified there.

The "WinCC Unified Calendar" option is only available for the WinCC Unified PC system.

Selection and ordering data

WinCC Unified Calendar V20	
Download [1]	
• WinCC Unified Calendar Base	**6AV2156-0BC02-4LA0**
• WinCC Unified Calendar Extension (1)	**6AV2156-1JC00-0LB0**
WinCC Unified Calendar Base Upgrade V18.. -> V20	**6AV2156-0BC32-4LA0**
WinCC Unified Calendar V19	
Download [1]	
• WinCC Unified Calendar Base	**6AV2156-0BC02-3LA0**
• WinCC Unified Calendar Extension (1)	**6AV2156-1JC00-0LB0**
WinCC Unified Calendar Base Upgrade V17.. -> V19	**6AV2156-0BC32-3LA0**
WinCC Unified Calendar V18	
Download [1]	
• WinCC Unified Calendar Base	**6AV2156-0BC01-8LA0**
• WinCC Unified Calendar Extension (1)	**6AV2156-1JC00-0LB0**
WinCC Unified Calendar Base Upgrade V16..V17 -> V18	**6AV2156-0BC31-8LA0**
Download [1]	

1) Current information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery

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Overview

WinCC Unified Performance Insight

The WinCC Unified Performance Insight can be used to calculate and analyze plant-specific performance indicators for individual plant units, machines or entire production lines in machine or line-oriented production plants with WinCC Unified PC systems.

Fault analyses provide information about the frequency and duration of machine or plant downtimes. The included controls can be effortlessly integrated in WinCC Unified process pictures.

The determined data gives information on the effectivity of individual machines and of entire production plants. The transparency of the data allows for a quick response and countermeasures in the event of malfunctions, which increases the availability of the machine. Structuring of the production plant constituting central elements for evaluation (equipment efficiency)

- Can be used for individual machines or even complete production plants
- Easy integration in existing WinCC Unified plants
- Cyclic or event-controlled calculation of indicators (KPIs)

All of the analysis results are integrated in the form of controls in WinCC Unified screens. Bar (performance), trend (Gantt) and table views are available in WinCC Unified process pictures. Complete transparency throughout the machine park as the basis for optimizing plant productivity via automatic execution of reports.

- Recognition of production relationships
- Calculation of downtimes and localization of sources
- Weak-point analysis in production processes.

Selection and ordering data

WinCC Unified Performance Insight	
Base V20	
Download; email address required for delivery	
• WinCC Unified Performance Insight (PC) Base incl. 3 analyzed plant objects	**6AV2156-0BP02-4LA0**
• WinCC Unified Performance Insight (PC) Base Upgrade V18.. -> V20	**6AV2156-0BP31-8LA0**
Extension (V20)	
Download; email address required for delivery	
• 10 analyzed plant objects	**6AV2156-2CP00-0LB0**
• 30 analyzed plant objects	**6AV2156-6CP00-0LB0**
• 100 analyzed plant objects	**6AV2156-2DP00-0LB0**
• 300 analyzed plant objects	**6AV2156-6DP00-0LB0**
Base V19	
Download; email address required for delivery	
• WinCC Unified Performance Insight (PC) Base incl. 3 analyzed plant objects	**6AV2156-0BP02-3LA0**
• WinCC Unified Performance Insight (PC) Base Upgrade V17.. -> V19	**6AV2156-0BP32-3LA0**
Extension (V19)	
Download; email address required for delivery	
• 10 analyzed plant objects	**6AV2156-2CP00-0LB0**
• 30 analyzed plant objects	**6AV2156-6CP00-0LB0**
• 100 analyzed plant objects	**6AV2156-2DP00-0LB0**
• 300 analyzed plant objects	**6AV2156-6DP00-0LB0**
Base V18	
Download; email address required for delivery	
• WinCC Unified Performance Insight (PC) Base incl. 3 analyzed plant objects	**6AV2156-0BP01-8LA0**
• WinCC Unified Performance Insight (PC) Base Upgrade V16.. -> V18	**6AV2156-0BP31-8LA0**

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Overview

SIMATIC WinCC Unified Runtime for Industrial Edge

The SIMATIC WinCC Unified for Industrial Edge system combines first-class SIMATIC HMI solutions with Industrial Edge, using the comfortable WinCC Unified Engineering (TIA Portal).

It offers app-based monitoring and control of machines, where data from production can be combined with information from other Edge apps.

This application can be purchased via the Edge Marketplace under this link

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview



SIMATIC WinCC (TIA Portal) engineering software

Family of configuration systems with WinCC Basic, Comfort, Advanced and Professional for SIMATIC HMI devices, as well as for the WinCC Runtime Advanced and WinCC Runtime Professional PC-based visualization systems.

SIMATIC WinCC Runtime Advanced visualization software

- PC-based operator control and monitoring solution for single-user systems directly at the machine
- Basic package for visualization, reporting and logging, user administration, can be expanded flexibly with VB scripts
- Basic package expandable by means of option packages
- Can be integrated into automation solutions based on TCP/IP networks
- Expanded service concepts with remote operation, diagnostics and administration over the intranet and internet in combination with email communication

SIMATIC WinCC Runtime Professional visualization software

- PC-based operator control and monitoring system for visualization and operator control of processes, production flows, machines and plants in all sectors – from the simple single-user station through to distributed multi-user systems and cross-location solutions with web clients. WinCC Runtime Professional is the information hub for corporation-wide vertical integration.
- Industry-standard functions for signaling and acknowledging events, archiving of messages and measured values, logging of all process and configuration data, user administration, can be expanded flexibly with VB and C scripts
- Basic package expandable by means of option packages
- Also included are APIs for the Runtime to utilize the open programming interfaces

More information on WinCC Unified (TIA Portal) is available at this link

SIMATIC WinCC Unified – The state-of-the-art system

Overview (continued)

The HMI system, anywhere from Panel to Edge to PC-based applications.

The licenses of WinCC (TIA Portal) permit engineering with WinCC Unified (TIA Portal)

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Overview

- Integrated family of engineering tools for configuring SIMATIC HMI devices, as well as for the PC-based visualization systems WinCC Runtime Advanced and WinCC Runtime Professional.
- WinCC (TIA Portal) is based on the new central engineering framework Totally Integrated Automation Portal (TIA Portal), which offers the user a uniform, efficient and intuitive solution to all automation tasks.
- WinCC (TIA Portal) also offers uniform engineering from the Basic Panel through to SCADA applications.
- Together with the STEP 7 (TIA Portal) products, WinCC (TIA Portal) forms the optimum solution for integrated, efficient engineering.

Selection and ordering data

SIMATIC WinCC basic software	
SIMATIC WinCC Basic V21	
• Data storage medium	**6AV2100-0AA02-5AA5**
• Download [1]	**6AV2100-0AA02-5AH5**
SIMATIC WinCC Comfort V20	
• Data storage medium	**6AV2101-0AA02-5AA5**
• Download [1]	**6AV2101-0AA02-5AH5**
SIMATIC WinCC Advanced V20	
• Data storage medium	**6AV2102-0AA02-5AA5**
• Download [1]	**6AV2102-0AA02-5AH5**
SIMATIC WinCC Professional V20	
Data storage medium	
• 512 PowerTags	**6AV2103-0DA02-5AA5**
• 4 096 PowerTags	**6AV2103-0HA02-5AA5**
• Max. PowerTags	**6AV2103-0XA02-5AA5**
Download [1]	
• 512 PowerTags	**6AV2103-0DA02-5AH5**
• 4 096 PowerTags	**6AV2103-0HA02-5AH5**
• Max. PowerTags	**6AV2103-0XA02-5AH5**
PowerPacks (without version change)	
SIMATIC WinCC Basic -> Comfort	
• Download [1]	**6AV2101-2AA00-0BJ5**
SIMATIC WinCC Comfort -> Advanced	
• Download [1]	**6AV2102-2AA00-0BJ5**
SIMATIC WinCC Advanced -> Professional	
Download [1]	
• 512 PowerTags	**6AV2103-2AD00-0BJ5**
• 4 096 PowerTags	**6AV2103-2DH00-0BJ5**
• Max. PowerTags	**6AV2103-2HX00-0BJ5**

Selection and ordering data (continued)

Upgrades	
WinCC V11..20 -> WinCC V21	
Data storage medium	
• SIMATIC WinCC Basic	**6AV2100-3AA02-5AE5**
• SIMATIC WinCC Comfort	**6AV2101-3AA02-5AE5**
• SIMATIC WinCC Advanced	**6AV2102-3AA02-5AE5**
• SIMATIC WinCC Professional 512 PowerTags	**6AV2103-3DA02-5AE5**
• SIMATIC WinCC Professional 4 096 PowerTags	**6AV2103-3HA02-5AE5**
• SIMATIC WinCC Professional max. PowerTags	**6AV2103-3XA02-5AE5**
Download [1]	
• SIMATIC WinCC Basic	**6AV2100-3AA02-5AK5**
• SIMATIC WinCC Comfort	**6AV2101-3AA02-5AK5**
• SIMATIC WinCC Advanced	**6AV2102-3AA02-5AK5**
• SIMATIC WinCC Professional 512 PowerTags	**6AV2103-3DA02-5AK5**
• SIMATIC WinCC Professional 4 096 PowerTags	**6AV2103-3HA02-5AK5**
• SIMATIC WinCC Professional max. PowerTags	**6AV2103-3XA02-5AK5**
WinCC flexible 2008 to WinCC V21	
• WinCC flexible Compact to WinCC Comfort	**6AV2101-4AB02-5AE5**
• WinCC flexible Standard to WinCC Comfort	**6AV2101-4BB02-5AE5**
• WinCC flexible Advanced to WinCC Advanced	**6AV2102-4AA00-5UE0**
Download [1]	
• WinCC flexible Compact to WinCC Comfort	**6AV2101-4AB02-5AK5**
• WinCC flexible Standard to WinCC Comfort	**6AV2101-4BB02-5AK5**
• WinCC flexible Advanced to WinCC Advanced	**6AV2102-4AA02-5AK5**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

SIMATIC WinCC basic software	
SIMATIC WinCC Basic V20	
• Data storage medium	**6AV2100-0AA02-4AA5**
• Download [1]	**6AV2100-0AA02-4AH5**
SIMATIC WinCC Comfort V20	
• Data storage medium	**6AV2101-0AA02-4AA5**
• Download [1]	**6AV2101-0AA02-4AH5**
SIMATIC WinCC Advanced V20	
• Data storage medium	**6AV2102-0AA02-4AA5**
• Download [1]	**6AV2102-0AA02-4AH5**
SIMATIC WinCC Professional V20	
Data storage medium	
• 512 PowerTags	**6AV2103-0DA02-4AA5**
• 4 096 PowerTags	**6AV2103-0HA02-4AA5**
• Max. PowerTags	**6AV2103-0XA02-4AA5**
Download [1]	
• 512 PowerTags	**6AV2103-0DA02-4AH5**
• 4 096 PowerTags	**6AV2103-0HA02-4AH5**
• Max. PowerTags	**6AV2103-0XA02-4AH5**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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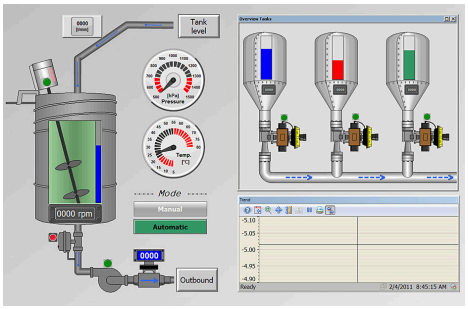
Selection and ordering data (continued)

Software Update Service	
For a period of 12 months and for a fixed price, the customer is automatically provided with all upgrades and Service Packs for each installed WinCC engineering system or option. The contract is automatically extended by a further year unless canceled at least 12 weeks prior to expiration.	
Software Update Service (Standard Edition)	
The delivery is implemented according to the number of ordered SUS products (e.g. 10 upgrade packages with 10 DVDs, 10 USB flash drives, etc.)	
• SIMATIC WinCC Comfort	**6AV6612-0AA00-0AL0**
• SIMATIC WinCC Advanced	**6AV6613-0AA00-0AL0**
• SIMATIC WinCC Professional 512 PowerTags	**6AV2103-0DA00-0AL0**
• SIMATIC WinCC Professional 4 096 PowerTags	**6AV2103-0HA00-0AL0**
• SIMATIC WinCC Professional max. PowerTags	**6AV2103-0XA00-0AL0**
Download [1] Email address required for delivery	
• SIMATIC WinCC Comfort	**6AV6612-0AA00-0AY0**
• SIMATIC WinCC Advanced	**6AV6613-0AA00-0AY0**
• SIMATIC WinCC Professional 512 PowerTags	**6AV2103-0DA00-0AY0**
• SIMATIC WinCC Professional 4 096 PowerTags	**6AV2103-0HA00-0AY0**
• SIMATIC WinCC Professional max. PowerTags	**6AV2103-0XA00-0AY0**
Software Update Service (Compact Edition)	
The delivery items are combined. For several contracts, only 1 package with 1 data storage medium set, 1 USB flash drive with the corresponding number of licenses and the corresponding number of CoLs will be supplied. Delivery items to be combined must be ordered as one item.	
• SIMATIC WinCC Comfort	**6AV6612-0AA00-0AM0**
• SIMATIC WinCC Advanced	**6AV6613-0AA00-0AM0**
• SIMATIC WinCC Professional 512 PowerTags	**6AV2103-0DA00-0AM0**
• SIMATIC WinCC Professional 4 096 PowerTags	**6AV2103-0HA00-0AM0**
• SIMATIC WinCC Professional max. PowerTags	**6AV2103-0XA00-0AM0**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Overview



SIMATIC WinCC Runtime Advanced visualization software

- PC-based operator control and monitoring solution for single-user systems directly at the machine
- Basic package for visualization, reporting and logging, user administration, can be expanded flexibly with VB scripts
- Basic package expandable by means of option packages
- Can be integrated into automation solutions based on TCP/IP networks
- Expanded service concepts with remote operation, diagnostics and administration over the intranet and internet in combination with email communication

http://www.siemens.com/wincc-advanced

SIMATIC WinCC Runtime Professional visualization software

- PC-based operator control and monitoring system for visualization and operator control of processes, production flows, machines and plants in all sectors – from the simple single-user station through to distributed multi-user systems and cross-location solutions with web clients. WinCC Runtime Professional is the information hub for corporation-wide vertical integration.
- Industry-standard functions for signaling and acknowledging events, archiving of messages and measured values, logging of all process and configuration data, user administration, can be expanded flexibly with VB and C scripts
- Basic package expandable by means of option packages
- Also included are APIs for the Runtime to utilize the open programming interfaces

More information is available on the internet at:
http://www.siemens.com/wincc-professional

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Overview

PC-based operator control and monitoring system for single-user systems directly at the machine.

SIMATIC WinCC Runtime Advanced V17 is configured with the configuration software SIMATIC WinCC Advanced V17, V18, V19, V20 and V21, SIMATIC WinCC Professional V17, V18, V19, V20 and V21.

Selection and ordering data

SIMATIC WinCC Runtime Advanced V17 Configurable with SIMATIC WinCC (TIA Portal) V17, V18, V19, V20 and V21	
Basic software	
Data storage medium	
• 128 PowerTags	**6AV2104-0BA07-0AA0**
• 512 PowerTags	**6AV2104-0DA07-0AA0**
• 2 048 PowerTags	**6AV2104-0FA07-0AA0**
• 4 096 PowerTags	**6AV2104-0HA07-0AA0**
• 8 192 PowerTags	**6AV2104-0KA07-0AA0**
• 16 384 PowerTags	**6AV2104-0LA07-0AA0**
As download [1] Email address required for delivery	
• 128 PowerTags	**6AV2104-0BA07-0AH0**
• 512 PowerTags	**6AV2104-0DA07-0AH0**
• 2 048 PowerTags	**6AV2104-0FA07-0AH0**
• 4 096 PowerTags	**6AV2104-0HA07-0AH0**
• 8 192 PowerTags	**6AV2104-0KA07-0AH0**
• 16 384 PowerTags	**6AV2104-0LA07-0AH0**
PowerPacks (version-independent)	
As download [1] Email address required for delivery	
• 128 PowerTags to 512 PowerTags	**6AV2104-2BD00-0BJ0**
• 512 PowerTags to 2 048 PowerTags	**6AV2104-2DF00-0BJ0**
• 2 048 PowerTags to 4 096 PowerTags	**6AV2104-2FH00-0BJ0**
• 4 096 PowerTags to 8 192 PowerTags	**6AV2104-2HK00-0BJ0**
• 8 192 PowerTags to 16 384 PowerTags	**6AV2104-2KL00-0BJ0**
Upgrades	
SIMATIC WinCC Runtime Advanced V11..16 to V17	
• 128 PowerTags	**6AV2104-3BB07-0AE0**
• 512 PowerTags	**6AV2104-3DD07-0AE0**
• 2 048 PowerTags	**6AV2104-3FF07-0AE0**
• 4 096 PowerTags	**6AV2104-3HH07-0AE0**
• 8 192 - 16 384 PowerTags	**6AV2104-3KK07-0AE0**
As download [1] Email address required for delivery	
• 128 PowerTags	**6AV2104-3BB07-0AK0**
• 512 PowerTags	**6AV2104-3DD07-0AK0**
• 2 048 PowerTags	**6AV2104-3FF07-0AK0**
• 4 096 PowerTags	**6AV2104-3HH07-0AK0**
• 8 192 - 16 384 PowerTags	**6AV2104-3KK07-0AK0**

Selection and ordering data (continued)

SIMATIC WinCC flexible 2008 to SIMATIC WinCC Runtime Advanced V17	
As download [1] Email address required for delivery	
• 128 PowerTags to 128 PowerTags	**6AV2104-4BB07-0AK0**
• 512 PowerTags to 512 PowerTags	**6AV2104-4DD07-0AK0**
• 2 048 PowerTags to 2 048 PowerTags	**6AV2104-4FF07-0AK0**
• 4 096 PowerTags to 4 096 PowerTags	**6AV2104-4HH07-0AK0**
• 8 000 PowerTags to 8 192 PowerTags	**6AV2104-4KK07-0AK0**
Options for WinCC (TIA Portal)	
Upgrade for WinCC flexible Panel Options (Sm@rtAccess/Sm@rtService/Audit)	
Runtime software, single license; without software, without documentation; Class A	
• License key on USB flash drive	**6AV2107-4XP00-0BF0**
• License key download; email address required for delivery	**6AV2107-4XP00-0BK0**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Technical specifications

The following tables of system limitations provide assistance in estimating whether a specific project is still within the system limitations for WinCC Runtime Advanced. The stated maximum values are not additive. Proper functioning of configurations that make full use of all system limits on the HMI devices cannot be guaranteed. In addition to the limitations specified, allowances must be made for restrictions in configuration memory resources.

	SIMATIC WinCC Runtime Advanced
Tags	
Number of tags in the project	24 576
Number of PowerTags	128–16 384
Number of elements per array	1 600
Number of local tags	8 192
Alarms	
Number of alarm classes	32
Number of discrete alarms	6 000
Number of analog alarms	500
Length of an alarm in characters	80
Number of process values per alarm	8
Size of the alarm buffer	2 048
Number of queued alarm events	500
Screens	
Number of screens	750
Number of fields per screen	600
Number of tags per screen	400
Number of complex objects per screen[1)]	40
Recipes	
Number of recipes	1 000
Number of elements per recipe[2)]	2 000
User data length in KB per data record	512
Number of data records per recipe	5 000
Logs	
Number of logs	100
Number of entries per log (including all log segments)[3)]	500 000
Number of log segments	400
Cyclical trigger for tag logging	1 s
Number of tags that can be logged per log	24 576
Trends	
Number of trends	800
Text lists and graphics lists	
Number of graphics lists	500
Number of text lists	500
Number of entries per text or graphics list	3 500
Number of graphic objects	24 576
Number of text elements	40 000
Scripts	
Number of scripts	200

Technical specifications (continued)

	SIMATIC WinCC Runtime Advanced
Communication	
Number of connections	8
Number of connections based on "SIMATIC HMI HTTP"	16
Maximum number of connected Sm@rtClients (including a service client)	4 [4)]
Online help	
Number of characters in a help text	500
Languages	
Number of runtime languages	32
Scheduler	
Time-triggered tasks[5)]	48
User administration	
Number of user groups	50
Number of user authorizations	32
Number of users	100

1) Complex objects are: Bars, sliders, symbol library, clock, and all objects from the Controls area.
2) When using arrays, each array element represents a recipe element
3) For the "segmented circular log" logging method, the number of entries for all sequence logs is valid. The product derived from the number of circular logs times the number of data records in this log may not be exceeded.
4) Up to three Sm@rtClients can interconnect with the Sm@rtServer on Panel PC 477.
5) Event-triggered tasks are not relevant for the system limits.

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Overview

PC-based operator control and monitoring system for visualization and operator control of processes, production flows, machines and plants in all sectors – from the simple single-user station through to distributed multi-user systems and cross-location solutions with web clients.

SIMATIC WinCC Runtime Professional is the information hub for corporation-wide vertical integration. SIMATIC WinCC Runtime Professional is configured with the SIMATIC WinCC Professional configuration software.

Selection and ordering data

SIMATIC WinCC Runtime Professional V21	
Basic software	
• 128 PowerTags	**6AV2105-0BA02-5AA0**
• 512 PowerTags	**6AV2105-0DA02-5AA0**
• 2 048 PowerTags	**6AV2105-0FA02-5AA0**
• 4 096 PowerTags	**6AV2105-0HA02-5AA0**
• 8 192 PowerTags	**6AV2105-0KA02-5AA0**
• 65 536 PowerTags	**6AV2105-0MA02-5AA0**
• 102 400 PowerTags	**6AV2105-0PA02-5AA0**
• 153 600 PowerTags	**6AV2105-0RA02-5AA0**
• 262 144 PowerTags	**6AV2105-0TA02-5AA0**
• Client for Runtime Professional	**6AV2107-0DB02-5AA0**
Incl. 500 archive tags each	
As download [1] Email address required for delivery.	
• 128 PowerTags	**6AV2105-0BA02-5AH0**
• 512 PowerTags	**6AV2105-0DA02-5AH0**
• 2 048 PowerTags	**6AV2105-0FA02-5AH0**
• 4 096 PowerTags	**6AV2105-0HA02-5AH0**
• 8 192 PowerTags	**6AV2105-0KA02-5AH0**
• 65 536 PowerTags	**6AV2105-0MA02-5AH0**
• 102 400 PowerTags	**6AV2105-0PA02-5AH0**
• 153 600 PowerTags	**6AV2105-0RA02-5AH0**
• 262 144 PowerTags	**6AV2105-0TA02-5AH0**
• Client for Runtime Professional	**6AV2107-0DB02-5AH0**
Incl. 500 archive tags each	
SIMATIC WinCC Runtime Professional ASIA V21	
• 128 PowerTags	**6AV2105-0BA12-5AA0**
• 512 PowerTags	**6AV2105-0DA12-5AA0**
• 2 048 PowerTags	**6AV2105-0FA12-5AA0**
• 4 096 PowerTags	**6AV2105-0HA12-5AA0**
• 8 192 PowerTags	**6AV2105-0KA12-5AA0**
• 65 536 PowerTags	**6AV2105-0MA12-5AA0**
• 102 400 PowerTags	**6AV2105-0PA12-5AA0**
• 153 600 PowerTags	**6AV2105-0RA12-5AA0**
• 262 144 PowerTags	**6AV2105-0TA12-5AA0**
Incl. 500 archive tags each	

Selection and ordering data (continued)

PowerPacks (version-independent)	
As download [1] Email address required for delivery.	
• 128 to 512 PowerTags	**6AV2105-2BD00-0BJ0**
• 512 to 2 048 PowerTags	**6AV2105-2DF00-0BJ0**
• 2 048 to 4 096 PowerTags	**6AV2105-2FH00-0BJ0**
• 4 096 to 8 192 PowerTags	**6AV2105-2HK00-0BJ0**
• 8 192 to 65 536 PowerTags	**6AV2105-2KM00-0BJ0**
• 65 536 to 102 400 PowerTags	**6AV2105-2MP00-0BJ0**
• 102 400 to 153 600 PowerTags	**6AV2105-2PR00-0BJ0**
• 153 600 to 262 144 PowerTags	**6AV2105-2RT00-0BJ0**
Upgrades V19..20 to WinCC V21	
SIMATIC WinCC Runtime Professional and SIMATIC WinCC Runtime Professional ASIA	
• SIMATIC WinCC Runtime Professional 128 PowerTags	**6AV2105-3BB02-5AE0**
• SIMATIC WinCC Runtime Professional 512 PowerTags	**6AV2105-3DD02-5AE0**
• SIMATIC WinCC Runtime Professional 2 048 PowerTags	**6AV2105-3FF02-5AE0**
• SIMATIC WinCC Runtime Professional 4 096 PowerTags	**6AV2105-3HH02-5AE0**
• SIMATIC WinCC Runtime Professional 8 192 PowerTags	**6AV2105-3KK02-5AE0**
• SIMATIC WinCC Runtime Professional 64k to 256k PowerTags	**6AV2105-3MM02-5AE0**
• Client for Runtime Professional	**6AV2107-3DB02-5AE0**
As download [1] Email address required for delivery.	
• SIMATIC WinCC Runtime Professional 128 PowerTags	**6AV2105-3BB02-5AK0**
• SIMATIC WinCC Runtime Professional 512 PowerTags	**6AV2105-3DD02-5AK0**
• SIMATIC WinCC Runtime Professional 2 048 PowerTags	**6AV2105-3FF02-5AK0**
• SIMATIC WinCC Runtime Professional 4 096 PowerTags	**6AV2105-3HH02-5AK0**
• SIMATIC WinCC Runtime Professional 8 192 PowerTags	**6AV2105-3KK02-5AK0**
• SIMATIC WinCC Runtime Professional 64k to 256k PowerTags	**6AV2105-3MM02-5AK0**
• Client for Runtime Professional	**6AV2107-3DB02-5AK0**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link.

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Selection and ordering data (continued)

SIMATIC WinCC Runtime Professional V20	
Basic software	
• 128 PowerTags	**6AV2105-0BA02-4AA0**
• 512 PowerTags	**6AV2105-0DA02-4AA0**
• 2 048 PowerTags	**6AV2105-0FA02-4AA0**
• 4 096 PowerTags	**6AV2105-0HA02-4AA0**
• 8 192 PowerTags	**6AV2105-0KA02-4AA0**
• 65 536 PowerTags	**6AV2105-0MA02-4AA0**
• 102 400 PowerTags	**6AV2105-0PA02-4AA0**
• 153 600 PowerTags	**6AV2105-0RA02-4AA0**
• 262 144 PowerTags	**6AV2105-0TA02-4AA0**
• Client for Runtime Professional	**6AV2107-0DB02-4AA0**
Incl. 500 archive tags each	
As download [1] Email address required for delivery.	
• 128 PowerTags	**6AV2105-0BA02-4AH0**
• 512 PowerTags	**6AV2105-0DA02-4AH0**
• 2 048 PowerTags	**6AV2105-0FA02-4AH0**
• 4 096 PowerTags	**6AV2105-0HA02-4AH0**
• 8 192 PowerTags	**6AV2105-0KA02-4AH0**
• 65 536 PowerTags	**6AV2105-0MA02-4AH0**
• 102 400 PowerTags	**6AV2105-0PA02-4AH0**
• 153 600 PowerTags	**6AV2105-0RA02-4AH0**
• 262 144 PowerTags	**6AV2105-0TA02-4AH0**
• Client for Runtime Professional	**6AV2107-0DB02-4AH0**
Incl. 500 archive tags each	
SIMATIC WinCC Runtime Professional ASIA V20	
• 128 PowerTags	**6AV2105-0BA12-4AA0**
• 512 PowerTags	**6AV2105-0DA12-4AA0**
• 2 048 PowerTags	**6AV2105-0FA12-4AA0**
• 4 096 PowerTags	**6AV2105-0HA12-4AA0**
• 8 192 PowerTags	**6AV2105-0KA12-4AA0**
• 65 536 PowerTags	**6AV2105-0MA12-4AA0**
• 102 400 PowerTags	**6AV2105-0PA12-4AA0**
• 153 600 PowerTags	**6AV2105-0RA12-4AA0**
• 262 144 PowerTags	**6AV2105-0TA12-4AA0**
Incl. 500 archive tags each	
Upgrades V17..18 to WinCC V19	
SIMATIC WinCC Runtime Professional V16..17 and SIMATIC WinCC Runtime Professional ASIA V16..V17 to V18	
• SIMATIC WinCC Runtime Professional 128 PowerTags	**6AV2105-3BB02-4AE0**
• SIMATIC WinCC Runtime Professional 512 PowerTags	**6AV2105-3DD02-4AE0**
• SIMATIC WinCC Runtime Professional 2 048 PowerTags	**6AV2105-3FF02-4AE0**
• SIMATIC WinCC Runtime Professional 4 096 PowerTags	**6AV2105-3HH02-4AE0**
• SIMATIC WinCC Runtime Professional 8 192 PowerTags	**6AV2105-3KK02-4AE0**
• SIMATIC WinCC Runtime Professional 64k to 256k PowerTags	**6AV2105-3MM02-4AE0**
• Client for Runtime Professional	**6AV2107-3DB02-4AE0**

Selection and ordering data (continued)

As download [1]	
• SIMATIC WinCC Runtime Professional 128 PowerTags	**6AV2105-3BB02-4AK0**
• SIMATIC WinCC Runtime Professional 512 PowerTags	**6AV2105-3DD02-4AK0**
• SIMATIC WinCC Runtime Professional 2 048 PowerTags	**6AV2105-3FF02-4AK0**
• SIMATIC WinCC Runtime Professional 4 096 PowerTags	**6AV2105-3FF02-4AK0**
• SIMATIC WinCC Runtime Professional 8 192 PowerTags	**6AV2105-3KK02-4AK0**
• SIMATIC WinCC Runtime Professional 64k to 256k PowerTags	**6AV2105-3MM02-4AK0**
• Client for Runtime Professional	**6AV2107-3DB02-4AK0**
Upgrades V17..18 to WinCC V19	
SIMATIC WinCC Runtime Professional V16..17 and SIMATIC WinCC Runtime Professional ASIA V16..V17 to V18	
• SIMATIC WinCC Runtime Professional 128 PowerTags	**6AV2105-3BB02-3AE0**
• SIMATIC WinCC Runtime Professional 512 PowerTags	**6AV2105-3DD02-3AE0**
• SIMATIC WinCC Runtime Professional 2 048 PowerTags	**6AV2105-3FF02-3AE0**
• SIMATIC WinCC Runtime Professional 4 096 PowerTags	**6AV2105-3HH02-3AE0**
• SIMATIC WinCC Runtime Professional 8 192 PowerTags	**6AV2105-3KK02-3AE0**
• SIMATIC WinCC Runtime Professional 64k to 256k PowerTags	**6AV2105-3MM02-3AE0**
• Client for Runtime Professional	**6AV2107-3DB02-3AE0**
As download [1] Email address required for delivery.	
• SIMATIC WinCC Runtime Professional 128 PowerTags	**6AV2105-3BB02-3AK0**
• SIMATIC WinCC Runtime Professional 512 PowerTags	**6AV2105-3DD02-3AK0**
• SIMATIC WinCC Runtime Professional 2 048 PowerTags	**6AV2105-3FF02-3AK0**
• SIMATIC WinCC Runtime Professional 4 096 PowerTags	**6AV2105-3HH02-3AK0**
• SIMATIC WinCC Runtime Professional 8 192 PowerTags	**6AV2105-3KK02-3AK0**
• SIMATIC WinCC Runtime Professional 64k to 256k PowerTags	**6AV2105-3MM02-3AK0**
• Client for Runtime Professional	**6AV2107-3DB02-3AK0**

[1] Up-to-date information and availability regarding the new type of delivery can be found at this link

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Selection and ordering data (continued)

Software Update Service (SUS)	
SIMATIC WinCC RT Professional Software Update Service (SUS); Under this contract, you receive all current software versions for a period of one year. The contract is automatically extended for one more year unless it is canceled three months before expiration. Delivery and service period: 1 year from date of invoice Condition for contract: current software version	
• standard	**6AV2105-0XA00-0AL0**
• as download; email address required for delivery	**6AV2105-0XA00-0AY0**
SIMATIC WinCC RT Professional Client Software Update Service (SUS); Under this contract, you receive all current software versions for a period of one year. The contract is automatically extended for one more year unless it is canceled three months before expiration. Delivery and service period: 1 year from date of invoice Condition for contract: current client version	
• standard	**6AV2107-0DB00-0AL0**
• as download; email address required for delivery	**6AV2107-0DB00-0AY0**

Technical specifications

The following tables of system limits provide assistance in estimating whether a specific project is still within the system limitations for WinCC Runtime Professional. The stated maximum values are not additive.

We cannot guarantee proper functioning of configurations that make full use of all system limits on the HMI devices. In addition to the limitations specified, allowances must be made for restrictions in configuration memory resources.

	SIMATIC WinCC Runtime Professional
Alarms	
Configurable alarms per server/single user	150,000
PowerTags per alarm line	10
User text blocks per alarm line	10
Message classes	256
Alarm types	16
Alarm priorities	17 (0...16)
Alarms in Runtime	
Alarms per alarm log	Unlimited [1]
Alarms per short-term log list	1,000
Alarms per long-term log list	1,000[2]
Alarms per alarm display	5,000[3]
Screens	
Objects per screen [4]	Unlimited [5]
Levels per screen	32
Screens per project	Unlimited [5]
Instances of fixed faceplates in a process screen	31 instances of the same picture type
Screen size in pixels	10 000 x 10 000
Nesting levels of screen objects	20
Recipes	
Number of recipes	Unlimited [5]
Number of recipe elements	500 [6]
Number of recipe data records	10,000 [6]
Number of views	Unlimited [5]
Logs	
Trend views per screen	25
Trends per trend view	80
Tables per screen	25
Columns per table	12
Values per table	30,000
Logs per single-user station/server	100
Log tags per single-user station/server [7]	80,000
Trends	
Trend views per image	25
Trends per trend view	80
User administration	
Number of user groups	128
Number of user rights	999
Number of users	128
Configurations – Quantity structure in a multi-user system	
WinCC Clients in a system	32 [8] [9]
Web clients in a system	150 [10]

1) Limited by system resources.
2) On single-user station or server or on client per server if "LongTimeArchiveConsistency" is set to "No". On single-user station, server, or client if "LongTimeArchiveConsistency" is set to "Yes".
3) On single-user station or server or on client per server.
4) The number and complexity of the objects affect the performance.
5) Limited by system resources.
6) The sum of the number of recipe elements and number of data records must not exceed a value of 1,000,000
7) Dependent on the Logging PowerPack used for the log tags. 500 log tags are contained in the basis version.
8) If the server is also used as an operator station, the number of clients for this server is reduced to four.

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Technical specifications (continued)

9) Mixed configuration: 32 clients + 3 web clients
10) Mixed configuration: 50 web clients + 1 WinCC Client

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Overview

Communication – SIMATIC WinCC Runtime Advanced

WinCC Advanced is an open visualization system and offers the option of connecting the most diverse control systems.

Number of connectable controllers

WinCC Advanced permits the parallel coupling of up to 8 controllers. Connection to controllers from other manufacturers.

The following "Coupling overview" table includes lists of third-party protocols and controllers from other manufacturers which are directly supported by WinCC Advanced. Generally it is also possible to connect controllers from other manufacturers via OPC (OLE for Process Control).

Current notes and information about OPC servers from many different suppliers can be found at: http://www.opcfoundation.org/

WinCC Advanced supports the standards:

- OPC Data Access 2.05a
- OPC UA Data Access 1.01
- OPC XML Data Access 1.00 (client via DCOM/XML gateway)

Coupling overview for WinCC Runtime Advanced

Protocol	Description	PC interface
SIMATIC S7		
Ethernet TCP/IP (S7 communication)	Channel for communication via Ethernet TCP/IP with max. 8 x SIMATIC S7 controllers S7-1200, S7-1500 S7-300, S7-400, S7-200 with CP 243-1	CP 1612 A2 CP 1623
MPI, PROFIBUS (S7 communication)	Channel for communication via MPI, PROFIBUS with max. 8 x SIMATIC S7 controllers S7-1200 with CM 1243-5 (DP master), S7-1500 S7-300, S7-400, S7-200 (passive S7-200 only)	CP 5612 CP 5622 CP 5711 CP 5613 A3 CP 5623
PPI (PPI protocol)	Channel for communication via PPI with 1 x SIMATIC S7-200 (network operation, e.g. parallel PG possible)	CP 5612 CP 5622 CP 5711 CP 5613 A3 CP 5623
Software interface (S7 communication)	Channel for communication via software interface with WinAC	
SINUMERIK [2]		
Ethernet TCP/IP (S7 communication)	Channel for communication via Ethernet TCP/IP with SINUMERIK 840D sl	CP 1612 A2 CP 1623
MPI (S7 communication)	Channel for communication via MPI with SINUMERIK 840D sl	CP 5612 CP 5622 CP 5711 CP 5613 A3 CP 5623
Controllers from other manufacturers (WinCC V11.0 and higher) [3]		
Allen Bradley DF1	Channel for communication with Allen Bradley controllers via DF1 protocol The controllers SLC500 / MicroLogix and PLC5 are supported [3]	COM1/COM2
Mitsubishi MC TCP/IP	Channel for communication with max. 4 x Mitsubishi controllers via Ethernet TCP/IP with Mitsubishi MC TCP/IP protocol The FX3, Q, and iQ/QnUD controller series are supported	CP 1612 A2
Mitsubishi FX	Channel for communication with Mitsubishi controllers via FX protocol The FX1N, FX2N controllers are supported	COM1/COM2
Modbus TCP/IP	Channel for communication with max. 4 x Modicon controllers via Ethernet TCP/IP using the Modbus TCP/IP protocol The Quantum, Momentum, Premium, TSX Micro, Compact and M340 controllers are supported	CP 1612 A2
Modbus RTU	Channel for communication with Modicon controllers via the Modbus RTU protocol The Quantum, Momentum, and Compact controllers are supported	COM1/COM2
Omron Link / Multi Link	Channel for communication with Omron controllers via the Link/Multi protocol The CP1x, CJ1x, CJ2H, CS1x, and CP2MC controllers are supported	COM1/COM2
Cross-vendor		
OPC client [1] [4] for OPC DA, OPC UA DA, XML DA	Channel for OPC communication, WinCC can acquire data from OPC server applications	CP 1612 A2
OPC server for OPC DA	Server applications for OPC communication; WinCC provides process data to OPC clients	CP 1612 A2

1) HTTP and OPC communication can be used in combination with the other couplings; regarding SIMATIC Panels
that support HTTP or OPC communication, see the overview under "System interfaces (WinCC V11)".
2) "SINUMERIK Operate WinCC RT Advanced" license required; for more information, see Catalog NC 60.
3) For detailed information regarding supported controllers, see "System interfaces (WinCC V11)"
4) Application note:
Parallel use of the OPC client channel allows, for example, connection to an SNMP OPC server for
visualization of the data present there. The SNMP OPC server enables monitoring of any
network components (e.g. switches) that support the SNMP protocol. More information can be found
under SIMATIC NET communications systems/SNMP OPC server.

Communication – SIMATIC WinCC Runtime Professional

WinCC Professional is an open process visualization system and offers the option of connecting the most diverse control systems.

Released communication software

Only communication software with the listed (or higher) product versions should be used. Corresponding SIMATIC NET upgrades are available for the upgrading of older versions.

Number of connectable controllers

With CP 1623, a maximum of 64 S7 controllers can be connected via Industrial Ethernet; with CP 5612/CP 5622 a maximum of 8 and with CP 5613 A3 a maximum of 44 S7 controllers via PROFIBUS. With approx. 10 or more controllers, the use of Industrial Ethernet is recommended.

Client-server communication

Communication between the clients and the server is implemented using the TCP/IP protocol. The construction of a separate PC-LAN is recommended. For small projects with correspondingly small message frame advent, a SIMATIC NET Industrial Ethernet can be used for both process communication (WinCC/server ↔ PLC) and for PC-PC communication (WinCC/client ↔ WinCC/server)

Controllers from other manufacturers

The following "Coupling overview" table includes lists of third-party protocols and controllers from other manufacturers which are directly supported by WinCC Professional. Generally it is also possible to connect controllers from other manufacturers via OPC (OLE for Process Control).

Current notes and information about OPC servers from many different suppliers can be found at: http://www.opcfoundation.org/

WinCC Professional supports the standards:

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Overview (continued)

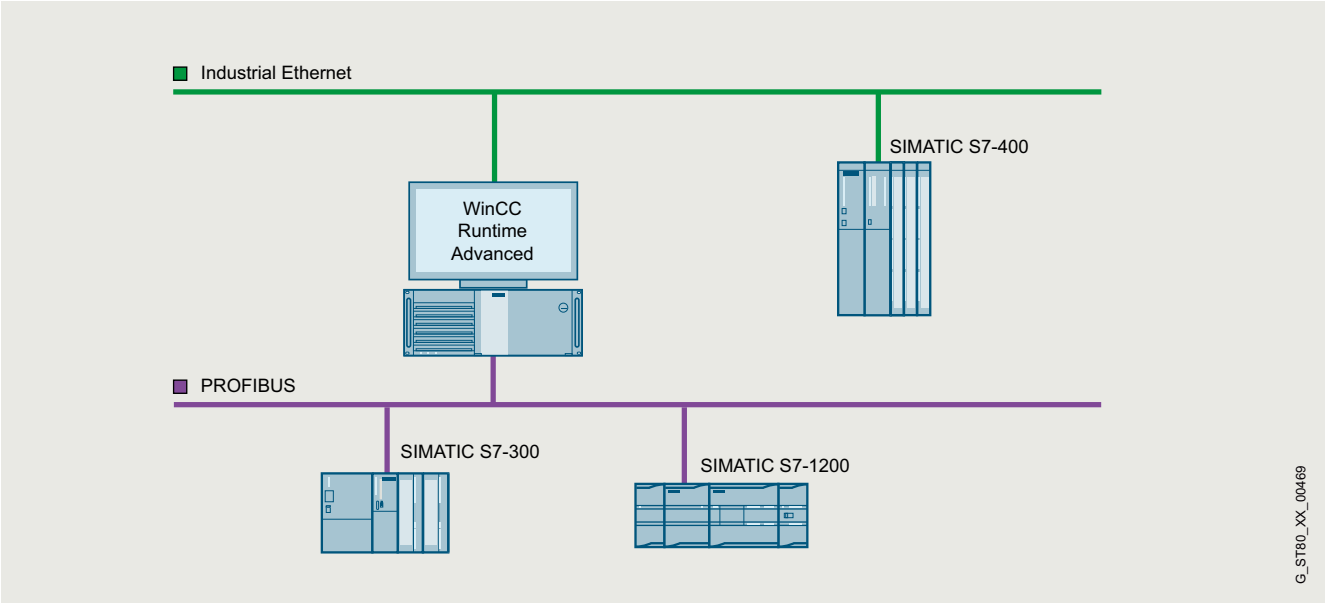
- OPC Data Access 2.05a
- OPC Data Access 3.00
- OPC UA Data Access 1.01
- OPC XML Data Access 1.00
- OPC HDA 1.20
- OPC A&E 1.10

Coupling overview for WinCC Runtime Professional

Protocol	Description	PC interface
SIMATIC S7		
SIMATIC S7	Protocol Suite with channel units for communication with SIMATIC S7 via • Ethernet TCP/IP (S7 communication) to S7-1200, S7-1500, S7-300, S7-400 • MPI, PROFIBUS (S7 communication) to S7-1200 with CM 1243-5 (DP master), S7-1500, S7-300, S7-400 • Software interface (S7 communication) to WinAC	CP 5612 CP 5622 CP 5711 CP 5613 A3 CP 5623
Controllers from other manufacturers (WinCC V11.0 and higher)		
Allen Bradley Ethernet IP	Channel for communication with Allen Bradley controllers via Ethernet TCP/IP with Ethernet IP protocol The ControlLogix / CompactLogix, SLC500 / MicroLogix, and PLC5 controllers are supported	CP 1612 A2
Mitsubishi MC TCP/IP	Channel for communication with Mitsubishi controllers via Ethernet TCP/IP with Mitsubishi MC TCP/IP protocol The FX3, Q, and iQ/QnUD controller series are supported	CP 1612 A2
Modbus TCP/IP	Channel for communication with Modicon controllers via Ethernet TCP/IP using the Modbus TCP/IP protocol The Quantum, Momentum, Premium, TSX Micro, Compact and M340 controllers are supported	CP 1612 A2
Cross-vendor		
OPC client [1] for OPC DA, OPC XML DA	Channel for OPC communication, WinCC can acquire data from OPC server applications	CP 1612 A2
OPC server for OPC DA, OPC UA DA, OPC XML DA, OPC A&E, OPC HDA	Server applications for OPC communication; WinCC provides process data to OPC clients	CP 1612 A2

1) Application note:
Parallel use of the OPC client channel allows, for example, connection to an SNMP OPC server for
visualization of the data present there. The SNMP OPC server enables monitoring of any
network components (e.g. switches) that support the SNMP protocol. More information can be found
under SIMATIC NET communications systems/SNMP OPC server.

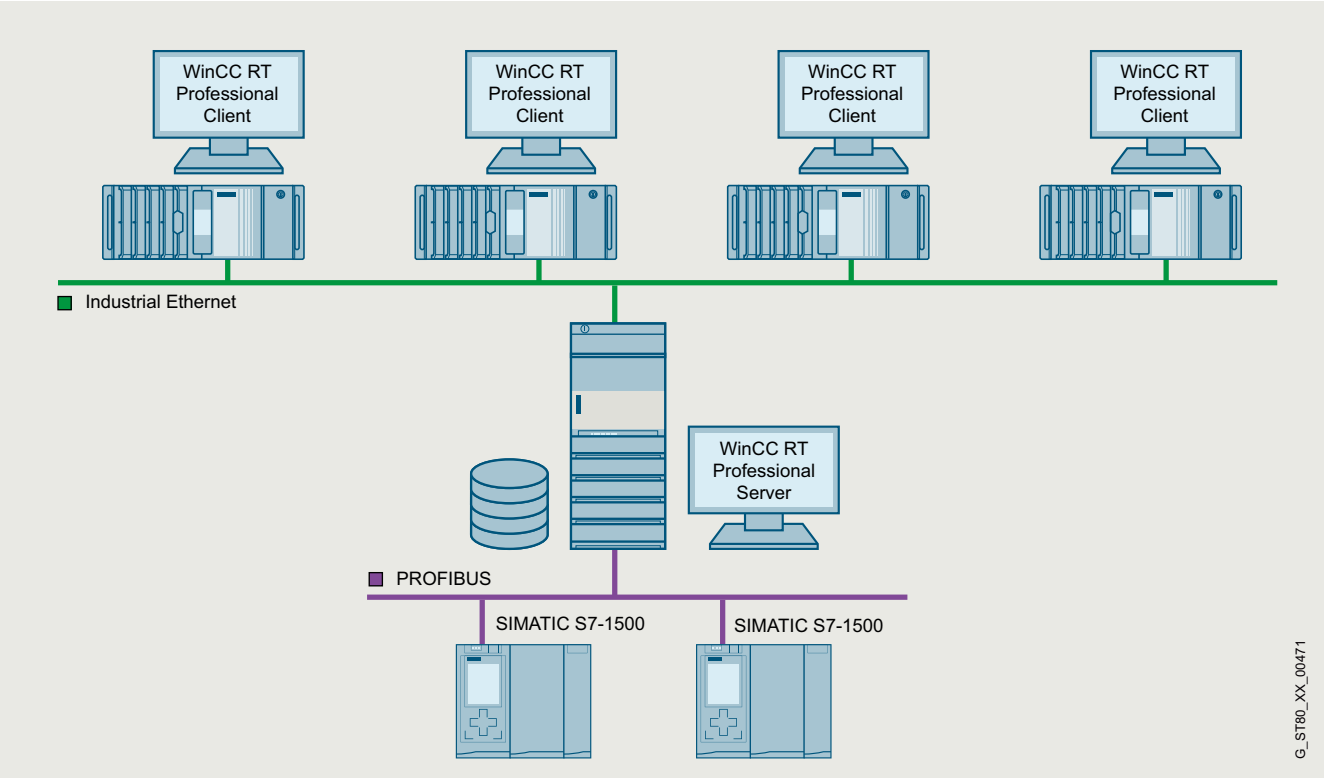
Communications examples



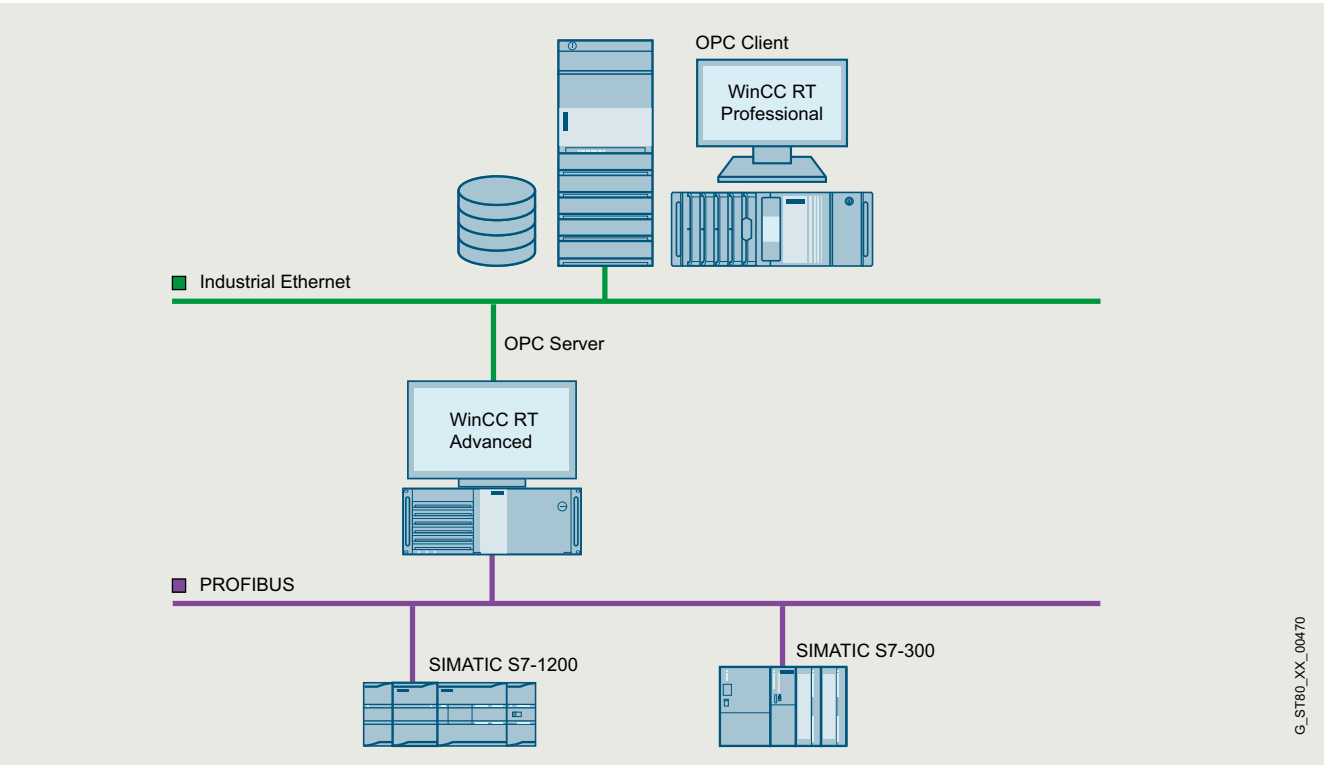
WinCC Runtime Advanced single-user system

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Overview (continued)



WinCC Runtime Professional multi-user system with operable server



OPC coupling

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Selection and ordering data

SIMATIC WinCC (TIA Portal) communication

Communication via Industrial Ethernet TCP/IP	
CP 1623 PCI Express X1 card (32-bit) for connection of PG/PC to Industrial Ethernet (communications software must be ordered separately)	**6GK1162-3AA00**
Communication via PROFIBUS	
CP 5612 PCI card (32-bit) for connecting a PG/PC to PROFIBUS (communications software included in the WinCC basic package)	**6GK1561-2AA00**
CP 5622 PCI Express X1 card (32-bit) for connection of PG/PC to PROFIBUS (communications software included in WinCC basic package)	**6GK1562-2AA00**
CP 5711 USB adapter (USB V2.0) for connecting a PG/notebook to PROFIBUS or MPI (communications software included in WinCC Basic package)	**6GK1571-1AA00**
CP 5613 A3 PCI Card (32-bit) for connecting a PC to PROFIBUS (communication software must be ordered separately)	**6GK1561-3AA02**
CP 5623 PCI Express X1 card (32-bit) for connection of PG/PC to Industrial Ethernet (communications software must be ordered separately)	**6GK1562-3AA00**

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Overview



The SINUMERIK Create MyHMI /PRO configuration system together with the SINUMERIK Run MyHMI PRO software option for SINUMERIK ONE provides a machine user interface for operator control and monitoring tasks in mass production, such as for flexible lines, machining centers, and assembly lines. SINUMERIK Run MyHMI /PRO standardizes the operation of machines with diverse tasks and technologies by means of operating screen forms and a parameterizable navigation menu.

The technology-specific operating screen forms are combined into function groups, e.g.:

- Machine functions:
  Workpiece counting, cycle times, workpiece overview
- Help texts
- EE@Transline (energy efficiency)
- Overviews
- Tool changing functions
- Setup/manual operation functions

Prepared diagnostics functions support rapid fault localization in the event of a machine fault.

Selection and ordering data

Description	Article No.
Solutions for Powertrain **TRANSLINE HMI Lite** Runtime software Languages: Chinese Simplified, German, English, French, Italian, Spanish	
• Single License on DVD-ROM Current software version	**6FC5263-0PY11-0AG0**
• Single License on DVD-ROM Software version 8.0 for TIA Portal V13	**6FC5263-8PY11-0AG0**
• Single License on DVD-ROM Software version 8.1 for TIA Portal V14	**6FC5263-8PY11-1AG0**
• Single License on DVD-ROM Software version 8.2 for TIA Portal V15	**6FC5263-8PY11-2AG0**
• Single License on DVD-ROM Software version 15.1 for TIA Portal V15.1	**6FC5263-1PY11-5AG1**
• Single License on DVD-ROM Software version 16.0 for TIA Portal V16.0	**6FC5263-1PY11-6AG0**
• Single License on DVD-ROM Software version 17.0 for TIA Portal V17.0	**6FC5263-1PY11-7AG0**
• Single License to download Software version 20 for TIA Portal V20	**6FC5263-1PE12-4AG0**
• Copy Single License without data storage medium	**6FC5263-0PY11-0AG1**
SINUMERIK HMI PRO **Engineering System**	
Create MyHMI /PRO	
• DVD-ROM without license For SINUMERIK ONE Current software version	**6FC5867-3YC00-0YA8**
• DVD-ROM without license For SINUMERIK ONE Software version 9.5	**6FC5867-3YC85-0YA8**
Run MyHMI /PRO	
• For SINUMERIK ONE Software option (in conjunction with SINUMERIK Operate operating software) Electronic license as PDF	**6FC5800-0BP47-0YB0**

*) Marketing and sales via Siemens regional company.

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Overview

Options for SIMATIC Panels, SIMATIC WinCC Runtime Advanced and SIMATIC WinCC Runtime Professional

SIMATIC ProDiag

- Fully-integrated TIA solution for machine and plant diagnostics
- Saves the need for programming diagnostics in the CPU during the engineering phase and provides support for troubleshooting directly on the HMI without an engineering system using diagnostic overviews and PLC code

SIMATIC Logon

- Creates user administration on a central computer to which one or more WinCC stations can be connected over Ethernet networks.
- With each user logon/logoff on one of the connected stations, SIMATIC Logon checks whether a user password has been created and that the required authorizations exist.
- SIMATIC Logon supports the user in combination with the Audit option in meeting requirements in accordance with FDA 21 CFR Part 11 and EU178.

Options for SIMATIC WinCC Runtime Advanced and SIMATIC WinCC Runtime Professional

SIMATIC WinCC Logging

- Logging of messages and process values
- Online evaluation of process value logs and alarm logs
- Evaluation of process value and alarm logs using standard MS tools such as Excel

SIMATIC WinCC Recipes

- Generation and management of data records for machine or production data
- Display or entry of data records via a configurable screen object or via process pictures distributed within the project
- Transmission of data records from or to the PLC
- Import/export of data records for further processing with other tools (e.g. MS Excel)

Options for SIMATIC Panels and SIMATIC WinCC Runtime Advanced

SIMATIC WinCC Audit

- Recording of operator actions in an Audit Trail
- Electronic signature for important user actions relevant to production
- Audit supports users in meeting special quality requirements, e.g.
  - Production plants requiring validation according to FDA 21 CFR Part 11
  - In respect of traceability according to EU 175/2002 (EU directive)

SIMATIC WinCC Sm@rtServer

- Flexible solution for location-independent access to HMI systems
- Remote maintenance of machines and plants via the Internet/intranet
- Reduced downtimes for machines and plants due to direct remote access
- Flexible solution for location-independent access to machines and plants

Options for SIMATIC WinCC Runtime Professional

SIMATIC WinCC DataMonitor

- Display and evaluation of current process states and historical data on office PCs with standard tools.
- Information can be individually compiled online during runtime via the Internet/intranet.

WinCC IndustrialDataBridge for WinCC Runtime Professional (V13 SP1 and higher)

Using the SIMATIC WinCC IndustrialDataBridge, communication links between different data sources and data targets can be created by means of simple configuration/parameter assignment. The WinCC IndustrialDataBridge can either be integrated into WinCC or used as a stand-alone application (not in conjunction with WinCC).

SIMATIC Information Server

SIMATIC Information Server is an open, web-based report system for interactive areas. Reports can be used in Internet Explorer, for Excel, Word or PowerPoint, as well as for Adobe Reader (pdf). The SIMATIC Information Server has access to archived process values and messages, and can be used either directly in conjunction with WinCC / WinCC/RT Professional / PCS7 OS or with SIMATIC Process Historian 2014.

For more detailed information on the SIMATIC Information Server and article numbers, see SCADA System SIMATIC WinCC.

SIMATIC Process Historian

SIMATIC Process Historian is a powerful, long-term archive server solution that stores the WinCC process values and messages in a central database. The system offers full scalability for performance and scope: It records and stores data from one or more WinCC, WinCC/RT Professional and PCS 7 projects. The number of connected single stations, servers, or redundant server pairs is unrestricted. SIMATIC Process Historian is designed for use throughout your plant, and is positioned below the corporate management level (ERP, MES).

For more detailed information on the SIMATIC Process Historian and article numbers, see SCADA System SIMATIC WinCC.

SIMATIC WinCC Redundancy

For assembling a high-performance, fail-safe, client-server system. One WinCC/Redundancy package is required for each redundant pair of servers.

SIMATIC WinCC Server and SIMATIC WinCC Client

For assembling a high-performance client-server system

- A number of coordinated HMI stations can be operated in a single group with networked automation systems
- Client/server solution:
  - One server supplies up to 32 connected clients with process and archive data, messages, screens and reports.

SIMATIC WinCC WebNavigator

- Operator control and monitoring of plants via the Internet or the in-house intranet/LAN
- Web Client permits the operator control and monitoring of a current WinCC Runtime Professional project via an Internet browser with ActiveX support

SIMATIC WinCC WebUX

- Mobile operator control and monitoring via the Internet or the in-house intranet/LAN, using commercially available mobile devices.
- Platform and browser can be used independently on HTML5-capable and SVG-capable data terminal equipment without installation on the client.

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Overview (continued)

Overview of the individual options

Options	WinCC RT Advanced	WinCC RT Professional	SIMATIC Panels
SIMATIC ProDiag	•	•	•
SIMATIC Logon	•	•	•
WinCC Logging	•	•	• [1]
WinCC Recipes	•	•	• [1]
WinCC Audit	•	-	•
WinCC Sm@rtServer	• [1]	-	• [1]
WinCC DataMonitor	-	•	-
WinCC IndustrialDataBridge	-	•	-
SIMATIC Information Server	-	•	-
SIMATIC Process Historian	-	•	-
WinCC Redundancy	-	•	-
WinCC Server/WinCC Client	-	•	-
WinCC WebNavigator	-	•	-
WinCC WebUX	-	•	-

• possible

[1] integrated in basic system

http://www.siemens.com/wincc-tia-portal-options

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Overview



- Option for connecting SIMATIC Panels and PCs with SIMATIC WinCC Runtime Advanced as well as WinCC Runtime Professional to a central user administration.
- Creates user administration on a central computer to which one or more panels or WinCC stations can be connected over Ethernet.
- With each logging-on/off of a user on one of the connected stations, SIMATIC Logon checks whether a user password has been created and that the required privileges exist.

SIMATIC Logon for Panels and WinCC Runtime Advanced

- All users of the SIMATIC Panels or WinCC Runtime Advanced stations can be managed plant-wide from a central location
- Supports the user in combination with the Audit option in meeting requirements in accordance with FDA 21 CFR Part 11 and EU178.
- Licensing:
  SIMATIC Logon (basic license) and SIMATIC Logon Remote Access (3-pack license) for the connection of 3 panels or WinCC Runtime Advanced stations to a central user administration. Additional stations can be connected by using further SIMATIC Logon Remote Access (3-pack / 10-pack) licenses.

SIMATIC Logon for WinCC Runtime Professional

- All users of WinCC Runtime Professional can be managed plant-wide from a central location.
- The central user management with SL utilizes Windows mechanisms and must be installed on all participating WinCC Runtime Professional stations.
- Licensing
  SIMATIC Logon (basic license) is included in the basic package of WinCC Runtime Professional

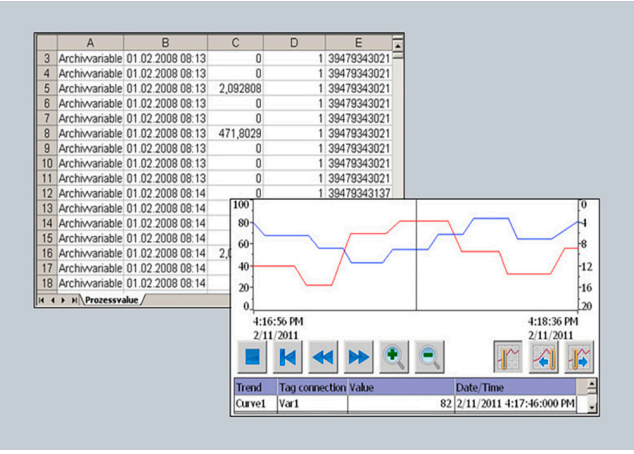
Selection and ordering data

SIMATIC Logon V1.6 Basic license [1] For Panels or WinCC Runtime Advanced stations, the corresponding number of additional SIMATIC Logon Remote Access licenses is required. No SIMATIC Logon Remote Access licenses are required for WinCC Runtime Professional	**6ES7658-7BX61-0YA0**
SIMATIC Logon upgrade to V1.6	**6ES7658-7BX61-0YE0**
SIMATIC Logon Remote Access (3 clients) Remote Access for 3 clients; single license for 3 SIMATIC Logon Remote Access clients; the number of licensed clients is determined from the sum of the installed SIMATIC Logon Remote Access licenses.	**6ES7658-7BA00-2YB0**
SIMATIC Logon Remote Access (10 clients) Remote Access for 10 clients; single license for 10 SIMATIC Logon Remote Access clients; the number of licensed clients is determined from the sum of the installed SIMATIC Logon Remote Access licenses.	**6ES7658-7BB00-2YB0**

1) SIMATIC Logon V1.5 included in scope of supply of WinCC Runtime Professional.

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Overview



- Option for SIMATIC WinCC Runtime Advanced and WinCC Runtime Professional for logging process values and alarms
- Logging of process values and alarms supports the acquisition and processing of process data from an industrial plant or machine. Evaluation of the logged process data provides information about the operating states of the plant or machine
- Licensing:
  - SIMATIC Panels / Multi Panels / Comfort Panels: No license is required.
  - WinCC Runtime Advanced: One license is required per operator station
  - WinCC Runtime Professional: 500 Logging Tags are already included in the basic package The number of Logging Tags can be increased by means of additional licenses

Selection and ordering data

SIMATIC WinCC Logging for Runtime Advanced [1]	
• Single license, license key only on USB flash drive	**6AV2107-0GA00-0BB0**
• As download [2] Single license, license key download only Email address required for delivery	**6AV2107-0GA00-0BH0**
SIMATIC WinCC Recipes + Logging for Runtime Advanced [1]	
• Single license per option, license key only on USB flash drive	**6AV2107-0HA00-0BB0**
• As download [2] Single license, license key download only Email address required for delivery	**6AV2107-0HA00-0BH0**
SIMATIC WinCC Logging for Runtime Professional 1500 logging tags	
• Single license, license key only on USB flash drive	**6AV2107-0GB00-0BB0**
• As download [2] Single license, license key download only Email address required for delivery	**6AV2107-0GB00-0BH0**
SIMATIC WinCC Logging for Runtime Professional 5 000 logging tags	
• Single license, license key only on USB flash drive	**6AV2107-0GD00-0BB0**
• As download [2] Single license, license key download only Email address required for delivery	**6AV2107-0GD00-0BH0**

1) One license is required for each operator station. A license is not required for the engineering system for configuring the runtime option.
2) Current information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery

Technical specifications

	WinCC Logging for Runtime Advanced
	The values specified are maximum values
Number of logs	100
Archivable data	Process values, alarms
Cyclical trigger for archiving process values (variables)	1 s
Max. number of entries per log (incl. sequence log)	500,000 [1]
Log types	Circular logs, sequence logs (max. 400 per log)
Data storage format	CSV (Comma Separated Variable), RDB (Runtime Data Base), Microsoft SQL database (database not included in scope of delivery)

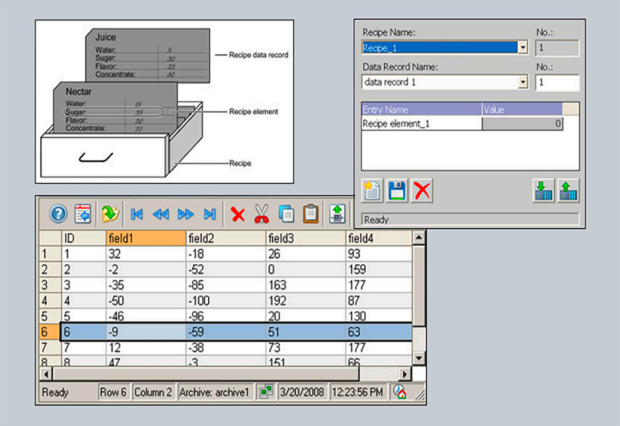
1) Dependent on memory medium used

	WinCC Logging for Runtime Professional
	The values specified are maximum values
Number of logs per single-user station/server	100
Archivable data	Process values, alarms
Measured values per second, max.	Server/single-user station: 5 000 per sec.
Log tags per single-user station/server	80,000 [2]
Log types	Circular log with and without long-term logging
Data storage format	Microsoft SQL 2008 database

2) Dependent on the Logging PowerPack used for the log tags. 500 log tags are contained in the basis version.

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Overview



- Option for SIMATIC WinCC Runtime Advanced and WinCC Runtime Professional for managing data records in recipes that contain related machine or production data
- The data in a data set can be transferred, for example, from the control unit to the PLC to switch production to a different product variant
- Licensing:
  - SIMATIC Panels / Multi Panels / Comfort Panels:
    No license is required.
  - WinCC Runtime Advanced:
    One license is required per operator station
  - WinCC Runtime Professional:
    A license is only required on the server (or single-user system).

Selection and ordering data

SIMATIC WinCC Recipes for Runtime Advanced [1]	
• Single license, license key only on USB flash drive	**6AV2107-0JA00-0BB0**
• As download [2] Single license, license key download only Email address required for delivery	**6AV2107-0JA00-0BH0**
SIMATIC WinCC Recipes + Logging for Runtime Advanced [1]	
• Single license, license key only on USB flash drive	**6AV2107-0HA00-0BB0**
• As download [2] Single license, license key download only Email address required for delivery	**6AV2107-0HA00-0BH0**
SIMATIC WinCC Recipes for Runtime Professional [1]	
• Single license, license key only on USB flash drive	**6AV2107-0JB00-0BB0**
• As download [2] Single license, license key download only Email address required for delivery	**6AV2107-0JB00-0BH0**

1) One license is required for each operator console. A license is not required for the engineering system for configuring the runtime option.
2) Current information and availability regarding the new delivery form can be found at:

Technical specifications

	WinCC Recipes for Runtime Advanced
	The values specified are maximum values
Number of recipes	1 000
Number of elements per recipe [1]	2 000
User data length in KB per data record	256
Number of data records per recipe	5 000

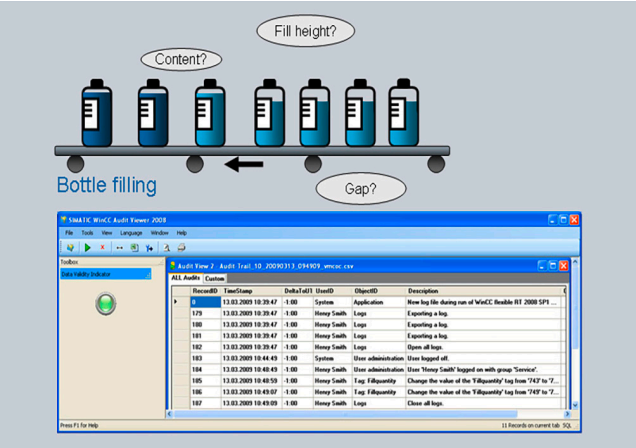
1) When using arrays, each array element represents a recipe element

	WinCC Recipes for Runtime Professional
	The values specified are maximum values
Number of recipes	1 000 [2]
Number of elements per recipe [1]	500 [3]
User data length in KB per data record	3 000 [3]
Number of data records per recipe	3 000 [2]

2) Limited by system resources.
3) The product of the number of recipe elements and the number of data records must not exceed a value of 320 000.

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Overview



- Option for SIMATIC WinCC Runtime Advanced as well as SIMATIC Panels for recording operations in an Audit Trail, and electronic signature
- The Audit Trail is furnished with a security mechanism that displays subsequent manipulations.
- A user-friendly configuration function, which is included as standard in WinCC, is used to define the following:
  - Which operator actions should be recorded in the Audit Trail during runtime
  - Which important operator actions during runtime require electronic signature/comments
- Available for the following SIMATIC HMI systems:
  - Comfort Panels
  - Mobile Panels
  - TP/OP 277
  - MP 277
  - MP 377
  - WinCC Runtime Advanced
- Licensing:
  - A license for SIMATIC WinCC Logging and SIMATIC WinCC Audit is required for every operator station (panel or PC).

Selection and ordering data

SIMATIC WinCC Audit for SIMATIC Comfort/Mobile Panels	
• Single license, license key only on USB flash drive	**6AV2107-0RP00-0BB0**
• As download [1] Single license, license key download only Email address required for delivery	**6AV2107-0RP00-0BH0**
SIMATIC WinCC Audit for Runtime Advanced [2]	
• Single license, license key only on USB flash drive	**6AV2107-0RA00-0BB0**
• As download [1] Single license, license key download only Email address required for delivery	**6AV2107-0RA00-0BH0**

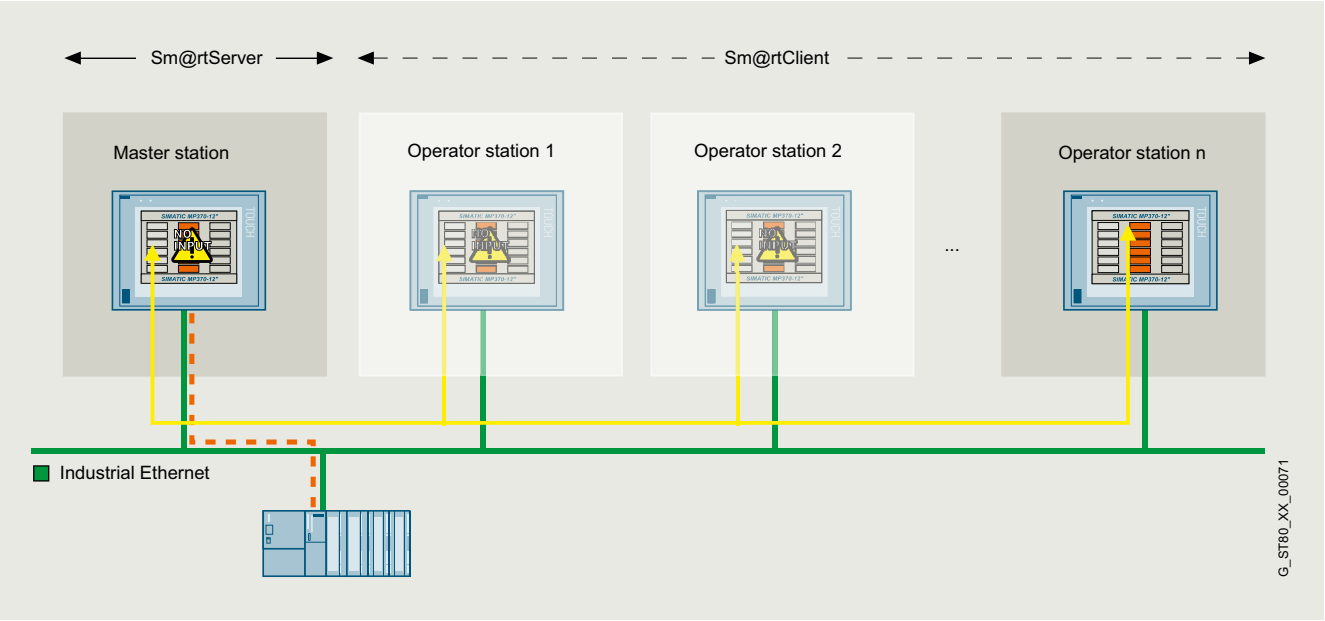
1) Current information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery
2) The following license is also required: SIMATIC WinCC Logging for Runtime Advanced

Technical specifications

	WinCC Audit
Storage location for Audit Trail when used on the Panel	Plug-in Flash memory card or via Ethernet in the higher-level PC
Storage location for Audit Trail when using WinCC Runtime Advanced	Local hard disk or via Ethernet in the higher-level PC
Execution platform	
SIMATIC Panels	Mobile Panel 277, TP/OP 277
SIMATIC Multi Panels	MP 277, MP 377
SIMATIC Comfort Panels	all
PC systems	SIMATIC WinCC Runtime Advanced

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Overview



- Option for SIMATIC WinCC Runtime Advanced plus SIMATIC Panels for communication between various SIMATIC HMI systems.
- Available for the following SIMATIC HMI systems:
  - Basic Panels 2nd Generation (with Ethernet interface)
  - Comfort Panels
  - Mobile Panel 2nd Generation, Mobile Panel 277, Mobile Panel 177 PN
  - TP 177B PN/DP, OP 177B PN/DP
  - TP 277, OP 277
  - MP 177, MP 277, MP 377
  - WinCC Runtime Advanced
- A SIMATIC HMI system can be used to control or monitor another system remotely; entry level for client/server configurations for distributed operator stations or for solutions with head end or control room
- Local operation, visualization and data processing are as possible as plant-wide access to information. Integrated information flows ensure an overview of the status of all processes.
- Licensing:
  The "SIMATIC WinCC Sm@rtServer for Panel" or "SIMATIC WinCC Sm@rtServer for Basic Panel" or "SIMATIC WinCC Sm@rtServer for Runtime Advanced" license must be installed on the server operator panel.
  For Basic Panels as of V17, for Comfort / Mobile Panels as of V14, and for WinCC Runtime Advanced as of version V14 SP1, a license is no longer required.
  A license is not required for the engineering system for configuring the runtime option.

Note:

When accessing the operator stations via the Sm@rtServer option, suitable protective measures (including IT security such as network segmentation) should be taken in order to ensure safe operation of the system.

Additional information on the topic of industrial security is available on the Internet at:

http://www.siemens.com/industrialsecurity

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Selection and ordering data

WinCC Sm@rtServer for SIMATIC Basic Panels [1) 5)]	
• Single license License key only on USB flash drive	**6AV2107-0CR00-0BB0**
• As download [2)] Single license, license key download only Email address required for delivery	**6AV2107-0CR00-0BH0**
WinCC Sm@rtServer for SIMATIC Panels [1) 3)]	
• Single license License key only on USB flash drive	**6AV2107-0CP00-0BB0**
• As download [2)] Single license, license key download only Email address required for delivery	**6AV2107-0CP00-0BH0**
WinCC Sm@rtServer for Runtime Advanced [1) 4)]	
• Single license License key only on USB flash drive	**6AV2107-0CA00-0BB0**
• As download [2)] Single license, license key download only Email address required for delivery	**6AV2107-0CA00-0BH0**

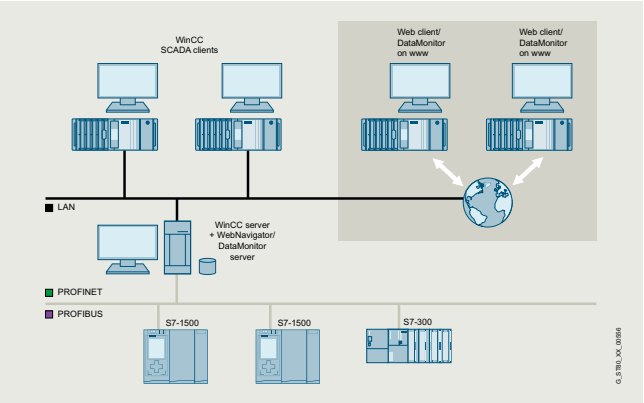
1) The license must be installed on the Sm@rtServer operator panel. A license is not required for the engineering system for configuring the runtime option.
2) Current information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery
3) The license is no longer required for version V14 or higher
4) The license is no longer required for version V14 SP1 or higher
5) The license is no longer required for version V17 or higher

Technical specifications

	WinCC Sm@rtServer
	The values specified are maximum values
Execution platform	
SIMATIC Basic Panels 2nd Generation	All devices with Ethernet interfaces
SIMATIC Comfort Panels	all
SIMATIC Panels	Mobile Panel 177 PN, Mobile Panel 277, TP/OP 177B PN/DP, TP/OP 277
SIMATIC Multi Panels	MP 177, MP 277, MP 377
PC systems	SIMATIC WinCC Runtime Advanced
Number of Sm@rtClients that can simultaneously connect to a Sm@rtServer	
SIMATIC Basic Panels 2nd Generation	1 client
Comfort Panel, Mobile Panel 2nd Generation as Sm@rtServer	2 clients for 4" devices 3 clients for 7", 9", 12" and 15" devices 2 clients for 19" devices 1 client for 22" devices
Mobile Panel 177 PN, TP/OP 177B PN/DP, MP 177 as Sm@rtServer	2 clients
Mobile Panel 277, TP/OP 277, MP 277 as Sm@rtServer	3 clients for 6" devices 2 clients for 8" and 10" devices
MP 377 as Sm@rtServer	3 clients for 12" devices 2 clients for 15" devices 1 client for 19" devices
WinCC Runtime Advanced as Sm@rtServer	5 clients

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Overview



WinCC DataMonitor

- The WinCC DataMonitor is used for display and evaluation of current process states and historical data on office PCs using standard tools such as Microsoft Internet Explorer or Microsoft Excel.
  The DataMonitor Client is supported by a web server with current and historical process data and alarms. All staff ranging from machine operators to corporate managers can use the DataMonitor to obtain information. In combination with WinCC V7 and with the aid of the multiclient architecture, access can be made to several lower-level WinCC stations.
- DataMonitor is a suite of Internet-capable tools:
  - Process Screens
    Tool exclusively for monitoring and navigating via WinCC or WinCC Runtime Professional screens using the WinCC Web Viewer (WinCCViewer RT) in the "view only" mode
  - Excel Workbooks
    Logging tool that integrates WinCC or WinCC Runtime Professional Archive and online values into Microsoft Excel and supports online analysis
  - Published Reports
    Event- or time-driven execution of Excel or PDF reports for the output of process data and analysis results.
  - WebCenter
    Individual configuration of Internet pages and compilation of information within a portal.
- DataMonitor does not require manual client installation because it loads the required components from the DataMonitor server
- There is no installation required on the client for the WebCenter, Trends and Alarms functions.

Licenses

- A (server-based) license is required for the WinCC DataMonitor. This is a graduated license based on the number of simultaneous web client access operations and can be incremented at any time using additive web client licenses (countable licenses).
- The DataMonitor Client software can be installed as many times as required without the need for a license.

Additional information is available on the Software Update Service, license types, online software delivery and handling your software licenses with the Automation License Manager here:
http://www.siemens.com/simatic-licenses

Selection and ordering data

SIMATIC WinCC DataMonitor as from Runtime Professional V14 and WinCC as from V7.4 [2]	
Standard scope of supply	
• 1 client license (countable)	**6AV6362-3AB00-0BB0**
• 3 client licenses (countable)	**6AV6362-3AD00-0BB0**
• 10 client licenses (countable)	**6AV6362-3AF00-0BB0**
• 30 client licenses (countable)	**6AV6362-3AJ00-0BB0**
As download [1]	
• 1 client license (countable)	**6AV6362-3AB00-0AH0**
• 3 client licenses (countable)	**6AV6362-3AD00-0AH0**
• 10 client licenses (countable)	**6AV6362-3AF00-0AH0**
• 30 client licenses (countable)	**6AV6362-3AJ00-0AH0**

1) Current information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery
2) As from WinCC V14 the licenses are cumulative (countable), i.e. one 10 client license and one 30 client license permit access by 40 clients.

A license is not required for the engineering system for configuring the runtime option.

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Overview

Option for SIMATIC WinCC (TIA Portal), supporting the parallel operation of two interfaced WinCC single-user systems or process data servers for mutual monitoring

If one of the two server PCs or one of the two WinCC stations fails, the second one will take over control of the entire system. Once the failed server or station is restored to operation, the contents of all the message and process value archives are copied to it.

One WinCC Redundancy package is required for each redundant pair of servers.

Selection and ordering data

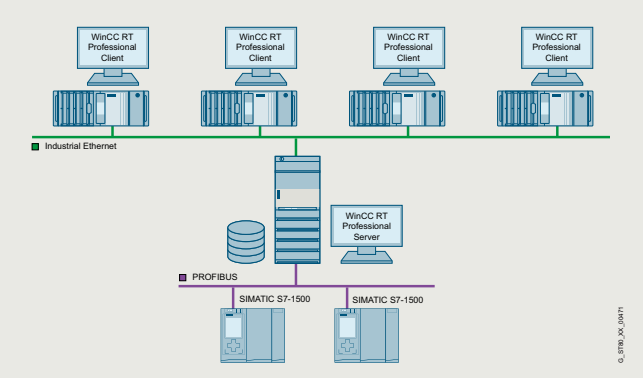
SIMATIC WinCC Redundancy for Runtime Professional	
• Single license for 2 installations, license key on USB flash drive, software and documentation on DVD	**6AV2107-0FB00-0BB0**
• As download [1] Single license for 2 installations, license key download only Email address required for delivery	**6AV2107-0FB00-0BH0**

1) Current information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery

A license is not required for the engineering system for configuring the runtime option.

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Overview



- Option for SIMATIC WinCC Runtime Professional, which permits the configuration of a powerful client/server system
- One of the following operating systems must be available to install the option on the server: Windows Server 2016, Windows Server 2019, Windows Server 2022, Windows 10 Professional, or Windows 11 Professional. When using Windows 10/11 Professional, a maximum of 3 clients can be connected.
- A number of coordinated HMI stations can be operated in a single group with networked automation systems.
- Client/server solution: One server supplies up to 32 connected clients with process and archive data, messages, screens and reports
  - Requirement: Network connection (TCP/IP) between the server PC and the connected clients.
- Licensing:
  - A WinCC Runtime Professional license on the server with the appropriate number of PowerTags and the "WinCC Server for RT Professional" license.
  - The "WinCC Client for RT Professional" license on the clients.

Selection and ordering data

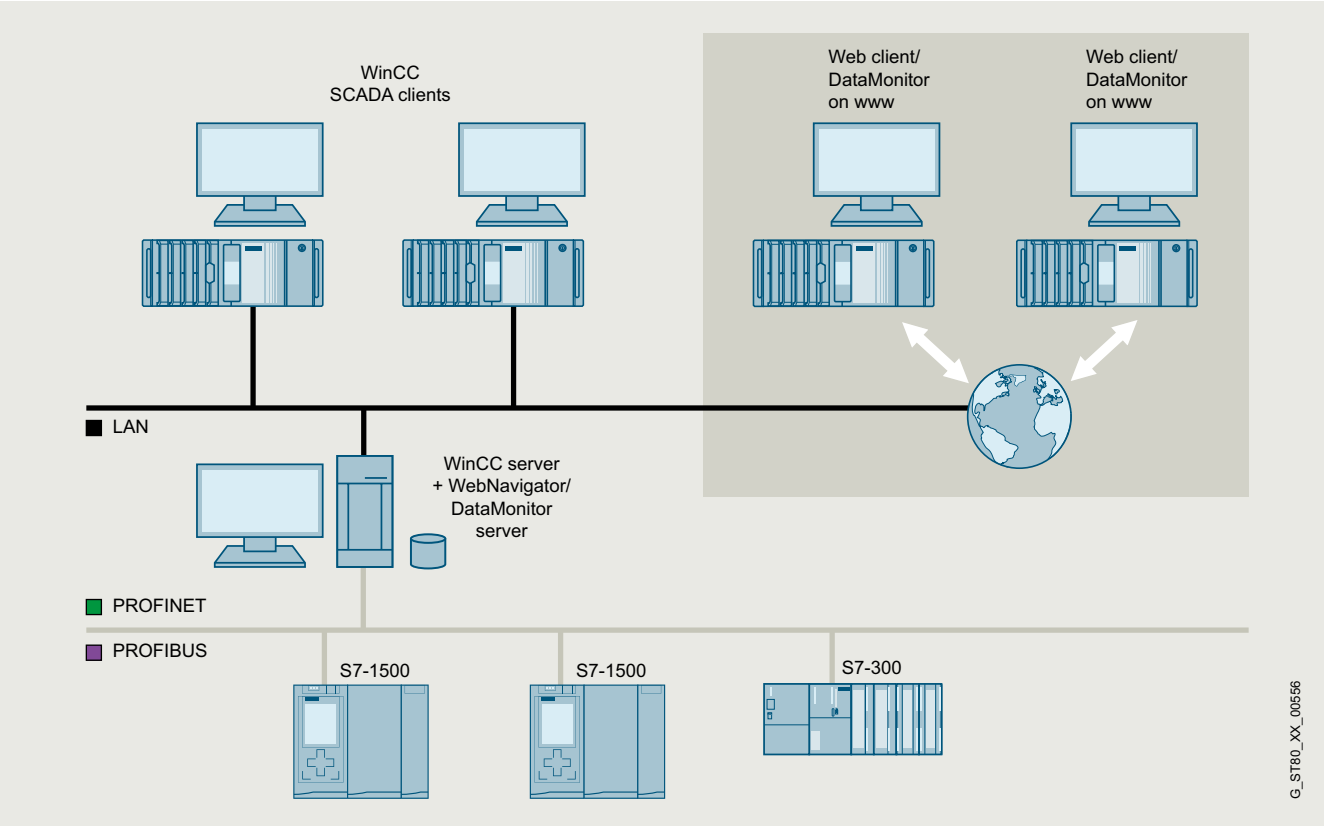
SIMATIC WinCC Server for Runtime Professional	
• Single license, license key only on USB flash drive	**6AV2107-0EB00-0BB0**
As download [1]	
• Single license, license key download only, Email address required for delivery	**6AV2107-0EB00-0BH0**
SIMATIC WinCC Client for Runtime Professional V21	
• Single license, license key on USB flash drive, software and documentation on DVD	**6AV2107-0DB02-5AA0**
• Single license, software and license key download. Email address required for delivery	**6AV2107-0DB02-5AH0**
SIMATIC WinCC Client for Runtime Professional ASIA V21	
• Single license, license key on USB flash drive, software and documentation on DVD	**6AV2107-0DB12-5AA0**
SIMATIC WinCC Client for Runtime Professional V20	
• Single license, license key on USB flash drive, software and documentation on DVD	**6AV2107-0DB02-4AA0**
• Single license, software and license key download. Email address required for delivery	**6AV2107-0DB02-4AH0**
SIMATIC WinCC Client for Runtime Professional ASIA V20	
• SIMATIC WinCC Client for Runtime Professional ASIA V20	**6AV2107-0DB12-4AA0**

1) Up-to-date information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery

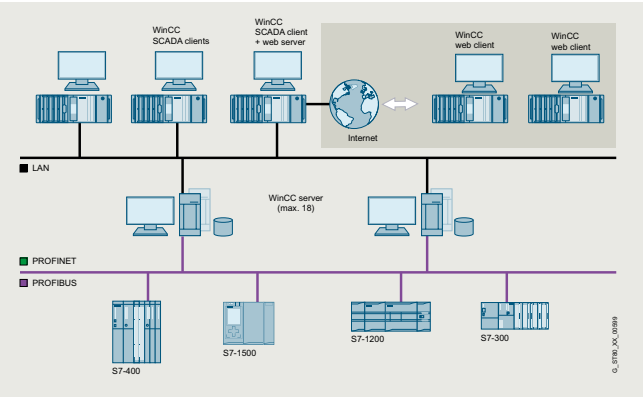
A license is not required for the engineering system for configuring the Runtime option.

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Overview



WinCC Server as web server



WinCC MultiClient as web server

WinCC WebNavigator

- Option for SIMATIC WinCC or WinCC Runtime Professional for operating and monitoring plants over the Internet, company Intranet or LAN.
- Configuration from:
  - A web server with SIMATIC WinCC as single-user or server version and a web client that permits operator control and monitoring of a current WinCC project using the Internet Explorer. In combination with WinCC V7, the WebNavigator Server can be operated on a MultiClient

Licenses

- A (server-based) license is required for the WebNavigator. This is a graduated license based on the number of simultaneous web client access operations and can be incremented at any time using additive web client licenses (countable licenses).
- The WebNavigator client software can be installed as many times as required without the need for a license.
- A (client-based) license is required for the WebNavigator diagnostics. This provides access to all web servers with a WebNavigator Server or WebNavigator Diagnostic Server license.
- The WinCC/WebUX and WinCC/WebNavigator licenses can be combined, if necessary.

You can find more information on the Software Update Service, license types, online software delivery and handling your SW licenses with the Automation License Manager here:
http://www.siemens.com/simatic-licenses

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Overview (continued)

Note:
When accessing the operator stations via the WinCC WebNavigator option, suitable protective measures (including IT security such as network segmentation) should be taken in order to ensure safe operation of the system.

You will find more information on the topic of Industrial Security on the Internet at:
http://www.siemens.com/industrialsecurity

Selection and ordering data

SIMATIC WinCC WebNavigator as from Runtime Professional V14 and WinCC as from V7.4 [2]	
Single license, license key on USB flash drive	
• 1 client license (countable)	**6AV6362-1AB00-0BB0**
• 3 client licenses (countable)	**6AV6362-1AD00-0BB0**
• 10 client licenses (countable)	**6AV6362-1AF00-0BB0**
• 30 client licenses (countable)	**6AV6362-1AJ00-0BB0**
• 100 client licenses (countable)	**6AV6362-1AM00-0BB0**
• Unlimited client licenses (WebNav+WebUX Operate)	**6AV6362-1AU00-0BB0**
As download [1] Single license, license key download. Email address mandatory	
• 1 client license (countable)	**6AV6362-1AB00-0AH0**
• 3 client licenses (countable)	**6AV6362-1AD00-0AH0**
• 10 client licenses (countable)	**6AV6362-1AF00-0AH0**
• 30 client licenses (countable)	**6AV6362-1AJ00-0AH0**
• 100 client licenses (countable)	**6AV6362-1AM00-0AH0**
• Unlimited client licenses (WebNav+WebUX Operate)	**6AV6362-1AU00-0AH0**
SIMATIC WinCC WebNavigator Diagnostics Client	
For WinCC V14 Runtime Professional and WinCC as from V7.4	
• Standard scope of supply	**6AV6362-1BA00-0BB0**
• As download	**6AV6362-1BA00-0AH0**
WinCC WebNavigator Load Balancing	
For WinCC V7.4 only	
• Load Balancing	**6AV6362-1FA00-0BB0**
• Load Balancing Step Up	**6AV6362-1GA00-0BB0**
As download RT-SW, single license, license key download. Email address mandatory	
• Load Balancing	**6AV6362-1FA00-0AH0**
• Load Balancing Step Up	**6AV6362-1GA00-0AH0**

1) Current information and availability regarding the new type of delivery can be found at: http://www.siemens.com/tia-online-software-delivery
2) As from WinCC V14 the licenses are cumulative (countable), i.e. one 10 client license and one 30 client license permit access by 40 clients.

A license is not required for the engineering system for configuring the runtime option.

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Overview

The TIA Portal Cloud Connector makes it possible to access the local PG/PC interface and the connected SIMATIC hardware from a TIA Portal engineering system in a cloud environment. Access can be made directly from TIA Portal Cloud or a private cloud via Remote Desktop.

Licensing

- The TIA Portal Cloud Connector installed locally on the machine requires a license. Exception: no license is required when using TIA Portal Cloud

Selection and ordering data

TIA Portal Cloud Connector	
Single license; software is component of STEP 7 / WinCC V14 and higher. Only the Certificates of License (CoL) are delivered with the license.	
• TIA Portal Cloud Connector V2.0 – USB flash drive - Single license. For use with separately licensed TIA Portal products; refer to entry ID 109739390, FAQ "What are the conditions for using the TIA Portal Cloud Connector?"; license key on USB flash drive; software and documentation see entry ID 109780755; Class A; 6 languages: en, de, fr, it, es, zh; executable under Win10, Win11 - Contents: 1x USB flash drive	**6ES7823-1CA02-0YA0**
• TIA Portal Cloud Connector V2.0 – download [1] - Single license download. For use with separately licensed TIA Portal products; refer to entry ID 109739390, FAQ "What are the conditions for using the TIA Portal Cloud Connector?"; license key for download; software and documentation, see entry ID 109780755; Class A; 6 languages: en, de, fr, it, es, zh; executable under Win10, Win11 - Consignee email address required for delivery	**6ES7823-1CE02-0YA0**
• TIA Portal Cloud Connector V2.0 – For Industrial Edge	Industrial Edge Marketplace

[1] For up-to-date information and download availability, see: www.siemens.com/tia-online-software-delivery

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Overview

SIMATIC Visualization Architect (SiVArc)

Challenge:

- To standardize the user interfaces of the visualizations throughout the plant
- Significant reduction of the engineering costs for generating the visualizations
- To make the in-house work standard usable

Solution:

- Automatic generation and creation of the visualizations, based on the program code of the PLC and corresponding visualization objects within the framework of system-wide library concepts.

Licensing

- The software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- An upgrade to the subsequent version is offered for users of previous versions.
- A rental license is available for temporary use
- The software can be tested in restricted mode without a license.
- It is possible to conclude Software Update Service (SUS) contracts.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under this link.

Selection and ordering data

SIMATIC Visualization Architect V20	
As package	
• SIMATIC Visualization Architect V20	**6AV2107-0PX02-4AA5**
• SIMATIC Visualization Architect V20 Rental	**6AV2107-0PX02-4AA6**
As download [1]	
• SIMATIC Visualization Architect V20	**6AV2107-0PX02-4AH5**
• SIMATIC Visualization Architect V20 Rental	**6AV2107-0PX02-4AH6**
• SIMATIC Visualization Architect V20 Trial	Download in Customer Support Portal
Upgrade SIMATIC Visualization Architect	
Engineering software in the TIA Portal; software and documentation on CD, License key on USB flash drive Class A; 6 languages: en, de, fr, es, it, zh	
V19 -> V20	
• As package	**6AV2107-3PX02-4AA5**
• As download [1] Email address required for delivery	**6AV2107-3PX02-4AH5**
V18 -> V19	
• As package	**6AV2107-3PX02-3AA5**
• As download [1] Email address required for delivery	**6AV2107-3PX02-3AH5**
Software Update Service (SUS)	
SIMATIC Visualization Architect	
Within the framework of the SUS contract, you are provided with all software updates for the SiVArc product at no cost over a period of one year from the date of invoice. The contract is automatically extended by a further year unless canceled three months before expiration. The prerequisite for agreeing to an SUS is the presence of the current version.	
• As package	**6AV2107-0PX00-0AL0**
• As download [1] Email address required for delivery	**6AV2107-0PX00-0AY0**

1) Up-to-date information and download availability can be found under this link.

Technical specifications

SIMATIC Visualization Architect	
Operating system requirements	In accordance with the requirements of the TIA Portal components: • SIMATIC STEP 7 (TIA Portal) • SIMATIC WinCC Unified, Professional, Advanced, Comfort, Basic
Supported STEP 7 version	SIMATIC STEP 7 V20
Supported WinCC versions	SIMATIC WinCC V20 Unified, Professional, Advanced, Comfort, Basic

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Overview

The TIA Portal option ProDiag makes it possible to monitor a machine or plant and to intervene in the event of a fault. The monitoring messages which can be generated for the various faults provide specific information on the monitoring mode, location and cause of the fault. Information on troubleshooting can be provided in addition. Plant operators can then not only recognize faults, they can also identify any potential danger in advance and take appropriate countermeasures.

Licensing

- The runtime license for controllers includes 250 supervisions or an unlimited number of supervisions per CPU. From FW 2.0 onwards, the software can run on S7-1500/ET 200SP CPUs regardless of the TIA Portal version.
- For the visualization of the messages, the controls are licensed according to the HMI runtime platforms.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under this link.

Selection and ordering data

SIMATIC ProDiag for HMI	
For WinCC Unified PC Runtime	
Controls for SIMATIC WinCC Unified as of V18	
• Package with data storage medium	**6AV2157-0BD02-4AB0**
• Download incl. license key [1] Email address required for delivery	**6AV2157-0BD02-4LB0**
For WinCC Runtime Advanced	
Controls for SIMATIC WinCC as of V14.	
• Package with data storage medium	**6AV2107-0UA00-0BB0**
• Download incl. license key [1] Email address required for delivery	**6AV2107-0UA00-0BH0**
For WinCC Runtime Professional	
Controls for SIMATIC WinCC as of V14	
• Package with data storage medium	**6AV2107-0UB00-0BB0**
• Download incl. license key [1] Email address required for delivery	**6AV2107-0UB00-0BH0**
For SIMATIC Comfort / Mobile Panels	
Controls for SIMATIC WinCC as of V14.	
• Package with data storage medium	**6AV2107-0UP00-0BB0**
• Download incl. license key [1] Email address required for delivery	**6AV2107-0UP00-0BH0**
SIMATIC ProDiag S7-1500	
For 250 monitoring functions	
For SIMATIC S7-1500 CPUs and ET 200SP CPUs with FW 2.0 and higher. Independent of the TIA Portal version.	
• Package with data storage medium	**6ES7823-0AA00-1AA0**
• Download incl. license key [1] Email address required for delivery	**6ES7823-0AE00-1AA0**
For all configured monitoring functions on a CPU	
For SIMATIC S7-1500 CPUs and ET 200SP CPUs with FW 2.0 and higher. Independent of the TIA Portal version.	
• Package with data storage medium	**6ES7823-0AA00-1DA0**
• Download incl. license key [1] Email address required for delivery	**6ES7823-0AE00-1DA0**

[1] Up-to-date information and download availability can be found at this link.

Technical specifications

Can be used for	
SIMATIC ProDiag for HMI	For all Comfort and Mobile Panels, WinCC Runtime Advanced and WinCC Runtime Professional as of TIA Portal V14 For WinCC Unified PC Runtime as of TIA Portal V18
SIMATIC ProDiag for S7-1500	For all S7-1500 CPUs and ET 200SP CPUs with FW V2.0 and higher

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Overview



SIMATIC WinCC V7/V8 SCADA system

WinCC V8.x seamlessly continues the success story of WinCC V7.x.

On the one hand fully compatible with existing projects, on the other hand with many new functions.
From improvements in engineering to new possibilities in Runtime and WebUX, all the way to data exchange with IT and cloud systems, e.g. via the new REST Connector.

The scalable and open SCADA system for maximum plant transparency and productivity

- Efficiency:
  As a key to greater productivity, SIMATIC WinCC combines efficient engineering with high-performance archiving and maximum data security. With integrated diagnostics functions and flexible production analysis, you shorten the time-to-market and also reduce your plant standstill times.
  SIMATIC WinCC is the basis for efficient operations management and intelligent production analyses, so it offers a secure basis for deciding on optimization measures, and thus more productivity at lower cost.
- Scalability:
  With SIMATIC WinCC, it is possible to implement plants in all industrial sectors and technologies, and easily expand or modernize them by means of options or add-ons, in functional terms or sector-specifically.
  You can benefit from the redundancy concepts for enhanced availability, or decide on centralized archiving and analysis of plant information. SIMATIC WinCC offers stationary and mobile solutions to cover increasing demands.
- Innovation:
  With innovative technology, you have all the important information in view at all times. In this way, SIMATIC WinCC simplifies intuitive operation and monitoring of the production plant – even remotely. Stay informed with mobile SCADA solutions anywhere and at any time – including with existing tablet and smartphone hardware.
  The use of multi-touch gestures in the industrial environment opens the door to modern operator concepts.

Overview (continued)

- Openness:
  Since international standards and system-internal script and programming interfaces are supported, special requests can also be easily implemented.
  SIMATIC WinCC backs cross-manufacturer communication for integrating existing hardware, as well as for simple integration into the IT world. WinCC specialists are available worldwide as qualified solution providers. These certified and centrally audited partners are ready to implement your individual SCADA project even in diversified client-server architectures with redundancy, or in applications with energy data management systems.
  SIMATIC WinCC is designed to be independent of any specific technology or industrial sector, modular in structure, and easy to expand. It is used worldwide in single-user applications in mechanical engineering, as well as in complex multi-user solutions with redundant servers or Web-based client access. References from many industries prove the versatility and performance capability.

More information is available at this link

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Overview



SIMATIC WinCC V8

- PC-based operator control and monitoring system for visualizing and operating processes, production flows, machines and plants in all sectors – from the simple single-user station through to distributed multi-user systems with redundant servers and cross-location solutions with web clients. WinCC is the information hub for corporation-wide vertical integration.
- The basic system configuration (WinCC Basic Software) includes industry-standard functions for signaling and acknowledging events, archiving of messages and measured values, logging of all process and configuration data, user administration and visualization.
- The WinCC Basic Software forms the core of a wide range of different applications. Based on the open programming interfaces, a wide range of WinCC options (from Siemens Industry Automation) and WinCC Add-ons have been developed (by Siemens-internal and external partners).
- WinCC can be operated with every PC that meets the given HW requirements. The SIMATIC IPC product range is available in particular for the industrial use of WinCC systems. SIMATIC IPCs impress with their powerful PC technology, are designed for round-the-clock operation, and can be operated in both office areas and harsh industrial environments.

Current version:

SIMATIC WinCC V8.1

WinCC V8.1 supports the Microsoft operating systems listed below:

- Windows 11 Professional, Enterprise (64-bit)
- Windows 10 Professional, Enterprise (64-bit)
- Windows Server 2022 Standard, Datacenter (64-bit)
- Windows Server 2019 Standard, Datacenter (64-bit)

Details (e.g. information about specific Windows editions) and, if applicable, updated compatibility statements, are available at this link

SIMATIC SCADA and SIMATIC IPCs

Perfect interaction for optimum productivity.

- Price advantage as "Package" comprising hardware and software
- System-tested solutions reduce testing overhead
- Simple ordering and synchronized logistics

Only if ordered together with the SIMATIC IPC.

Selection and ordering data

SIMATIC WinCC system software	
V8.1	
Runtime packages on DVD	
Incl. 512 archive tags each; language/script versions: en, de, fr, it, es; with license for	
• WinCC RT Client	**6AV6381-2CA08-1AX0**
• 128 PowerTags (RT 128)	**6AV6381-2BC08-1AX0**
• 512 PowerTags (RT 512)	**6AV6381-2BD08-1AX0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BE08-1AX0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BH08-1AX0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BF08-1AX0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BJ08-1AX0**
• Unlimited PowerTags (RT Unlimited)	**6AV6381-2BV08-1AX0**
As download	
• WinCC RT Client	**6AV6381-2CA08-1AH0**
• 128 PowerTags (RT 128)	**6AV6381-2BC08-1AH0**
• 512 PowerTags (RT 512)	**6AV6381-2BD08-1AH0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BE08-1AH0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BH08-1AH0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BF08-1AH0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BJ08-1AH0**
• Unlimited PowerTags (RT Unlimited)	**6AV6381-2BV08-1AH0**
Complete packages on DVD	
Language versions: en, de, fr, it, es; with license for	
• WinCC RT Client	**6AV6381-2CB08-1AX0**
• 128 PowerTags (RT 128)	**6AV6381-2BM08-1AX0**
• 512 PowerTags (RT 512)	**6AV6381-2BN08-1AX0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BP08-1AX0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BS08-1AX0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BQ08-1AX0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BT08-1AX0**
• Unlimited PowerTags (RT Unlimited)	**6AV6381-2BU08-1AX0**
As download	
• WinCC RT Client	**6AV6381-2CB08-1AH0**
• 128 PowerTags (RT 128)	**6AV6381-2BM08-1AH0**
• 512 PowerTags (RT 512)	**6AV6381-2BN08-1AH0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BP08-1AH0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BS08-1AH0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BQ08-1AH0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BT08-1AH0**
• Unlimited PowerTags (RT Unlimited)	**6AV6381-2BU08-1AH0**

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Selection and ordering data (continued)

V8.1 ASIA	
Runtime packages on DVD	
Language/script versions: en, zh-CN, zh-TW, ko, ja; with license for	
• WinCC RT Client	**6AV6381-2CA08-1AV0**
• 128 PowerTags (RT 128)	**6AV6381-2BC08-1AV0**
• 512 PowerTags (RT 512)	**6AV6381-2BD08-1AV0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BE08-1AV0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BH08-1AV0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BF08-1AV0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BJ08-1AV0**
• Unlimited PowerTags (RT Unlimited)	**6AV6381-2BV08-1AV0**
Complete packages on DVD	
Language versions: en, zh-CN, zh-TW, ko, ja; with license for	
• WinCC RT Client	**6AV6381-2CB08-1AV0**
• 128 PowerTags (RT 128)	**6AV6381-2BM08-1AV0**
• 512 PowerTags (RT 512)	**6AV6381-2BN08-1AV0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BP08-1AV0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BS08-1AV0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BQ08-1AV0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BT08-1AV0**
• Unlimited PowerTags (RT Unlimited)	**6AV6381-2BU08-1AV0**
V8.1 PowerPacks	
For upgrading from:	
Runtime packages	
As download	
• 128 to 512 PowerTags	**6AV6371-2BD08-1AJ0**
• 512 to 2 048 PowerTags	**6AV6371-2BG08-1AJ0**
• 2 048 to 8 192 PowerTags	**6AV6371-2BM08-1AJ0**
• 8 192 to 65 536 PowerTags	**6AV6371-2BN08-1AJ0**
• 65 536 to 102 400 PowerTags	**6AV6371-2BP08-1AJ0**
• 102 400 to Unlimited PowerTags	**6AV6371-2BQ08-1AJ0**
Complete packages	
As download	
• 128 to 512 PowerTags	**6AV6371-2BD18-1AJ0**
• 512 to 2 048 PowerTags	**6AV6371-2BG18-1AJ0**
• 2 048 to 8 192 PowerTags	**6AV6371-2BM18-1AJ0**
• 8 192 to 65 536 PowerTags	**6AV6371-2BN18-1AJ0**
• 65 536 to 102 400 PowerTags	**6AV6371-2BP18-1AJ0**
• 102 400 to Unlimited PowerTags	**6AV6371-2BQ18-1AJ0**
V8.1 Archive	
• 1 500 archive tags (countable)	**6AV6371-1DQ10-0AX0**
• 5 000 archive tags (countable)	**6AV6371-1DQ10-0BX0**
• 10 000 archive tags (countable)	**6AV6371-1DQ10-0CX0**
• 30 000 archive tags (countable)	**6AV6371-1DQ10-0EX0**
As download	
• 1 500 archive tags (countable)	**6AV6371-1HQ10-0AX0**
• 5 000 archive tags (countable)	**6AV6371-1HQ10-0BX0**
• 10 000 archive tags (countable)	**6AV6371-1HQ10-0CX0**
• 30 000 archive tags (countable)	**6AV6371-1HQ10-0EX0**
SIMATIC WinCC software packages for IPC	
SIMATIC WinCC V8.1 Runtime	

Selection and ordering data (continued)

• WinCC RT Client	**6AV6382-2AA08-1AX0**
• 128 PowerTags (RT 128)	**6AV6382-2CA08-1AX0**
• 512 PowerTags (RT 512)	**6AV6382-2DA08-1AX0**
• 2 048 PowerTags (RT 2 048)	**6AV6382-2EA08-1AX0**
• 8 192 PowerTags (RT 8 192)	**6AV6382-2HA08-1AX0**
• 65 536 PowerTags (RT 65 536)	**6AV6382-2FA08-1AX0**
SIMATIC WinCC V8.0 Runtime ASIA	
• WinCC RT Client	**6AV6382-2AA08-1AV0**
• 128 PowerTags (RT 128)	**6AV6382-2CA08-1AV0**
• 512 PowerTags (RT 512)	**6AV6382-2DA08-1AV0**
• 2 048 PowerTags (RT 2 048)	**6AV6382-2EA08-1AV0**
• 8 192 PowerTags (RT 8 192)	**6AV6382-2HA08-1AV0**
• 65 536 PowerTags (RT 65 536)	**6AV6382-2FA08-1AV0**
SIMATIC WinCC Upgrades/Software Update Service	
SIMATIC WinCC V8.1 Upgrade [1) 2)]	
For upgrading the RT version	
• From V8.0 to V8.1	**6AV6381-2AA08-1AX4**
• From V7.4/V7.5 to V8.1	**6AV6381-2AA08-1AX3**
As download	
• From V8.0 to V8.1	**6AV6381-2AA08-1AK4**
• From V7.4/V7.5 to V8.1	**6AV6381-2AA08-1AK3**
For upgrading the RC version	
• From V8.0 to V8.1	**6AV6381-2AB08-1AX4**
• From V7.4/V7.5 to V8.1	**6AV6381-2AB08-1AX3**
As download	
• From V8.0 to V8.1	**6AV6381-2AB08-1AK4**
• From V7.4/V7.5 to V8.1	**6AV6381-2AB08-1AK3**
For upgrading the Client RT version	
• From V8.0 to V8.1	**6AV6381-2CA08-1AX4**
• From V7.4/V7.5 to V8.1	**6AV6381-2CA08-1AX3**
As download	
• From V8.0 to V8.1	**6AV6381-2CA08-1AK4**
• From V7.4/V7.5 to V8.1	**6AV6381-2CA08-1AK3**
For upgrading the Client RC version	
• From V8.0 to V8.1	**6AV6381-2CB08-1AX4**
• From V7.4/V7.5 to V8.1	**6AV6381-2CB08-1AX3**
As download	
• From V8.0 to V8.1	**6AV6381-2CB08-1AK4**

1) According to licensing provisions, 1 upgrade package must be ordered for each WinCC station
2) The upgrade from V7.X RT/RC ASIA to V8.0 ASIA is performed via the "standard package"
3) The Software Update Service is valid for 1 year. The contract is automatically extended by 1 more year unless canceled 3 months prior to expiration. In accordance with the license conditions, 1 Software Update Service each must be ordered per WinCC station.
4) Requires the current software version

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Selection and ordering data (continued)

SIMATIC WinCC V8.1 communication	
via Industrial Ethernet/PROFIBUS	
SOFTNET-IE S7 Version 18	
Software for S7 and S5-compatible communication incl. OPC server, PG/OP communication and NCM PC, up to 64 connections; single license for one installation of runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A; for CP 1612 A2; English/German	
• Single license for 1 installation	**6GK1704-1CW18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1704-1CW00-3AE0**
SOFTNET-IE S7 Lean Version 18 (license included in scope of supply of WinCC V8.0)	
Software for S7 and S5-compatible communication including OPC server, PG/OP communication and NCM PC; up to 8 connections; single license for one installation of runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A For CP 1612 A2 English/German	
• Single license for 1 installation	
CP 1623 PCI Express X1 card (32-bit) for connection of PG/PC to Industrial Ethernet (communications software must be ordered separately)	**6GK1162-3AA00**
HARDNET-IE S7 V18	
Software for S7 and S5-compatible communication incl. OPC server, PG/OP communication and NCM PC, single license for one installation of runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A for CP 1613 A2, CP 1623, CP 1628; English/German	
• Single license for 1 installation	**6GK1716-1CB18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1716-1CB00-3AE0**
Communication via PROFIBUS	
CP 5612 PCI card (32-bit) for connecting a PG/PC to PROFIBUS (communications software included in WinCC basic package)	**6GK1561-2AA00**
CP 5622 PCI Express X1 card (32-bit) for connecting a PG/PC to PROFIBUS (communications software included in WinCC basic package)	**6GK1562-2AA00**
CP 5711 USB adapter for connecting a PG/PC to PROFIBUS or MPI (communications software included in WinCC basic package)	**6GK1571-1AA00**
CP 5613 A3 PCI card (32-bit) for connecting a PC to PROFIBUS (communications software must be ordered separately)	**6GK1561-3AA02**
CP 5614 A3 PCI card (32-bit) for connecting a PC to PROFIBUS (communications software must be ordered separately)	**6GK1561-4AA02**
CP 5623 PCI Express X1 card (32-bit) for connection of PG/PC to Industrial Ethernet (communications software must be ordered separately)	**6GK1562-3AA00**

Selection and ordering data (continued)

HARDNET-PB S7 Software for S7 communication incl. PG/OP communication, FDL, OPC server, runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A for CP 5613 A3, CP 5614 A3, CP 5623 English/German	
• Single license for 1 installation	**6GK1713-5CB18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1713-5CB00-3AE0**
HARDNET-PB DP Software for DP protocol incl. PG/OP communication, FDL, DP OPC server, runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A, for CP 5613 A3, CP 5614 A3, CP 5623; English/German	
• Single license for 1 installation	**6GK1713-5DB18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1713-5DB00-3AE0**

1) According to licensing provisions, 1 upgrade package must be ordered for each WinCC station
2) The upgrade from V7.X RT/RC ASIA to V8.0 ASIA is performed via the "standard package"
3) The Software Update Service is valid for 1 year. The contract is automatically extended by 1 more year unless canceled 3 months prior to expiration. In accordance with the license conditions, 1 Software Update Service each must be ordered per WinCC station.
4) Requires the current software version

SIMATIC WinCC Software Update Service (SUS) [3) 4)]	
SIMATIC WinCC V8 Update	
Software Update Service for WinCC basic software and options:	
• 1 license	**6AV6381-1AA00-0AX5**
• 3 licenses	**6AV6381-1AA00-0BX5**
• 10 licenses	**6AV6381-1AA00-0CX5**
as download	
• 1 license	**6AV6381-1KA00-0AX5**
• 3 licenses	**6AV6381-1KA00-0BX5**
• 10 licenses	**6AV6381-1KA00-0CX5**
V8.0	

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Selection and ordering data (continued)

Runtime packages on DVD	
Incl. 512 archive tags each; language/script versions: en, de, fr, it, es; with license for	
• WinCC RT Client	**6AV6381-2CA08-0AX0**
• 128 PowerTags (RT 128)	**6AV6381-2BC08-0AX0**
• 512 PowerTags (RT 512)	**6AV6381-2BD08-0AX0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BE08-0AX0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BH08-0AX0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BF08-0AX0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BJ08-0AX0**
• 153 600 PowerTags (RT 153 600)	**6AV6381-2BK08-0AX0**
• 262 144 PowerTags (RT 262 144)	**6AV6381-2BL08-0AX0**
As download	
• WinCC RT Client	**6AV6381-2CA08-0AH0**
• 128 PowerTags (RT 128)	**6AV6381-2BC08-0AH0**
• 512 PowerTags (RT 512)	**6AV6381-2BD08-0AH0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BE08-0AH0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BH08-0AH0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BF08-0AH0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BJ08-0AH0**
• 153 600 PowerTags (RT 153 600)	**6AV6381-2BK08-0AH0**
• 262 144 PowerTags (RT 262 144)	**6AV6381-2BL08-0AH0**
Complete packages on DVD	
Language versions: en, de, fr, it, es; with license for	
• WinCC RC Client	**6AV6381-2CB08-0AX0**
• 128 PowerTags (RC 128)	**6AV6381-2BM08-0AX0**
• 512 PowerTags (RC 512)	**6AV6381-2BN08-0AX0**
• 2 048 PowerTags (RC 2 048)	**6AV6381-2BP08-0AX0**
• 8 192 PowerTags (RC 8 192)	**6AV6381-2BS08-0AX0**
• 65 536 PowerTags (RC 65 536)	**6AV6381-2BQ08-0AX0**
• 102 400 PowerTags (RC 102 400)	**6AV6381-2BT08-0AX0**
• 153 600 PowerTags (RC 153 600)	**6AV6381-2BU08-0AX0**
• 262 144 PowerTags (RC 262 144)	**6AV6381-2BV08-0AX0**
As download	
• WinCC RC Client	**6AV6381-2CB08-0AH0**
• 128 PowerTags (RC 128)	**6AV6381-2BM08-0AH0**
• 512 PowerTags (RC 512)	**6AV6381-2BN08-0AH0**
• 2 048 PowerTags (RC 2 048)	**6AV6381-2BP08-0AH0**
• 8 192 PowerTags (RC 8 192)	**6AV6381-2BS08-0AH0**
• 65 536 PowerTags (RC 65 536)	**6AV6381-2BQ08-0AH0**
• 102 400 PowerTags (RC 102 400)	**6AV6381-2BT08-0AH0**
• 153 600 PowerTags (RC 153 600)	**6AV6381-2BU08-0AH0**
• 262 144 PowerTags (RC 262 144)	**6AV6381-2BV08-0AH0**

Selection and ordering data (continued)

V8.0 ASIA	
Runtime packages on DVD	
Language/script versions: en, zh-CN, zh-TW, ko, ja; with license for	
• WinCC RT Client	**6AV6381-2CA08-0AV0**
• 128 PowerTags (RT 128)	**6AV6381-2BC08-0AV0**
• 512 PowerTags (RT 512)	**6AV6381-2BD08-0AV0**
• 2 048 PowerTags (RT 2 048)	**6AV6381-2BE08-0AV0**
• 8 192 PowerTags (RT 8 192)	**6AV6381-2BH08-0AV0**
• 65 536 PowerTags (RT 65 536)	**6AV6381-2BF08-0AV0**
• 102 400 PowerTags (RT 102 400)	**6AV6381-2BJ08-0AV0**
• 153 600 PowerTags (RT 153 600)	**6AV6381-2BK08-0AV0**
• 262 144 PowerTags (RT 262 144)	**6AV6381-2BL08-0AV0**
Complete packages on DVD	
Language versions: en, zh-CN, zh-TW, ko, ja; with license for	
• WinCC RC Client	**6AV6381-2CB08-0AV0**
• 128 PowerTags (RC 128)	**6AV6381-2BM08-0AV0**
• 512 PowerTags (RC 512)	**6AV6381-2BN08-0AV0**
• 2 048 PowerTags (RC 2 048)	**6AV6381-2BP08-0AV0**
• 8 192 PowerTags (RC 8 192)	**6AV6381-2BS08-0AV0**
• 65 536 PowerTags (RC 65 536)	**6AV6381-2BQ08-0AV0**
• 102 400 PowerTags (RC 102 400)	**6AV6381-2BT08-0AV0**
• 153 600 PowerTags (RC 153 600)	**6AV6381-2BU08-0AV0**
• 262 144 PowerTags (RC 262 144)	**6AV6381-2BV08-0AV0**
V8.0 PowerPacks	
For upgrading from:	
Runtime packages	
• 128 to 512 PowerTags	**6AV6371-2BD08-0AX0**
• 512 to 2 048 PowerTags	**6AV6371-2BG08-0AX0**
• 2 048 to 8 192 PowerTags	**6AV6371-2BM08-0AX0**
• 8 192 to 65 536 PowerTags	**6AV6371-2BN08-0AX0**
• 65 536 to 102 400 PowerTags	**6AV6371-2BP08-0AX0**
• 102 400 to 153 600 PowerTags	**6AV6371-2BQ08-0AX0**
• 153 600 to 262 144 PowerTags	**6AV6371-2BR08-0AX0**
As download	
• 128 to 512 PowerTags	**6AV6371-2BD08-0AJ0**
• 512 to 2 048 PowerTags	**6AV6371-2BG08-0AJ0**
• 2 048 to 8 192 PowerTags	**6AV6371-2BM08-0AJ0**
• 8 192 to 65 536 PowerTags	**6AV6371-2BN08-0AJ0**
• 65 536 to 102 400 PowerTags	**6AV6371-2BP08-0AJ0**
• 102 400 to 153 600 PowerTags	**6AV6371-2BQ08-0AJ0**
• 153 600 to 262 144 PowerTags	**6AV6371-2BR08-0AJ0**

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Selection and ordering data (continued)

Complete packages	
• 128 to 512 PowerTags	**6AV6371-2BD18-0AX0**
• 512 to 2 048 PowerTags	**6AV6371-2BG18-0AX0**
• 2 048 to 8 192 PowerTags	**6AV6371-2BM18-0AX0**
• 8 192 to 65 536 PowerTags	**6AV6371-2BN18-0AX0**
• 65 536 to 102 400 PowerTags	**6AV6371-2BP18-0AX0**
• 102 400 to 153 600 PowerTags	**6AV6371-2BQ18-0AX0**
• 153 600 to 262 144 PowerTags	**6AV6371-2BR18-0AX0**
As download	
• 128 to 512 PowerTags	**6AV6371-2BD18-0AJ0**
• 512 to 2 048 PowerTags	**6AV6371-2BG18-0AJ0**
• 2 048 to 8 192 PowerTags	**6AV6371-2BM18-0AJ0**
• 8 192 to 65 536 PowerTags	**6AV6371-2BN18-0AJ0**
• 65 536 to 102 400 PowerTags	**6AV6371-2BP18-0AJ0**
• 102 400 to 153 600 PowerTags	**6AV6371-2BQ18-0AJ0**
• 153 600 to 262 144 PowerTags	**6AV6371-2BR18-0AJ0**
V8.0 Archive	
• 1 500 archive tags (countable)	**6AV6371-1DQ10-0AX0**
• 5 000 archive tags (countable)	**6AV6371-1DQ10-0BX0**
• 10 000 archive tags (countable)	**6AV6371-1DQ10-0CX0**
• 30 000 archive tags (countable)	**6AV6371-1DQ10-0EX0**
As download	
• 1 500 archive tags (countable)	**6AV6371-1HQ10-0AX0**
• 5 000 archive tags (countable)	**6AV6371-1HQ10-0BX0**
• 10 000 archive tags (countable)	**6AV6371-1HQ10-0CX0**
• 30 000 archive tags (countable)	**6AV6371-1HQ10-0EX0**
SIMATIC WinCC software packages for IPC	
SIMATIC WinCC V8.0 Runtime	
• WinCC RT Client	**6AV6382-2AA08-0AX0**
• 128 PowerTags	**6AV6382-2CA08-0AX0**
• 512 PowerTags	**6AV6382-2DA08-0AX0**
• 2048 PowerTags	**6AV6382-2EA08-0AX0**
• 8192 PowerTags	**6AV6382-2HA08-0AX0**
• 65536 PowerTags	**6AV6382-2FA08-0AX0**
SIMATIC WinCC V8.0 Runtime ASIA	
• WinCC RT Client	**6AV6382-2AA08-0AV0**
• 128 PowerTags	**6AV6382-2CA08-0AV0**
• 512 PowerTags	**6AV6382-2DA08-0AV0**
• 2048 PowerTags	**6AV6382-2EA08-0AV0**
• 8192 PowerTags	**6AV6382-2HA08-0AV0**
• 65536 PowerTags	**6AV6382-2FA08-0AV0**
SIMATIC WinCC Upgrades/Software Update Service	
SIMATIC WinCC V8.0 Upgrade [1) 2)]	
For upgrading the RT version	
• From V7.5 to V8.0	**6AV6381-2AA08-0AX4**
• From V7.3/V7.4 to V8.0	**6AV6381-2AA08-0AX3**
As download	
• From V7.5 to V8.0	**6AV6381-2AA08-0AK4**
• From V7.3/V7.4 to V8.0	**6AV6381-2AA08-0AK3**

Selection and ordering data (continued)

For upgrading the RC version	
• From V7.5 to V8.0	**6AV6381-2AB08-0AX4**
• From V7.3/V7.4 to V8.0	**6AV6381-2AB08-0AX3**
As download	
• From V7.5 to V8.0	**6AV6381-2AB08-0AK4**
• From V7.3/V7.4 to V8.0	**6AV6381-2AB08-0AK3**
For upgrading the Client RT version	
• From V7.5 to V8.0	**6AV6381-2CA08-0AX4**
• From V7.3/V7.4 to V8.0	**6AV6381-2CA08-0AX3**
As download	
• From V7.5 to V8.0	**6AV6381-2CA08-0AK4**
• From V7.3/V7.4 to V8.0	**6AV6381-2CA08-0AK3**
For upgrading the Client RC version	
• From V7.5 to V8.0	**6AV6381-2CB08-0AX4**
• From V7.3/V7.4 to V8.0	**6AV6381-2CB08-0AX3**
As download	
• From V7.5 to V8.0	**6AV6381-2CB08-0AK4**
• From V7.3/V7.4 to V8.0	**6AV6381-2CB08-0AK3**
SIMATIC WinCC Software Update Service (SUS) [3) 4)]	
SIMATIC WinCC V8 Update	
Software Update Service for WinCC basic software and options:	
• 1 license	**6AV6381-1AA00-0AX5**
• 3 licenses	**6AV6381-1AA00-0BX5**
• 10 licenses	**6AV6381-1AA00-0CX5**
As download	
• 1 license	**6AV6381-1KA00-0AX5**
• 3 licenses	**6AV6381-1KA00-0BX5**
• 10 licenses	**6AV6381-1KA00-0CX5**

1) According to licensing provisions, 1 upgrade package must be ordered for each WinCC station
2) The upgrade from V7.X RT/RC ASIA to V8.0 ASIA is performed via the "standard package"
3) The Software Update Service is valid for 1 year. The contract is automatically extended by 1 more year unless canceled 3 months prior to expiration. In accordance with the license conditions, 1 Software Update Service each must be ordered per WinCC station.
4) Requires the current software version

SIMATIC WinCC V8.0 communication via Industrial Ethernet/PROFIBUS	
SOFTNET-IE S7 Version 18	
Software for S7 and S5-compatible communication incl. OPC server, PG/OP communication and NCM PC, up to 64 connections; single license for one installation of runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A; for CP 1612 A2; English/German	
• Single license for 1 installation	**6GK1704-1CW18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1704-1CW00-3AE0**
SOFTNET-IE S7 Lean Version 18 (license included in scope of supply of WinCC V8.0)	
Software for S7 and S5-compatible communication including OPC server, PG/OP communication and NCM PC; up to 8 connections; single license for one installation of runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A For CP 1612 A2, English/German	
• Single license for 1 installation	**6GK1704-1LW18-0AA0**

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Selection and ordering data (continued)

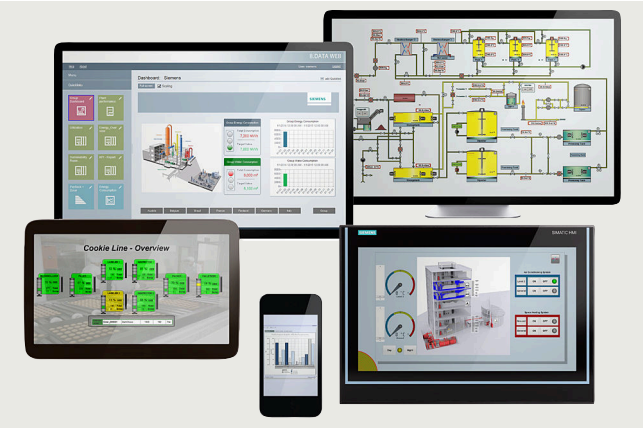
CP 1623 PCI Express X1 card (32-bit) for connection of PG/PC to Industrial Ethernet (communications software must be ordered separately)	**6GK1162-3AA00**
HARDNET-IE S7 V18 Software for S7 and S5-compatible communication incl. OPC server, PG/OP communication and NCM PC, single license for one installation of runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A for CP 1613 A2, CP 1623, CP 1628; English/German	
• Single license for 1 installation	**6GK1716-1CB18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1716-1CB00-3AE0**
Communication via PROFIBUS	
CP 5612 PCI card (32-bit) for connecting a PG/PC to PROFIBUS (communications software included in WinCC basic package)	**6GK1561-2AA00**
CP 5622 PCI Express X1 card (32-bit) for connecting a PG/PC to PROFIBUS (communications software included in WinCC basic package)	**6GK1562-2AA00**
CP 5711 USB adapter for connecting a PG/PC to PROFIBUS or MPI (communications software included in WinCC basic package)	**6GK1571-1AA00**
CP 5613 A3 PCI card (32-bit) for connecting a PC to PROFIBUS (communications software must be ordered separately)	**6GK1561-3AA02**
CP 5614 A3 PCI card (32-bit) for connecting a PC to PROFIBUS (communications software must be ordered separately)	**6GK1561-4AA02**
CP 5623 PCI Express X1 card (32-bit) for connection of PG/PC to Industrial Ethernet (communications software must be ordered separately)	**6GK1562-3AA00**
HARDNET-PB S7 Software for S7 communication incl. PG/OP communication, FDL, OPC server, runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A for CP 5613 A3, CP 5614 A3, CP 5623 English/German	
• Single license for 1 installation	**6GK1713-5CB18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1713-5CB00-3AE0**
HARDNET-PB DP Software for DP protocol incl. PG/OP communication, FDL, DP OPC server, runtime software, software and electronic manual on CD-ROM, license key on USB flash drive, Class A, for CP 5613 A3, CP 5614 A3, CP 5623; English/German	
• Single license for 1 installation	**6GK1713-5DB18-0AA0**
• Upgrade package for SIMATIC NET Edition 2006 or higher	**6GK1713-5DB00-3AE0**

Technical specifications

Type	SIMATIC WinCC V8.1
PC hardware requirements	
Processor type	
• Minimum	Single-user station/server: Dual-core; 2.5 GHz Client: Dual-core; 2.5 GHz
• Recommended	Single-user station/server: Multi-core; 3.5 GHz Client: Multi-core; 3 GHz [2)]
Work memory RAM	
• Minimum	Windows 10 (64-bit) • Single-user station/server: 4 GB • Client: 2 GB Windows Server 2019 / Windows Server 2022 Server: 4 GB
• Recommended	Windows 10 (64-bit) • Single-user station/server: 8 GB • Client: 8 GB Windows Server 2019 / Windows Server 2022 Server: 16 GB
Graphics resolution	
• Minimum	1 024 x 768
• Recommended	1 920 x 1 080 (HD ready)
Hard disk	
• Minimum	Single-user station/server: 80 GB Client: 20 GB WebClient/DataMonitor Client: 5 GB
• Recommended	Single-user station/server: 160 GB Client: 40 GB WebClient/DataMonitor Client: 10 GB
DVD-ROM/USB interface	For software installation and license transfer

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Overview



The universal WinCC Basic Software is the basis for modular expansions. These functional expansions can be obtained in the form of WinCC options and as WinCC Premium add-ons.

WinCC options are created by WinCC Development and are Siemens Industry Automation products. You can obtain support from our Advisory Services and via the central hotline.

Options for scalable plant configurations

- WinCC/Server
  For configuring a powerful client/server system
- WinCC/Redundancy
  For increasing system availability through redundancy
- WinCC Web Navigator
  For operator control and monitoring of plants via the internet, in-house intranet or LAN
- WinCC WebUX
  HTML5 client access for operator control and monitoring of plants, independent of platforms and web browsers, via the internet, in-house intranet or LAN
- SIMATIC Process Historian
  Central, scalable long-term archive for the whole plant
- SIMATIC TeleControl
  For connecting outlying stations (remote terminal units = RTUs) via telecontrol protocols in a WinCC SCADA system

Options for greater efficiency in operations management

- WinCC /User Archives
  For managing data records in user archives
- WinCC/DataMonitor
  For displaying and evaluating current process states and historical data on office PCs with standard tools
- WinCC/Performance Monitor
  For analysis and optimization of production on the basis of individual performance indicators
- WinCC/Audit
  - Change management
  - Generation of Audit Trails for engineering and runtime
- WinCC/Calendar Scheduler
  Calendar-based planning of events

Overview (continued)

- WinCC/ChangeControl
  - Change and version management
  - Generation of Audit Trails for engineering
- WinCC/Event Notifier
  For sending of notifications triggered by specific events in the WinCC message system
- SIMATIC Information Server
  Web-based, integrated reporting from production to management, based on archived data

Options for openness and individual system expansions

- WinCC/Connectivity Pack
  Access to WinCC logs via OPC HDA, OPC A&E, OPC XML Server, OPC UA Server/Client and WinCC OLE DB /OLE DB, Cloud Connect via MQTT, REST API and REST Connector
- WinCC/Connectivity Station
  Gateway to WinCC server data via OPC HDA, OPC A&E, OPC UA Server/Client, and WinCC OLE DB /OLE DB from independent computers
- WinCC IndustrialDataBridge
  Configurable connection to databases and IT systems
- WinCC/ODK (Open Development Kit)
  For the use of open programming interfaces and the generation of customer-specific WinCC ActiveX objects

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Overview

SIMATIC TeleControl

SIMATIC TeleControl for WinCC supports connection to outlying stations (Remote Terminal Units = RTUs) via telecontrol protocols.

- SIMATIC TeleControl V7.4 has been released for use with SIMATIC WinCC V7.4 as described here.
- SIMATIC TeleControl V7.4 supports the combination with WinCC as a Windows service

Licenses

- SIMATIC TeleControl for WinCC consists of an engineering and a runtime component
- The engineering software is supplied with a floating license. The floating license allows installation of the software on any number of computers. This means one user per license can use the software independently of the computer used or a specific work station.
- The runtime software is supplied as a single license for one server and allows a specific number of stations to be connected depending on the license.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

Selection and ordering data

SIMATIC TeleControl for WinCC	
SIMATIC TeleControl 7.5 for WinCC Basic Engineering	
Package delivery	**6DL5000-7AA57-0XA5**
Download	**6DL5000-7AA57-0XH5**
Software package with SIMATIC Telecontrol for WinCC 7.5 engineering software, floating license for 1 user; executable under Windows 7 Ultimate and Enterprise 32/64-bit, Windows 10 LTSB 2015 (64-bit), Windows Server 2008 R2 Standard 64-bit or Windows Server 2012 R2 Standard 64-bit, electronic documentation on CD/DVD, two languages (English, German) Type of delivery: License key memory stick, Certificate of License including terms and conditions, SIMATIC WinCC Data Medium Package V7.5 and CD "WinCC TeleControl Option V7.5"	
SIMATIC TeleControl V7.5 for WinCC Server Runtime	
Software package with SIMATIC Telecontrol for WinCC 7.5 engineering software, single license for 1 user; executable under Windows 7 Ultimate and Enterprise 32/64-bit, Windows 10 LTSB 2015 (64-bit), Windows Server 2008 R2 Standard 64-bit or Windows Server 2012 R2 Standard 64-bit, electronic documentation on CD/DVD, two languages (English, German) Type of delivery: License key memory stick, Certificate of License including terms and conditions, SIMATIC WinCC Data Medium Package V7.5 and CD "WinCC TeleControl Option V7.5"	
• 6 stations	
Package delivery	**6DL5002-7AA57-0XA0**
Download	**6DL5002-7AA57-0XH0**
• 12 stations	
Package delivery	**6DL5002-7AB57-0XA0**
Download	**6DL5002-7AB57-0XH0**
• 256 stations	
Package delivery	**6DL5002-7AE57-0XA0**
Download	**6DL5002-7AE57-0XH0**
• unlimited	
Upgrades	
SIMATIC TeleControl for WinCC, upgrade V7.0 to V7.5	
Package delivery	**6DL5002-7AA57-0XE0**
Download	**6DL5002-7AA57-0XK0**
Upgrade package; single license for 1 installation, E-SW and documentation on DVD; license key on USB flash drive, Class A; two languages (English, German). Executable under Windows 7 Ult/Server 2008 R2/Server 2012 R2	
Driver software for telecontrol protocols	
TeleControl SINAUT driver	
Package delivery	**6DL5101-8AX00-0XB0**
Download	**6DL5101-8AX00-0XH0**
Runtime license for a WinCC Single Station or WinCC Server, single license for 1 installation. Requirement: SIMATIC TeleControl 7.5 software for WinCC Server Runtime (6, 12, 256 stations) Type of delivery: License key memory stick, Certificate of License including terms and conditions	

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Selection and ordering data (continued)

TeleControl DNP3 driver	
Package delivery	**6DL5101-8EX00-0XB0**
Download	**6DL5101-8EX00-0XH0**
Runtime license for a WinCC Single Station or WinCC Server, single license for 1 installation. Requirement: SIMATIC TeleControl 7.5 software for WinCC Server Runtime (6, 12, 256 stations) Type of delivery: License key memory stick, Certificate of License including terms and conditions	
TeleControl IEC 870-5-101/-104 driver	
Package delivery	**6DL5101-8CX00-0XB0**
Download	**6DL5101-8CX00-0XH0**
Runtime license for one WinCC Single Station or one WinCC Server, single license for 1 installation Requirement: SIMATIC TeleControl 7.5 software for WinCC Server Runtime (6, 12, 256 stations) Type of delivery: License key memory stick, Certificate of License including terms and conditions	

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Overview

WinCC/Audit & WinCC/ChangeControl

- **WinCC/ChangeControl** is used to **trace engineering changes** in a tamper-proof long-term Audit Trail database, called the Audit Trail for short.
  All engineering changes are automatically recorded in the Audit Trail. This provides a traceable record of every change that has been made, as well as enabling the causes to be deduced and the system downtimes to be minimized.
  To begin tracing at defined project statuses, a project version definition is provided that contains all data and files of a WinCC project version. The project version definition naturally provides the ability to reactivate earlier project versions. Document management is also provided, which manages and archives intermediate statuses for system graphics, reports or user files and stores change information of the user. The audit viewer with helpful filter functions enables the Audit Trail to be quickly and easily evaluated, exported or even printed out.
- **WinCC/Audit** is based on the same Audit Trail database and the same audit viewer as WinCC ChangeControl.
  However, the focus of WinCC Audit is the **traceability of all operator actions** during production, i.e. during the runtime of WinCC. All operations are automatically recorded in the Audit Trail at RT. In addition, WinCC Audit offers additional functions for secure and traceable plant operation, such as electronic signature for certain operating actions.
- The WinCC/Audit or WinCC/ChangeControl options and SIMATIC Logon support users in the validation of their plants and meet the requirements according to FDA CFR 21 Part 11.

Licenses (as of WinCC V8.0)

The complete license WinCC Audit RC includes the licenses for runtime and configuration of WinCC ChangeControl and WinCC Audit.

Licensing applies to one engineering station (configuration) and one operating station (runtime) for which an Audit Trail is to be generated.
An RC license also always includes a runtime (RT) license. Only one RT license is required for each additional operating station with Audit Trail.
In case of WinCC Server (for UNI or web clients), an Audit RT Server license must be used.
However, the clients on such a server do not require their own licensing.
The individual functional areas can also be purchased independently of each other via the WinCC ChangeControl or WinCC Audit RC Base single licenses.

Selection and ordering data

WinCC/ChangeControl	
WinCC ChangeControl V8.1	
• Standard scope of supply	**6AV6371-1DV28-1AX0**
• As download	**6AV6371-1HV28-1AX0**
WinCC/Audit	
WinCC/Audit RC V8.1	
For configuration of ChangeControl and Audit incl. RT	
• Standard scope of supply	**6AV6371-1DV18-1AX0**
• As download	**6AV6371-1HV18-1AX0**
WinCC/Audit RC Base V8.1	
For configuration of Audit incl. RT	
• Standard scope of supply	**6AV6371-1DV48-1AX0**
• As download	**6AV6371-1HV48-1AX0**
WinCC/Audit RT V8.1	
Creation of Audit Trails in RT	
• WinCC Audit RT V8.1	**6AV6371-1DV08-1AX0**
• WinCC Audit RT Server V8.1	**6AV6371-1DV38-1AX0**
• WinCC Audit RT Server PowerPack	**6AV6371-1BV38-1AX0**
As download	
• WinCC Audit RT V8.1	**6AV6371-1HV08-1AX0**
• WinCC Audit RT Server V8.1	**6AV6371-1HV38-1AX0**
• WinCC Audit RT Server PowerPack	**6AV6371-1JV38-1AX0**
Upgrades	
V8.0 to V8.1	
• For WinCC/Audit RT	**6AV6371-1DV08-1BX4**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1DV18-1BX4**
As download	
• WinCC/Audit RT	**6AV6371-1KV08-1BX4**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1KV18-1BX4**
V7.4/7.5 to V8.1	
• For WinCC/Audit RT	**6AV6371-1DV08-1BX3**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1DV18-1BX3**
As download	
• WinCC/Audit RT	**6AV6371-1KV08-1BX3**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1KV18-1BX3**
WinCC ChangeControl V8.0	
• Standard scope of supply	**6AV6371-1DV28-0AX0**
• As download	**6AV6371-1HV28-0AX0**
WinCC/Audit	
WinCC/Audit RC V8.0	
For configuration of ChangeControl and Audit incl. RT	
• Standard scope of supply	**6AV6371-1DV18-0AX0**
• As download	**6AV6371-1HV18-0AX0**
WinCC/Audit RC Base V8.0	
For configuration of Audit incl. RT	
• Standard scope of supply	**6AV6371-1DV48-0AX0**
• As download	**6AV6371-1HV48-0AX0**

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Selection and ordering data (continued)

WinCC/Audit RT V8.0	
Creation of Audit Trails in RT	
• WinCC Audit RT V8.0	**6AV6371-1DV08-0AX0**
• WinCC Audit RT Server V8.0	**6AV6371-1DV38-0AX0**
• WinCC Audit RT Server PowerPack	**6AV6371-1BV38-0AX0**
As download	
• WinCC Audit RT V8.0	**6AV6371-1HV08-0AX0**
• WinCC Audit RT Server V8.0	**6AV6371-1HV38-0AX0**
• WinCC Audit RT Server PowerPack	**6AV6371-1JV38-0AX0**
Upgrades	
V7.5 to V8.0	
• For WinCC/Audit RT	**6AV6371-1DV08-0BX4**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1DV18-0BX4**
As download	
• WinCC/Audit RT	**6AV6371-1KV08-0BX4**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1KV18-0BX4**
V7.3/7.4 to V8.0	
• For WinCC/Audit RT	**6AV6371-1DV08-0BX3**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1DV18-0BX3**
As download	
• WinCC/Audit RT	**6AV6371-1KV08-0BX3**
• For WinCC/Audit RC or WinCC/ChangeControl	**6AV6371-1KV18-0BX3**

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Overview

WinCC/Calendar Scheduler

- Option for SIMATIC WinCC for managing events in a calendar.
- Setting WinCC variables or starting global scripts at defined times.

Licenses

- WinCC/Calendar Scheduler comprises engineering and runtime software, with licensing either on the WinCC server or single-user system
- A common "Upgrade for WinCC Calendar options" software package is used to upgrade to a new version.

Selection and ordering data

WinCC/Calendar Scheduler	
• WinCC V8.1	**6AV6372-1DC08-1AX0**
• WinCC V8.0	**6AV6372-1DC08-0AX0**
As download	
• WinCC V8.1	**6AV6372-1HC08-1AX0**
• WinCC V8.0	**6AV6372-1HC08-0AX0**
Upgrade	
• V7.4/V7.5 -> V8.1	**6AV6372-1DC08-1AX3**
• V8.0 -> V8.1	**6AV6372-1DC08-1AX4**
As download	
• V7.4/V7.5 -> V8.1	**6AV6372-1KC08-1AX3**
• V8.0 -> V8.1	**6AV6372-1KC08-1AX4**

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Overview

WinCC/Connectivity Pack & WinCC Connectivity Station

Cross-manufacturer communication in the automation sector has always been of primary importance for WinCC. This is even more true for the exchange of preprocessed production data for higher-level information systems (e.g. MES = Management Execution System, ERP = Enterprise Resource Planning or Office packages = MS Excel, MS Access, etc.).

WinCC has integrated OPC and OPC UA servers that provide access to online and archive data. In addition to OPC, the Connectivity Pack also activates the access options via OLE DB and, as of WinCC V8.0, also MQTT Cloud Connect, REST API, and REST Connector or IT Connector.

- The following OPC access operations are possible with the Connectivity Pack:
  - OPC UA server for DA, A&C, and HDA
  - OPC server for A&E and HDA

Access via OPC DA is also possible without Connectivity Pack. The Connectivity Station offers OPC UA, OPC and OLE DB access also via a station without WinCC installation.

Licensing

- A Connectivity Pack license is required for each WinCC system to be accessed.
- When using the Connectivity Station it is not necessary to install additional Connectivity Pack licenses on the WinCC systems being accessed.
- In order to use the OPC interfaces of the Connectivity Station on a computer without the WinCC installation, you need the "WinCC Connectivity Station" license.
- For sole use of the OPC interfaces of a WinCC installation, only the "Connectivity Pack" license is required.

The Connectivity Station is configured via the SIMATIC Manager.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

Selection and ordering data

WinCC/Connectivity Pack & WinCC/Connectivity Station	
V8.1	
Basic packages	
• WinCC/Connectivity Pack V8.1 [1]	**6AV6371-1DR08-1AX0**
• WinCC/Connectivity Station V8.1 [1]	**6AV6371-1DR18-1AX0**
As download	
• WinCC/Connectivity Pack V8.1	**6AV6371-1HR08-1AX0**
• WinCC/Connectivity Station V8.1	**6AV6371-1HR18-1AX0**
V8.0	
Basic packages	
• WinCC/Connectivity Pack V8.0 [1]	**6AV6371-1DR08-0AX0**
• WinCC/Connectivity Station V8.0 [1]	**6AV6371-1DR18-0AX0**
As download	
• WinCC/Connectivity Pack V8.0	**6AV6371-1HR08-0AX0**
• WinCC/Connectivity Station V8.0	**6AV6371-1HR18-0AX0**

1) Upgrades are included in the WinCC Basic Software upgrades

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Overview

WinCC/Event Notifier

- Option for SIMATIC WinCC for notifying selected persons by email in specified time slots
- Notification depends on events occurring in the WinCC Message System
- Escalation levels, i.e. Group 2 is only notified when nobody "on site" or from Group 1 has reacted within a specified time
- Final notification of all persons previously notified in connection with the specific event about the reaction that has taken place

Licenses

- WinCC/Event Notifier comprises engineering and runtime software, with licensing either on the WinCC server or single-user system
- A common "Upgrade for WinCC Calendar options" software package is used to upgrade to a new version.

Selection and ordering data

WinCC/Event Notifier	
• For WinCC V8.1	**6AV6372-1DD08-1AX0**
• For WinCC V8.0	**6AV6372-1DD08-0AX0**
As download	
• For WinCC V8.1	**6AV6372-1HD08-1AX0**
• For WinCC V8.0	**6AV6372-1HD08-0AX0**
Upgrade (joint upgrade package for Calendar Scheduler and Event Notifier)	
• V7.5 -> V8.0	**6AV6372-1DC08-0AX4**
• V7.3/7.4 -> V8.0	**6AV6372-1DC08-0AX3**
As download	
• V7.5 -> V8.0	**6AV6372-1KC08-0AX4**
• V7.3/7.4 -> V8.0	**6AV6372-1KC08-0AX3**

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Overview

WinCC/ODK (Open Development Kit)

- WinCC option for utilization of the exposed programming interfaces that can be used to access data and functions of the WinCC configuration and WinCC runtime system
- The interfaces are designed as "C-Application Programming Interface" (C-API)

Licenses

The scope of supply of WinCC/ODK includes many examples and comprehensive documentation.

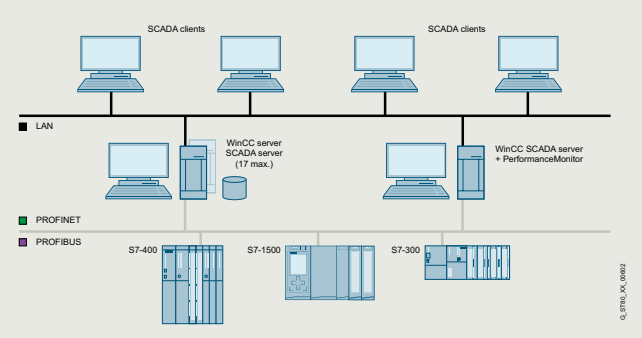
You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

Selection and ordering data

SIMATIC WinCC/ODK	
Open Development Kit, option for SIMATIC WinCC	
• V8.1	**6AV6371-1CC08-1AX0**
• V8.0	**6AV6371-1CC08-0AX0**
As download	
• V8.1	**6AV6371-1GC08-1AX0**
• V8.0	**6AV6371-1GC08-0AX0**

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Overview



WinCC/PerformanceMonitor

WinCC/PerformanceMonitor –
Analysis and optimization of production on the basis of individual performance indicators

The WinCC/PerformanceMonitor facilitates flexible calculation and powerful analysis of plant-specific key performance indicators (KPIs). The indicators provide the basis for deriving optimization potential, thus enabling productivity enhancement.

They relate to individual machine groups, plant sections or production lines. The elements to be monitored are designated as equipment. Indicators are calculated based on operands which are derived from already configured WinCC tags. By combining them with associated values, more accurate production correlations can be highlighted, such as quality/supplier dependencies.
The calculation formulas used are quick and simple to create in WinCC.

Analysis of the indicators and their operands can be carried out in the WinCC system at any time. Indicators, along with their associated values if required, can be clearly displayed in bar graphs, allowing easy comparison. In addition, the input values of each performance indicator can be shown via an integrated analysis function (drill-down). The Gantt chart illustrates the chronological sequence of the operands. The table display lists the archived values, allowing subsequent correction if required. Performance indicators calculated online, either cyclically or triggered by a tag, can be written to WinCC tags for further processing in WinCC, and display in WinCC images, for example.

The PerformanceMonitor can be combined with the WebNavigator for distribution on the Internet, and with the Information Server for reporting purposes. Integration into WinCC ensures fast configuration and complete transparency across all machine and plant data as a basis for optimizing plant productivity.

- The WinCC/PerformanceMonitor can be installed on a WinCC stand-alone system, WinCC server or WinCC client project (WinCC RT Client license), and consists of an engineering client as well as a runtime user interface.
- The WinCC/PerformanceMonitor provides ActiveX control elements for embedding in WinCC images.
  - PerformanceControl: Bar graphs for displaying performance indicators in relation to context values, showing the operands for cause analysis in each case.
  - Gantt chart: Chronological sequence of time-based operands
  - TableControl: Tabular listing of operands with post correction option.
- With the help of the integrated configuration environment, operands are calculated (based on tags) which can be used to calculate key statistics at the set evaluation time.

Overview (continued)

- For analysis via intranet or Internet, the controls of the WinCC/PerformanceMonitor are available when using the WinCC/WebNavigator.
- The SIMATIC Information Server can be used for generating plant-specific, web-based reports (predefined and expandable).

Licensing

- The basic package comprises a configuration environment, runtime controls (bars, Gantt, tables) and a license for archiving 30 values.
- The logged values (operands, context) form the basis of the analysis. If more values are to be archived, the number of (additive) archive values can be increased in steps of 30, 100, 300 or 1 000 (countable tags).

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

Selection and ordering data

WinCC/PerformanceMonitor	
WinCC/PerformanceMonitor Basic Package	
Including 30 PerformanceMonitor archive tags	
• WinCC/PerformanceMonitor V8.1	**6AV6372-2DG08-1AA0**
• WinCC/PerformanceMonitor V8.0	**6AV6372-2DG08-0AA0**
As download	
• WinCC/PerformanceMonitor V8.1	**6AV6372-2HG08-1AA0**
• WinCC/PerformanceMonitor V8.0	**6AV6372-2HG08-0AA0**
Option for WinCC/PerformanceMonitor V7.5 SP2 and V8.0 Basic package	
• 30 additive PerformanceMonitor archive tags	**6AV6372-2CG20-0BA0**
• 100 additive PerformanceMonitor archive tags	**6AV6372-2CG20-0CA0**
• 300 additive PerformanceMonitor archive tags	**6AV6372-2CG20-0DA0**
• 1 000 additive PerformanceMonitor archive tags	**6AV6372-2CG20-0EA0**
As download	
• 30 additive PerformanceMonitor archive tags	**6AV6372-2JG20-0BA0**
• 100 additive PerformanceMonitor archive tags	**6AV6372-2JG20-0CA0**
• 300 additive PerformanceMonitor archive tags	**6AV6372-2JG20-0DA0**
• 1 000 additive PerformanceMonitor archive tags	**6AV6372-2JG20-0EA0**
WinCC/PerformanceMonitor Upgrade	
V7.4/V7.5 to V8.1	
• Standard software	**6AV6372-2DG08-1AX3**
• As download	**6AV6372-2KG08-1AX3**
V8.0 to V8.1	
• Standard software	**6AV6372-2DG08-1AX4**
• As download	**6AV6372-2KG08-1AX4**
V7.5 SP2 to V8.0	
• Standard software	**6AV6372-2DG08-0AX4**
• As download	**6AV6372-2KG08-0AX4**
V7.3/7.4 to V8.0	
• Standard software	**6AV6372-2DG08-0AX3**
• As download	**6AV6372-2KG08-0AX3**

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Overview

WinCC/Redundancy

- Option for SIMATIC WinCC, supporting the parallel operation of two interfaced WinCC single-user systems or process data servers for mutual monitoring
- If one of the two server PCs or one of the two WinCC stations fails, the second one will take over control of the entire system. Once the failed server or station is restored to operation, the process value archives are copied to the restored partner.

Licenses

The WinCC/Redundancy option includes licenses for both redundant servers. A Redundancy license is required on each of the two servers in addition to other necessary licenses.

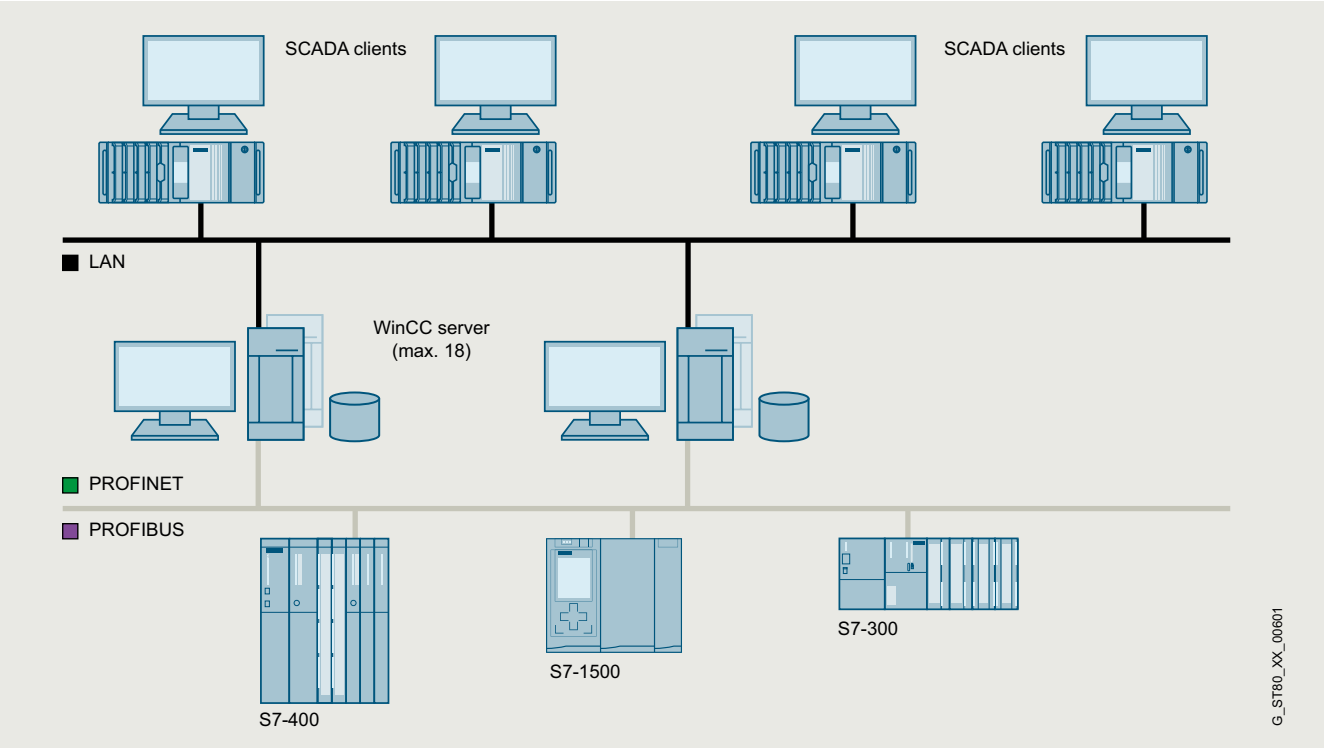
You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

Selection and ordering data

SIMATIC WinCC/Redundancy	
SIMATIC WinCC/Redundancy V8.1	
• Runtime software, single license for 2 installations	**6AV6371-1CF08-1AX0**
• As download Runtime software, single license for 2 installations	**6AV6371-1HF08-1AX0**
SIMATIC WinCC/Redundancy V8.0	
• Runtime software, single license for 2 installations	**6AV6371-1CF08-0AX0**
• As download, Runtime software, single license for 2 installations	**6AV6371-1HF08-0AX0**

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Overview



SIMATIC WinCC/Server

- Option for SIMATIC WinCC, which permits the configuration of a powerful client/server system.
- A maximum of 3 clients can be connected to non-server operating systems.
- A number of coordinated HMI stations can be operated in a single group with networked automation systems
- Client/server solution:
  - Client without its own project ("UNI-Client"):
    One (redundant) server can supply up to 64 clients with process and archive data, messages, images and reports. The clients act as display and operating stations for the project on the server.
  - Client with its own project ("MULTI-Client"):
    One client can simultaneously access up to 18 (redundant) servers. These servers make the data and images available. This data can be collectively processed and displayed in the client project in order, for example, to implement a system overview across several servers. In this case, one server can supply data to as many as 50 clients.
- Requirement: Network connection (TCP/IP) between the server PC and the connected clients

Licenses

The following licenses are required for configuring a multi-user system:

- WinCC Server license on the server in addition to a WinCC RT license (a server license is required for each server)
- One WinCC RT Client license on each client.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

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Selection and ordering data

SIMATIC WinCC/Server	
SIMATIC WinCC/Server V8.1	
• Runtime software, single license	**6AV6371-1CA08-1AX0**
• As download, Runtime software, single license	**6AV6371-1HA08-1AX0**
SIMATIC WinCC/Server V8.0	
• Runtime software, single license	**6AV6371-1CA08-0AX0**
• As download, Runtime software, single license	**6AV6371-1HA08-0AX0**

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Overview

WinCC/UserArchives

- Option for SIMATIC WinCC for managing data records in user archives that contain related data.
- WinCC and its automation partners (e.g. a SIMATIC S7-300/400 controller) write these data records and exchange them if required.

The WinCC/UserArchives option can also be used in the context of the WinCC/WebNavigator (see also WinCC/WebNavigator option).

Licenses

A license is only required for the server (or single-user system).

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

Selection and ordering data

SIMATIC WinCC/UserArchives	
• Option for SIMATIC WinCC V8.1, Runtime software, single license	**6AV6371-1CB08-1AX0**
• Option for SIMATIC WinCC V8.0, Runtime software, single license	**6AV6371-1CB08-0AX0**
As download	
• Option for SIMATIC WinCC V8.1, Runtime software, single license	**6AV6371-1HB08-1AX0**
• Option for SIMATIC WinCC V8.0, Runtime software, single license	**6AV6371-1HB08-0AX0**

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Overview

SIMATIC WinCC Open Architecture

The SCADA System SIMATIC WinCC Open Architecture (WinCC OA) addresses applications with a high demand for customer-specific adaptations, large and/or complex applications, as well as projects that demand special system requirements and functions.

SIMATIC WinCC OA stands for:

- Object orientation supports efficient engineering and flexible plant expansion
- Up to 2 048 servers for distributed systems
- Scalable – from small, single-user systems to networked, redundant high-end systems with more than 10 million PowerTags
- Can be used on any platform, and is available for Windows, Linux, iOS and Android
- Hot standby redundancy and Disaster Recovery system assure maximum fail-safety and availability
- Platform for customized solutions
- Extensive driver and interfacing options:
  S7, S7 PLUS, OPC, OPC UA, Modbus, Rockwell EtherNet/IP, OCPP, Sparkplug B, MQTT, IEC 61850, IEC 60870-5-101/104, DNP3, XML, TCP/IP, REST

Apart from the software, SIMATIC WinCC OA also offers a large spectrum of services and preconfigured supplementary functionalities, such as:

- Single server: products required for operation of a single-user station
- Server: Server Basic Package and expansions with PowerTags (I/Os)
- User interfaces: all available user interface licenses and engineering licenses for one server
- Add-ons: functional expansions within a WinCC OA Server and supplementary functions based on the server
- IPC Packages: special offers for SIMATIC WinCC OA Servers, purchased together with a SIEMENS PC platform
- Development Packages: special offers for development environments and expansions
- Solution Frameworks: pre-defined projects with pre-implemented functions such as extended maintenance applications, tree views of a plant or simulation options with SIMATIC WinCC OA
- Trade goods: commodities for SIMATIC WinCC OA

SIMATIC WinCC OA Services

SIMATIC WinCC OA offers a multitude of support such as consulting, solution portfolio or special implementations (e.g. driver extensions or creation of new ones), as well as hotline support. A large number of training courses is also offered for the multitude of WinCC Open Architecture possibilities. This offer is rounded out with travel expense flat rates to ensure the deployment of our employees on site.

End User License Agreement

The current End User License Agreement (EULA) can be found at this link

Product warranty

During the 12-month warranty period, faults will be corrected at ETM's discretion either by a workaround, a patch or a new WinCC OA version. For resolved defects, the warranty is extended by max. 3 months for the corrected area in WinCC OA (starting from the availability of the patch correcting the fault). An upgrade to the latest WinCC OA version is not part of the product warranty!

Overview (continued)

Definitions:

- "Update" means a modification or expansion of the current software release, including additional functionalities
- "Upgrade" means replacing the current software version with the next higher version.

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Overview

SIMATIC WinCC Open Architecture

SIMATIC WinCC Open Architecture (OA) is a SCADA system for visualizing and operating processes, production flows, machines and plants in all industrial sectors.

SIMATIC WinCC OA is built consistently on object-oriented structures. Due to this consistent and well-considered use of object-oriented structures, from process pictures to the database, the engineering costs improve for SIMATIC WinCC OA customers.

Distributed systems enable the connection of up to 2 048 autonomous SIMATIC WinCC Open Architecture systems via a single network. Each subsystem can be configured either as single-user or multi-user system, each of which may be redundant or non-redundant.

Current version: SIMATIC WinCC Open Architecture V3.21

New in Version 3.21:

- New license portal for central access to all licenses
- "OneClick" packages: Medium, Large and Unlimited
- Fulfilling of security requirements for upcoming directives such as NIS 2 and Cyber Resilience Act
- Wider use of Node.js as an additional script language
- WidgetsWeb Component Dashboard
- System Dashboard
- Drivers:
  - Sparkplug B offers a simple and excellent way to structure MQTT-based data
  - OCPP for standardizing communication between charging stations for electric vehicles and the central management system
  - SECS/GEM enables communication between semiconductor manufacturing systems and WinCC OA
- Archiving
  - Split mode for NGA
  - NGAPostgres Backup & Restore: user interface for standard NGA archiving

Supported platforms:

- Windows Server 2022
- Windows Server 2025 (IoT)
- Windows 11 LTSC
- Red Hat Enterprise Linux 9
- Oracle Linux 9
- SIEMENS Industrial OS 4.0
- Debian 12
- VMware Cluster (HA) ESXi

The current versions of the supported software can be found primarily in the online documentation of WinCC OA.

You can find the supported platforms for older versions in the Knowledge Base of the WinCC OA Portal.

Note:

Native 64-bit support.

Software services:

4 types are available. They are ordered for each WinCC OA software component.

Software service	Short description	Available service periods	Renewable
POS	Patch Only Service	1 year	Yes
SUS	Software Upgrade Service	1 year	Yes
SMS	Software Maintenance Service	1 year	Yes
UPG	One Upgrade	n/a	No

An exact description of the respective options can be found under **More information**.

For more information, please see WinCC Open Architecture Services.

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Technical specifications

Type	SIMATIC WinCC Open Architecture V3.21
Operating system	• Windows Server 2022 • Windows Server 2025 (IoT) • Windows 11 LTSC • Red Hat Enterprise Linux 9 • Oracle Linux 9 • SIEMENS Industrial OS 4 • Debian 12 • VMware Cluster (HA) ESXi • vSphere HA Cluster
Mobile operating system	• Android 8 and higher • iOS 15 and higher
Supported browsers	• Are updated continuously, see software requirements in the online documentation
Supported databases	• PostgreSQL V17 • InfluxDBv1.8.1 • Oracle Instant Client version: 19c • Oracle Server version: 19c • Microsoft SQL Server 2022
PC hardware requirements [1]	
Processor type	x86_64 architecture
Minimum	At least 4 cores from 2 GHz [2][3]
Recommended	• Client: Intel 5.2 GHz[2][3] (or equivalent) • Server: Intel Core i7 or Xeon CPU, 2.8 up to 3.3 GHz [2] • Server large system[4]: Intel Core i9 or Xeon CPU 3.0 up to 3.3 GHz (5GHzTurbo Clock) or equivalent [2][3]
Work memory RAM	
Minimum	8 GB [2]
Recommended	• Client: 8 GB [2][3] • Server: 32 GB [2][3] • Server large system: 64 GB [2]
Storage medium (available memory for installation)	
Minimum	HDD with 5 GB available [2]
Recommended	SAS SSD or equivalent storage system [2]
Storage medium for runtime (available memory for WinCC OA project in addition to installation)	
Minimum	SSD 5 GB (required available memory depends on desired archiving and project size)
Recommended	• Raid system or comparable storage system • Required available memory depends on desired archiving and project size
Screen and graphics card (TrueColor)	
Minimum	1280 x 1024 [2]
Recommended	1920 x 1280 [2]
Mouse and keyboard	Mouse, keyboard
DVD drive	Software installation from USB flash drive, license dongle
Local power user rights	• For installation

1) For actual use in plants, the hardware requirements are largely dependent on the project size and the dynamic response of the process variables. Use the most rugged, high-quality hardware possible with corresponding functionalities such as redundant power supply units or RAID or SSD hard disks. WinCC OA supports dual and multi-processor mode and benefits significantly from the fact that each WinCC OA Manager can be assigned to one processor core as a system process. At the same time, however, it is important that the individual cores offer the highest possible performance (high clocking), since load-critical core processes such as the event manager run on exactly one core (for this reason, multi-core machines with many low-clocked cores are unsuitable for WinCC OA). As for RAM, CPU and HDD, the usual rule applies: more is better
2) System requirements generally only refer to the latest WinCC OA Version under the supported versions of the Windows and Linux operating systems.
3) A precondition for the minimum requirement is that the operating system used does not have any greater requirements itself
4) With a large system it is essential that the system permits not only the highest data point numbers but also a high dynamic response.
5) Deviations are possible for older versions

WinCC OA is ideally suited for use in very large distributed systems. The optimum design of such systems demands corresponding

Technical specifications (continued)

system knowledge of WinCC OA. Due to the event-oriented processing, individual design parameters can be increased or reduced as necessary in actual applications.

Type	SIMATIC WinCC Open Architecture
Data storage format	PostgreSQL, InfluxDB, MSSQL, Oracle, or proprietary database
User administration	
User accounts	USER IDs up to 65535, independent user administration or connection to external systems possible (e.g. Windows Active Directory)
Runtime languages	40 (of which 8 Asian)
Multi-user system	
Server	< 2048 [2][4]
Number of clients	System-limited [2][5]

1) Dependent on the available storage space
2) Dependent on the system configuration and the system load (due to the event-oriented architecture, the system load is essentially determined by the change rates of the values to be processed)
3) By means of high-performance hardware configuration (one archiving cluster and approx. 120 distributed systems that archive parallel values in the cluster): 200,000 archived value changes per second
4) Physical limit: < 2048, in practice systems have already been implemented with up to 550 distributed systems
5) Physical limit: < 255 clients per server, recommended: Max. 100 clients per server

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Overview

A WinCC Open Architecture (WinCC OA) single station or single operator station is a compact WinCC OA server configuration which, in contrast to a regular WinCC OA server license, cannot be extended by additional PowerTags or add-ons. Includes alarm messaging, extended trend, historical recording and SSL encryption.

Selection and ordering data

SIMATIC WinCC Open Architecture	
V3.21	
WinCC OA - Single Station V3.21	
License for single operator station with max. 500 PowerTags	
• Single Station	**6AV6355-1AA50-1AA0**
• Single Station UPG	**6AV6355-1CA50-1AA0**
WinCC OA - Para Single Station V3.21	
Development and parameter assignment license for WinCC OA – Single Station	
• Para Single Station	**6AV6355-1AA50-1AA1**
• Para Single Station UPG	**6AV6355-1CA50-1AA1**
V3.20	
WinCC OA – Single Station V3.30	
License for single operator station with max. 500 PowerTags (bit, integer)	
• Single Station	**6AV6355-1AA50-0AA0**
• Single Station UPG	**6AV6355-1CA50-0AA0**
WinCC OA – Para Single Station V3.20	
Development and parameter assignment license for WinCC OA – Single Station	
• Para Single Station	**6AV6355-1AA50-0AA1**
• Para Single Station UPG	**6AV6355-1CA50-0AA1**
V3.19	
WinCC OA – Single Station V3.19	
License for single operator station with max. 500 PowerTags (bit, integer)	
• Single Station	**6AV6355-1AA47-7AA0**
• Single Station UPG	**6AV6355-1CA47-7AA0**
WinCC OA – Para Single Station V3.19	
Development and parameter assignment license for WinCC OA – Single Station	
• Para Single Station	**6AV6355-1AA47-7AA1**
• Para Single Station UPG	**6AV6355-1CA47-7AA1**

SIMATIC WinCC Open Architecture	
Software Services - version-independent	
WinCC OA – Single Station	
• Single Station SUS	**6AV6355-1DA00-0AA0**
• Single Station SMS	**6AV6355-1FA00-0AA0**
• Single Station POS	**6AV6355-1GA00-0AA0**
WinCC OA – Para Single Station	
• Para Single Station SUS	**6AV6355-1DA00-0AA1**
• Para Single Station SMS	**6AV6355-1FA00-0AA1**
• Para Single Station POS	**6AV6355-1GA00-0AA1**

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Overview

WinCC Open Architecture Server

A WinCC Open Architecture (WinCC OA) server consists of a WinCC OA Server Basic license, the corresponding number of WinCC OA PowerTag licenses and additional options.

The WinCC OA Server Basic license contains:

- Alarm messaging
- Extended trend
- Historical recordings (HDB and NGA)
- S7 and S7 Plus (8 connections) drivers
- SSL encryption
- OPC client
- OPC server
- OPC UA Client
- 1 WinCC OA Web Server
- Recipes
- Scheduler
- Maintenance

Other required options can be licensed in addition. WinCC OA Server can alternatively be built from preconfigured packages. Depending on the package, an extension with additional options may be excluded.

The Server Basic License does not include an external data connection (PowerTags/BACnet objects). These must be purchased for proper operation.
Since version 3.18, dedicated licensing of PowerTag and BACnet objects is required when using the BACnet protocol.
This possibility enables additive ordering of several PowerTag/BACnet object packages on one server or separate ordering and moving of PowerTag/BACnet object packages to different servers by the customer.
PowerTags/BACnet objects can also be increased step by step by means of PowerPacks/BACnetpacks.

Since version 3.20, Recipes, Scheduler and Maintenance are included in the WinCC OA Server Basic license.

Selection and ordering data

SIMATIC WinCC Open Architecture	
V3.21	
WinCC OA - Server Basic V3.21	
License for WinCC OA Server without external data connection and UIs	
• Server Basic	**6AV6355-1AA50-1BA0**
• Server Basic UPG	**6AV6355-1CA50-1BA0**
WinCC OA - PowerTags V3.21	
Extension of a WinCC OA Server license by a fixed number of PowerTags.	
• 1k PowerTags	**6AV6355-1AA50-1BB0**
• 1k PowerTags UPG	**6AV6355-1CA50-1BB0**
• 3k PowerTags	**6AV6355-1AA50-1BB1**
• 3k PowerTags UPG	**6AV6355-1CA50-1BB1**
• 5k PowerTags	**6AV6355-1AA50-1BB2**
• 5k PowerTags UPG	**6AV6355-1CA50-1BB2**
• 10k PowerTags	**6AV6355-1AA50-1BB3**
• 10k PowerTags UPG	**6AV6355-1CA50-1BB3**
• 15k PowerTags	**6AV6355-1AA50-1BB4**
• 15k PowerTags UPG	**6AV6355-1CA50-1BB4**
• 25k PowerTags	**6AV6355-1AA50-1BB5**
• 25k PowerTags UPG	**6AV6355-1CA50-1BB5**
• 50k PowerTags	**6AV6355-1AA50-1BB6**
• 50k PowerTags UPG	**6AV6355-1CA50-1BB6**
• 75k PowerTags	**6AV6355-1AA50-1BB7**
• 75k PowerTags UPG	**6AV6355-1CA50-1BB7**
• 100k PowerTags	**6AV6355-1AA50-1BB8**
• 100k PowerTags UPG	**6AV6355-1CA50-1BB8**
• 150k PowerTags	**6AV6355-1AA50-1BC0**
• 150k PowerTags UPG	**6AV6355-1CA50-1BC0**
• 200k PowerTags	**6AV6355-1AA50-1BC1**
• 200k PowerTags UPG	**6AV6355-1CA50-1BC1**
• 250k PowerTags	**6AV6355-1AA50-1BC2**
• 250k PowerTags UPG	**6AV6355-1CA50-1BC2**
• Unlimited PowerTags	**6AV6355-1AA50-1BC3**
• Unlimited PowerTags UPG	**6AV6355-1CA50-1BC3**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA - PowerPacks V3.21	
Extension for step-by-step increase of PowerTags	
• 1k-3k PowerPack	**6AV6355-1AA50-1BD0**
• 1k-3k PowerPack UPG	**6AV6355-1CA50-1BD0**
• 3k-5k PowerPack	**6AV6355-1AA50-1BD1**
• 3k-5k PowerPack UPG	**6AV6355-1CA50-1BD1**
• 5k-10k PowerPack	**6AV6355-1AA50-1BD2**
• 5k-10k PowerPack UPG	**6AV6355-1CA50-1BD2**
• 10k-15k PowerPack	**6AV6355-1AA50-1BD3**
• 10k-15k PowerPack UPG	**6AV6355-1CA50-1BD3**
• 15k-25k PowerPack	**6AV6355-1AA50-1BD4**
• 15k-25k PowerPack UPG	**6AV6355-1CA50-1BD4**
• 25k-50k PowerPack	**6AV6355-1AA50-1BD5**
• 25k-50k PowerPack UPG	**6AV6355-1CA50-1BD5**
• 50k-75k PowerPack	**6AV6355-1AA50-1BD6**
• 50k-75k PowerPack UPG	**6AV6355-1CA50-1BD6**
• 75k-100k PowerPack	**6AV6355-1AA50-1BD7**
• 75k-100k PowerPack UPG	**6AV6355-1CA50-1BD7**
• 100k-150k PowerPack	**6AV6355-1AA50-1BE0**
• 100k-150k PowerPack UPG	**6AV6355-1CA50-1BE0**
• 150k-200k PowerPack	**6AV6355-1AA50-1BE1**
• 150k-200k PowerPack UPG	**6AV6355-1CA50-1BE1**
• 200k-250k PowerPack	**6AV6355-1AA50-1BE2**
• 200k-250k PowerPack UPG	**6AV6355-1CA50-1BE2**
• 250k-Unlimited PowerPack	**6AV6355-1AA50-1BE3**
• 250k-Unlimited PowerPack UPG	**6AV6355-1CA50-1BE3**
V3.20	
WinCC OA – Server Basic V3.20	
License for WinCC OA Server without external data connection and UIs	
• Server Basic	**6AV6355-1AA50-0BA0**
• Server Basic UPG	**6AV6355-1CA50-0BA0**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – PowerTags V3.20	
Extension of a WinCC OA Server license by a fixed number of PowerTags.	
• 1k PowerTags	**6AV6355-1AA50-0BB0**
• 1k PowerTags UPG	**6AV6355-1CA50-0BB0**
• 3k PowerTags	**6AV6355-1AA50-0BB1**
• 3k PowerTags UPG	**6AV6355-1CA50-0BB1**
• 5k PowerTags	**6AV6355-1AA50-0BB2**
• 5k PowerTags UPG	**6AV6355-1CA50-0BB2**
• 10k PowerTags	**6AV6355-1AA50-0BB3**
• 10k PowerTags UPG	**6AV6355-1CA50-0BB3**
• 15k PowerTags	**6AV6355-1AA50-0BB4**
• 15k PowerTags UPG	**6AV6355-1CA50-0BB4**
• 25k PowerTags	**6AV6355-1AA50-0BB5**
• 25k PowerTags UPG	**6AV6355-1CA50-0BB5**
• 50k PowerTags	**6AV6355-1AA50-0BB6**
• 50k PowerTags UPG	**6AV6355-1CA50-0BB6**
• 75k PowerTags	**6AV6355-1AA50-0BB7**
• 75k PowerTags UPG	**6AV6355-1CA50-0BB7**
• 100k PowerTags	**6AV6355-1AA50-0BB8**
• 100k PowerTags UPG	**6AV6355-1CA50-0BB8**
• 150k PowerTags	**6AV6355-1AA50-0BC0**
• 150k PowerTags UPG	**6AV6355-1CA50-0BC0**
• 200k PowerTags	**6AV6355-1AA50-0BC1**
• 200k PowerTags UPG	**6AV6355-1CA50-0BC1**
• 250k PowerTags	**6AV6355-1AA50-0BC2**
• 250k PowerTags UPG	**6AV6355-1CA50-0BC2**
• Unlimited PowerTags	**6AV6355-1AA50-0BC3**
• Unlimited PowerTags UPG	**6AV6355-1CA50-0BC3**
WinCC OA – PowerPacks V3.20	
Extension for step-by-step increase of PowerTags	
• 1k-3k PowerPack	**6AV6355-1AA50-0BD0**
• 1k-3k PowerPack UPG	**6AV6355-1CA50-0BD0**
• 3k-5k PowerPack	**6AV6355-1AA50-0BD1**
• 3k-5k PowerPack UPG	**6AV6355-1CA50-0BD1**
• 5k-10k PowerPack	**6AV6355-1AA50-0BD2**
• 5k-10k PowerPack UPG	**6AV6355-1CA50-0BD2**
• 10k-15k PowerPack	**6AV6355-1AA50-0BD3**
• 10k-15k PowerPack UPG	**6AV6355-1CA50-0BD3**
• 15k-25k PowerPack	**6AV6355-1AA50-0BD4**
• 15k-25k PowerPack UPG	**6AV6355-1CA50-0BD4**
• 25k-50k PowerPack	**6AV6355-1AA50-0BD5**
• 25k-50k PowerPack UPG	**6AV6355-1CA50-0BD5**
• 50k-75k PowerPack	**6AV6355-1AA50-0BD6**
• 50k-75k PowerPack UPG	**6AV6355-1CA50-0BD6**
• 75k-100k PowerPack	**6AV6355-1AA50-0BD7**
• 75k-100k PowerPack UPG	**6AV6355-1CA50-0BD7**
• 100k-150k PowerPack	**6AV6355-1AA50-0BE0**
• 100k-150k PowerPack UPG	**6AV6355-1CA50-0BE0**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
• 150k-200k PowerPack	6AV6355-1AA50-0BE1
• 150k-200k PowerPack UPG	6AV6355-1CA50-0BE1
• 200k-250k PowerPack	6AV6355-1AA50-0BE2
• 200k-250k PowerPack UPG	6AV6355-1CA50-0BE2
• 250k-Unlimited PowerPack	6AV6355-1AA50-0BE3
• 250k-Unlimited PowerPack UPG	6AV6355-1CA50-0BE3
V3.19	
WinCC OA – Server Basic V3.19	
License for WinCC OA Server without external data connection and UIs.	
• Server Basic	6AV6355-1AA47-7BA0
• Server Basic UPG	6AV6355-1CA47-7BA0
WinCC OA – PowerTags V3.19	
Extension of a WinCC OA Server license by a fixed number of PowerTags.	
• 1k PowerTags	6AV6355-1AA47-7BB0
• 1k PowerTags UPG	6AV6355-1CA47-7BB0
• 3k PowerTags	6AV6355-1AA47-7BB1
• 3k PowerTags UPG	6AV6355-1CA47-7BB1
• 5k PowerTags	6AV6355-1AA47-7BB2
• 5k PowerTags UPG	6AV6355-1CA47-7BB2
• 10k PowerTags	6AV6355-1AA47-7BB3
• 10k PowerTags UPG	6AV6355-1CA47-7BB3
• 15k PowerTags	6AV6355-1AA47-7BB4
• 15k PowerTags UPG	6AV6355-1CA47-7BB4
• 25k PowerTags	6AV6355-1AA47-7BB5
• 25k PowerTags UPG	6AV6355-1CA47-7BB5
• 50k PowerTags	6AV6355-1AA47-7BB6
• 50k PowerTags UPG	6AV6355-1CA47-7BB6
• 75k PowerTags	6AV6355-1AA47-7BB7
• 75k PowerTags UPG	6AV6355-1CA47-7BB7
• 100k PowerTags	6AV6355-1AA47-7BB8
• 100k PowerTags UPG	6AV6355-1CA47-7BB8
• 150k PowerTags	6AV6355-1AA47-7BC0
• 150k PowerTags UPG	6AV6355-1CA47-7BC0
• 200k PowerTags	6AV6355-1AA47-7BC1
• 200k PowerTags UPG	6AV6355-1CA47-7BC1
• 250k PowerTags	6AV6355-1AA47-7BC2
• 250k PowerTags UPG	6AV6355-1CA47-7BC2
• Unlimited PowerTags	6AV6355-1AA47-7BC3
• Unlimited PowerTags UPG	6AV6355-1CA47-7BC3

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – PowerPacks V3.19	
Extension for step-by-step increase of PowerTags	
• 1k/3k PowerPack	6AV6355-1AA47-7BD0
• 1k/3k PowerPack UPG	6AV6355-1CA47-7BD0
• 3k/5k PowerPack	6AV6355-1AA47-7BD1
• 3k/5k PowerPack UPG	6AV6355-1CA47-7BD1
• 5k/10k PowerPack	6AV6355-1AA47-7BD2
• 5k/10k PowerPack UPG	6AV6355-1CA47-7BD2
• 10k/15k PowerPack	6AV6355-1AA47-7BD3
• 10k/15k PowerPack UPG	6AV6355-1CA47-7BD3
• 15k/25k PowerPack	6AV6355-1AA47-7BD4
• 15k/25k PowerPack UPG	6AV6355-1CA47-7BD4
• 25k/50k PowerPack	6AV6355-1AA47-7BD5
• 25k/50k PowerPack UPG	6AV6355-1CA47-7BD5
• 50k/75k PowerPack	6AV6355-1AA47-7BD6
• 50k/75k PowerPack UPG	6AV6355-1CA47-7BD6
• 75k/100k PowerPack	6AV6355-1AA47-7BD7
• 75k/100k PowerPack UPG	6AV6355-1CA47-7BD7
• 100k/150k PowerPack	6AV6355-1AA47-7BE0
• 100k/150k PowerPack UPG	6AV6355-1CA47-7BE0
• 150k/200k PowerPack	6AV6355-1AA47-7BE1
• 150k/200k PowerPack UPG	6AV6355-1CA47-7BE1
• 200k/250k PowerPack	6AV6355-1AA47-7BE2
• 200k/250k PowerPack UPG	6AV6355-1CA47-7BE2
• 250k/Unlimited PowerPack	6AV6355-1AA47-7BE3
• 250k/Unlimited PowerPack UPG	6AV6355-1CA47-7BE3

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
Software services - version-independent	
WinCC OA – Server Basic	
• Server Basic SUS	**6AV6355-1DA00-0BA0**
• Server Basic SMS	**6AV6355-1FA00-0BA0**
• Server Basic POS	**6AV6355-1GA00-0BA0**
WinCC OA – PowerTags	
Extension of a WinCC OA Server license by a fixed number of PowerTags.	
• 1k PowerTags SUS	**6AV6355-1DA00-0BB0**
• 1k PowerTags SMS	**6AV6355-1FA00-0BB0**
• 1k PowerTags POS	**6AV6355-1GA00-0BB0**
• 3k PowerTags SUS	**6AV6355-1DA00-0BB1**
• 3k PowerTags SMS	**6AV6355-1FA00-0BB1**
• 3k PowerTags POS	**6AV6355-1GA00-0BB1**
• 5k PowerTags SUS	**6AV6355-1DA00-0BB2**
• 5k PowerTags SMS	**6AV6355-1FA00-0BB2**
• 5k PowerTags POS	**6AV6355-1GA00-0BB2**
• 10k PowerTags SUS	**6AV6355-1DA00-0BB3**
• 10k PowerTags SMS	**6AV6355-1FA00-0BB3**
• 10k PowerTags POS	**6AV6355-1GA00-0BB3**
• 15k PowerTags SUS	**6AV6355-1DA00-0BB4**
• 15k PowerTags SMS	**6AV6355-1FA00-0BB4**
• 15k PowerTags POS	**6AV6355-1GA00-0BB4**
• 25k PowerTags SUS	**6AV6355-1DA00-0BB5**
• 25k PowerTags SMS	**6AV6355-1FA00-0BB5**
• 25k PowerTags POS	**6AV6355-1GA00-0BB5**
• 50k PowerTags SUS	**6AV6355-1DA00-0BB6**
• 50k PowerTags SMS	**6AV6355-1FA00-0BB6**
• 50k PowerTags POS	**6AV6355-1GA00-0BB6**
• 75k PowerTags SUS	**6AV6355-1DA00-0BB7**
• 75k PowerTags SMS	**6AV6355-1FA00-0BB7**
• 75k PowerTags POS	**6AV6355-1GA00-0BB7**
• 100k PowerTags SUS	**6AV6355-1DA00-0BB8**
• 100k PowerTags SMS	**6AV6355-1FA00-0BB8**
• 100k PowerTags POS	**6AV6355-1GA00-0BB8**
• 150k PowerTags SUS	**6AV6355-1DA00-0BC0**
• 150k PowerTags SMS	**6AV6355-1FA00-0BC0**
• 150k PowerTags POS	**6AV6355-1GA00-0BC0**
• 200k PowerTags SUS	**6AV6355-1DA00-0BC1**
• 200k PowerTags SMS	**6AV6355-1FA00-0BC1**
• 200k PowerTags POS	**6AV6355-1GA00-0BC1**
• 250k PowerTags SUS	**6AV6355-1DA00-0BC2**
• 250k PowerTags SMS	**6AV6355-1FA00-0BC2**
• 250k PowerTags POS	**6AV6355-1GA00-0BC2**
• Unlimited PowerTags SUS	**6AV6355-1DA00-0BC3**
• Unlimited PowerTags SMS	**6AV6355-1FA00-0BC3**
• Unlimited PowerTags POS	**6AV6355-1GA00-0BC3**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – PowerPacks	
• 1k/3k PowerPack SUS	**6AV6355-1DA00-0BD0**
• 1k/3k PowerPack SMS	**6AV6355-1FA00-0BD0**
• 1k/3k PowerPack POS	**6AV6355-1GA00-0BD0**
• 3k/5k PowerPack SUS	**6AV6355-1DA00-0BD1**
• 3k/5k PowerPack SMS	**6AV6355-1FA00-0BD1**
• 3k/5k PowerPack POS	**6AV6355-1GA00-0BD1**
• 5k/10k PowerPack SUS	**6AV6355-1DA00-0BD2**
• 5k/10k PowerPack SMS	**6AV6355-1FA00-0BD2**
• 5k/10k PowerPack POS	**6AV6355-1GA00-0BD2**
• 10k/15k PowerPack SUS	**6AV6355-1DA00-0BD3**
• 10k/15k PowerPack SMS	**6AV6355-1FA00-0BD3**
• 10k/15k PowerPack POS	**6AV6355-1GA00-0BD3**
• 15k/25k PowerPack SUS	**6AV6355-1DA00-0BD4**
• 15k/25k PowerPack SMS	**6AV6355-1FA00-0BD4**
• 15k/25k PowerPack POS	**6AV6355-1GA00-0BD4**
• 25k/50k PowerPack SUS	**6AV6355-1DA00-0BD5**
• 50k/75k PowerPack SMS	**6AV6355-1FA00-0BD5**
• 15k/25k PowerPack POS	**6AV6355-1GA00-0BD5**
• 50k/75k PowerPack SUS	**6AV6355-1DA00-0BD6**
• 50k/75k PowerPack SMS	**6AV6355-1FA00-0BD6**
• 50k/75k PowerPack POS	**6AV6355-1GA00-0BD6**
• 75k/100k PowerPack SUS	**6AV6355-1DA00-0BD7**
• 75k/100k PowerPack SMS	**6AV6355-1FA00-0BD7**
• 75k/100k PowerPack POS	**6AV6355-1GA00-0BD7**
• 100k/150k PowerPack SUS	**6AV6355-1DA00-0BE0**
• 100k/150k PowerPack SMS	**6AV6355-1FA00-0BE0**
• 100k/150k PowerPack POS	**6AV6355-1GA00-0BE0**
• 150k/200k PowerPack SUS	**6AV6355-1DA00-0BE1**
• 150k/200k PowerPack SMS	**6AV6355-1FA00-0BE1**
• 150k/200k PowerPack POS	**6AV6355-1GA00-0BE1**
• 200k/250k PowerPack SUS	**6AV6355-1DA00-0BE2**
• 200k/250k PowerPack SMS	**6AV6355-1FA00-0BE2**
• 200k/250k PowerPack POS	**6AV6355-1GA00-0BE2**
• 250k/Unlimited PowerPack SUS	**6AV6355-1DA00-0BE3**
• 250k/Unlimited PowerPack SMS	**6AV6355-1FA00-0BE3**
• 250k/Unlimited PowerPack POS	**6AV6355-1GA00-0BE3**

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Overview

WinCC Open Architecture User Interfaces

User interfaces (UIs) form the interface between software and user.

WinCC Open Architecture (WinCC OA) offers a variety of such interfaces: On the one hand for creating panel files, logic operations, libraries and much more in the form of a graphical editor (GEDI), for data point configurations and value management on the other hand (PARA).

The internal, general module (Vision) offers a simple possibility for user interfaces at operator stations (operator stations, workplace stations). The user interface serves to display values, issue commands or track alarms in the alarm list. Trends and reports are also usually part of the UI. From a programming viewpoint, the user interaction in WinCC Open Architecture is completely isolated from the background processing – it is merely a view of the data of the current process image or the history.

UIs on a server are counted cumulatively and can be extended at a later point in time by purchasing additional UI licenses.

UI packages cannot be split between several servers due to license restrictions.

Selection and ordering data

SIMATIC WinCC Open Architecture	
V3.21	
Operator station licenses for extending a WinCC OA Server	
• 1 UI Client	**6AV6355-1AA50-1CN0**
• 1 UI Client UPG	**6AV6355-1CA50-1CN0**
• 1 UI Client SUS	**6AV6355-1DA00-0CN0**
• 1 UI Client SMS	**6AV6355-1FA00-0CN0**
• 1 UI Client POS	**6AV6355-1GA00-0CN0**
• 10 UI Clients	**6AV6355-1AA50-1CN1**
• 10 UI Clients UPG	**6AV6355-1CA50-1CN1**
• 10 UI Clients SUS	**6AV6355-1DA00-0CN1**
• 10 UI Clients SMS	**6AV6355-1FA00-0CN1**
• 10 UI Clients POS	**6AV6355-1GA00-0CN1**
• 25 UI Clients	**6AV6355-1AA50-1CN2**
• 25 UI Clients UPG	**6AV6355-1CA50-1CN2**
• 25 UI Clients SUS	**6AV6355-1DA00-0CN2**
• 25 UI Clients SMS	**6AV6355-1FA00-0CN2**
• 25 UI Clients POS	**6AV6355-1GA00-0CN2**
• Unlimited UI Clients	**6AV6355-1AA50-1CN3**
• Unlimited UI Clients UPG	**6AV6355-1CA50-1CN3**
• Unlimited UI Clients SUS	**6AV6355-1DA00-0CN3**
• Unlimited UI Clients SMS	**6AV6355-1FA00-0CN3**
• Unlimited UI Clients POS	**6AV6355-1GA00-0CN3**
WinCC OA – UI Client REDU V3.21	
Operator station licenses for extending a WinCC OA REDU Server.	
• 1 UI Client REDU	**6AV6355-1AA50-1CP0**
• 1 UI Client REDU UPG	**6AV6355-1CA50-1CP0**
• 1 UI Client REDU SUS	**6AV6355-1DA00-0CP0**
• 1 UI Client REDU SMS	**6AV6355-1FA00-0CP0**
• 1 UI Client REDU POS	**6AV6355-1FA00-0CP0**
• 10 UI Clients REDU	**6AV6355-1AA50-1CP1**
• 10 UI Clients REDU UPG	**6AV6355-1CA50-1CP1**
• 10 UI Clients REDU SUS	**6AV6355-1DA00-0CP1**
• 10 UI Clients REDU SMS	**6AV6355-1FA00-0CP1**
• 10 UI Clients REDU POS	**6AV6355-1GA00-0CP1**
• 25 UI Clients REDU	**6AV6355-1AA50-1CP2**
• 25 UI Clients REDU UPG	**6AV6355-1CA50-1CN2**
• 25 UI Clients REDU SUS	**6AV6355-1DA00-0CP2**
• 25 UI Clients REDU SMS	**6AV6355-1FA00-0CP2**
• 25 UI Clients REDU POS	**6AV6355-1GA00-0CP2**
• Unlimited UI Clients REDU	**6AV6355-1AA50-1CP3**
• Unlimited UI Clients REDU UPG	**6AV6355-1CA50-1CP3**
• Unlimited UI Clients REDU SUS	**6AV6355-1DA00-0CP3**
• Unlimited UI Clients REDU SMS	**6AV6355-1FA00-0CP3**
• Unlimited UI Clients REDU POS	**6AV6355-1GA00-0CP3**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – UI Light V3.21	
Licenses for WinCC OA Mobile App for iOS or Android	
• 1 UI light	6AV6355-1AA50-1CQ0
• 1 UI light UPG	6AV6355-1CA50-1CQ0
• 1 UI light SUS	6AV6355-1DA00-0CQ0
• 1 UI light SMS	6AV6355-1FA00-0CQ0
• 1 UI light POS	6AV6355-1GA00-0CQ0
• 10 UIs light	6AV6355-1AA00-1CQ1
• 10 UIs light UPG	6AV6355-1CA50-1CQ1
• 10 UIs light SUS	6AV6355-1DA00-0CQ1
• 10 UIs light SMS	6AV6355-1FA00-0CQ1
• 10 UIs light POS	6AV6355-1GA00-0CQ1
• 25 UIs light	6AV6355-1AA50-1CQ2
• 25 UIs light UPG	6AV6355-1CA50-1CQ2
• 25 UIs light SUS	6AV6355-1DA00-0CQ2
• 25 UIs light SMS	6AV6355-1FA00-0CQ2
• 25 UIs light POS	6AV6355-1GA00-0CQ2
• Unlimited UIs light	6AV6355-1AA50-1CQ3
• Unlimited UIs light UPG	6AV6355-1CA50-1CQ3
• Unlimited UIs light SUS	6AV6355-1DA00-0CQ3
• Unlimited UIs light SMS	6AV6355-1FA00-0CQ3
• Unlimited UIs light POS	6AV6355-1GA00-0CQ3
WinCC OA - UI Light REDU V3.21	
Licenses for WinCC OA Mobile App for iOS or Android for REDU	
• 1 UI light REDU	6AV6355-1AA50-1CR0
• 1 UI light REDU UPG	6AV6355-1CA50-1CR0
• 1 UI light REDU SUS	6AV6355-1DA00-0CR0
• 1 UI light REDU SMS	6AV6355-1FA00-0CR0
• 1 UI light REDU POS	6AV6355-1GA00-0CR0
• 10 UIs light REDU	6AV6355-1AA50-1CR1
• 10 UIs light REDU UPG	6AV6355-1CA50-1CR1
• 10 UIs light REDU SUS	6AV6355-1DA00-0CR1
• 10 UIs light REDU SMS	6AV6355-1FA00-0CR1
• 10 UIs light REDU POS	6AV6355-1GA00-0CR1
• 25 UIs light REDU	6AV6355-1AA50-1CR2
• 25 UIs light REDU UPG	6AV6355-1CA50-1CR2
• 25 UIs light REDU SUS	6AV6355-1DA00-0CR2
• 25 UIs light REDU SMS	6AV6355-1FA00-0CR2
• 25 UIs light REDU POS	6AV6355-1GA00-0CR2
• Unlimited UIs light REDU	6AV6355-1AA50-1CR3
• Unlimited UIs light REDU UPG	6AV6355-1CA50-1CR3
• Unlimited UIs light REDU SUS	6AV6355-1DA00-0CR3
• Unlimited UIs light REDU SMS	6AV6355-1FA00-0CR3
• Unlimited UIs light REDU POS	6AV6355-1GA00-0CR3
WinCC OA - Para Standard V3.21	
Development and parameterization license for WinCC OA Server	
• Para Standard	6AV6355-1AA50-1CH0
• Para Standard UPG	6AV6355-1CA50-1CH0

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA - Para Standard REDU V3.21	
Development and parameterization license for WinCC OA REDU Server	
• Para Standard REDU	6AV6355-1AA50-1CH1
• Para Standard REDU UPG	6AV6355-1CA50-1CH1
WinCC OA - Para Remote V3.21	
Remote development and parameter assignment license for WinCC OA Server	
• Para Remote	6AV6355-1AA50-1CH2
• Para Remote UPG	6AV6355-1CA50-1CH2
V3.20	
WinCC OA – UI Client V3.20	
Operator station licenses for extending a WinCC OA Server.	
• 1 UI Client	6AV6355-1AA50-0CN0
• 1 UI Client UPG	6AV6355-1CA50-0CN0
• 1 UI Client SUS	6AV6355-1DA00-0CN0
• 1 UI Client SMS	6AV6355-1FA00-0CN0
• 1 UI Client POS	6AV6355-1GA00-0CN0
• 10 UI Clients	6AV6355-1AA50-0CN1
• 10 UI Clients UPG	6AV6355-1CA50-0CN1
• 10 UI Clients SUS	6AV6355-1DA00-0CN1
• 10 UI Clients SMS	6AV6355-1FA00-0CN1
• 10 UI Clients POS	6AV6355-1GA00-0CN1
• 25 UI Clients	6AV6355-1AA50-0CN2
• 25 UI Clients UPG	6AV6355-1CA50-0CN2
• 25 UI Clients SUS	6AV6355-1DA00-0CN2
• 25 UI Clients SMS	6AV6355-1FA00-0CN2
• 25 UI Clients POS	6AV6355-1GA00-0CN2
• Unlimited UI Clients	6AV6355-1AA50-0CN3
• Unlimited UI Clients UPG	6AV6355-1CA50-0CN3
• Unlimited UI Clients SUS	6AV6355-1DA00-0CN3
• Unlimited UI Clients SMS	6AV6355-1FA00-0CN3
• Unlimited UI Clients POS	6AV6355-1GA00-0CN3

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – UI Client REDU V3.20	
Operator station licenses for extending a WinCC OA REDU Server.	
• 1 UI Client REDU	**6AV6355-1AA50-0CP0**
• 1 UI Client REDU UPG	**6AV6355-1CA50-0CP0**
• 1 UI Client REDU SUS	**6AV6355-1DA00-0CP0**
• 1 UI Client REDU SMS	**6AV6355-1FA00-0CP0**
• 1 UI Client REDU POS	**6AV6355-1FA00-0CP0**
• 10 UI Clients REDU	**6AV6355-1AA50-0CP1**
• 10 UI Clients REDU UPG	**6AV6355-1CA50-0CP1**
• 10 UI Clients REDU SUS	**6AV6355-1DA00-0CP1**
• 10 UI Clients REDU SMS	**6AV6355-1FA00-0CP1**
• 10 UI Clients REDU POS	**6AV6355-1GA00-0CP1**
• 25 UI Clients REDU	**6AV6355-1AA50-0CP2**
• 25 UI Clients REDU UPG	**6AV6355-1CA50-0CN2**
• 25 UI Clients REDU SUS	**6AV6355-1DA00-0CP2**
• 25 UI Clients REDU SMS	**6AV6355-1FA00-0CP2**
• 25 UI Clients REDU POS	**6AV6355-1GA00-0CP2**
• Unlimited UI Clients REDU	**6AV6355-1AA50-0CP3**
• Unlimited UI Clients REDU UPG	**6AV6355-1CA50-0CP3**
• Unlimited UI Clients REDU SUS	**6AV6355-1DA00-0CP3**
• Unlimited UI Clients REDU SMS	**6AV6355-1FA00-0CP3**
• Unlimited UI Clients REDU POS	**6AV6355-1GA00-0CP3**
WinCC OA – UI Light V3.20	
Licenses for WinCC OA Mobile App for iOS or Android	
• 1 UI light	**6AV6355-1AA50-0CQ0**
• 1 UI light UPG	**6AV6355-1CA50-0CQ1**
• 1 UI light SUS	**6AV6355-1DA00-0CQ0**
• 1 UI SMS	**6AV6355-1FA00-0CQ0**
• 1 UI POS	**6AV6355-1GA00-0CQ0**
• 10 UIs light	**6AV6355-1AA00-0CQ1**
• 10 UIs light UPG	**6AV6355-1CA50-0CQ1**
• 10 UIs light SUS	**6AV6355-1DA00-0CQ1**
• 10 UIs light SMS	**6AV6355-1FA00-0CQ1**
• 10 UIs light POS	**6AV6355-1GA00-0CQ1**
• 25 UIs light	**6AV6355-1AA50-0CQ2**
• 25 UIs light UPG	**6AV6355-1CA50-0CQ2**
• 25 UIs light SUS	**6AV6355-1DA00-0CQ2**
• 25 UIs light SMS	**6AV6355-1FA00-0CQ2**
• 25 UIs light POS	**6AV6355-1GA00-0CQ2**
• Unlimited UIs light	**6AV6355-1AA50-0CQ3**
• Unlimited UIs light UPG	**6AV6355-1CA50-0CQ3**
• Unlimited UIs light SUS	**6AV6355-1DA00-0CQ3**
• Unlimited UIs light SMS	**6AV6355-1FA00-0CQ3**
• Unlimited UIs light POS	**6AV6355-1GA00-0CQ3**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – UI light REDU V3.20	
Licenses for WinCC OA Mobile App for iOS or Android for REDU Server	
• 1 UI light REDU	**6AV6355-1AA47-7CF0**
• 1 UI light REDU UPG	**6AV6355-1CA47-7CF0**
• 1 UI light REDU SUS	**6AV6355-1DA00-0CR0**
• 1 UI light REDU SMS	**6AV6355-1FA00-0CR0**
• 1 UI light REDU POS	**6AV6355-1GA00-0CR0**
• 10 UIs light REDU	**6AV6355-1AA50-0CR3**
• 10 UIs light REDU UPG	**6AV6355-1CA50-0CR1**
• 10 UIs light REDU SUS	**6AV6355-1DA00-0CR1**
• 10 UIs light REDU SMS	**6AV6355-1FA00-0CR1**
• 10 UIs light REDU POS	**6AV6355-1GA00-0CR1**
• 25 UIs light REDU	**6AV6355-1AA50-0CR2**
• 25 UIs light REDU UPG	**6AV6355-1CA50-0CR2**
• 25 UIs light REDU SUS	**6AV6355-1DA00-0CR2**
• 25 UIs light REDU SMS	**6AV6355-1FA00-0CR2**
• 25 UIs light REDU POS	**6AV6355-1GA00-0CR2**
• Unlimited UIs light REDU	**6AV6355-1AA50-0CR3**
• Unlimited UIs light REDU UPG	**6AV6355-1CA50-0CR3**
• Unlimited UIs light REDU SUS	**6AV6355-1DA00-0CR3**
• Unlimited UIs light REDU SMS	**6AV6355-1FA00-0CR3**
• Unlimited UIs light REDU POS	**6AV6355-1GA00-0CR3**
WinCC OA – Para Standard V3.20	
Development and parameter assignment license for WinCC OA Server.	
• Para Standard	**6AV6355-1AA50-0CH0**
• Para Standard UPG	**6AV6355-1CA50-0CH0**
WinCC OA – Para Standard REDU V3.20	
Development and parameter assignment license for WinCC OA REDU Server.	
• Para Standard REDU	**6AV6355-1AA50-0CH1**
• Para Standard REDU UPG	**6AV6355-1CA50-0CH1**
WinCC OA – Para Remote V3.20	
Remote development and parameter assignment license for WinCC OA Server.	
• Para Remote	**6AV6355-1AA50-0CH2**
• Para Remote UPG	**6AV6355-1CA50-0CH2**
V3.19	
WinCC OA – Desktop UI V3.19	
Operator station licenses for extending a WinCC OA Server.	
• 1 Desktop UI	**6AV6355-1AA47-7CA0**
• 1 Desktop UI UPG	**6AV6355-1CA47-7CA0**
• 10 Desktop UI	**6AV6355-1AA47-7CA1**
• 10 Desktop UI UPG	**6AV6355-1CA47-7CA1**
• 25 Desktop UI	**6AV6355-1AA47-7CA2**
• 25 Desktop UI UPG	**6AV6355-1CA47-7CA2**
• 50 Desktop UI	**6AV6355-1AA47-7CA3**
• 50 Desktop UI UPG	**6AV6355-1CA47-7CA3**
• 100 Desktop UI	**6AV6355-1AA47-7CA4**
• 100 Desktop UI UPG	**6AV6355-1CA47-7CA4**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Desktop UI REDU V3.19	
Operator station licenses for extending a WinCC OA REDU Server.	
• 1 Desktop UI REDU	**6AV6355-1AA47-7CB0**
• 1 Desktop UI REDU UPG	**6AV6355-1CA47-7CB0**
• 10 Desktop UI REDU	**6AV6355-1AA47-7CB1**
• 10 Desktop UI REDU UPG	**6AV6355-1CA47-7CB1**
• 25 Desktop UI REDU	**6AV6355-1AA47-7CB2**
• 25 Desktop UI REDU UPG	**6AV6355-1CA47-7CB2**
• 50 Desktop UI REDU	**6AV6355-1AA47-7CB3**
• 50 Desktop UI REDU UPG	**6AV6355-1CA47-7CB3**
• 100 Desktop UI REDU	**6AV6355-1AA47-7CB4**
• 100 Desktop UI REDU UPG	**6AV6355-1CA47-7CB4**
WinCC OA – ULC UX V3.19	
Licenses for UltraLightClient User eXperience web clients.	
• 1 ULC UX	**6AV6355-1AA47-7CC0**
• 1 ULC UX UPG	**6AV6355-1CA47-7CC0**
• 10 ULC UX	**6AV6355-1AA47-7CC1**
• 10 ULC UX UPG	**6AV6355-1CA47-7CC1**
• 25 ULC UX	**6AV6355-1AA47-7CC2**
• 25 ULC UX UPG	**6AV6355-1CA47-7CC2**
• 50 ULC UX	**6AV6355-1AA47-7CC3**
• 50 ULC UX UPG	**6AV6355-1CA47-7CC3**
• 100 ULC UX	**6AV6355-1AA47-7CC4**
• 100 ULC UX UPG	**6AV6355-1CA47-7CC4**
WinCC OA – ULC UX REDU V3.19	
Licenses for UltraLightClient User eXperience web clients for REDU Server.	
• 1 ULC UX REDU	**6AV6355-1AA47-7CD0**
• 1 ULC UX REDU UPG	**6AV6355-1CA47-7CD0**
• 10 ULC UX REDU	**6AV6355-1AA47-7CD1**
• 10 ULC UX REDU UPG	**6AV6355-1CA47-7CD1**
• 25 ULC UX REDU	**6AV6355-1AA47-7CD2**
• 25 ULC UX REDU UPG	**6AV6355-1CA47-7CD2**
• 50 ULC UX REDU	**6AV6355-1AA47-7CD3**
• 50 ULC UX REDU UPG	**6AV6355-1CA47-7CD3**
• 100 ULC UX REDU	**6AV6355-1AA47-7CD4**
• 100 ULC UX REDU UPG	**6AV6355-1CA47-7CD4**
WinCC OA – Mobile V3.19	
Licenses for WinCC OA Mobile App for iOS or Android.	
• 1 Mobile	**6AV6355-1AA47-7CE0**
• 1 Mobile UPG	**6AV6355-1CA47-7CE0**
• 10 Mobiles	**6AV6355-1AA47-7CE1**
• 10 Mobiles UPG	**6AV6355-1CA47-7CE1**
• 25 Mobiles	**6AV6355-1AA47-7CE2**
• 25 Mobiles UPG	**6AV6355-1CA47-7CE2**
• 50 Mobiles	**6AV6355-1AA47-7CE3**
• 50 Mobiles UPG	**6AV6355-1CA47-7CE3**
• 100 Mobiles	**6AV6355-1AA47-7CE4**
• 100 Mobiles UPG	**6AV6355-1CA47-7CE4**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Mobile REDU V3.19	
Licenses for WinCC OA Mobile App for iOS or Android for REDU Server.	
• 1 Mobile REDU	**6AV6355-1AA47-7CF0**
• 1 Mobile REDU UPG	**6AV6355-1CA47-7CF0**
• 10 Mobiles REDU	**6AV6355-1AA47-7CF1**
• 10 Mobiles REDU UPG	**6AV6355-1CA47-7CF1**
• 25 Mobiles REDU	**6AV6355-1AA47-7CF2**
• 25 Mobiles REDU UPG	**6AV6355-1CA47-7CF2**
• 50 Mobiles REDU	**6AV6355-1AA47-7CF3**
• 50 Mobiles REDU UPG	**6AV6355-1CA47-7CF3**
• 100 Mobiles REDU	**6AV6355-1AA47-7CF4**
• 100 Mobiles REDU UPG	**6AV6355-1CA47-7CF4**
WinCC OA – Para Standard V3.19	
Development and parameter assignment license for WinCC OA Server.	
• Para Standard	**6AV6355-1AA47-7CH0**
• Para Standard UPG	**6AV6355-1CA47-7CH0**
WinCC OA – Para Standard REDU V3.19	
Development and parameter assignment license for WinCC OA REDU Server.	
• Para Standard REDU	**6AV6355-1AA47-7CH1**
• Para Standard REDU UPG	**6AV6355-1CA47-7CH1**
WinCC OA – Para Remote V3.19	
Remote development and parameter assignment license for WinCC OA Server.	
• Para Remote	**6AV6355-1AA47-7CH2**
• Para Remote UPG	**6AV6355-1CA47-7CH2**
WinCC OA – Mobile Dashboard V3.19	
Licenses for native HTML5 dashboard display optimized for mobile devices.	
• 1 Mobile Dashboard	**6AV6355-1AA47-7CJ0**
• 1 Mobile Dashboard UPG	**6AV6355-1CA47-7CJ0**
• 10 Mobile Dashboards	**6AV6355-1AA47-7CJ1**
• 10 Mobile Dashboards UPG	**6AV6355-1CA47-7CJ1**
• 25 Mobile Dashboards	**6AV6355-1AA47-7CJ2**
• 25 Mobile Dashboards UPG	**6AV6355-1CA47-7CJ2**
• 50 Mobile Dashboards	**6AV6355-1AA47-7CJ3**
• 50 Mobile Dashboards UPG	**6AV6355-1CA47-7CJ3**
• 100 Mobile Dashboards	**6AV6355-1AA47-7CJ4**
• 100 Mobile Dashboards UPG	**6AV6355-1CA47-7CJ4**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Mobile Dashboard REDU V3.19	
Licenses for web-based dashboard display on redundant server, optimized for mobile devices:	
• 1 Mobile Dashboard REDU	**6AV6355-1AA47-7CK0**
• 1 Mobile Dashboard REDU UPG	**6AV6355-1CA47-7CK0**
• 10 Mobile Dashboards REDU	**6AV6355-1AA47-7CK1**
• 10 Mobile Dashboards REDU UPG	**6AV6355-1CA47-7CK1**
• 25 Mobile Dashboards REDU	**6AV6355-1AA47-7CK2**
• 25 Mobile Dashboards REDU UPG	**6AV6355-1CA47-7CK2**
• 50 Mobile Dashboards REDU	**6AV6355-1AA47-7CK3**
• 50 Mobile Dashboards REDU UPG	**6AV6355-1CA47-7CK3**
• 100 Mobile Dashboards REDU	**6AV6355-1AA47-7CK4**
• 100 Mobile Dashboards REDU UPG	**6AV6355-1CA47-7CK4**
WinCC OA – Dashboard V3.19	
Licenses for web-based dashboard display	
• 1 Dashboard	**6AV6355-1AA47-7CL0**
• 1 Dashboard UPG	**6AV6355-1CA47-7CL0**
• 10 Dashboards	**6AV6355-1AA47-7CL1**
• 10 Dashboards UPG	**6AV6355-1CA47-7CL1**
• 25 Dashboards	**6AV6355-1AA47-7CL2**
• 25 Dashboards UPG	**6AV6355-1CA47-7CL2**
• 50 Dashboards	**6AV6355-1AA47-7CL3**
• 50 Dashboards UPG	**6AV6355-1CA47-7CL3**
• 100 Dashboards	**6AV6355-1AA47-7CL4**
• 100 Dashboards UPG	**6AV6355-1CA47-7CL4**
WinCC OA – Dashboard REDU V3.19	
Licenses for web-based dashboard display on redundant server:	
• 1 Dashboard REDU	**6AV6355-1AA47-7CM0**
• 1 Dashboard REDU UPG	**6AV6355-1CA47-7CM0**
• 10 Dashboards REDU	**6AV6355-1AA47-7CM1**
• 10 Dashboards REDU UPG	**6AV6355-1CA47-7CM1**
• 25 Dashboards REDU	**6AV6355-1AA47-7CM2**
• 25 Dashboards REDU UPG	**6AV6355-1CA47-7CM2**
• 50 Dashboards REDU	**6AV6355-1AA47-7CM3**
• 50 Dashboards REDU UPG	**6AV6355-1CA47-7CM3**
• 100 Dashboards REDU	**6AV6355-1AA47-7CM4**
• 100 Dashboards REDU UPG	**6AV6355-1CA47-7CM4**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
Software Services - version-independent	
WinCC OA – Desktop UI	
• 1 Desktop UI SUS	**6AV6355-1DA00-0CA0**
• 1 Desktop UI SMS	**6AV6355-1FA00-0CA0**
• 1 Desktop UI POS	**6AV6355-1GA00-0CA0**
• 10 Desktop UI SUS	**6AV6355-1DA00-0CA1**
• 10 Desktop UI SMS	**6AV6355-1FA00-0CA1**
• 10 Desktop UI POS	**6AV6355-1GA00-0CA1**
• 25 Desktop UI SUS	**6AV6355-1DA00-0CA2**
• 25 Desktop UI SMS	**6AV6355-1FA00-0CA2**
• 25 Desktop UI POS	**6AV6355-1GA00-0CA2**
• 50 Desktop UI SUS	**6AV6355-1DA00-0CA3**
• 50 Desktop UI SMS	**6AV6355-1FA00-0CA3**
• 50 Desktop UI POS	**6AV6355-1GA00-0CA3**
• 100 Desktop UI SUS	**6AV6355-1DA00-0CA4**
• 100 Desktop UI SMS	**6AV6355-1FA00-0CA4**
• 100 Desktop UI POS	**6AV6355-1GA00-0CA4**
WinCC OA – Desktop UI REDU	
• 1 Desktop UI REDU SUS	**6AV6355-1DA00-0CB0**
• 1 Desktop UI REDU SMS	**6AV6355-1FA00-0CB0**
• 1 Desktop UI REDU POS	**6AV6355-1GA00-0CB0**
• 10 Desktop UI REDU SUS	**6AV6355-1DA00-0CB1**
• 10 Desktop UI REDU SMS	**6AV6355-1FA00-0CB1**
• 10 Desktop UI REDU POS	**6AV6355-1GA00-0CB1**
• 25 Desktop UI REDU SUS	**6AV6355-1DA00-0CB2**
• 25 Desktop UI REDU SMS	**6AV6355-1FA00-0CB2**
• 25 Desktop UI REDU POS	**6AV6355-1GA00-0CB2**
• 50 Desktop UI REDU SUS	**6AV6355-1DA00-0CB3**
• 50 Desktop UI REDU SMS	**6AV6355-1FA00-0CB3**
• 50 Desktop UI REDU POS	**6AV6355-1GA00-0CB3**
• 100 Desktop UI REDU SUS	**6AV6355-1DA00-0CB4**
• 100 Desktop UI REDU SMS	**6AV6355-1FA00-0CB4**
• 100 Desktop UI REDU POS	**6AV6355-1GA00-0CB4**
WinCC OA – ULC UX	
• 1 ULC UX SUS	**6AV6355-1DA00-0CC0**
• 1 ULC UX SMS	**6AV6355-1FA00-0CC0**
• 1 ULC UX POS	**6AV6355-1GA00-0CC0**
• 10 ULC UX SUS	**6AV6355-1DA00-0CC1**
• 10 ULC UX SMS	**6AV6355-1FA00-0CC1**
• 10 ULC UX POS	**6AV6355-1GA00-0CC1**
• 25 ULC UX SUS	**6AV6355-1DA00-0CC2**
• 25 ULC UX SMS	**6AV6355-1FA00-0CC2**
• 25 ULC UX POS	**6AV6355-1GA00-0CC2**
• 50 ULC UX SUS	**6AV6355-1DA00-0CC3**
• 50 ULC UX SMS	**6AV6355-1FA00-0CC3**
• 50 ULC UX POS	**6AV6355-1GA00-0CC3**
• 100 ULC UX SUS	**6AV6355-1DA00-0CC4**
• 100 ULC UX SMS	**6AV6355-1FA00-0CC4**
• 100 ULC UX POS	**6AV6355-1GA00-0CC4**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – ULC UX REDU	
• 1 ULC UX REDU SUS	**6AV6355-1DA00-0CD0**
• 1 ULC UX REDU SMS	**6AV6355-1FA00-0CD0**
• 1 ULC UX REDU POS	**6AV6355-1GA00-0CD0**
• 10 ULC UX REDU SUS	**6AV6355-1DA00-0CD1**
• 10 ULC UX REDU SMS	**6AV6355-1FA00-0CD1**
• 10 ULC UX REDU POS	**6AV6355-1GA00-0CD1**
• 25 ULC UX REDU SUS	**6AV6355-1DA00-0CD2**
• 25 ULC UX REDU SMS	**6AV6355-1FA00-0CD2**
• 25 ULC UX REDU POS	**6AV6355-1GA00-0CD2**
• 50 ULC UX REDU SUS	**6AV6355-1DA00-0CD3**
• 50 ULC UX REDU SMS	**6AV6355-1FA00-0CD3**
• 50 ULC UX REDU POS	**6AV6355-1GA00-0CD3**
• 100 ULC UX REDU SUS	**6AV6355-1DA00-0CD4**
• 100 ULC UX REDU SMS	**6AV6355-1FA00-0CD4**
• 100 ULC UX REDU POS	**6AV6355-1GA00-0CD4**
WinCC OA – Mobile	
• 1 Mobile SUS	**6AV6355-1DA00-0CE0**
• 1 Mobile SMS	**6AV6355-1FA00-0CE0**
• 1 Mobile POS	**6AV6355-1GA00-0CE0**
• 10 Mobiles SUS	**6AV6355-1DA00-0CE1**
• 10 Mobiles SMS	**6AV6355-1FA00-0CE1**
• 10 Mobiles POS	**6AV6355-1GA00-0CE1**
• 25 Mobiles SUS	**6AV6355-1DA00-0CE2**
• 25 Mobiles SMS	**6AV6355-1FA00-0CE2**
• 25 Mobiles POS	**6AV6355-1GA00-0CE2**
• 50 Mobiles SUS	**6AV6355-1DA00-0CE3**
• 50 Mobiles SMS	**6AV6355-1FA00-0CE3**
• 50 Mobiles POS	**6AV6355-1GA00-0CE3**
• 100 Mobiles SUS	**6AV6355-1DA00-0CE4**
• 100 Mobiles SMS	**6AV6355-1FA00-0CE4**
• 100 Mobiles POS	**6AV6355-1GA00-0CE4**
WinCC OA – Mobile REDU	
• 1 Mobile REDU SUS	**6AV6355-1DA00-0CF0**
• 1 Mobile REDU SMS	**6AV6355-1FA00-0CF0**
• 1 Mobile REDU POS	**6AV6355-1GA00-0CF0**
• 10 Mobiles REDU SUS	**6AV6355-1DA00-0CF1**
• 10 Mobiles REDU SMS	**6AV6355-1FA00-0CF1**
• 10 Mobiles REDU POS	**6AV6355-1GA00-0CF1**
• 25 Mobiles REDU SUS	**6AV6355-1DA00-0CF2**
• 25 Mobiles REDU SMS	**6AV6355-1FA00-0CF2**
• 25 Mobiles REDU POS	**6AV6355-1GA00-0CF2**
• 50 Mobiles REDU SUS	**6AV6355-1DA00-0CF3**
• 50 Mobiles REDU SMS	**6AV6355-1FA00-0CF3**
• 50 Mobiles REDU POS	**6AV6355-1GA00-0CF3**
• 100 Mobiles REDU SUS	**6AV6355-1DA00-0CF4**
• 100 Mobiles REDU SMS	**6AV6355-1FA00-0CF4**
• 100 Mobiles REDU POS	**6AV6355-1GA00-0CF4**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Operator	
• 1 Device SUS	**6AV6355-1DA00-0CG0**
• 1 Device SMS	**6AV6355-1FA00-0CG0**
• 1 Device POS	**6AV6355-1GA00-0CG0**
• 3 Devices SUS	**6AV6355-1DA00-0CG1**
• 3 Devices SMS	**6AV6355-1FA00-0CG1**
• 3 Devices POS	**6AV6355-1GA00-0CG1**
• 10 Devices SUS	**6AV6355-1DA00-0CG2**
• 10 Devices SMS	**6AV6355-1FA00-0CG2**
• 10 Devices POS	**6AV6355-1GA00-0CG2**
• 25 Devices SUS	**6AV6355-1DA00-0CG3**
• 25 Devices SMS	**6AV6355-1FA00-0CG3**
• 25 Devices POS	**6AV6355-1GA00-0CG3**
• 50 Devices SUS	**6AV6355-1DA00-0CG4**
• 50 Devices SMS	**6AV6355-1FA00-0CG4**
• 50 Devices POS	**6AV6355-1GA00-0CG4**
WinCC OA – Para Standard	
• Para Standard SUS	**6AV6355-1DA00-0CH0**
• Para Standard SMS	**6AV6355-1FA00-0CH0**
• Para Standard POS	**6AV6355-1GA00-0CH0**
WinCC OA – Para Standard REDU	
• Para Standard REDU SUS	**6AV6355-1DA00-0CH1**
• Para Standard REDU SMS	**6AV6355-1FA00-0CH1**
• Para Standard REDU POS	**6AV6355-1GA00-0CH1**
WinCC OA – Para Remote	
• Para Remote SUS	**6AV6355-1DA00-0CH2**
• Para Remote SMS	**6AV6355-1FA00-0CH2**
• Para Remote POS	**6AV6355-1GA00-0CH2**
WinCC OA – Mobile Dashboard	
• 1 Mobile Dashboard SUS	**6AV6355-1DA00-0CJ0**
• 1 Mobile Dashboard SMS	**6AV6355-1FA00-0CJ0**
• 1 Mobile Dashboard POS	**6AV6355-1GA00-0CJ0**
• 10 Mobile Dashboards SUS	**6AV6355-1DA00-0CJ1**
• 10 Mobile Dashboards SMS	**6AV6355-1FA00-0CJ1**
• 10 Mobile Dashboards POS	**6AV6355-1GA00-0CJ1**
• 25 Mobile Dashboards SUS	**6AV6355-1DA00-0CJ2**
• 25 Mobile Dashboards SMS	**6AV6355-1FA00-0CJ2**
• 25 Mobile Dashboards POS	**6AV6355-1GA00-0CJ2**
• 50 Mobile Dashboards SUS	**6AV6355-1DA00-0CJ3**
• 50 Mobile Dashboards SMS	**6AV6355-1FA00-0CJ3**
• 50 Mobile Dashboards POS	**6AV6355-1GA00-0CJ3**
• 100 Mobile Dashboards SUS	**6AV6355-1DA00-0CJ4**
• 100 Mobile Dashboards SMS	**6AV6355-1FA00-0CJ4**
• 100 Mobile Dashboards POS	**6AV6355-1GA00-0CJ4**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Mobile Dashboard REDU	
• 1 Mobile Dashboard REDU SUS	**6AV6355-1DA00-0CK0**
• 1 Mobile Dashboard REDU SMS	**6AV6355-1FA00-0CK0**
• 1 Mobile Dashboard REDU POS	**6AV6355-1GA00-0CK0**
• 10 Mobile Dashboards REDU SUS	**6AV6355-1DA00-0CK1**
• 10 Mobile Dashboards REDU SMS	**6AV6355-1FA00-0CK1**
• 10 Mobile Dashboards REDU POS	**6AV6355-1GA00-0CK1**
• 25 Mobile Dashboards REDU SUS	**6AV6355-1DA00-0CK2**
• 25 Mobile Dashboards REDU SMS	**6AV6355-1FA00-0CK2**
• 25 Mobile Dashboards REDU POS	**6AV6355-1GA00-0CK2**
• 50 Mobile Dashboards REDU SUS	**6AV6355-1DA00-0CK3**
• 50 Mobile Dashboards REDU SMS	**6AV6355-1FA00-0CK3**
• 50 Mobile Dashboards REDU POS	**6AV6355-1GA00-0CK3**
• 100 Mobile Dashboards REDU SUS	**6AV6355-1DA00-0CK4**
• 100 Mobile Dashboards REDU SMS	**6AV6355-1FA00-0CK4**
• 100 Mobile Dashboards REDU POS	**6AV6355-1GA00-0CK4**
WinCC OA – Dashboard	
• 1 Dashboard SUS	**6AV6355-1DA00-0CL0**
• 1 Dashboard SMS	**6AV6355-1FA00-0CL0**
• 1 Dashboard POS	**6AV6355-1GA00-0CL0**
• 10 Dashboards SUS	**6AV6355-1DA00-0CL1**
• 10 Dashboards SMS	**6AV6355-1FA00-0CL1**
• 10 Dashboards POS	**6AV6355-1GA00-0CL1**
• 25 Dashboards SUS	**6AV6355-1DA00-0CL2**
• 25 Dashboards SMS	**6AV6355-1FA00-0CL2**
• 25 Dashboards POS	**6AV6355-1GA00-0CL2**
• 50 Dashboards SUS	**6AV6355-1DA00-0CL3**
• 50 Dashboards SMS	**6AV6355-1FA00-0CL3**
• 50 Dashboards POS	**6AV6355-1GA00-0CL3**
• 100 Dashboards SUS	**6AV6355-1DA00-0CL4**
• 100 Dashboards SMS	**6AV6355-1FA00-0CL4**
• 100 Dashboards POS	**6AV6355-1GA00-0CL4**
WinCC OA – Dashboard REDU	
• 1 Dashboard REDU SUS	**6AV6355-1DA00-0CM0**
• 1 Dashboard REDU SMS	**6AV6355-1FA00-0CM0**
• 1 Dashboard REDU POS	**6AV6355-1GA00-0CM0**
• 10 Dashboards REDU SUS	**6AV6355-1DA00-0CM1**
• 10 Dashboards REDU SMS	**6AV6355-1FA00-0CM1**
• 10 Dashboards REDU POS	**6AV6355-1GA00-0CM1**
• 25 Dashboards REDU SUS	**6AV6355-1DA00-0CM2**
• 25 Dashboards REDU SMS	**6AV6355-1FA00-0CM2**
• 25 Dashboards REDU POS	**6AV6355-1GA00-0CM2**
• 50 Dashboards REDU SUS	**6AV6355-1DA00-0CM3**
• 50 Dashboards REDU SMS	**6AV6355-1FA00-0CM3**
• 50 Dashboards REDU POS	**6AV6355-1GA00-0CM3**
• 100 Dashboards REDU SUS	**6AV6355-1DA00-0CM4**
• 100 Dashboards REDU SMS	**6AV6355-1FA00-0CM4**
• 100 Dashboards REDU POS	**6AV6355-1GA00-0CM4**

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Overview

WinCC Open Architecture Drivers

In WinCC Open Architecture (WinCC OA), drivers handle communication with the control and field level.

Since numerous and very different forms of communication are possible with the PLCs or telecontrol nodes, there are several different drivers that can be selected.

The PLC used or the associated communication bus determines which WinCC OA Driver is to be used.

The driver reads current states, measured or counted values from the field and, in the other direction, directs commands and setpoints to the lower-level PLCs.

Selection and ordering data

SIMATIC WinCC Open Architecture	
V3.21	
WinCC OA - Driver S7 V3.21	
Unlimited connection of S7-3x8x and S7-4xx, limited connection of S7-12xx and S7-15xx (options for max 64, 512)	
• Driver S7 64	**6AV6355-1AA50-1DA1**
• Driver S7 64 UPG	**6AV6355-1CA50-1DA1**
• Driver S7 512	**6AV6355-1AA50-1DA2**
• Driver S7 512 UPG	**6AV6355-1CA50-1DA2**
WinCC OA Standard Protocol (Connectivity) V3.21	
• Standard Protocol (Connectivity)	**6AV6355-1AA50-1DN0**
• Standard Protocol (Connectivity) UPG	**6AV6355-1CA50-1DN0**
• Standard Protocol (Connectivity) SUS	**6AV6355-1DA00-0DN0**
• Standard Protocol (Connectivity) SMS	**6AV6355-1FA00-0DN0**
• Standard Protocol (Connectivity) POS	**6AV6355-1GA00-0DN0**
WinCC OA – Premium Protocol (Connectivity) V3.21	
• Premium Protocol (Connectivity)	**6AV6355-1AA50-1DN1**
• Premium Protocol (Connectivity) UPG	**6AV6355-1CA50-1DN1**
• Premium Protocol (Connectivity) SUS	**6AV6355-1DA00-0DN1**
• Premium Protocol (Connectivity) SMS	**6AV6355-1FA00-0DN1**
• Premium Protocol (Connectivity) POS	**6AV6355-1GA00-0DN1**
WinCC OA – BACnet objects V3.21	
Dedicated PowerTags for use with the BACnet driver	
• BACnet objects 200	**6AV6355-1AA50-1DL1**
• BACnet objects 200 UPG	**6AV6355-1CA50-1DL1**
• BACnet objects 500	**6AV6355-1AA50-1DL2**
• BACnet objects 500 UPG	**6AV6355-1CA50-1DL2**
• BACnet objects 1k	**6AV6355-1AA50-1DL3**
• BACnet objects 1k UPG	**6AV6355-1CA50-1DL3**
• BACnet objects 3k	**6AV6355-1AA50-1DL4**
• BACnet objects 3k UPG	**6AV6355-1CA50-1DL4**
• BACnet objects 5k	**6AV6355-1AA50-1DL5**
• BACnet objects 5k UPG	**6AV6355-1CA50-1DL5**
• BACnet objects 30k	**6AV6355-1AA50-1DL6**
• BACnet objects 30k UPG	**6AV6355-1CA50-1DL6**
• BACnet objects unlimited	**6AV6355-1AA50-1DL7**
• BACnet objects unlimited UPG	**6AV6355-1CA50-1DL7**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – BACnetpacks V3.21	
For the step-by-step increase of BACnet objects	
• BACnetpack 200-500	**6AV6355-1AA50-1DM0**
• BACnetpack 200-500 UPG	**6AV6355-1CA50-1DM0**
• BACnetpack 500-1k	**6AV6355-1AA50-1DM1**
• BACnetpack 500-1k UPG	**6AV6355-1CA50-1DM1**
• BACnetpack 1k-3k	**6AV6355-1AA50-1DM2**
• BACnetpack 1k-3k UPG	**6AV6355-1CA50-1DM2**
• BACnetpack 3k-5k	**6AV6355-1AA50-1DM3**
• BACnetpack 3k-5k UPG	**6AV6355-1CA50-1DM3**
• BACnetpack 5k-30k	**6AV6355-1AA50-1DM4**
• BACnetpack 5k-30k UPG	**6AV6355-1CA50-1DM4**
• BACnetpack 30k-UL	**6AV6355-1AA50-1DM5**
• BACnetpack 30k-UL UPG	**6AV6355-1CA50-1DM5**
V3.20	
WinCC OA – Driver S7 V3.20	
Unlimited connection of S7-3x8x and S7-4xx, limited connection of S7-12xx and S7-15xx (options for max 64, 512)	
• Driver S7 64	**6AV6355-1AA50-0DA1**
• Driver S7 64 UPG	**6AV6355-1CA50-0DA1**
• Driver S7 512	**6AV6355-1AA50-0DA2**
• Driver S7 512 UPG	**6AV6355-1CA50-0DA2**
WinCC OA Standard Protocol (Connectivity) V3.20	
• Standard Protocol (Connectivity)	**6AV6355-1AA50-0DN0**
• Standard Protocol (Connectivity) UPG	**6AV6355-1CA50-0DN0**
• Standard Protocol (Connectivity) SUS	**6AV6355-1DA00-0DN0**
• Standard Protocol (Connectivity) SMS	**6AV6355-1FA00-0DN0**
• Standard Protocol (Connectivity) POS	**6AV6355-1GA00-0DN0**
WinCC OA – Premium Protocol (Connectivity) V3.20	
• Premium Protocol (Connectivity)	**6AV6355-1AA50-0DN1**
• Premium Protocol (Connectivity) UPG	**6AV6355-1CA50-0DN1**
• Premium Protocol (Connectivity) SUS	**6AV6355-1DA00-0DN1**
• Premium Protocol (Connectivity) SMS	**6AV6355-1FA00-0DN1**
• Premium Protocol (Connectivity) POS	**6AV6355-1GA00-0DN1**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – BACnet objects V3.20	
Dedicated PowerTags for use with the BACnet driver	
• BACnet objects 200	**6AV6355-1AA50-0DL1**
• BACnet objects 200 UPG	**6AV6355-1CA50-0DL1**
• BACnet objects 500	**6AV6355-1AA50-0DL2**
• BACnet objects 500 UPG	**6AV6355-1CA50-0DL2**
• BACnet objects 1k	**6AV6355-1AA50-0DL3**
• BACnet objects 1k UPG	**6AV6355-1CA50-0DL3**
• BACnet objects 3k	**6AV6355-1AA50-0DL4**
• BACnet objects 3k UPG	**6AV6355-1CA50-0DL4**
• BACnet objects 5k	**6AV6355-1AA50-0DL5**
• BACnet objects 5k UPG	**6AV6355-1CA50-0DL5**
• BACnet objects 30k	**6AV6355-1AA50-0DL6**
• BACnet objects 30k UPG	**6AV6355-1CA50-0DL6**
• BACnet objects unlimited	**6AV6355-1AA50-0DL7**
• BACnet objects unlimited UPG	**6AV6355-1CA50-0DL7**
WinCC OA – BACnetpacks V3.20	
For the step-by-step increase of BACnet objects	
• BACnetpack 200-500	**6AV6355-1AA50-0DM0**
• BACnetpack 200-500 UPG	**6AV6355-1CA50-0DM0**
• BACnetpack 500-1k	**6AV6355-1AA50-0DM1**
• BACnetpack 500-1k UPG	**6AV6355-1CA50-0DM1**
• BACnetpack 1k-3k	**6AV6355-1AA50-0DM2**
• BACnetpack 1k-3k UPG	**6AV6355-1CA50-0DM2**
• BACnetpack 3k-5k	**6AV6355-1AA50-0DM3**
• BACnetpack 3k-5k UPG	**6AV6355-1CA50-0DM3**
• BACnetpack 5k-30k	**6AV6355-1AA50-0DM4**
• BACnetpack 5k-30k UPG	**6AV6355-1CA50-0DM4**
• BACnetpack 30k-UL	**6AV6355-1AA50-0DM5**
• BACnetpack 30k-UL UPG	**6AV6355-1CA50-0DM5**
V3.19	
WinCC OA – Driver S7 V3.19	
Unlimited connection of S7-3x8x and S7-4xx, limited connection of S7-12xx and S7-15xx (options for max 64, 512)	
• Driver S7 64	**6AV6355-1AA47-7DA1**
• Driver S7 64 UPG	**6AV6355-1CA47-7DA1**
• Driver S7 512	**6AV6355-1AA47-7DA2**
• Driver S7 512 UPG	**6AV6355-1CA47-7DA2**
WinCC OA – BACnet V3.19	
Use of BACnet drivers, diagnostics, BACnet engineering environment (BACnet object library (incl. faceplates), BACnet browser, EDE tool, EDE file interface)	
• BACnet	**6AV6355-1AA47-7EB0**
• BACnet UPG	**6AV6355-1CA47-7EB0**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – BACnet objects V3.19	
Dedicated PowerTags for use with the BACnet driver.	
• BACnet objects 200	**6AV6355-1AA47-7DL1**
• BACnet objects 200 UPG	**6AV6355-1CA47-7DL1**
• BACnet objects 500	**6AV6355-1AA47-7DL2**
• BACnet objects 500 UPG	**6AV6355-1CA47-7DL2**
• BACnet objects 1k	**6AV6355-1AA47-7DL3**
• BACnet objects 1k UPG	**6AV6355-1CA47-7DL3**
• BACnet objects 3k	**6AV6355-1AA47-7DL4**
• BACnet objects 3k UPG	**6AV6355-1CA47-7DL4**
• BACnet objects 5k	**6AV6355-1AA47-7DL5**
• BACnet objects 5k UPG	**6AV6355-1CA47-7DL5**
• BACnet objects 30k	**6AV6355-1AA47-7DL6**
• BACnet objects 30k UPG	**6AV6355-1CA47-7DL6**
• BACnet objects unlimited	**6AV6355-1AA47-7DL7**
• BACnet objects unlimited UPG	**6AV6355-1CA47-7DL7**
WinCC OA – BACnetpacks V3.19	
For the step-by-step increase of BACnet objects	
• BACnetpack 200/500	**6AV6355-1AA47-7DM0**
• BACnetpack 200/500 UPG	**6AV6355-1CA47-7DM0**
• BACnetpack 500/1k	**6AV6355-1AA47-7DM1**
• BACnetpack 500/1k UPG	**6AV6355-1CA47-7DM1**
• BACnetpack 1k/3k	**6AV6355-1AA47-7DM2**
• BACnetpack 1k/3k UPG	**6AV6355-1CA47-7DM2**
• BACnetpack 3k/5k	**6AV6355-1AA47-7DM3**
• BACnetpack 3k/5k UPG	**6AV6355-1CA47-7DM3**
• BACnetpack 5k/30k	**6AV6355-1AA47-7DM4**
• BACnetpack 5k/30k UPG	**6AV6355-1CA47-7DM4**
• BACnetpack 30k/UL	**6AV6355-1AA47-7DM5**
• BACnetpack 30k/UL UPG	**6AV6355-1CA47-7DM5**
WinCC OA – Driver DNP3 V3.19	
Connection of WinCC OA Server with devices via DNP3 protocol.	
• Driver DNP3	**6AV6355-1AA47-7DB2**
• Driver DNP3 UPG	**6AV6355-1CA47-7DB2**
WinCC OA – Driver IEC 101 V3.19	
Serial driver according to IEC 60870-5-101	
• Driver IEC 101	**6AV6355-1AA47-7DC0**
• Driver IEC 101 UPG	**6AV6355-1CA47-7DC0**
WinCC OA – Driver IEC 104 V3.19	
TCP/IP drivers according to IEC 60870-5-104	
• Driver IEC 104	**6AV6355-1AA47-7DC1**
• Driver IEC 104 UPG	**6AV6355-1CA47-7DC1**
WinCC OA – Driver IEC 61850/61400 V3.19	
Medium- and high-voltage technology drivers according to IEC 61850. Consists of IEC 61850 driver and IEC 61850/61400 browser	
• Driver IEC 61850/61400	**6AV6355-1AA47-7DC2**
• Driver IEC 61850/61400 UPG	**6AV6355-1CA47-7DC2**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Driver SAIA-S-Bus V3.19	
Serial driver for native SAIA S-Bus support	
• Driver SAIA S-Bus	**6AV6355-1AA47-7DC3**
• Driver SAIA S-Bus UPG	**6AV6355-1CA47-7DC3**
WinCC OA – Driver TLS V3.19	
TLS gateway for setting up traffic control systems in Austria.	
• Driver TLS	**6AV6355-1AA47-7DC4**
• Driver TLS UPG	**6AV6355-1CA47-7DC4**
WinCC OA – Driver SSI V3.1	
Synchronous Serial Interface, driver for Ethernet communication via satellite telecontrol components.	
• Driver SSI	**6AV6355-1AA47-7DC5**
• Driver SSI UPG	**6AV6355-1CA47-7DC5**
WinCC OA – Driver Modbus V3.19	
Driver for the Modbus TCP standard (as part of IEC 61158)	
• Driver Modbus	**6AV6355-1AA47-7DD0**
• Driver Modbus UPG	**6AV6355-1CA47-7DD0**
WinCC OA – Driver RK512 V3.19	
Serial driver for connecting to internal memory of SIEMENS S5 via RK512 protocol	
• Driver RK512	**6AV6355-1AA47-7DE0**
• Driver RK512 UPG	**6AV6355-1CA47-7DE0**
WinCC OA – Driver SINAUT V3.19	
Slemens Network AUTomation for connection via SINAUT protocol.	
• Driver SINAUT	**6AV6355-1AA47-7DF2**
• Driver SINAUT UPG	**6AV6355-1CA47-7DF2**
WinCC OA – Driver SNMP V3.19	
Simple Network Management Protocol driver for network monitoring. Supports SNMP up to version V3	
• Driver SNMP	**6AV6355-1AA47-7DG0**
• Driver SNMP UPG	**6AV6355-1CA47-7DG0**
WinCC OA – Driver Cerberus V3.19	
For coupling with Siemens fire alarm system DMS7000/Cerberus.	
• Driver Cerberus	**6AV6355-1AA47-7DH0**
• Driver Cerberus UPG	**6AV6355-1CA47-7DH0**
WinCC OA – Driver EIP V3.19	
Ethernet/IP driver for the connection of external PLCs (e.g. Allen Bradley, etc.)	
• Driver EIP	**6AV6355-1AA47-7DJ0**
• Driver EIP UPG	**6AV6355-1CA47-7DJ0**
WinCC OA – Driver MQTT Client V3.19	
Coupling of WinCC OA Server with an MQTT Broker (not included)	
• Driver MQTT Client	**6AV6355-1AA47-7DK2**
• Driver MQTT Client UPG	**6AV6355-1CA47-7DK2**
WinCC OA – Driver NTCIP V3.19	
NTCIP 1203 Standard for communication with variable message signs	
• Driver NTCIP	**6AV6355-1AA47-7DC6**
• Driver NTCIP UPG	**6AV6355-1CA47-7DC6**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
Software Services - version-independent	
WinCC OA – Driver S7	
• Driver S7 64 SUS	**6AV6355-1DA00-0DA1**
• Driver S7 64 SMS	**6AV6355-1FA00-0DA1**
• Driver S7 64 POS	**6AV6355-1GA00-0DA1**
• Driver S7 512 SUS	**6AV6355-1DA00-0DA2**
• Driver S7 512 SMS	**6AV6355-1FA00-0DA2**
• Driver S7 512 POS	**6AV6355-1GA00-0DA2**
WinCC OA – BACnet	
• BACnet SUS	**6AV6355-1DA00-0EB0**
• BACnet SMS	**6AV6355-1FA00-0EB0**
• BACnet POS	**6AV6355-1GA00-0EB0**
WinCC OA – BACnet objects	
• BACnet objects 200 SUS	**6AV6355-1DA00-0DL1**
• BACnet objects 200 SMS	**6AV6355-1FA00-0DL1**
• BACnet objects 200 POS	**6AV6355-1GA00-0DL1**
• BACnet objects 500 SUS	**6AV6355-1DA00-0DL2**
• BACnet objects 500 SMS	**6AV6355-1FA00-0DL2**
• BACnet objects 500 POS	**6AV6355-1GA00-0DL2**
• BACnet objects 1k SUS	**6AV6355-1DA00-0DL3**
• BACnet objects 1k SMS	**6AV6355-1FA00-0DL3**
• BACnet objects 1k POS	**6AV6355-1GA00-0DL3**
• BACnet objects 3k SUS	**6AV6355-1DA00-0DL4**
• BACnet objects 3k SMS	**6AV6355-1FA00-0DL4**
• BACnet objects 3k POS	**6AV6355-1GA00-0DL4**
• BACnet objects 5k SUS	**6AV6355-1DA00-0DL5**
• BACnet objects 5k SMS	**6AV6355-1FA00-0DL5**
• BACnet objects 5k POS	**6AV6355-1GA00-0DL5**
• BACnet objects 30k SUS	**6AV6355-1DA00-0DL6**
• BACnet objects 30k SMS	**6AV6355-1FA00-0DL6**
• BACnet objects 30k POS	**6AV6355-1GA00-0DL6**
• BACnet objects unlimited SUS	**6AV6355-1DA00-0DL7**
• BACnet objects unlimited SMS	**6AV6355-1FA00-0DL7**
• BACnet objects unlimited POS	**6AV6355-1GA00-0DL7**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – BACnetpacks	
• BACnetpack 200/500 SUS	**6AV6355-1DA00-0DM0**
• BACnetpack 200/500 SMS	**6AV6355-1FA00-0DM0**
• BACnetpack 200/500 POS	**6AV6355-1GA00-0DM0**
• BACnetpack 500/1k SUS	**6AV6355-1DA00-0DM1**
• BACnetpack 500/1k SMS	**6AV6355-1FA00-0DM1**
• BACnetpack 500/1k POS	**6AV6355-1GA00-0DM1**
• BACnetpack 1k/3k SUS	**6AV6355-1DA00-0DM2**
• BACnetpack 1k/3k SMS	**6AV6355-1FA00-0DM2**
• BACnetpack 1k/3k POS	**6AV6355-1GA00-0DM2**
• BACnetpack 3k/5k SUS	**6AV6355-1DA00-0DM3**
• BACnetpack 3k/5k SMS	**6AV6355-1FA00-0DM3**
• BACnetpack 3k/5k POS	**6AV6355-1GA00-0DM3**
• BACnetpack 5k/30k SUS	**6AV6355-1DA00-0DM4**
• BACnetpack 5k/30k SMS	**6AV6355-1FA00-0DM4**
• BACnetpack 5k/30k POS	**6AV6355-1GA00-0DM4**
• BACnetpack 30k/UL SUS	**6AV6355-1DA00-0DM5**
• BACnetpack 30k/UL SMS	**6AV6355-1FA00-0DM5**
• BACnetpack 30k/UL POS	**6AV6355-1GA00-0DM5**
WinCC OA – Driver DNP3	
• Driver DNP3 SUS	**6AV6355-1DA00-0DB2**
• Driver DNP3 SMS	**6AV6355-1FA00-0DB2**
• Driver DNP3 POS	**6AV6355-1GA00-0DB2**
• Driver DNP3 100 SUS	**6AV6355-1DA00-0DB0**
• Driver DNP3 100 SMS	**6AV6355-1FA00-0DB0**
• Driver DNP3 100 POS	**6AV6355-1GA00-0DB0**
• Driver DNP3 1000 SUS	**6AV6355-1DA00-0DB1**
• Driver DNP3 1000 SMS	**6AV6355-1FA00-0DB1**
• Driver DNP3 1000 POS	**6AV6355-1GA00-0DB1**
WinCC OA – Driver IEC 101	
• Driver IEC 101 SUS	**6AV6355-1DA00-0DC0**
• Driver IEC 101 SMS	**6AV6355-1FA00-0DC0**
• Driver IEC 101 POS	**6AV6355-1GA00-0DC0**
WinCC OA – Driver IEC 104	
• Driver IEC 104 SUS	**6AV6355-1DA00-0DC1**
• Driver IEC 104 SMS	**6AV6355-1FA00-0DC1**
• Driver IEC 104 POS	**6AV6355-1GA00-0DC1**
WinCC OA – Driver IEC 61850/61400	
• Driver IEC 61850/61400 SUS	**6AV6355-1DA00-0DC2**
• Driver IEC 61850/61400 SMS	**6AV6355-1FA00-0DC2**
• Driver IEC 61850/61400 POS	**6AV6355-1GA00-0DC2**
WinCC OA – Driver SAIA S-Bus	
• Driver SAIA S-Bus SUS	**6AV6355-1DA00-0DC3**
• Driver SAIA S-Bus SMS	**6AV6355-1FA00-0DC3**
• Driver SAIA S-Bus POS	**6AV6355-1GA00-0DC3**
WinCC OA – Driver TLS	
• Driver TLS SUS	**6AV6355-1DA00-0DC4**
• Driver TLS SMS	**6AV6355-1FA00-0DC4**
• Driver TLS POS	**6AV6355-1GA00-0DC4**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Driver SSI	
• Driver SSI SUS	**6AV6355-1DA00-0DC5**
• Driver SSI SMS	**6AV6355-1FA00-0DC5**
• Driver SSI POS	**6AV6355-1GA00-0DC5**
WinCC OA – Driver Modbus	
• Driver Modbus SUS	**6AV6355-1DA00-0DD0**
• Driver Modbus SMS	**6AV6355-1FA00-0DD0**
• Driver Modbus POS	**6AV6355-1GA00-0DD0**
WinCC OA – Driver RK512	
• Driver RK512 SUS	**6AV6355-1DA00-0DE0**
• Driver RK512 SMS	**6AV6355-1FA00-0DE0**
• Driver RK512 POS	**6AV6355-1GA00-0DE0**
WinCC OA – Driver SINAUT	
• Driver SINAUT SUS	**6AV6355-1DA00-0DF2**
• Driver SINAUT SMS	**6AV6355-1FA00-0DF2**
• Driver SINAUT POS	**6AV6355-1GA00-0DF2**
• Driver SINAUT 50 SUS	**6AV6355-1DA00-0DF0**
• Driver SINAUT 50 SMS	**6AV6355-1FA00-0DF0**
• Driver SINAUT 50 POS	**6AV6355-1GA00-0DF0**
• Driver SINAUT 250 SUS	**6AV6355-1DA00-0DF1**
• Driver SINAUT 250 SMS	**6AV6355-1FA00-0DF1**
• Driver SINAUT 250 POS	**6AV6355-1GA00-0DF1**
WinCC OA – Driver SNMP	
• Driver SNMP SUS	**6AV6355-1DA00-0DG0**
• Driver SNMP SMS	**6AV6355-1FA00-0DG0**
• Driver SNMP POS	**6AV6355-1GA00-0DG0**
WinCC OA – Driver Cerberus	
• Driver Cerberus SUS	**6AV6355-1DA00-0DH0**
• Driver Cerberus SMS	**6AV6355-1FA00-0DH0**
• Driver Cerberus POS	**6AV6355-1GA00-0DH0**
WinCC OA – Driver EIP	
• Driver EIP SUS	**6AV6355-1DA00-0DJ0**
• Driver EIP SMS	**6AV6355-1FA00-0DJ0**
• Driver EIP POS	**6AV6355-1GA00-0DJ0**
WinCC OA – Driver MQTT Client	
• Driver MQTT Client SUS	**6AV6355-1DA00-0DK2**
• Driver MQTT Client SMS	**6AV6355-1FA00-0DK2**
• Driver MQTT Client POS	**6AV6355-1GA00-0DK2**
WinCC OA NTCIP	
• Driver NTCIP SUS	**6AV6355-1DA00-0DC6**
• Driver NTCIP SMS	**6AV6355-1FA00-0DC6**
• Driver NTCIP POS	**6AV6355-1GA00-0DC6**

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Overview

The WinCC Open Architecture (WinCC OA) Basic Software forms the core for many modular extensions.

These functional extensions are available in the form of WinCC Open Architecture Add-ons.

As of WinCC OA version 3.20, basic modules are covered by the WinCC OA Server Basic package (Maintenance, Recipes, Scheduler).

- RDB, DB Logger, NGA, CommCenter, Custom Component, Dist System, Redundancy, Disaster Recovery System (DRS), Secure Map, Report, OPC UP Server, Insights hub, Modbus server, Web Server
- SmartSCADA
  - SmartSCADA Toolbox
  - SmartSCADA KPI Extension
  - SmartSCADA Analytics
- Video
  - Video Light
  - Video Basic
  - Video Display
  - Video Sources
  - Video Workstation

Selection and ordering data

SIMATIC WinCC Open Architecture	
V3.19	
WinCC OA – RDB V3.19 For connecting the Oracle database to WinCC OA Server (Oracle licenses not included).	
• RDB	**6AV6355-1AA47-7EA0**
• RDB UPG	**6AV6355-1CA47-7EA0**
WinCC OA – DB Logger V3.19 Allows export of data from WinCC OA to external databases.	
• DB Logger	**6AV6355-1AA47-7EA1**
• DB Logger UPG	**6AV6355-1CA47-7EA1**
WinCC OA – NGA Standard V3.19 Enables the use of the Next Generation Archiver in projects with up to 150,000 PowerTags	
• NGA Standard	**6AV6355-1AA47-7EA2**
• NGA Standard UPG	**6AV6355-1CA47-7EA2**
WinCC OA – NGA Premium V3.19 Enables the use of the Next Generation Archiver in large projects with more than 150,000 PowerTags	
• NGA Premium	**6AV6355-1AA47-7EA3**
• NGA Premium UPG	**6AV6355-1CA47-7EA3**
WinCC OA – NGA backend connection V3.19 Connection of another freely selectable backend for the NGA	
• NGA backend connection	**6AV6355-1AA47-7EA4**
• NGA backend connection UPG	**6AV6355-1CA47-7EA4**
WinCC OA – CommCenter 1 V3.19 Remote alarming basic package 25 alarms. Output as SMS or email possible.	
• CommCenter 1	**6AV6355-1AA47-7EC0**
• CommCenter 1 UPG	**6AV6355-1CA47-7EC0**
WinCC OA – CommCenter 2 V3.19 Remote alarming basic package 250 alarms. Output as SMS or email possible.	
• CommCenter 2	**6AV6355-1AA47-7EC1**
• CommCenter 2 UPG	**6AV6355-1CA47-7EC1**
WinCC OA – CommCenter 3 V3.19 Remote alarming basic package 2500 alarms. Output as SMS or email possible.	
• CommCenter 3	**6AV6355-1AA47-7EC2**
• CommCenter 3 UPG	**6AV6355-1CA47-7EC2**
WinCC OA – CommCenter 4 V3.19 Remote alarming basic package unlimited alarms. Output as SMS or email possible.	
• CommCenter 4	**6AV6355-1AA47-7EC3**
• CommCenter 4 UPG	**6AV6355-1CA47-7EC3**
WinCC OA – Custom Component V3.19 Integration of a customer-specific manager, driver, script or graphic extension.	
• Custom Comp	**6AV6355-1AA47-7ED2**
• Custom Comp UPG	**6AV6355-1CA47-7ED2**
WinCC OA – Custom Component REDU V3.19 Integration of a customer-specific manager, driver, script or graphic extension for REDU system.	
• Custom Comp REDU	**6AV6355-1AA47-7ED3**
• Custom Comp REDU UPG	**6AV6355-1CA47-7ED3**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Dist System V3.19	
Extends a WinCC OA Server with the Multiserver option (up to 2048 servers).	
• Dist System	**6AV6355-1AA47-7EE0**
• Dist System UPG	**6AV6355-1CA47-7EE0**
WinCC OA – Redundancy V3.19	
High availability with bumpless switchover. Both servers need a license in REDU systems.	
• Redundancy	**6AV6355-1AA47-7EF0**
• Redundancy UPG	**6AV6355-1CA47-7EF0**
WinCC OA – DRS V3.19	
Disaster Recovery System, remote Backup Control Center. 2 redundant systems (4 servers in total).	
• DRS	**6AV6355-1AA47-7EF1**
• DRS UPG	**6AV6355-1CA47-7EF1**
WinCC OA – Secure V3.19	
Extended protection with Kerberos. Increases IT security level by using ticket-based authentication.	
• Secure	**6AV6355-1AA47-7EG0**
• Secure UPG	**6AV6355-1CA47-7EG0**
WinCC OA – Map V3.19	
Display of maps in WinCC OA. Open Street Map as well as own map material are supported.	
• Map	**6AV6355-1AA47-7EH5**
• Map UPG	**6AV6355-1CA47-7EH5**
WinCC OA – Maintenance V3.19	
Simple maintenance management. Operating hours, switching cycles, message handling and notepad function.	
• Maintenance	**6AV6355-1AA47-7EJ0**
• Maintenance UPG	**6AV6355-1CA47-7EJ0**
WinCC OA – OPC UA Server V3.19	
OPC Foundation-compliant server for WinCC OA Server allows OPC UA Clients to query data.	
• OPC UA Server	**6AV6355-1AA47-7EK0**
• OPC UA Server UPG	**6AV6355-1CA47-7EK0**
WinCC OA – MindSphere V3.19	
Enables connection of WinCC OA Server to MindSphere. Requires operation of a valid MindSphere Tenant.	
• MindSphere	**6AV6355-1AA47-7EK1**
• MindSphere UPG	**6AV6355-1CA47-7EK1**
WinCC OA – Modbus Server V3.19	
Enables data of a WinCC OA System to be queried by Modbus/TCP clients.	
• Modbus Server	**6AV6355-1AA47-7EK2**
• Modbus Server UPG	**6AV6355-1CA47-7EK2**
WinCC OA – Recipe V3.19	
Creation of any recipe types and instances, transfer of the current process values as recipe.	
• Recipe	**6AV6355-1AA47-7EL0**
• Recipe UPG	**6AV6355-1CA47-7EL0**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Report V3.19	
Defined number of reporting clients for evaluation of WinCC OA data using a third-party tool	
• 1 Reporting Client	**6AV6355-1AA47-7EM0**
• 1 Reporting Client UPG	**6AV6355-1CA47-7EM0**
• 2 Reporting Clients	**6AV6355-1AA47-7EM1**
• 2 Reporting Clients UPG	**6AV6355-1CA47-7EM1**
• 5 Reporting Clients	**6AV6355-1AA47-7EM2**
• 5 Reporting Clients UPG	**6AV6355-1CA47-7EM2**
• 10 Reporting Clients	**6AV6355-1AA47-7EM3**
• 10 Reporting Clients UPG	**6AV6355-1CA47-7EM3**
WinCC OA – Report REDU V3.19	
Defined number of reporting clients for evaluation of WinCC OA data using a third-party tool for REDU systems.	
• 1 Reporting Client REDU	**6AV6355-1AA47-7EM5**
• 1 Reporting Client REDU UPG	**6AV6355-1CA47-7EM5**
• 2 Reporting Clients REDU	**6AV6355-1AA47-7EM6**
• 2 Reporting Clients REDU UPG	**6AV6355-1CA47-7EM6**
• 5 Reporting Clients REDU	**6AV6355-1AA47-7EM7**
• 5 Reporting Clients REDU UPG	**6AV6355-1CA47-7EM7**
• 10 Reporting Clients REDU	**6AV6355-1AA47-7EM8**
• 10 Reporting Clients REDU UPG	**6AV6355-1CA47-7EM8**
WinCC OA – Scheduler V3.19	
Scheduling of daily, weekly and monthly programs, non-periodic events, priority assignment, override function.	
• Scheduler	**6AV6355-1AA47-7EN0**
• Scheduler UPG	**6AV6355-1CA47-7EN0**
WinCC OA – SmartSCADA Toolbox V3.19	
Allows creation of key figure definitions and instances via formula editor or CONTROL. Contains 20 KPI instances.	
• SmartSCADA Toolbox	**6AV6355-1AA47-7EP0**
• SmartSCADA Toolbox UPG	**6AV6355-1CA47-7EP0**
WinCC OA – SmartSCADA KPI Ext. V3.19	
Extends Toolbox by 100 KPI instances	
• SmartSCADA KPI Ext.	**6AV6355-1AA47-7EP1**
• SmartSCADA KPI Ext. UPG	**6AV6355-1CA47-7EP1**
WinCC OA – SmartSCADA Analytics V3.19	
Time-limited license (1 year) for data analysis and learning of statistical models. Contains statistical toolbox "R".	
• SmartSCADA Analytics	**6AV6355-1AA47-7EP2**
• SmartSCADA Analytics UPG	**6AV6355-1CA47-7EP2**
WinCC OA – Video Light V3.19	
Allows connection of 4 cameras/sources and an external video display. Cannot be extended.	
• Video Light	**6AV6355-1AA47-7EQ0**
• Video Light UPG	**6AV6355-1CA47-7EQ0**
WinCC OA – Video Basic V3.19	
Enables native connection (ONVIF) of cameras/sources to a WinCC OA System. Includes all streaming, recording and playback functions.	
Video Basic	**6AV6355-1AA47-7EQ1**
• Video Basic UPG	**6AV6355-1CA47-7EQ1**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Video Basic REDU V3.19	
Enables native connection (ONVIF) of cameras/sources to a redundant WinCC OA System. Includes all streaming, recording and playback functions.	
• Video Basic REDU	**6AV6355-1AA47-7EU0**
• Video Basic REDU UPG	**6AV6355-1CA47-7EU0**
WinCC OA – Video Display V3.19	
Extends the Video Basic system by an external display. A Video Display license is included in the basic package.	
• Video Display	**6AV6355-1AA47-7EQ2**
• Video Display UPG	**6AV6355-1CA47-7EQ2**
WinCC OA – Video Display REDU V3.19	
Extends Video Basic in a REDU system by an external display. A Video Display license is included in the basic package.	
• Video Display REDU	**6AV6355-1AA47-7EU1**
• Video Display REDU UPG	**6AV6355-1CA47-7EU1**
WinCC OA – Video Display DIST V3.19	
Extends Video Basic in a DIST system by an external display.	
• Video Display DIST	**6AV6355-1AA47-7EQ3**
• Video Display DIST UPG	**6AV6355-1CA47-7EQ3**
WinCC OA – Video Cameras V3.19	
Extends Video Basic by a defined number of sources/cameras.	
• 1 Extension	**6AV6355-1AA47-7ER0**
• 1 Extension UPG	**6AV6355-1CA47-7ER0**
• 10 Extensions	**6AV6355-1AA47-7ER1**
• 10 Extensions UPG	**6AV6355-1CA47-7ER1**
• 25 Extensions	**6AV6355-1AA47-7ER2**
• 25 Extensions UPG	**6AV6355-1CA47-7ER2**
• 50 Extensions	**6AV6355-1AA47-7ER3**
• 50 Extensions UPG	**6AV6355-1CA47-7ER3**
• 100 Extensions	**6AV6355-1AA47-7ER4**
• 100 Extensions UPG	**6AV6355-1CA47-7ER4**
• 250 Extensions	**6AV6355-1AA47-7ER5**
• 250 Extensions UPG	**6AV6355-1CA47-7ER5**
• 500 Extensions	**6AV6355-1AA47-7ER6**
• 500 Extensions UPG	**6AV6355-1CA47-7ER6**
WinCC OA – Video Workstation V3.19	
Connection of an additional workstation for pure display/research of video data	
• Video Workstation	**6AV6355-1AA47-7EQ4**
• Video Workstation UPG	**6AV6355-1CA47-7EQ4**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Video Cameras REDU V3.19	
Extends Video Basic in a REDU system by a defined number of sources/cameras.	
• 1 Extension REDU	**6AV6355-1AA47-7ES0**
• 1 Extension REDU UPG	**6AV6355-1CA47-7ES0**
• 10 Extensions REDU	**6AV6355-1AA47-7ES1**
• 10 Extensions REDU UPG	**6AV6355-1CA47-7ES1**
• 25 Extensions REDU	**6AV6355-1AA47-7ES2**
• 25 Extensions REDU UPG	**6AV6355-1CA47-7ES2**
• 50 Extensions REDU	**6AV6355-1AA47-7ES3**
• 50 Extensions REDU UPG	**6AV6355-1CA47-7ES3**
• 100 Extensions REDU	**6AV6355-1AA47-7ES4**
• 100 Extensions REDU UPG	**6AV6355-1CA47-7ES4**
• 250 Extensions REDU	**6AV6355-1AA47-7ES5**
• 250 Extensions REDU UPG	**6AV6355-1CA47-7ES5**
• 500 Extensions REDU	**6AV6355-1AA47-7ES6**
• 500 Extensions REDU UPG	**6AV6355-1CA47-7ES6**
WinCC OA – Load Balancing V3.19	
Enables load balancing of connections between WinCC OA Servers and ULC UX	
• Load Balancing	**6AV6355-1AA47-7ET1**
• Load Balancing UPG	**6AV6355-1CA47-7ET1**
WinCC OA – WebSocket Connection V3.19	
Enables management of connections between WinCC OA Servers and WinCC OA ULC UX clients.	
• WebSocket Connection	**6AV6355-1AA47-7ET2**
• WebSocket Connection UPG	**6AV6355-1CA47-7ET2**

SIMATIC WinCC Open Architecture	
V3.18	
WinCC OA – RDB V3.18	
For connecting the Oracle database to WinCC OA Server (Oracle licenses not included).	
• RDB	**6AV6355-1AA31-8EA0**
• RDB UPG	**6AV6355-1CA31-8EA0**
WinCC OA – DB Logger V3.18	
Allows export of data from WinCC OA to external databases.	
• DB Logger	**6AV6355-1AA31-8EA1**
• DB Logger UPG	**6AV6355-1CA31-8EA1**
WinCC OA – NGA Standard V3.18	
Enables the use of the Next Generation Archiver in projects with up to 150,000 PowerTags	
• NGA Standard	**6AV6355-1AA31-8EA2**
• NGA Standard UPG	**6AV6355-1CA31-8EA2**
WinCC OA – NGA Premium V3.18	
Enables the use of the Next Generation Archiver in large projects with more than 150,000 PowerTags	
• NGA Premium	**6AV6355-1AA31-8EA3**
• NGA Premium UPG	**6AV6355-1CA31-8EA3**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – NGA backend connection V3.18	
Connection of another freely selectable backend for the NGA	
• NGA backend connection	**6AV6355-1AA31-8EA4**
• NGA backend connection UPG	**6AV6355-1CA31-8EA4**
WinCC OA – CommCenter 1 V3.18	
Remote alarming basic package 25 alarms. Output as SMS or email possible.	
• CommCenter 1	**6AV6355-1AA31-8EC0**
• CommCenter 1 UPG	**6AV6355-1CA31-8EC0**
WinCC OA – CommCenter 2 V3.18	
Remote alarming basic package 250 alarms. Output as SMS or email possible.	
• CommCenter 2	**6AV6355-1AA31-8EC1**
• CommCenter 2 UPG	**6AV6355-1CA31-8EC1**
WinCC OA – CommCenter 3 V3.18	
Remote alarming basic package 2500 alarms. Output as SMS or email possible.	
• CommCenter 3	**6AV6355-1AA31-8EC2**
• CommCenter 3 UPG	**6AV6355-1CA31-8EC2**
WinCC OA – CommCenter 4 V3.18	
Remote alarming basic package unlimited alarms. Output as SMS or email possible.	
• CommCenter 4	**6AV6355-1AA31-8EC3**
• CommCenter 4 UPG	**6AV6355-1CA31-8EC3**
WinCC OA – Custom Component V3.18	
Integration of a customer-specific manager, driver, script or graphic extension.	
• Custom Comp	**6AV6355-1AA31-8ED2**
• Custom Comp UPG	**6AV6355-1CA31-8ED2**
WinCC OA – Custom Component REDU V3.18	
Integration of a customer-specific manager, driver, script or graphic extension for REDU system.	
• Custom Comp REDU	**6AV6355-1AA31-8ED3**
• Custom Comp REDU UPG	**6AV6355-1CA31-8ED3**
WinCC OA – Dist System V3.18	
Extends a WinCC OA Server with the Multiserver option (up to 2048 servers).	
• Dist System	**6AV6355-1AA31-8EE0**
• Dist System UPG	**6AV6355-1CA31-8EE0**
WinCC OA – Redundancy V3.18	
High availability with bumpless switchover. Both servers need a license in REDU systems.	
• Redundancy	**6AV6355-1AA31-8EF0**
• Redundancy UPG	**6AV6355-1CA31-8EF0**
WinCC OA – DRS V3.18	
Disaster Recovery System, remote Backup Control Center. 2 redundant systems (4 servers in total).	
• DRS	**6AV6355-1AA31-8EF1**
• DRS UPG	**6AV6355-1CA31-8EF1**
WinCC OA – Secure V3.18	
Extended protection with Kerberos. Increases IT security level by using ticket-based authentication.	
• Secure	**6AV6355-1AA31-8EG0**
• Secure UPG	**6AV6355-1CA31-8EG0**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Map V3.18	
Display of maps in WinCC OA. Open Street Map as well as own map material are supported.	
• Map	**6AV6355-1AA31-8EH5**
• Map UPG	**6AV6355-1CA31-8EH5**
WinCC OA – Maintenance V3.18	
Simple maintenance management. Operating hours, switching cycles, message handling and notepad function.	
• Maintenance	**6AV6355-1AA31-8EJ0**
• Maintenance UPG	**6AV6355-1CA31-8EJ0**
WinCC OA – OPC UA Server V3.18	
OPC Foundation-compliant server for WinCC OA Server allows OPC UA Clients to query data.	
• OPC UA Server	**6AV6355-1AA31-8EK0**
• OPC UA Server UPG	**6AV6355-1CA31-8EK0**
WinCC OA – MindSphere V3.18	
Enables connection of WinCC OA Server to MindSphere. Requires operation of a valid MindSphere Tenant.	
• MindSphere	**6AV6355-1AA31-8EK1**
• MindSphere UPG	**6AV6355-1CA31-8EK1**
WinCC OA – Modbus Server V3.18	
Enables data of a WinCC OA System to be queried by Modbus/TCP clients.	
• Modbus Server	**6AV6355-1AA31-8EK2**
• Modbus Server UPG	**6AV6355-1CA31-8EK2**
WinCC OA – Recipe V3.18	
Creation of any recipe types and instances, transfer of the current process values as recipe.	
• Recipe	**6AV6355-1AA31-8EL0**
• Recipe UPG	**6AV6355-1CA31-8EL0**
WinCC OA – Report V3.18	
Defined number of reporting clients for evaluation of WinCC OA data using a third-party tool	
• 1 Reporting Client	**6AV6355-1AA31-8EM0**
• 1 Reporting Client UPG	**6AV6355-1CA31-8EM0**
• 2 Reporting Clients	**6AV6355-1AA31-8EM1**
• 2 Reporting Clients UPG	**6AV6355-1CA31-8EM1**
• 5 Reporting Clients	**6AV6355-1AA31-8EM2**
• 5 Reporting Clients UPG	**6AV6355-1CA31-8EM2**
• 10 Reporting Clients	**6AV6355-1AA31-8EM3**
• 10 Reporting Clients UPG	**6AV6355-1CA31-8EM3**
WinCC OA – Report REDU V3.18	
Defined number of reporting clients for evaluation of WinCC OA data using a third-party tool for REDU systems.	
• 1 Reporting Client REDU	**6AV6355-1AA31-8EM5**
• 1 Reporting Client REDU UPG	**6AV6355-1CA31-8EM5**
• 2 Reporting Clients REDU	**6AV6355-1AA31-8EM6**
• 2 Reporting Clients REDU UPG	**6AV6355-1CA31-8EM6**
• 5 Reporting Clients REDU	**6AV6355-1AA31-8EM7**
• 5 Reporting Clients REDU UPG	**6AV6355-1CA31-8EM7**
• 10 Reporting Clients REDU	**6AV6355-1AA31-8EM8**
• 10 Reporting Clients REDU UPG	**6AV6355-1CA31-8EM8**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Scheduler V3.18	
Scheduling of daily, weekly and monthly programs, non-periodic events, priority assignment, override function.	
• Scheduler	**6AV6355-1AA31-8EN0**
• Scheduler UPG	**6AV6355-1CA31-8EN0**
WinCC OA – SmartSCADA Toolbox V3.18	
Allows creation of key figure definitions and instances via formula editor or CONTROL. Contains 20 KPI instances.	
• SmartSCADA Toolbox	**6AV6355-1AA31-8EP0**
• SmartSCADA Toolbox UPG	**6AV6355-1CA31-8EP0**
WinCC OA – SmartSCADA KPI Ext. V3.18	
Extends Toolbox by 100 KPI instances	
• SmartSCADA KPI Ext.	**6AV6355-1AA31-8EP1**
• SmartSCADA KPI Ext. UPG	**6AV6355-1CA31-8EP1**
WinCC OA – SmartSCADA Analytics V3.18	
Time-limited license (1 year) for data analysis and learning of statistical models. Contains statistical toolbox "R".	
• SmartSCADA Analytics	**6AV6355-1AA31-8EP2**
• SmartSCADA Analytics UPG	**6AV6355-1CA31-8EP2**
WinCC OA – Video Light V3.18	
Allows connection of 4 cameras/sources and an external video display. Cannot be extended.	
• Video Light	**6AV6355-1AA31-8EQ0**
• Video Light UPG	**6AV6355-1CA31-8EQ0**
WinCC OA – Video Basic V3.18	
Enables native connection (ONVIF) of cameras/sources to a WinCC OA System. Includes all streaming, recording and playback functions.	
Video Basic	**6AV6355-1AA31-8EQ1**
• Video Basic UPG	**6AV6355-1CA31-8EQ1**
WinCC OA – Video Basic REDU V3.18	
Enables native connection (ONVIF) of cameras/sources to a redundant WinCC OA System. Includes all streaming, recording and playback functions.	
• Video Basic REDU	**6AV6355-1AA31-8EU0**
• Video Basic REDU UPG	**6AV6355-1CA31-8EU0**
WinCC OA – Video Display V3.18	
Extends the Video Basic system by an external display. A Video Display license is included in the basic package.	
• Video Display	**6AV6355-1AA31-8EQ2**
• Video Display UPG	**6AV6355-1CA31-8EQ2**
WinCC OA – Video Display REDU V3.18	
Extends Video Basic in a REDU system by an external display. A Video Display license is included in the basic package.	
• Video Display REDU	**6AV6355-1AA31-8EU1**
• Video Display REDU UPG	**6AV6355-1CA31-8EU1**
WinCC OA – Video Display DIST V3.18	
Extends Video Basic in a DIST system by an external display.	
• Video Display DIST	**6AV6355-1AA31-8EQ3**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Video Cameras V3.18	
Extends Video Basic by a defined number of sources/cameras.	
• 1 Extension	**6AV6355-1AA31-8ER0**
• 1 Extension UPG	**6AV6355-1CA31-8ER0**
• 10 Extensions	**6AV6355-1AA31-8ER1**
• 10 Extensions UPG	**6AV6355-1CA31-8ER1**
• 25 Extensions	**6AV6355-1AA31-8ER2**
• 25 Extensions UPG	**6AV6355-1CA31-8ER2**
• 50 Extensions	**6AV6355-1AA31-8ER3**
• 50 Extensions UPG	**6AV6355-1CA31-8ER3**
• 100 Extensions	**6AV6355-1AA31-8ER4**
• 100 Extensions UPG	**6AV6355-1CA31-8ER4**
• 250 Extensions	**6AV6355-1AA31-8ER5**
• 250 Extensions UPG	**6AV6355-1CA31-8ER5**
• 500 Extensions	**6AV6355-1AA31-8ER6**
• 500 Extensions UPG	**6AV6355-1CA31-8ER6**
WinCC OA – Video Workstation V3.18	
Connection of an additional workstation for pure display/research of video data	
• Video Workstation	**6AV6355-1AA31-8EQ4**
WinCC OA – Video Cameras REDU V3.18	
Extends Video Basic in a REDU system by a defined number of sources/cameras.	
• 1 Extension REDU	**6AV6355-1AA31-8ES0**
• 1 Extension REDU UPG	**6AV6355-1CA31-8ES0**
• 10 Extensions REDU	**6AV6355-1AA31-8ES1**
• 10 Extensions REDU UPG	**6AV6355-1CA31-8ES1**
• 25 Extensions REDU	**6AV6355-1AA31-8ES2**
• 25 Extensions REDU UPG	**6AV6355-1CA31-8ES2**
• 50 Extensions REDU	**6AV6355-1AA31-8ES3**
• 50 Extensions REDU UPG	**6AV6355-1CA31-8ES3**
• 100 Extensions REDU	**6AV6355-1AA31-8ES4**
• 100 Extensions REDU UPG	**6AV6355-1CA31-8ES4**
• 250 Extensions REDU	**6AV6355-1AA31-8ES5**
• 250 Extensions REDU UPG	**6AV6355-1CA31-8ES5**
• 500 Extensions REDU	**6AV6355-1AA31-8ES6**
• 500 Extensions REDU UPG	**6AV6355-1CA31-8ES6**
WinCC OA – Load Balancing V3.18	
Enables load balancing of connections between WinCC OA Servers and ULC UX	
• Load Balancing	**6AV6355-1AA31-8ET1**
• Load Balancing UPG	**6AV6355-1CA31-8ET1**
WinCC OA – WebSocket Connection V3.18	
Enables management of connections between WinCC OA Servers and WinCC OA ULC UX clients.	
• WebSocket Connection	**6AV6355-1AA31-8ET2**
• WebSocket Connection UPG	**6AV6355-1CA31-8ET2**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
Software Services - version-independent	
WinCC OA – RDB	
• RDB SUS	**6AV6355-1DA00-0EA0**
• RDB SMS	**6AV6355-1FA00-0EA0**
• RDB POS	**6AV6355-1GA00-0EA0**
WinCC OA – DB Logger	
• DB Logger SUS	**6AV6355-1DA00-0EA1**
• DB Logger SMS	**6AV6355-1FA00-0EA1**
• DB Logger POS	**6AV6355-1GA00-0EA1**
WinCC OA – NGA Standard	
• NGA Standard SUS	**6AV6355-1DA00-0EA2**
• NGA Standard SMS	**6AV6355-1FA00-0EA2**
• NGA Standard POS	**6AV6355-1GA00-0EA2**
WinCC OA – NGA Premium	
• NGA Premium SUS	**6AV6355-1DA00-0EA3**
• NGA Premium SMS	**6AV6355-1FA00-0EA3**
• NGA Premium POS	**6AV6355-1GA00-0EA3**
WinCC OA – NGA Backend Connection	
• NGA backend connection SUS	**6AV6355-1DA00-0EA4**
• NGA backend connection SMS	**6AV6355-1FA00-0EA4**
• NGA backend connection POS	**6AV6355-1GA00-0EA4**
WinCC OA – CommCenter	
• CommCenter 1 SUS	**6AV6355-1DA00-0EC0**
• CommCenter 1 SMS	**6AV6355-1FA00-0EC0**
• CommCenter 1 POS	**6AV6355-1GA00-0EC0**
WinCC OA – CommCenter 2	
• CommCenter 2 SUS	**6AV6355-1DA00-0EC1**
• CommCenter 2 SMS	**6AV6355-1FA00-0EC1**
• CommCenter 2 POS	**6AV6355-1GA00-0EC1**
WinCC OA – CommCenter 3	
• CommCenter 3 SUS	**6AV6355-1DA00-0EC2**
• CommCenter 3 SMS	**6AV6355-1FA00-0EC2**
• CommCenter 3 POS	**6AV6355-1GA00-0EC2**
WinCC OA – CommCenter 4	
• CommCenter 4 SUS	**6AV6355-1DA00-0EC3**
• CommCenter 4 SMS	**6AV6355-1FA00-0EC3**
• CommCenter 4 POS	**6AV6355-1GA00-0EC3**
WinCC OA – Custom Component	
• Custom Comp SUS	**6AV6355-1DA00-0ED2**
• Custom Comp SMS	**6AV6355-1FA00-0ED2**
• Custom Comp POS	**6AV6355-1GA00-0ED2**
WinCC OA – Custom Component REDU	
• Custom Comp REDU SUS	**6AV6355-1DA00-0ED3**
• Custom Comp REDU SMS	**6AV6355-1FA00-0ED3**
• Custom Comp REDU POS	**6AV6355-1GA00-0ED3**
WinCC OA – Dist System	
• Dist System SUS	**6AV6355-1DA00-0EE0**
• Dist System SMS	**6AV6355-1FA00-0EE0**
• Dist System POS	**6AV6355-1GA00-0EE0**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Redundancy	
• Redundancy SUS	**6AV6355-1DA00-0EF0**
• Redundancy SMS	**6AV6355-1FA00-0EF0**
• Redundancy POS	**6AV6355-1GA00-0EF0**
WinCC OA – DRS	
• DRS SUS	**6AV6355-1DA00-0EF1**
• DRS SMS	**6AV6355-1FA00-0EF1**
• DRS POS	**6AV6355-1GA00-0EF1**
WinCC OA – Secure	
• Secure SUS	**6AV6355-1DA00-0EG0**
• Secure SMS	**6AV6355-1FA00-0EG0**
• Secure POS	**6AV6355-1GA00-0EG0**
WinCC OA – Map	
• Map SUS	**6AV6355-1DA00-0EH5**
• Map SMS	**6AV6355-1FA00-0EH5**
• Map POS	**6AV6355-1GA00-0EH5**
WinCC OA – Maintenance	
• Maintenance SUS	**6AV6355-1DA00-0EJ0**
• Maintenance SMS	**6AV6355-1FA00-0EJ0**
• Maintenance POS	**6AV6355-1GA00-0EJ0**
WinCC OA – OPC UA Server	
• OPC UA Server SUS	**6AV6355-1DA00-0EK0**
• OPC UA Server SMS	**6AV6355-1FA00-0EK0**
• OPC UA Server POS	**6AV6355-1GA00-0EK0**
WinCC OA – MindSphere	
• MindSphere SUS	**6AV6355-1DA00-0EK1**
• MindSphere SMS	**6AV6355-1FA00-0EK1**
• MindSphere POS	**6AV6355-1GA00-0EK1**
WinCC OA – Modbus Server	
• Modbus Server SUS	**6AV6355-1DA00-0EK2**
• Modbus Server SMS	**6AV6355-1FA00-0EK2**
• Modbus Server POS	**6AV6355-1GA00-0EK2**
WinCC OA – Recipe	
• Recipe SUS	**6AV6355-1DA00-0EL0**
• Recipe SMS	**6AV6355-1FA00-0EL0**
• Recipe POS	**6AV6355-1GA00-0EL0**
WinCC OA – Report	
• 1 Reporting Client SUS	**6AV6355-1DA00-0EM0**
• 1 Reporting Client SMS	**6AV6355-1FA00-0EM0**
• 1 Reporting Client POS	**6AV6355-1GA00-0EM0**
• 2 Reporting Clients SUS	**6AV6355-1DA00-0EM1**
• 2 Reporting Clients SMS	**6AV6355-1FA00-0EM1**
• 2 Reporting Clients POS	**6AV6355-1GA00-0EM1**
• 5 Reporting Clients SUS	**6AV6355-1DA00-0EM2**
• 5 Reporting Clients SMS	**6AV6355-1FA00-0EM2**
• 5 Reporting Clients POS	**6AV6355-1GA00-0EM2**
• 10 Reporting Clients SUS	**6AV6355-1DA00-0EM3**
• 10 Reporting Clients SMS	**6AV6355-1FA00-0EM3**
• 10 Reporting Clients POS	**6AV6355-1GA00-0EM3**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Report REDU	
• 1 Reporting Client REDU SUS	**6AV6355-1DA00-0EM5**
• 1 Reporting Client REDU SMS	**6AV6355-1FA00-0EM5**
• 1 Reporting Client REDU POS	**6AV6355-1GA00-0EM5**
• 2 Reporting Clients REDU SUS	**6AV6355-1DA00-0EM6**
• 2 Reporting Clients REDU SMS	**6AV6355-1FA00-0EM6**
• 2 Reporting Clients REDU POS	**6AV6355-1GA00-0EM6**
• 5 Reporting Clients REDU SUS	**6AV6355-1DA00-0EM7**
• 5 Reporting Clients REDU SMS	**6AV6355-1FA00-0EM7**
• 5 Reporting Clients REDU POS	**6AV6355-1GA00-0EM7**
• 10 Reporting Clients REDU SUS	**6AV6355-1DA00-0EM8**
• 10 Reporting Clients REDU SMS	**6AV6355-1FA00-0EM8**
• 10 Reporting Clients REDU POS	**6AV6355-1GA00-0EM8**
WinCC OA – Scheduler	
• Scheduler SUS	**6AV6355-1DA00-0EN0**
• Scheduler SMS	**6AV6355-1FA00-0EN0**
• Scheduler POS	**6AV6355-1GA00-0EN0**
WinCC OA – SmartSCADA Toolbox	
• SmartSCADA Toolbox SUS	**6AV6355-1DA00-0EP0**
• SmartSCADA Toolbox SMS	**6AV6355-1FA00-0EP0**
• SmartSCADA Toolbox POS	**6AV6355-1GA00-0EP0**
WinCC OA – SmartSCADA KPI Ext.	
• SmartSCADA KPI Ext. SUS	**6AV6355-1DA00-0EP1**
• SmartSCADA KPI Ext. SMS	**6AV6355-1FA00-0EP1**
• SmartSCADA KPI Ext. POS	**6AV6355-1GA00-0EP1**
WinCC OA – SmartSCADA Analytics	
• SmartSCADA Analytics SUS	**6AV6355-1DA00-0EP2**
• SmartSCADA Analytics SMS	**6AV6355-1FA00-0EP2**
• SmartSCADA Analytics POS	**6AV6355-1GA00-0EP2**
WinCC OA – Video Light	
• Video Light SUS	**6AV6355-1DA00-0EQ0**
• Video Light SMS	**6AV6355-1FA00-0EQ0**
• Video Light POS	**6AV6355-1GA00-0EQ0**
WinCC OA – Video Basic	
• Video Basic SUS	**6AV6355-1DA00-0EQ1**
• Video Basic SMS	**6AV6355-1FA00-0EQ1**
• Video Basic POS	**6AV6355-1GA00-0EQ1**
WinCC OA – Video Display	
• Video Display SUS	**6AV6355-1DA00-0EQ2**
• Video Display SMS	**6AV6355-1FA00-0EQ2**
• Video Display POS	**6AV6355-1GA00-0EQ2**
WinCC OA – Video Basic REDU	
• Video Basic REDU SUS	**6AV6355-1DA00-0EU0**
• Video Basic REDU SMS	**6AV6355-1FA00-0EU0**
• Video Basic REDU POS	**6AV6355-1GA00-0EU0**
WinCC OA – Video Display REDU	
• Video Display REDU SUS	**6AV6355-1DA00-0EU1**
• Video Display REDU SMS	**6AV6355-1FA00-0EU1**
• Video Display REDU POS	**6AV6355-1GA00-0EU1**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Video Display DIST	
• Video Display DIST SUS	**6AV6355-1DA00-0EQ3**
• Video Display DIST SMS	**6AV6355-1FA00-0EQ3**
• Video Display DIST POS	**6AV6355-1GA00-0EQ3**
WinCC OA – Video Cameras	
• 1 Extension SUS	**6AV6355-1DA00-0ER0**
• 1 Extension SMS	**6AV6355-1FA00-0ER0**
• 1 Extension POS	**6AV6355-1GA00-0ER0**
• 10 Extensions SUS	**6AV6355-1DA00-0ER1**
• 10 Extensions SMS	**6AV6355-1FA00-0ER1**
• 10 Extensions POS	**6AV6355-1GA00-0ER1**
• 25 Extensions SUS	**6AV6355-1DA00-0ER2**
• 25 Extensions SMS	**6AV6355-1FA00-0ER2**
• 25 Extensions POS	**6AV6355-1GA00-0ER2**
• 50 Extensions SUS	**6AV6355-1DA00-0ER3**
• 50 Extensions SMS	**6AV6355-1FA00-0ER3**
• 50 Extensions POS	**6AV6355-1GA00-0ER3**
• 100 Extensions SUS	**6AV6355-1DA00-0ER4**
• 100 Extensions SMS	**6AV6355-1FA00-0ER4**
• 100 Extensions POS	**6AV6355-1GA00-0ER4**
• 250 Extensions SUS	**6AV6355-1DA00-0ER5**
• 250 Extensions SMS	**6AV6355-1FA00-0ER5**
• 250 Extensions POS	**6AV6355-1GA00-0ER5**
• 500 Extensions SUS	**6AV6355-1DA00-0ER6**
• 500 Extensions SMS	**6AV6355-1FA00-0ER6**
• 500 Extensions POS	**6AV6355-1GA00-0ER6**
WinCC OA – Video Cameras REDU	
• 1 Extension REDU SUS	**6AV6355-1DA00-0ES0**
• 1 Extension REDU SMS	**6AV6355-1FA00-0ES0**
• 1 Extension REDU POS	**6AV6355-1GA00-0ES0**
• 10 Extensions REDU SUS	**6AV6355-1DA00-0ES1**
• 10 Extensions REDU SMS	**6AV6355-1FA00-0ES1**
• 10 Extensions REDU POS	**6AV6355-1GA00-0ES1**
• 25 Extensions REDU SUS	**6AV6355-1DA00-0ES2**
• 25 Extensions REDU SMS	**6AV6355-1FA00-0ES2**
• 25 Extensions REDU POS	**6AV6355-1GA00-0ES2**
• 50 Extensions REDU SUS	**6AV6355-1DA00-0ES3**
• 50 Extensions REDU SMS	**6AV6355-1FA00-0ES3**
• 50 Extensions REDU POS	**6AV6355-1GA00-0ES3**
• 100 Extensions REDU SUS	**6AV6355-1DA00-0ES4**
• 100 Extensions REDU SMS	**6AV6355-1FA00-0ES4**
• 100 Extensions REDU POS	**6AV6355-1GA00-0ES4**
• 250 Extensions REDU SUS	**6AV6355-1DA00-0ES5**
• 250 Extensions REDU SMS	**6AV6355-1FA00-0ES5**
• 250 Extensions REDU POS	**6AV6355-1GA00-0ES5**
• 500 Extensions REDU SUS	**6AV6355-1DA00-0ES6**
• 500 Extensions REDU SMS	**6AV6355-1FA00-0ES6**
• 500 Extensions REDU POS	**6AV6355-1GA00-0ES6**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Video Workstation	
• WinCC OA – Video Workstation SUS	**6AV6355-1DA00-0EQ4**
• WinCC OA – Video Workstation SMS	**6AV6355-1FA00-0EQ4**
• WinCC OA – Video Workstation POS	**6AV6355-1GA00-0EQ4**
WinCC OA – Web Server	
• Web Server SUS	**6AV6355-1DA00-0ET0**
• Web Server SMS	**6AV6355-1FA00-0ET0**
• Web Server POS	**6AV6355-1GA00-0ET0**
WinCC OA – Load Balancing	
• Load Balancing SUS	**6AV6355-1DA00-0ET1**
• Load Balancing SMS	**6AV6355-1FA00-0ET1**
• Load Balancing POS	**6AV6355-1GA00-0ET1**
WinCC OA – WebSocket Connection	
• WebSocket Connection SUS	**6AV6355-1DA00-0ET2**
• WebSocket Connection SMS	**6AV6355-1FA00-0ET2**
• WebSocket Connection POS	**6AV6355-1GA00-0ET2**

SIMATIC WinCC Open Architecture	
V3.20	
WinCC OA – RDB V3.20	
For connecting the Oracle database to WinCC OA Server (Oracle licenses not included).	
• RDB	**6AV6355-1AA50-0EA0**
• RDB UPG	**6AV6355-1CA50-0EA0**
WinCC OA – DB Logger V3.20	
Allows export of data from WinCC OA to external databases.	
• DB Logger	**6AV6355-1AA50-0EA1**
• DB Logger UPG	**6AV6355-1CA50-0EA1**
WinCC OA – NGA Standard V3.20	
Enables the use of the Next Generation Archiver in projects with up to 150,000 PowerTags	
• NGA Standard	**6AV6355-1AA50-0EA2**
• NGA Standard UPG	**6AV6355-1CA50-0EA2**
WinCC OA – NGA Premium V3.20	
Enables the use of the Next Generation Archiver in large projects with more than 150,000 PowerTags	
• NGA Premium	**6AV6355-1AA50-0EA3**
• NGA Premium UPG	**6AV6355-1CA50-0EA3**
WinCC OA – NGA backend connection V3.20	
Connection of another freely selectable backend for the NGA	
NGA backend connection	**6AV6355-1AA50-0EA4**
NGA backend connection UPG	**6AV6355-1CA50-0EA4**
WinCC OA – CommCenter V3.20	
Remote alerting via SMS and email Basic package for unlimited alarms	
CommCenter	**6AV6355-1AA50-0EC4**
CommCenter UPG	**6AV6355-1CA50-0EC4**
CommCenter SUS	**6AV6355-1DA00-0EC4**
CommCenter SMS	**6AV6355-1FA00-0EC4**
CommCenter POS	**6AV6355-1GA00-0EC4**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Custom Component V3.20	
Integration of a customer-specific manager, driver, script or graphic extension	
Custom Comp	**6AV6355-1AA50-0ED2**
Custom Comp UPG	**6AV6355-1CA50-0ED2**
10 Custom Comp	**6AV6355-1AA50-0ED4**
10 Custom Comp UPG	**6AV6355-1CA50-0ED4**
10 Custom Comp SUS	**6AV6355-1DA00-0ED4**
10 Custom Comp SMS	**6AV6355-1FA00-0ED4**
10 Custom Comp POS	**6AV6355-1GA00-0ED4**
WinCC OA – Custom Component REDU V3.20	
Integration of a customer-specific manager, driver, script or graphic extension for REDU system	
• Custom Comp REDU	**6AV6355-1AA50-0ED3**
• Custom Comp REDU UPG	**6AV6355-1CA50-0ED3**
• 10 Custom Comp REDU	**6AV6355-1AA50-0ED5**
• 10 Custom Comp REDU UPG	**6AV6355-1CA50-0ED5**
• 10 Custom Comp REDU SUS	**6AV6355-1DA00-0ED5**
• 10 Custom Comp REDU SMS	**6AV6355-1FA00-0ED5**
• 10 Custom Comp REDU POS	**6AV6355-1GA00-0ED5**
WinCC OA – Dist System V3.20	
Extends a WinCC OA Server with the Multiserver option (up to 2048 servers)	
• Dist System	**6AV6355-1AA50-0EE0**
• Dist System UPG	**6AV6355-1CA50-0EE0**
WinCC OA – Redundancy V3.20	
High availability with bumpless switchover. Both servers need a license in REDU systems	
• Redundancy	**6AV6355-1AA50-0EF0**
• Redundancy UPG	**6AV6355-1CA50-0EF0**
WinCC OA – DRS V3.20	
Disaster Recovery System, remote Backup Control Center. 2 redundant systems (4 servers in total)	
• DRS	**6AV6355-1AA50-0EF1**
• DRS UPG	**6AV6355-1CA50-0EF1**
WinCC OA – Secure by Kerberos V3.20	
Extended protection with Kerberos. Increases IT security level by using ticket-based authentication	
Secure by Kerberos	**6AV6355-1AA50-0EG0**
Secure by Kerberos UPG	**6AV6355-1CA50-0EG0**
WinCC OA – Map V3.20	
Display of maps in WinCC OA. Open Street Map as well as own map material are supported	
• Map	**6AV6355-1AA50-0EH5**
• Map UPG	**6AV6355-1CA50-0EH5**
WinCC OA – Report V3.20	
Defined number of reporting clients for evaluation of WinCC OA data using a third-party tool	
• Report	**6AV6355-1AA50-0EN5**
• Report UPG	**6AV6355-1CA50-0EN5**
• Report SUS	**6AV6355-1DA00-0EN5**
• Report SMS	**6AV6355-1FA00-0EN5**
• Report POS	**6AV6355-1GA00-0EN5**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Report REDU V3.20	
Defined number of reporting clients for evaluation of WinCC OA data using a third-party tool for REDU systems	
• Report REDU	**6AV6355-1AA50-0EN6**
• Report REDU UPG	**6AV6355-1CA50-0EN6**
• Report REDU SUS	**6AV6355-1DA00-0EN6**
• Report REDU SMS	**6AV6355-1FA00-0EN6**
• Report REDU POS	**6AV6355-1GA00-0EN6**
WinCC OA – SmartSCADA Toolbox V3.20	
Allows creation of key figure definitions and instances via formula editor or CONTROL Contains 20 KPI instances	
• SmartSCADA Toolbox	**6AV6355-1AA50-0EP0**
• SmartSCADA Toolbox UPG	**6AV6355-1CA50-0EP0**
WinCC OA – SmartSCADA KPI Ext. V3.20	
Extends Toolbox by 100 KPI instances	
• SmartSCADA KPI Ext.	**6AV6355-1AA50-0EP1**
• SmartSCADA KPI Ext. UPG	**6AV6355-1CA50-0EP1**
WinCC OA – SmartSCADA Analytics V3.20	
Time-limited license (1 year) for data analysis and learning of statistical models. Contains statistical toolbox "R"	
• SmartSCADA Analytics	**6AV6355-1AA50-0EP2**
• SmartSCADA Analytics UPG	**6AV6355-1CA50-0EP2**
WinCC OA – Video Light V3.20	
Allows connection of 4 cameras/sources and an external video display. Cannot be extended	
• Video Light	**6AV6355-1AA50-0EQ0**
• Video Light UPG	**6AV6355-1CA50-0EQ0**
WinCC OA – Video Basis V3.20	
Enables native connection (ONVIF) of cameras/sources to a WinCC OA System. Includes all streaming, recording and playback functions	
• Video Basic	**6AV6355-1AA50-0EQ1**
• Video Basic UPG	**6AV6355-1CA50-0EQ1**
WinCC OA – Video Basis REDU V3.20	
Enables native connection (ONVIF) of cameras/sources to a redundant WinCC OA System. Includes all streaming, recording and playback functions	
• Video Basic REDU	**6AV6355-1AA50-0EU0**
• Video Basic REDU UPG	**6AV6355-1CA50-0EU0**
WinCC OA – Video Display V3.20	
Extends the Video Basic system by an external display. A Video Display license is included in the basic package	
• Video Display	**6AV6355-1AA50-0EQ2**
• Video Display UPG	**6AV6355-1CA50-0EQ2**
WinCC OA – Video Display REDU V3.20	
Extends Video Basic in a REDU system by an external display. A Video Display license is included in the basic package	
• Video Display REDU	**6AV6355-1AA50-0EU1**
• Video Display REDU UPG	**6AV6355-1CA50-0EU1**
WinCC OA – Video Display DIST V3.20	
Extends Video Basic in a DIST system by an external display	
• Video Display DIST	**6AV6355-1AA50-0EQ3**
• Video Display DIST UPG	**6AV6355-1CA50-0EQ3**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – Video Cameras V3.20	
Extends Video Basic by a defined number of sources/cameras.	
• 1 Video Camera	**6AV6355-1AA50-0ER0**
• 1 Video Camera UPG	**6AV6355-1CA50-0ER0**
• 10 Video Cameras	**6AV6355-1AA50-0ER1**
• 10 Video Cameras UPG	**6AV6355-1CA50-0ER1**
• 25 Video Cameras	**6AV6355-1AA50-0ER2**
• 25 Video Cameras	**6AV6355-1CA50-0ER2**
• 50 Video Cameras	**6AV6355-1AA50-0ER3**
• 50 Video Cameras UPG	**6AV6355-1CA50-0ER3**
• 100 Video Cameras	**6AV6355-1AA50-0ER4**
• 100 Video Cameras UPG	**6AV6355-1CA50-0ER4**
• 250 Video Cameras	**6AV6355-1AA50-0ER5**
• 250 Video Cameras UPG	**6AV6355-1CA50-0ER5**
• 500 Video Cameras	**6AV6355-1AA50-0ER6**
• 500 Video Cameras UPG	**6AV6355-1CA50-0ER6**
WinCC OA – Video Workstation V3.20	
Connection of an additional workstation for pure display/research of video data	
• Video Workstation	**6AV6355-1AA50-0EQ4**
• Video Workstation UPG	**6AV6355-1CA50-0EQ4**
WinCC OA – Video Cameras REDU V3.20	
Extends Video Basic in a REDU system by a defined number of sources/cameras	
• 1 Video Camera REDU	**6AV6355-1AA50-0ES0**
• 1 Video Camera REDU UPG	**6AV6355-1CA50-0ES0**
• 1 Video Camera REDU UPG	**6AV6355-1AA50-0ES1**
• 10 Video Cameras REDU UPG	**6AV6355-1CA50-0ES1**
• 25 Video Cameras REDU	**6AV6355-1AA50-0ES2**
• 25 Video Cameras REDU UPG	**6AV6355-1CA50-0ES2**
• 50 Video Cameras REDU	**6AV6355-1AA50-0ES3**
• 50 Video Cameras REDU UPG	**6AV6355-1CA50-0ES3**
• 100 Video Cameras REDU	**6AV6355-1AA50-0ES4**
• 100 Video Cameras REDU UPG	**6AV6355-1CA50-0ES4**
• 250 Video Cameras REDU	**6AV6355-1AA50-0ES5**
• 250 Video Cameras REDU UPG	**6AV6355-1CA50-0ES5**
• 500 Video Cameras REDU	**6AV6355-1AA50-0ES6**
• 500 Video Cameras REDU UPG	**6AV6355-1CA50-0ES6**
WinCC OA – Load Balancing V3.20	
Enables load balancing of connections between WinCC OA Servers and ULC UX	
• Load Balancing	**6AV6355-1AA50-0ET1**
• Load Balancing UPG	**6AV6355-1CA50-0ET1**
WinCC OA – WebSocket Connection V3.20	
Enables management of connections between WinCC OA Servers and WinCC OA ULC UX clients	
• WebSocket Connection	**6AV6355-1AA50-0ET2**
• WebSocket Connection UPG	**6AV6355-1CA50-0ET2**

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Overview

WinCC Open Architecture (WinCC OA) IPC Packages are compact WinCC OA functional units designed for SIMATIC IPC hardware. They are sophisticated solutions which are offered as a bundle with corresponding Nanobox PCs, perfect for fast deployment.

The licenses enable the use of WinCC OA on SIMATIC IPCs of the 127, 227, 277, BX-21A, BX-32A, BX-39A series as well as on IOT2050, IOT2050SM and ET 200SP Open Controller. These packages cannot be extended with further WinCC OA options, except the option with 4096 PowerTags.

The general WinCC OA Software or hardware requirements apply to the IPC Packages specified above.

These packages can only be ordered in combination with the corresponding additional hardware item.

SUS contracts can be purchased for IPC Packages, but no SMS.

WinCC OA can be used on other IPCs that meet the general WinCC OA software or hardware requirements on the basis of a regular WinCC OA license.

Selection and ordering data

SIMATIC WinCC Open Architecture	
V3.21	
WinCC OA IPC Package V3.21	
• 128 PowerTags	6AV6355-1AA50-1FA4
• 256 PowerTags	6AV6355-1AA50-1FA0
• 512 PowerTags	6AV6355-1AA50-1FA1
• 2 048 PowerTags	6AV6355-1AA50-1FA2
• 4 096 PowerTags	6AV6355-1AA50-1FA3
V3.20	
WinCC OA IPC Package V3.20	
• 128 PowerTags	6AV6355-1AA50-0FA4
• 256 PowerTags	6AV6355-1AA50-0FA0
• 512 PowerTags	6AV6355-1AA50-0FA1
• 2 048 PowerTags	6AV6355-1AA50-0FA2
• 4 096 PowerTags	6AV6355-1AA50-0FA3
V3.19	
WinCC OA IPC Package V3.19	
• 128 PowerTags	6AV6355-1AA47-7FA4
• 256 PowerTags	6AV6355-1AA47-7FA0
• 512 PowerTags	6AV6355-1AA47-7FA1
• 2 048 PowerTags	6AV6355-1AA47-7FA2
• 4 096 PowerTags	6AV6355-1AA47-7FA3

SIMATIC WinCC Open Architecture	
Software Services - version-independent	
WinCC OA IPC Package	
• 128 PowerTags SUS	6AV6355-1DA00-0FA4
• 128 PowerTags POS	6AV6355-1GA00-0FA4
• 256 PowerTags SUS	6AV6355-1DA00-0FA0
• 256 PowerTags POS	6AV6355-1GA00-0FA0
• 512 PowerTags SUS	6AV6355-1DA00-0FA1
• 512 PowerTags POS	6AV6355-1GA00-0FA1
• 2 048 PowerTags SUS	6AV6355-1DA00-0FA2
• 2 048 PowerTags POS	6AV6355-1GA00-0FA2
• 4 096 PowerTags SUS	6AV6355-1DA00-0FA3
• 4 096 PowerTags POS	6AV6355-1GA00-0FA3

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Overview

WinCC OA OneClick licenses offer a number of predefined license options that can be ordered with a single product number. These pre-configured license packages include multiple license options in quantities tailored to common customer requirements, eliminating the need for extensive manual configuration.

The WinCC OA OneClick licensing program offers customers a choice of three different pre-configured license packages, Medium, Large and Unlimited, and are available as a Perpetual or Subscription model.

Selection and ordering data

OneClick licenses - version-independent	
• WinCC OA – OneClick Medium	**6AV6355-1AA00-0FD0**
• WinCC OA – OneClick Medium SUS	**6AV6355-1DA00-0FD0**
• WinCC OA – OneClick Medium Subscription	**6AV6355-1BA00-0FD3**
• WinCC OA – OneClick Large	**6AV6355-1AA00-0FD1**
• WinCC OA – OneClick Large SUS	**6AV6355-1DA00-0FD1**
• WinCC OA – OneClick Large Subscription	**6AV6355-1BA00-0FD4**
• WinCC OA – OneClick Unlimited	**6AV6355-1AA00-0FD2**
• WinCC OA – OneClick Unlimited SUS	**6AV6355-1DA00-0FD2**
• WinCC OA – OneClick Unlimited Subscription	**6AV6355-1BA00-0FD5**

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Overview

WinCC Open Architecture inhouse development licenses

WinCC Open Architecture (WinCC OA) inhouse licenses are time-limited developer licenses recommended for certified partners.

This license comprises a one-year right of usage under the following conditions:

- ETM provides a WinCC Open Architecture (WinCC OA) license with unlimited PowerTags and all license options (excluding Video add-on).

  Two development licenses are required to create a redundant system.

  The extensions listed above can also be purchased separately.

  - This development license is for internal use and cannot be forwarded to third parties.
  - This development license cannot be used either for customer tests (e.g. SAT, FAT) or in productive plants.

- Basic Support during office hours for the customer's employees who are trained on WinCC OA.
- The license is invoiced each year in advance. The agreement is valid for one year and is then extended by a further year if neither of the contract parties cancels the contract 3 months before its expiry.

Upgrade of inhouse development licenses

WinCC OA Inhouse Development licenses are version-independent. They can therefore be used even after a version change.
To use new license features, customers need to upgrade their Inhouse Development licenses.

Upgrades and updates of the WinCC OA Inhouse Development license to new WinCC OA versions during the contract period must be performed by the customers themselves. They receive an email notification relating to this.

To perform the update, customers need to log into the WinCC OA license portal with their license key and upgrade the desired licenses there. They can do this any time after receiving the email notification.

Selection and ordering data

SIMATIC WinCC Open Architecture	
WinCC OA – Inhouse DEV Package 1 WinCC OA Server license (functionally unlimited) with almost all options (except Video), 10 hotline hours, automatically extended after 1 year	
• 1 Inhouse DEV Package	**6AV6355-1EA00-0GA0**
• 2 Inhouse DEV Packages	**6AV6355-1EA00-0GA1**
• 5 Inhouse DEV Packages	**6AV6355-1EA00-0GA2**
• 10 Inhouse DEV Packages	**6AV6355-1EA00-0GA3**
WinCC OA – Inhouse DEV PARA Extends WinCC OA Inhouse DEV Package by additional PARA licenses. Automatically extended after 1 year.	
• 1 Inhouse DEV PARA	**6AV6355-1EA00-0GB0**
• 2 Inhouse DEV PARA	**6AV6355-1EA00-0GB1**
• 5 Inhouse DEV PARA	**6AV6355-1EA00-0GB2**
• 10 Inhouse DEV PARA	**6AV6355-1EA00-0GB3**
WinCC OA – Inhouse DEV Video Developer video package, unlimited sources/cameras, automatically extended after 1 year.	**6AV6355-1EA00-0GC1**
WinCC OA – API Interface Application programming interfaces for the development of own drivers (C++).	**6AV6355-1EA00-0GD0**

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Overview

Solution Frameworks are license packages for the implementation of specific applications at the customer. Each package includes a number of hours of Extended Services.

Selection and ordering data

SIMATIC WinCC Open Architecture	
V3.21	
WinCC OA – Topology V3.21	
Application framework for topological coloring of network representations + Extended Services	
• Topology Package	**6AV6355-1AA50-1HA0**
• Topology Package UPG	**6AV6355-1CA50-1HA0**
• Topology Software	**6AV6355-1AA50-1HA1**
• Topology Software UPG	**6AV6355-1CA50-1HA1**
WinCC OA – APM V3.21	
Playback of real-time system status in test simulation system + Extended Services	
• APM System	**6AV6355-1AA50-1HB2**
• APM System UPG	**6AV6355-1CA50-1HB2**
WinCC OA – AMS V3.21	
• AMS Package	**6AV6355-1AA50-1HC7**
• AMS Package UPG	**6AV6355-1CA50-1HC7**
• AMS Package SUS	**6AV6355-1DA00-0HC7**
• AMS Package SMS	**6AV6355-1FA00-0HC7**
• AMS Package POS	**6AV6355-1GA00-0HC7**
V3.20	
WinCC OA – Topology V3.20	
Application framework for topological coloring of network representations + Extended Services	
• Topology Package	**6AV6355-1AA50-0HA0**
• Topology Package UPG	**6AV6355-1CA50-0HA0**
• Topology Software	**6AV6355-1AA50-0HA1**
• Topology Software UPG	**6AV6355-1CA50-0HA1**
WinCC OA – APM V3.20	
Playback of real-time system status in test simulation system + Extended Services	
• APM System	**6AV6355-1AA50-0HB2**
• APM System UPG	**6AV6355-1CA50-0HB2**
WinCC OA – AMS V3.20	
• AMS Package	**6AV6355-1AA50-0HC7**
• AMS Package UPG	**6AV6355-1CA50-0HC7**
• AMS Package SUS	**6AV6355-1DA00-0HC7**
• AMS Package SMS	**6AV6355-1FA00-0HC7**
• AMS Package POS	**6AV6355-1GA00-0HC7**
V3.19	
WinCC OA – Topology Package V3.19	
Application framework for topological coloring of network representations + Extended Services	
• Topology Package	**6AV6355-1AA47-7HA0**
• Topology Package UPG	**6AV6355-1CA47-7HA0**
WinCC OA – APM Package V3.19	
Playback of real-time system status in test simulation system + Extended Services	
• APM Package	**6AV6355-1AA47-7HB0**
• APM Package UPG	**6AV6355-1CA47-7HB0**

Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
AMS Package Starter V3.19	**6AV6355-1AA47-7HC0**
90-day trial license for Advanced Maintenance Suite + Extended Services	
WinCC OA – AMS Package Entry V3.19	
Advanced Maintenance Suite with max. 20 alarm/event DP + Extended Services	
• AMS Package Entry	**6AV6355-1AA47-7HC1**
• AMS Package Entry UPG	**6AV6355-1CA47-7HC1**
WinCC OA – AMS Package Small V3.19	
Advanced Maintenance Suite with max. 100 alarm/event DP + Extended Services	
• AMS Package Small	**6AV6355-1AA47-7HC2**
• AMS Package Small UPG	**6AV6355-1CA47-7HC2**
WinCC OA – AMS Package Medium V3.19	
Advanced Maintenance Suite with max. 1000 alarm/event DP + Extended Services	
• AMS Package Medium	**6AV6355-1AA47-7HC3**
• AMS Package Medium UPG	**6AV6355-1CA47-7HC3**
WinCC OA – AMS Package Large V3.19	
Advanced Maintenance Suite with max. 5000 alarm/event DP + Extended Services	
• AMS Package Large	**6AV6355-1AA47-7HC4**
• AMS Package Large UPG	**6AV6355-1CA47-7HC4**
WinCC OA – AMS Package Unlimited V3.19	
Advanced Maintenance Suite with unlimited alarm/event DP + Extended Services	
• AMS Package Unlimited	**6AV6355-1AA47-7HC5**
• AMS Package Unlimited UPG	**6AV6355-1CA47-7HC5**
WinCC OA – AMS Package Extension V3.19	
Upgrade for Advanced Maintenance Suite Package Large by 1,000 alarm/event DPs	
• AMS Package Extension	**6AV6355-1AA47-7HC6**
• AMS Package Extension UPG	**6AV6355-1CA47-7HC6**

SIMATIC WinCC Open Architecture	
Software Services - version-independent	
WinCC OA – Topology Package	
• Topology Package SUS	**6AV6355-1DA00-0HA0**
• Topology Package SMS	**6AV6355-1FA00-0HA0**
• Topology Package POS	**6AV6355-1GA00-0HA0**
WinCC OA – APM Package	
• APM Package SUS	**6AV6355-1DA00-0HB0**
• APM Package SMS	**6AV6355-1FA00-0HB0**
• APM Package POS	**6AV6355-1GA00-0HB0**
WinCC OA – AMS Package Entry	
• AMS Package Entry SUS	**6AV6355-1DA00-0HC1**
• AMS Package Entry SMS	**6AV6355-1FA00-0HC1**
• AMS Package Entry POS	**6AV6355-1GA00-0HC1**
WinCC OA – AMS Package Small	
• AMS Package Small SUS	**6AV6355-1DA00-0HC2**
• AMS Package Small SMS	**6AV6355-1FA00-0HC2**
• AMS Package Small POS	**6AV6355-1GA00-0HC2**
WinCC OA – AMS Package Medium	
• AMS Package Medium SUS	**6AV6355-1DA00-0HC3**
• AMS Package Medium SMS	**6AV6355-1FA00-0HC3**
• AMS Package Medium POS	**6AV6355-1GA00-0HC3**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – AMS Package Large	
• AMS Package Large SUS	**6AV6355-1DA00-0HC4**
• AMS Package Large SMS	**6AV6355-1FA00-0HC4**
• AMS Package Large POS	**6AV6355-1GA00-0HC4**
WinCC OA – AMS Package Unlimited	
• AMS Package Unlimited SUS	**6AV6355-1DA00-0HC5**
• AMS Package Unlimited SMS	**6AV6355-1FA00-0HC5**
• AMS Package Unlimited POS	**6AV6355-1GA00-0HC5**
WinCC OA – AMS Package Extension	
• AMS Package Extension SUS	**6AV6355-1DA00-0HC6**
• AMS Package Extension SMS	**6AV6355-1FA00-0HC6**
• AMS Package Extension POS	**6AV6355-1GA00-0HC6**

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Overview

SIMATIC WinCC Open Architecture Services

SIMATIC WinCC Open Architecture (WinCC OA) is a SCADA system for visualizing and operating processes, production flows, machines and plants in all industrial sectors.

This high degree of flexibility requires comprehensive support for our customers and especially our partners. WinCC OA staff are happy to provide support for a wide range of challenges.

Services are offered in the following categories:

- Basic Support: Support in the event of product errors of the latest three versions within the framework of valid development licenses or maintenance contracts (SUS/SMS)
- Extended Services: Consulting and configuration activities as well as support for older WinCC OA versions
- Solution: Development activities based on precise, technical specifications
- Trainings: Defined trainings and hands-on trainings
- Travel costs: For Extended Services or on-site training
- Trade goods: Third-party goods sold through WinCC OA

Note:

These are services of the product supplier.

Selection and ordering data

WinCC OA Software Services

There are 3 types of continuous software services available – POS, SUS, and SMS.

In addition, a one-time software upgrade (UPG) can also be purchased.

The order must be placed according to the respective license; the article numbers (MLFBs) have a specific structure, as shown in the table below.

License	
WinCC OA Software license V3.20	**6AV6355-1AA50-0xxx**
WinCC OA One-Time Upgrade (UPG) V3.20	**6AV6355-1CA50-0xxx**
WinCC OA Software Upgrade Service (SUS)	**6AV6355-1DA00-0xxx**
WinCC OA Software Maintenance Service (SMS)	**6AV6355-1FA00-0xxx**
WinCC OA Patch Only Service (POS)	**6AV6355-1GA00-0xxx**

If these standard software services do not meet your specific project requirements, an individual license service contract can be offered.

Please contact your sales representative.

To obtain access to ETM Customer Care for product support, you need the license container ID in order to verify the license configuration and determine the active license services.

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Overview

WinCC Open Architecture Basic Support

WinCC Open Architecture (WinCC OA) Basic Support is provided as part of an in-house development package (in the engineering phase of a project) or as part of an SUS or SMS contract (in the FAT/SAT/commissioning phase or during live operation of a specific plant) (2 hours per case on average).
Support requests can be submitted online around the clock, 365 days a year. Service requests cannot be submitted by email.

The customer request is received by Siemens Industry Support (1st level), further processing is performed by the WinCC OA Product Support specialists (2nd level), who are available during Austrian normal working hours, Monday to Friday 9 am to 5 pm CEST/CET.

The support hours are for general product information and product-related support.

If you are using one of the mainline versions (current WinCC OA version or one of the last two versions) and have a product issue, you will receive Basic Support if the following conditions are met:

If you report an issue within the development phase with your valid in-house development license, you will receive Basic Support.

Once you have moved to the commissioning phase (in combination with the need to switch to the dedicated plant license), you will need at least one SUS (Software Upgrade Service) to take advantage of Basic Support.

Project-related, specific information is to be handled through "WinCC OA Extended Services".

Selection and ordering data

SIMATIC WinCC Open Architecture	
WinCC OA replacement license issue Flat fee for issuing a replacement license.	**6AV6355-2AA00-0BC4**

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Overview

Extended Services refers to pure consulting activities with optional configuration support within the scope of the agreements as well as within the scope of special products ("Solution Frameworks"), which are to be adapted to individual customer requirements according to existing routines.

Extended Services is a service provided by WinCC Open Architecture (WinCC OA). This is calculated at an hourly rate. It is based on 8 hours per working day during normal working hours, defined according to Austrian working days, Monday to Friday from 9 am to 5 pm CET. If this time is exceeded, the following surcharges apply:

- 50% outside of normal working hours (6 pm until 8 am) and on Saturdays
- 100% on Sundays and Austrian holidays

In the course of ordering a project, it is also possible to order a pool of hours of Extended Services. Corresponding working hours are then removed from the pool.

The hourly rate refers to project-related, location-independent work – it does not require travel to the customer or to a location. If travel is desired, it must be ordered as <Travel costs>.

Travel time is viewed as working time and, if not agreed separately, is invoiced accordingly by ETM. The hours actually used, according to the timesheet, are invoiced.

Expenses, costs for visa and Construction Project Delegation (CPD) will be passed on.

"Trainings" as well as development of adapted product components ("Solutions") can be ordered separately.

Likewise, any support within the scope of a maintenance contract is not linked to this contingent, but must be ordered separately (for details, see: "UPG", "SUS", "SMS"). Coordinate the availability of WinCC OA experts with us in good time (preferably before ordering) using the email address "wincc_oa.at@siemens.com".

Selection and ordering data

SIMATIC WinCC Open Architecture	
WinCC OA - Extended Services	
Includes staggered number of hours of consulting services	
• Extended Services 1h	**6AV6355-3AA00-0BA0**
• Extended Services 8h	**6AV6355-3AA00-0BA1**
• Extended Services 25h	**6AV6355-3AA00-0BA4**
• Extended Services 50h	**6AV6355-3AA00-0BA2**
• Extended Services 100h	**6AV6355-3AA00-0BA3**

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Overview

Solution is a customer-specific software development based on precise technical specifications.
Whether this development is positioned in the product, its effects on maintenance responsibility and handover to the customer must be clarified before the order is placed.
Solutions are a service provided by WinCC Open Architecture (WinCC OA).

This is calculated at an hourly rate. It is based on 8 hours per working day during normal working hours, defined according to Austrian working days, Monday to Friday from 9 am to 5 pm CET.
Exceeding this time and activities outside normal working hours will be invoiced proportionately with increased costs.
The hourly rate refers to project-related, location-independent work – it does not require travel to the customer or to a location.
Trainings, as well as pure consulting and configuration activities (Extended Services), can be ordered separately.
In the course of project implementation, it makes sense to make use of the various services (Extended Services) that are available as part of the support services.

Selection and ordering data

SIMATIC WinCC Open Architecture	
WinCC OA – Solution Custom Customer-specific, individually offered software development according to specification.	**6AV6355-3CA00-0BB1**
WinCC OA – Solution 1 hour 1 hour hourly rate for software development according to specification.	**6AV6355-3CA00-0BB0**

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Overview

Trainings for handling WinCC Open Architecture (WinCC OA) and various WinCC OA features in detail. Trainings are conducted by certified WinCC OA trainers. Price per participant.

Training courses can be booked directly via this link.
Via the link, current requirements as well as additional detailed information regarding minimum hardware and software requirements can be accessed at any time.

The training courses normally take place at ETM in Eisenstadt however it is also possible to book trainings on-site at the customer's location.
The following applies for such on-site trainings:

- Longer lead times must be planned
- Minimum number of participants for trainings on site at the customer's location has increased
  - within the EU +2 (E.g. basic training minimum 5 instead of 3)
  - within the EU +3 (E.g. basic training minimum 6 instead of 3)
- Travel costs, accommodations and meals for the trainer are covered by the customer.
  More information on booking is available under <Travel costs>.

Customers can also book personal online training sessions. In this case, the minimum number of participants always increases by +2. Travel costs, accommodations and meals for trainers do not have to be provided for online training courses.

Lunch is included in the price for trainings held at ETM in Eisenstadt. If possible, participants should bring their own notebooks to the training (64-bit operating system).

ETM reserves the right to postpone training courses to the next possible date if the minimum number of registrations is not reached. Individual training can also be requested in addition to the training offer provided by ETM.

Cancellation conditions

The customer may withdraw from the contract in writing at any time before the agreed start of a course.
If the cancellation is not made at least 10 calendar days before the start of the course, the customer will be charged 80% of the agreed total price for the course.
If the cancellation is made earlier, the cancellation is free of charge for the customer.
If a participant does not show up for the agreed training course without prior cancellation, 100% of the order value will be charged.
The termination of a training course is possible at any time. In this case we charge 100% of the order value.

All mandatory ECC examinations (including late registrations or changes of training participants) must be performed by the SIEMENS unit responsible for the order (if AWV category 1).

Selection and ordering data

SIMATIC WinCC Open Architecture	
Certified WinCC OA Basic Training Training for getting started with WinCC OA. Duration: 5 days	**6AV6355-3BA00-0BA0**
Certified WinCC OA Basic Training 3 P Training for getting started with WinCC OA. Duration: 5 days	**6AV6355-3BA00-0BA1**
Certified WinCC OA Basic Training <=5 P Training for getting started with WinCC OA. Duration: 5 days	**6AV6355-3BA00-0BA2**
Certified WinCC OA Basic Training >5 P Training for getting started with WinCC OA. Duration: 5 days	**6AV6355-3BA00-0BA3**
Certified WinCC OA Engineer Workshop Training for future engineers of WinCC OA. Duration: 3 days	**6AV6355-3BA00-0BB0**
Certified WinCC OA Engineer Workshop 3 P Training for future engineers of WinCC OA. Duration: 3 days	**6AV6355-3BA00-0BB1**
Certified WinCC OA Engineer Workshop 5 P Training for future engineers of WinCC OA. Duration: 3 days	**6AV6355-3BA00-0BB2**
Certified WinCC OA Consultant Training for creating complex systems with WinCC OA. Duration: 3 days.	**6AV6355-3BA00-0BC0**
Certified WinCC OA Developer Workshop Training to obtain basic knowledge for development with WinCC OA. Duration: 3 days.	**6AV6355-3BA00-0BC1**
Certified WinCC OA Extended Developer Workshop Training for detailed knowledge of the WinCC OA API. Duration: 3 days.	**6AV6355-3BA00-0BC2**
Certified WinCC OA Security Workshop Training to learn security mechanisms in WinCC OA. Duration: 3 days.	**6AV6355-3BA00-0BC3**
Certified WinCC OA Safety Engineer Workshop Training for future SAFETY engineers of WinCC OA. Duration: 2 days	**6AV6355-3BA00-0BC4**
WinCC OA – Update Training Training for new functionalities in WinCC OA. Duration: 1 day.	**6AV6355-3BA00-0BD0**
WinCC OA – Object-oriented Programming Training for object-oriented programming and Panels. Duration: 2 days	**6AV6355-3BA00-0BE0**
WinCC OA – Video Training Training to learn the Video option of WinCC OA. Duration: 1 day.	**6AV6355-3BA00-0BE1**
WinCC OA – Video Expert Training Training to expand knowledge on the Video option of WinCC OA. Duration: 2 days	**6AV6355-3BA00-0BE2**
WinCC OA – SmartSCADA Training Training for the use and handling of WinCC OA Add-on SmartSCADA. Duration: 2 days.	**6AV6355-3BA00-0BE3**
WinCC OA – BACnet Workshop Training to learn the BACNet option. Duration: 1.5 days	**6AV6355-3BA00-0BE4**

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Selection and ordering data (continued)

SIMATIC WinCC Open Architecture	
WinCC OA – AMS Workshop Training to learn the Advanced Maintenance Suite. Duration: 3 days	**6AV6355-3BA00-0BE5**
WinCC OA – Project specific start up Workshop Workshop for efficient project startup for WinCC OA beginners Duration: 2 days	**6AV6355-3BA00-0BF0**
WinCC OA – Training day Service during working hours from Monday to Friday from 8am-5pm; by appointment Duration: 1 day	**6AV6355-3BA00-0BY1**

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Overview

Services for "Extended Services" and "Training" are charged at an hourly rate. The hourly rate refers to project-related, location-independent work – it does not require travel to the customer or to a location.

Travel costs are to be agreed upon additionally and include cost for both time and travel for WinCC Open Architecture (WinCC OA) employees involved.
A definite commitment for a trip must be agreed separately.

Depending on the distance and the agreed means of transport, flat-rate travel costs for arrival and departure or freely configurable contingents – also for longer stays and customizations – are offered.

Selection and ordering data

SIMATIC WinCC OA Travel costs	
WinCC OA – Travel costs Fixed price for travel allowance, including travel time and costs.	
• TC up to 100 km	**6AV6355-3DA00-0BF0**
• TC up to 300 km	**6AV6355-3DA00-0BF1**
• TC up to 500 km	**6AV6355-3DA00-0BF2**
WinCC OA – Travel costs flight Travel allowance for a flight within the defined zones	
Zone 1	**6AV6355-3DA00-0BF3**
Zone 2	**6AV6355-3DA00-0BF4**
Zone 3	**6AV6355-3DA00-0BF5**
Zone 4	**6AV6355-3DA00-0BF6**
WinCC OA – Travel costs journey time Hourly rate for travel time	**6AV6355-3DA00-0BG0**
WinCC OA – Travel costs rental car Fixed price travel allowance for a rental car per day	**6AV6355-3DA00-0BG1**
WinCC OA – Travel costs overnight accom. Fixed price travel allowance for one overnight stay	**6AV6355-3DA00-0BG2**
WinCC OA – Travel costs meals Fixed price for meals for one day	**6AV6355-3DA00-0BG3**
WinCC OA – Travel costs express surcharge Surcharge for trips booked at short notice (less than 5 working days before required travel time)	**6AV6355-3DA00-0BG4**

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Overview

Trade goods include WinCC **O**pen **A**rchitecture components that are purchased and distributed under the name WinCC Open Architecture (WinCC OA).
These include third-party products such as licenses for Oracle DB, as well as hardware dongles, data storage media and certificates.

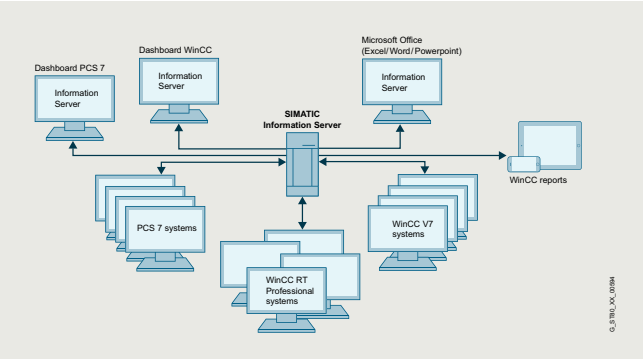
More information about licenses and shipping under "More information".

Selection and ordering data

SIMATIC WinCC Open Architecture Trade goods	
WinCC OA – ORACLE SE2 ASFU Oracle Standard Edition 2 Processor ASFU license including first year maintenance	**6AV6355-4AA00-0AA0**
WinCC OA – ORACLE SE2 ASFU SUS One year maintenance for Oracle Standard Edition 2 processor license ASFU	**6AV6355-4AA00-0AA1**
WinCC OA – ORACLE SE2 FU (full use) Oracle Standard Edition 2 Processor license SE2 full use including first year maintenance	**6AV6355-4AA00-0AA2**
WinCC OA – ORACLE SE2 FU SUS One year maintenance for Oracle Standard Edition 2 processor license full use	**6AV6355-4AA00-0AA3**
WinCC OA Dongle USB hardware dongle for dongle-bound licenses.	
• WinCC OA – Dongle Standard	**6AV6355-4BA00-0AB0**
• WinCC OA – Dongle Standard Micro	**6AV6355-4BA00-0AB1**
• WinCC OA – Dongle (Wibukey, outdated)	**6AV6355-4BA00-0AB2**
WinCC OA – Express delivery Flat fee for express delivery of WinCC OA Trade goods	**6AV6355-4BA00-0AB5**

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Overview



Information Server 2014 SP3

Information Server 2014 SP3 is an open, web-based reporting system for interactive areas.
Reports can be used in Internet Explorer, Excel, Word or PowerPoint, as well as for Adobe Reader (PDF).
The SIMATIC Information Server has access to archived process values and messages, and can be used either directly in conjunction with WinCC / WinCC/RT Professional / PCS 7 OS or with Process Historian 2014 SP3.

- Access to archived process values and messages from WinCC V7/V8, WinCC RT Professional and WinCC/PerformanceMonitor according to compatibility specifications
- Process Historian 2014 SP3
- Open reporting system with report templates in RDL or Excel format
- Through add-ins for Microsoft Office environments, direct access to the archived data of the Process Historian or WinCC can be easily established.
- Reports can be integrated directly in Word and Excel, thus greatly simplifying work steps.
- Process values can be displayed in tabular or graphic form depending on various filter functions
- Support of subscriptions for a cyclical or event-driven report generation, including sending of emails
- Web-based parameter assignment of the report templates
- Use of the standard tools MS Excel, MS Word and MS PowerPoint for individual report templates
- Reporting system based on MS Reporting Services for more complex individual report templates
- Can be used for HTML5-enabled tablet PCs larger than 10.5"
- Automatic cyclic and event-based reporting (PDF, Excel, Word, PowerPoint)
- Central storage and automatic transmission of reports created by email
- Data security thanks to access protection, user administration, SSL encryption and SMTP authentication

Overview (continued)

Licenses

- Basic Packages include the program software as well as three client access licenses and a data source license. This gives access to one data source for up to three clients.
- The number of simultaneous client access operations can be incremented at any time using Information Server client access licenses.
- Additional data sources can be integrated at any time using additive data source licenses.

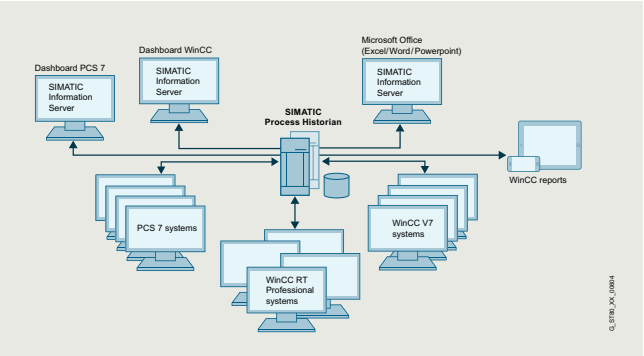
You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager here:
www.siemens.com/simatic-licenses

Selection and ordering data

SIMATIC Information Server 2014 SP3 "Basic Package" • Information Server • Information Server - Client access (3) • Information Server - Data source access (1)	**6AV6361-2AA01-4AA0**
As download • Information Server • Information Server - Client access (3) • Information Server - Data source access (1)	**6AV6361-2AA01-4AH0**
SIMATIC Information Server Client and data source license, version-independent	
• 1 Client access	**6AV6361-2BD00-0AD0**
• 3 Client access	**6AV6361-2BE00-0AD0**
• 5 Client access	**6AV6361-2BF00-0AD0**
• 10 Client access	**6AV6361-2BG00-0AD0**
• 1 Data source access	**6AV6361-2CD00-0AD0**
• 3 Data source access	**6AV6361-2CE00-0AD0**
As download	
• 1 Client access	**6AV6361-2BD00-0AJ0**
• 3 Client access	**6AV6361-2BE00-0AJ0**
• 5 Client access	**6AV6361-2BF00-0AJ0**
• 10 Client access	**6AV6361-2BG00-0AJ0**
• 1 Data source access	**6AV6361-2CD00-0AJ0**
• 3 Data source access	**6AV6361-2CE00-0AJ0**
Upgrade	
Upgrade Information Server 2013 to Information Server 2014 SP3	**6AV6361-2AA01-4AE0**
As download	
Upgrade Information Server 2013 to Information Server 2014 SP3	**6AV6361-2AA01-4AK0**

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Overview



SIMATIC Process Historian

The Process Historian is a high-performance, long-term archiving server solution that stores WinCC process values and messages in a central database. The system offers full scalability for performance and scope: It records and stores data from one or more WinCC, WinCC RT Professional and PCS 7 projects.
The number of connected single stations, servers, or redundant server pairs is unrestricted. SIMATIC Process Historian is designed for use throughout your plant, and is positioned below the corporate management level (ERP, MES).

The SIMATIC Information Server is used as a reporting system for the Process Historian. It accesses the central database of the Process Historian and visualizes the data in clear, user-friendly displays on WinCC stations or office PCs. The central Process Historian database provides access to real-time data throughout the plant.
This data is the key to sustainable plant optimization measures. Since the archive system can be fully integrated, no additional engineering is required. SIMATIC Process Historian uses the integrated relational database, SQL Server from Microsoft®. No complex reconfiguration is needed because the archive system is integrated into WinCC. Selected WinCC process values or messages are archived long-term on a time or event-driven basis.

The Process Historian is used for the long-term archiving of process values and messages.

SIMATIC Process Historian 2014 SP3

- Central, plant-wide long-term archive as corporate information hub
- Real-time archiving of process values and messages from WinCC V7/V8, WinCC RT Professional and WinCC/PerformanceMonitor according to compatibility specifications
- High performance with very large data volumes
- Data access via OPC UA Server
- Migration support for data migration from WinCC/ Storage plus, CAS Storage plus and WinCC segments.
- High availability thanks to redundancy concept with observer/witness server for increasing data security
- High degree of security due to integrated, complete backup and restore of all segments (Disaster Recovery)
- Enhanced data security through store and forward mechanism
- Scalable without breaks in production
- Maximum data transparency
- High degree of security thanks to integrated backup system
- Simple and fast management and diagnostics with the Process Historian Management "Dashboard"
- Batch functionality in accordance with PCS 7 specifications

Overview (continued)

Licenses

- The Basic Package includes the runtime software and the single license for one installation.
- The SIMATIC Process Historian supports archiving of any amount of data.
  The archive data is licensed at the data source, for example, in WinCC systems (archive tags for WinCC V7 or logging tags of WinCC Logging for WinCC Professional RT).
- The redundancy package is required for the redundant Process Historian; existing Basic Package installations can be converted with the redundancy option.
- The OPC UA interface needs a separate license.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager here:
www.siemens.com/simatic-licenses

Selection and ordering data

SIMATIC Process Historian 2014 SP3	
• Basic Package, single license Contents: Set (1x DVD + 1x USB)	**6AV6361-1AA01-4AA0**
• Redundancy Package, single license (Redundancy Complete) for 2 installations 2 x Process Historian Server 2 x Process Historian Server Redundancy contents: Set (1x DVD + 1x USB)	**6AV6361-1BA01-4AA0**
• Redundancy for BSC PCK, single license, license key on USB flash drive	**6AV6361-1CA00-0AD0**
As download Email address essential for delivery	
• Basic Package, single license, license key download	**6AV6361-1AA01-4AH0**
• Redundancy Package, single license (Redundancy Complete) for 2 installations 2 x Process Historian Server 2 x Process Historian Server Redundancy, license key download	**6AV6361-1BA01-4AH0**
• Redundancy for BSC PCK, single license, license key download	**6AV6361-1CA00-0AJ0**
Process Historian OPC UA Server	
• Runtime software, single license, license key on USB flash drive	**6AV6361-1HA01-4AB0**
• Runtime software, single license, SW and license key download, Email address essential for delivery	**6AV6361-1HA01-4AJ0**
Upgrades	
Upgrade of CAS (Central Archive Server)	
Upgrade of CAS V7.0 SP3 or Process Historian 2013 to Process Historian 2014 SP3	
• SW and documentation on DVD; license key on USB flash drive, contents: Set (1x DVD + 1x USB)	**6AV6361-1AA01-4AE0**
• SW and license key download, email address essential for delivery	**6AV6361-1AA01-4AK0**
SIMATIC WinCC/CAS Upgrade Central Archive Server V6.2-> V7.0 SP3	
• Upgrade from CAS V6.2 to V7.0 SP3	**6AV6371-1DQ17-0XX3**
• Upgrade from CAS V6.2 ASIA to V7.0 SP3 ASIA	**6AV6371-1DQ17-0XV3**

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Overview

WinCC IndustrialDataBridge

- The WinCC IndustrialDataBridge option uses standard interfaces in order to connect the automation world with the world of IT and to ensure a two-way information flow.
- Using the SIMATIC WinCC IndustrialDataBridge, communication links between different data sources and data targets can be created by means of simple configuration/parameter assignment. The IndustrialDataBridge can either be integrated into WinCC or used as a stand-alone application (not in conjunction with WinCC).
- Its use is very flexible, due to the support of different database formats and standard interfaces. On top of this, it offers easy configuration instead of programming, which permits fast and secure deployment.
- Data sources for WinCC IndustrialDataBridge can include WinCC Runtime Professional (V13 SP1 or higher).

Licenses

- WinCC/IDB basic license for 100 tags (connections between data points corresponds to one tag)
- Depending on the amount of data, the number of IDB tags can be increased through additive PowerPacks
- The licenses are additive for the number of connections as of version 7.4 (countable).

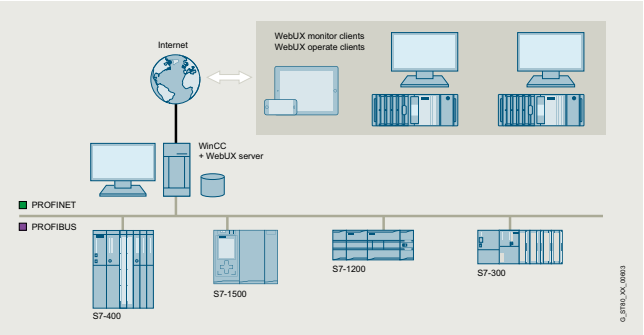
Additional information is available on the Software Update Service, license types, online software delivery and handling your software licenses with the Automation License Manager here:
http://www.siemens.com/simatic-licenses

Selection and ordering data

SIMATIC WinCC IndustrialDataBridge 8.1 for WinCC	
For data exchange with databases and OPC servers; language versions: English, German, Simplified Chinese, Japanese	
• Basic package	**6AV6362-4AA08-1AA0**
• With 300 tags (countable)	**6AV6362-4AD00-0BB0**
• With 1 000 tags (countable)	**6AV6362-4AF00-0BB0**
• With 3 000 tags (countable)	**6AV6362-4AH00-0BB0**
As download	
• Basic package	**6AV6362-4AA08-1AH0**
• With 300 tags (countable)	**6AV6362-4AD00-0AH0**
• With 1 000 tags (countable)	**6AV6362-4AF00-0AH0**
• With 3 000 tags (countable)	**6AV6362-4AH00-0AH0**
SIMATIC WinCC IndustrialDataBridge 7.5 for WinCC	
For data exchange with databases and OPC servers; language versions: English, German, Simplified Chinese, Japanese	
• Basic package	**6AV6362-4AA07-5AA0**
• With 300 tags (countable)	**6AV6362-4AD00-0BB0**
• With 1 000 tags (countable)	**6AV6362-4AF00-0BB0**
• With 3 000 tags (countable)	**6AV6362-4AH00-0BB0**
As download	
• Basic package	**6AV6362-4AA07-5AH0**
• With 300 tags (countable)	**6AV6362-4AD00-0AH0**
• With 1 000 tags (countable)	**6AV6362-4AF00-0AH0**
• With 3 000 tags (countable)	**6AV6362-4AH00-0AH0**
SIMATIC WinCC IndustrialDataBridge upgrade	
• From V7.4/V7.5 to V8.1	**6AV6362-4AA08-1AE0**
• From V8.0 to V8.1	**6AV6362-4AA08-1AE1**
As download	
• From V7.4/V7.5 to V8.1	**6AV6362-4AA08-1AK0**
• From V8.0 to V8.1	**6AV6362-4AA08-1AK1**

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Overview



WinCC WebUX

The WinCC WebUX option permits mobile, platform and browser-independent operator control and monitoring via the Internet or the in-house intranet or LAN.

WinCC WebUX is delivered with the WinCC system. Following installation, the WinCC Runtime system operates as WinCC WebUX server.

The images for the WinCC WebUX are created using the graphic editor. The WinCC picture is stored in the corresponding format in the project through the "web-capable" picture property. Using the service platform IIS (Internet Information Server), the files are made available for the Internet.

No installation on the client is required for using the WebUX. WinCC WebUX can be used independent of the industrial sector, for example in service for the acknowledgment of alarm messages, in quality assurance for monitoring important production data, or in management for obtaining a quick overview of key production figures.

The WebUX server itself does not require a basic license. Clients that are simultaneously logged into the server are licensed. Regarding licensing, it is differentiated between Monitor Clients (read only) and Operate Clients (reading and writing of values). WinCC WebUX can be used immediately due to a free Monitor Client that is included in the WinCC package.

Licenses

- A (server-based) license is required to use the WebUX server. This is a graduated license based on the number of simultaneous web access operations and can be incremented at any time.
- We distinguish between Monitor and Operate Clients for licensing purposes.
- Flexible number of clients thanks to additive (countable) licenses (floating client)
- The WinCC/WebUX and WinCC/WebNavigator licenses can be combined, if necessary.
- The WinCC server version and version of the mobile clients do not have to be the same
- One free Monitor Client in the WinCC system

You can find more information on the Software Update Service, license types, online software delivery and handling your SW licenses with the Automation License Manager here:
http://www.siemens.com/simatic-licenses

Selection and ordering data

SIMATIC WinCC WebUX	
Monitor clients:	
• 1 client (countable)	**6AV6362-2AB00-0BB0**
• 3 clients (countable)	**6AV6362-2AD00-0BB0**
• 10 clients (countable)	**6AV6362-2AF00-0BB0**
• 30 clients (countable)	**6AV6362-2AJ00-0BB0**
• 100 clients (countable)	**6AV6362-2AM00-0BB0**
• Unlimited clients	**6AV6362-2AU00-0BB0**
As download	
• 1 client (countable)	**6AV6362-2AB00-0AH0**
• 3 clients (countable)	**6AV6362-2AD00-0AH0**
• 10 clients (countable)	**6AV6362-2AF00-0AH0**
• 30 clients (countable)	**6AV6362-2AJ00-0AH0**
• 100 clients (countable)	**6AV6362-2AM00-0AH0**
• Unlimited clients	**6AV6362-2AU00-0AH0**
Operate clients	
• 1 client (countable)	**6AV6362-2BB00-0BB0**
• 3 clients (countable)	**6AV6362-2BD00-0BB0**
• 10 clients (countable)	**6AV6362-2BF00-0BB0**
• 30 clients (countable)	**6AV6362-2BJ00-0BB0**
• 100 clients (countable)	**6AV6362-2BM00-0BB0**
• Unlimited clients (WebNav+WebUX Operate)	**6AV6362-1AU00-0BB0**
As download	
• 1 client (countable)	**6AV6362-2BB00-0AH0**
• 3 clients (countable)	**6AV6362-2BD00-0AH0**
• 10 clients (countable)	**6AV6362-2BF00-0AH0**
• 30 clients (countable)	**6AV6362-2BJ00-0AH0**
• 100 clients (countable)	**6AV6362-2BM00-0AH0**
• Unlimited clients (WebNav+WebUX Operate)	**6AV6362-1AU00-0AH0**

Note:

The licenses are cumulative, i.e. one 10-client license and one 30-client license permit access by 40 clients.

Operate licenses can be used as Monitor licenses as of V14/V7.4.

Licenses from V7.3 can continue to be used in V7.4 without upgrading.

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Overview

The course for the industrial world of tomorrow is already being set today. With SIMATIC SCADA, you are choosing a system with a future.

SIMATIC SCADA is today already ideally equipped for the requirements of tomorrow, because the challenges facing SCADA solutions are continually growing. Enormous data volumes have to be managed and archived for the long term, while at the same time being available for flexible access at all times.
As a key to greater productivity, SIMATIC SCADA systems combine efficient engineering with high-performance archiving and maximum data security. These features provide the basis for efficient operations management and intelligent production analyses.

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Overview



WinCC Premium Add-ons

With the proven WinCC Premium Add-ons based on the SCADA software SIMATIC WinCC, Siemens offers a modularly expandable, complete solution for the optimum interaction of processes in production, quality assurance, maintenance and system integration. The products respond to a broad spectrum of today's challenges in digitalization and are consistently directed towards comprehensive and economical solutions based on standard software components.

The following Premium Add-ons are available:

- PM-CONTROL
  is a cross-industry recipe system for user-friendly creation and management of recipes with integrated order control
- PM-QUALITY
  is a modular and sector-independent archive system for order-related or batch-related acquisition of process and production data
- PM-ANALYZE
  is used for locating sources of error or vulnerabilities in plants by analyzing messages and process values
- PM-MAINT
  is a sector and technology-neutral maintenance system for use in preventive maintenance.
- PM-MES Interface
  is a bidirectional communications interface between PM-CONTROL, PM-QUALITY and MES systems
- PM-LOGON
  offers the operator a convenient and fast logon to the operating system using a company ID card via a card reader
- PM-OPEN EXPORT
  offers a flexible, low-cost solution for exporting current process data and archive data from WinCC into freely formatted text files
- PM-OPEN IMPORT
  enables the WinCC flexible archives to be automatically read into the WinCC system
- PM-OPEN MINDCONNECT
  allows transparent access to production reports created by PM-QUALITY and/or PM-ANALYZE via the MindSphere app
- PM-AGENT
  enables the connection of several WinCC systems to the PM-products
- UNIVERSAL PM-PACKAGE
  in combination with a supplementary agreement, provides a cost-effective way to always work with the latest versions of the PM-products for testing and configuration purposes and is therefore aimed exclusively at resellers of PM-products and OEMs
- COPYPROJECT
  is used to duplicate a complete WinCC V7 project including all Runtime archive databases during runtime

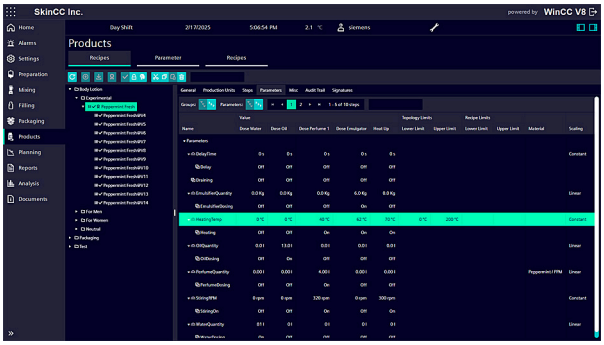
Overview (continued)

- PM-GRID CONTROL
  enables display of data from different sources and is used wherever the flexible display of tables within the WinCC Runtime environment is required

For more detailed information, see SCADA software.

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Overview



Production rules, recipes or parameter data records are required as specifications for production in a wide variety of industries; they must be managed in a high-performance database, monitored for changes and clearly presented. These specifications result in production orders which are used to plan the production sequence.

With PM-CONTROL, the user has flexible parameter control at his disposal, with an operator interface that can be seamlessly integrated into the WinCC user interface.

Parameters of different types are saved in data records as recipes. The logging of recipe changes in an Audit Trail, the support of single or duplicate electronic signatures and the automatic versioning of recipe data records make PM-CONTROL an ideal tool in the regulated industry. Integrated backup configurations provide the option of triggering an automatic backup of the databases either cyclically or via application events – such as a change in recipes. Using the restore options, the backups created in this way can then be restored if required.

PM-CONTROL is equipped for complex tasks with automatic scaling of quantities, dynamic calculation of recipe values combined with convenient order scheduling and including automatic transfer of scheduled orders to the production units.

Enhancements such as the graphic planning board for order display, the rule-based check of recipe parameters as well as the option for creating a completely customized recipe editor continue the trend toward more user-friendliness, transparency and flexibility. The openness of PM-CONTROL enables problem-free connection to higher-level host systems (e.g. PPC systems) at the plant and production management level.

Customized for simple use cases with manual retrieval of recipes from the recipe database, PM-CONTROL is offered in a compact variant.

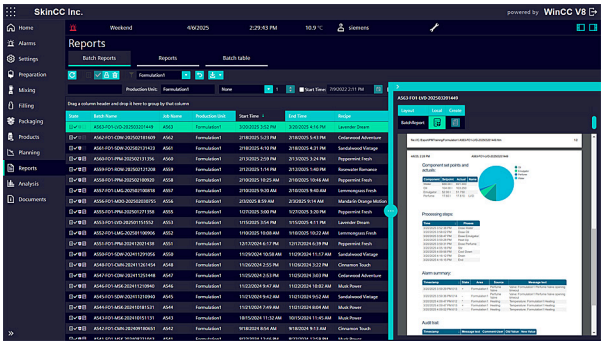
Selection and ordering data

PM-CONTROL system software Type S "Compact" version Single-user/multi-user system server that runs on interconnected WinCC system and comprises a topology manager, recipe system, and ActiveX Control for recipe preselection (several autonomous production units)	**9AE7110-2SS10-1AA0**
PM-CONTROL system software Type S "Standard" version Single-user/multi-user system server that runs on interconnected WinCC system and comprises a topology manager, recipe system, and order control (one production unit)	**9AE7110-2SS20-1AA0**
PM-CONTROL system software Type S "Professional" version Single-user/multi-user system server that runs on interconnected WinCC system and comprises a topology manager, recipe system, and order control (several autonomous and interlinked production units)	**9AE7110-2SS30-1AA0**
PM-CONTROL system software Type C Multi-user system client that runs with Type S system package (Compact, Standard, Professional) on an interconnected WinCC system or as installable client (without WinCC) with a recipe system and order control	**9AE7110-4SC03-1AA0**
PM-CONTROL system software Type C with WinCC Unified Multi-user system client Runs with system package Type S (Compact, Standard, Professional) in connection with WinCC Unified or WinCC V8, licenses can be cumulated. License for:	
• 1 Unified Client	**9AE7110-4SW00-1AA0**
• 3 Unified Clients	**9AE7110-4SW00-1AA1**
• 10 Unified Clients	**9AE7110-4SW00-1AA2**
• 30 Unified Clients	**9AE7110-4SW00-1AA3**
• 100 Unified Clients	**9AE7110-4SW00-1AA4**
Upgrade packages for Type S system package	
• Upgrade from Standard to Professional	**9AE7 110-0SH11-0AA0**
• Upgrade from Compact to Professional	**9AE7 110-0SH21-0AA0**
Upgrades	
Upgrade package from V11 to V12	
• For system package Type S	**9AE7110-4SU01-8AA3**
• For system package Type C	**9AE7110-4SU02-8AA3**
Upgrade package from V08...10 to V12	
• For system package Type S	**9AE7110-4SU03-8AA3**
• For system package Type C	**9AE7110-4SU04-8AA3**

Note:
Additional PM-CONTROL configurations available on request

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Overview



The proof of quality in the form of a manufacturing report, which is obligatory for FDA-regulated industries, is now a standard requirement in almost all industries.

The strengths of PM-QUALITY are the core functions of a comprehensive quality management system such as the complete acquisition, preparation and archiving of batch-related data such as trend curves, messages, production setpoint and actual values, audit trails and laboratory values.

Data from WinCC, PCS 7, WinCC Unified, WinCC RT Professional, WinCC RT, via text import, OPC/UA and OPC/DA can be combined from various sources, compiled into meaningful reports, and archived over a long period. PM-QUALITY ensures the required transparency, both if seamlessly integrated into the WinCC user screens and as a separate office application. The trend display, which can compare data from multiple batches, combined with the overlay of additional information such as alarms, event-driven measured values, process phase transitions, and comments, forms a powerful analysis tool with perfect usability. The integrated backup configurations provide the option of triggering an automatic backup of the databases either cyclically or via application events – such as saving the topology. Using the restore options, the backups created in this way can then be restored if required.

The processing of measured values with the aid of graphical calculation rules, the integration of day, week and shift logs with an integrated shift calendar, and the creating of reports in Microsoft Excel are consistent expansions of the proven functionality of PM-QUALITY.

Selection and ordering data

PM-QUALITY system software Type S "Standard" version Single-user/multi-user system server that runs on an interconnected WinCC system for one production unit	**9AE7111-2SS20-1AA0**
PM-QUALITY system software Type S "Professional" version without Data Center Single-user/multi-user system server that runs on an interconnected WinCC system for multiple autonomous and interlinked production units.	**9AE7111-2SS30-1AA0**
PM-QUALITY system software Type S "Professional" version with Data Center For data redundancy synchronization. The system package is to be installed on both redundant computers.	**9AE7111-2SS30-1BA0**
PM-QUALITY system software Type C Multi-user system client Runs with the Type S system package on an interconnected WinCC system or as installable Client (without WinCC)	**9AE7111-4SC01-1AA0**
PM-QUALITY system software Type C with WinCC Unified Multi-user system client, runs with WinCC Unified or WinCC V8, licenses can be cumulated. License for:	
• 1 Unified Client	**9AE7111-4SW00-1AA0**
• 3 Unified Clients	**9AE7111-4SW00-1AA1**
• 10 Unified Clients	**9AE7111-4SW00-1AA2**
• 30 Unified Clients	**9AE7111-4SW00-1AA3**
• 100 Unified Clients	**9AE7111-4SW00-1AA4**
Upgrade packages for Type S system package	
• Upgrade from Standard to Professional	**9AE7111-0SH11-0AA0**
• Upgrade from Professional without Data Center to Professional with Data Center	**9AE7111-0SH11-0BA0**
Upgrades	
Upgrade package from V10 to V11	
• For system package Type S	**9AE7111-4SU01-8AA2**
• For system package Type C	**9AE7111-4SU02-8AA2**
Upgrade package from V7..9 to V11	
• For system package Type S	**9AE7111-4SU03-8AA2**
• For system package Type C	**9AE7111-4SU04-8AA2**

Note:
Additional PM-QUALITY configurations available on request.

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Overview



PM-ANALYZE

Recorded process values as well as hardware interrupts, fault, status and operation messages from various sources contain a wealth of information which often only becomes visible by means of computer-aided analysis. Reduced downtime and maintenance times, early detection of signs of wear and tear, localization of error sources or weak points are just a few examples. Problems in the production plant are signaled by alarms which are the starting point for evaluations and analyses with PM-ANALYZE.

PM-ANALYZE not only enables chronological display of process values and messages from different sources, but also offers an optimal overview with its convenient filters and analysis options, even with large amounts of data.

The process values represent the basis for the analysis and optimization of the production process. The extensive selection of charts for mapping the process values in PM-ANALYZE offers new perspectives for the representation and analysis of the production process. Problems in the production plant are signaled by alarms. Convenient filter settings limit the message display to the essential information.

One particular strength of PM-ANALYZE is simultaneous display of charts and messages in a single workspace. Alarms in tables and in statistical evaluations parallel to process values in charts show the spectrum of production data at a glance. Workspaces can either be integrated directly into process pictures or displayed and evaluated using a separate client application.

In addition, analysis events can be transferred directly to Microsoft Excel for further processing. This enables reports to be generated via Microsoft Excel, for example, where a report is generated daily and filled with data. Manual input forms can be used to add manual and laboratory values.

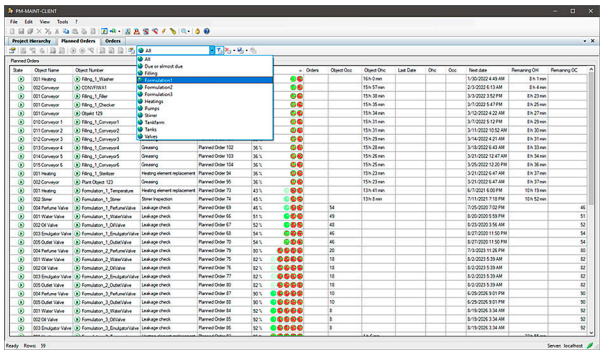
Selection and ordering data

PM-ANALYZE Type S system software Single-user/multi-user system server that runs on an interconnected WinCC system	**9AE7112-1SS01-1AA0**
PM-ANALYZE Type C system software Multi-user system client that runs with system package Type S on an interconnected WinCC system or as thin client (without WinCC)	**9AE7112-4SC01-1AA0**
PM-ANALYZE Type C system software with WinCC Unified Multi-user system client runs with WinCC Unified or WinCC V8, licenses can be cumulated. License for:	
• 1 Unified Client	**9AE7 112-4SW00-1AA0**
• 3 Unified Clients	**9AE7 112-4SW00-1AA1**
• 10 Unified Clients	**9AE7 112-4SW00-1AA2**
• 30 Unified Clients	**9AE7 112-4SW00-1AA3**
• 100 Unified Clients	**9AE7 112-4SW00-1AA4**
Upgrade package for upgrading the system software from V9 to V10	
• Upgrade for system package Type S	**9AE7112-4SU01-8AA0**
• Upgrade for system package Type C	**9AE7112-4SU02-8AA0**
Upgrade package for upgrading the system software from V7/V8 to V10	
• Upgrade for system package Type S	**9AE7112-4SU03-8AA0**
• Upgrade for system package Type C	**9AE7112-4SU04-8AA0**

Note:
Additional PM-ANALYZE configurations available on request.

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Overview



PM-MAINT

Efficient maintenance planning is of crucial importance to ensure and maintain the maximum availability of a plant.

PM-MAINT is a maintenance management system for all industries and is designed for use on the production level.
By providing various connection options to the existing automation landscape, PM-MAINT enables performance-based planning that is based on real machine runtimes and machining cycles in addition to purely calendar-based planning.

PM-MAINT supports maintenance in the recording and complete documentation of unplanned repairs by means of easy and comprehensible work sequences with a high level of user-friendliness.

Maintenance information calculated by PM-MAINT, such as recommended maintenance dates, can be displayed in the existing HMI user interface for the respective aggregates. Repair requests can easily be created directly by the machine operator.

All operator actions are recorded in a log and can be traced at any time.

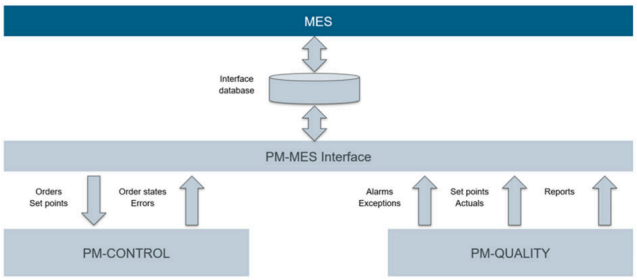
Selection and ordering data

PM-MAINT Type S system software Single-user/multi-user system server that runs on an interconnected WinCC system	**9AE7104-2SS30-1AA0**
PM-MAINT Type C system software Multi-user system client that runs with system package Type S on an interconnected WinCC system or as Thin Client (without WinCC)	**9AE7104-4SC00-1AA0**
Upgrades	
Upgrade from V9 to V10	
• For system package Type S	**9AE7104-4SU01-8AA2**
• For system package Type C	**9AE7104-4SU02-8AA2**
Upgrade from V8 to V10	
• For system package Type S	**9AE7104-4SU03-8AA2**
• For system package Type C	**9AE7104-4SU04-8AA2**

Note:
Additional PM-MAINT configurations available on request.

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Overview



PM-MES Interface

The PM-MES interface enables seamless integration of the SCADA level with MES systems. It builds on the functionality of PM-CONTROL and PM-QUALITY to create a standardized API layer that can be used from the MES side without the need to create custom scripts on the SCADA side.

The PM-MES interface is a bidirectional communications interface between PM-CONTROL, PM-QUALITY and MES systems. Communication is implemented via a Microsoft SQL Server interface database.

Selection and ordering data

PM-MES Interface Single-user / multi-user system, can be run in conjunction with PM-CONTROL and PM-QUALITY	**9AE7110-2SX30-1AA0**

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Overview

PM-LOGON

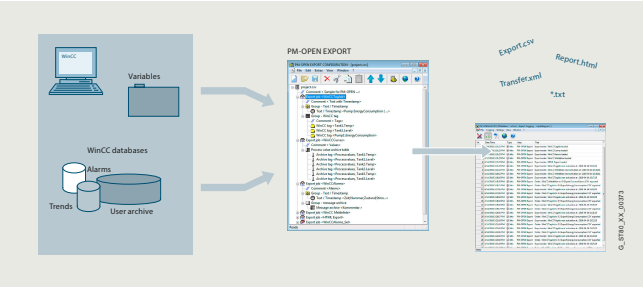
The PM-LOGON software product offers the operator a user-friendly and fast logon to the operating system with the company ID card via a card reader. PM-LOGON assigns an RFID card to an operator and logs the operator on to the target system as soon as the operator's RFID card enters the reader field of the connected RFID reader. In this way, PM-LOGON automates manual entry of user name and password at the target system.

Selection and ordering data

PM-LOGON system software Type S Unified	
Copy protection delivery: dongle incl. key dongle	**9AE7123-1SS00-1AA0**
Copy protection delivery: license file	**9AE7123-1SS00-1AA2**
PM-LOGON system software Type S configurator	
Copy protection delivery: dongle incl. key dongle	**9AE7123-1SS01-1AA0**
Copy protection delivery: license file	**9AE7123-1SS01-1AA2**
PM-LOGON system software Type S server	
Copy protection delivery: dongle incl. key dongle	**9AE7123-1SS02-1AA0**
Copy protection delivery: license file	**9AE7123-1SS02-1AA2**
PM-LOGON system software Type C	
License file for:	
• 10 users	**9AE7123-1SC00-1AA0**
• 50 users	**9AE7123-1SC01-1AA0**
• 100 users	**9AE7123-1SC02-1AA0**
• 500 users	**9AE7123-1SC03-1AA0**
• 1 000 users	**9AE7123-1SC04-1AA0**
• 2 000 users	**9AE7123-1SC05-1AA0**
• 5 000 users	**9AE7123-1SC06-1AA0**
• 10 000 users	**9AE7123-1SC07-1AA0**
PM-LOGON key dongle	**9AE7123-1SS01-1AA1**
Upgrade package for system package Type S	
For upgrading from PM-LOGON configurator to PM-LOGON server	**9AE7123-0SH01-0AA0**
For upgrading from PM-LOGON Unified to PM-LOGON server	**9AE7123-0SH02-0AA0**
Upgrade package	**9AE7123-4SU01-0AA0**

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Overview



PM-OPEN EXPORT

Flexible and low-cost solution, for exporting current process data (tags) and archive data (alarm log, process value log, user log) from WinCC / PCS 7 / WinCC RT Professional (TIA Portal) into freely formatted text files (ASCII, CSV, HTML/XML format).

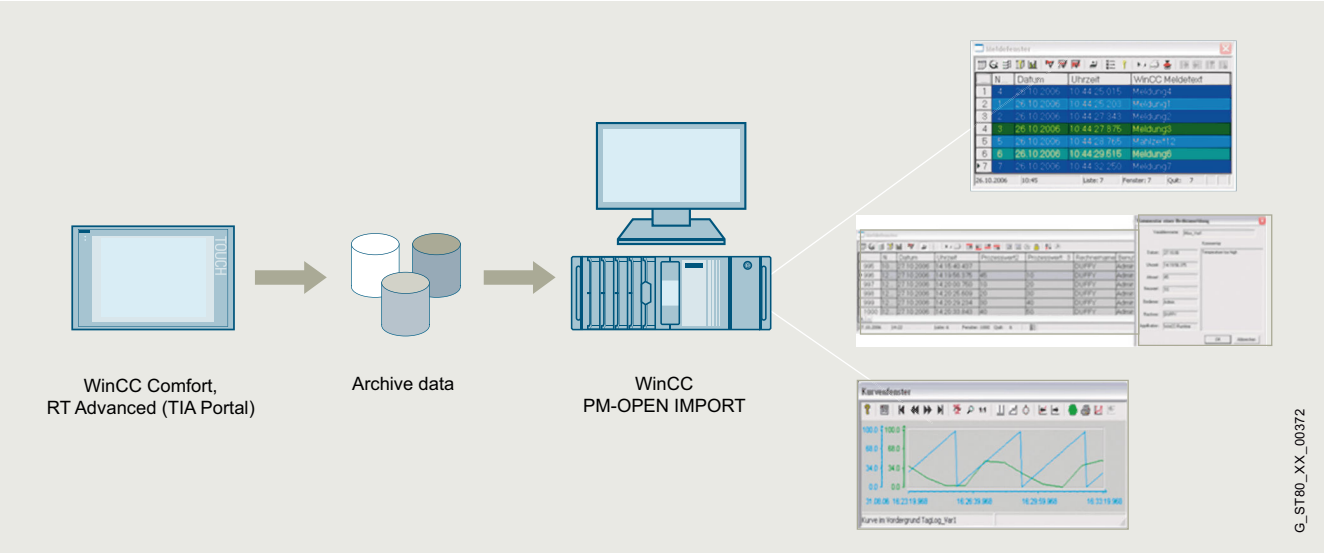
Selection and ordering data

PM-OPEN EXPORT system software	
Single-user system; can run on interconnected WinCC system, supplied as DVD incl. USB dongle	**9AE7106-1SS01-1AA0**
Single-user system; can run on interconnected WinCC system, supplied as download incl. software license	**9AE7106-1SS01-1AA1**
Upgrade package	
Upgrade from V7/V8 to V9	**9AE7106-4SU01-8AA0**

Note:
Additional PM-OPEN EXPORT configurations available on request.

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Overview



Process data (tags and messages) and operator actions (Audit Trail) are archived locally as CSV files on SIMATIC WinCC Comfort Panels or systems with WinCC RT Advanced (TIA Portal). With PM-OPEN IMPORT, this data can be centrally and chronologically compiled on a higher-level system and also be safely saved there in database format for the long term. The original time stamps are, of course, retained when importing the data into the WinCC system. The standard resources of the higher-level WinCC system (WinCC RT Professional (TIA Portal), WinCC, PCS 7) are used for display and evaluation.

With PM-OPEN IMPORT, the requirements for the safe, central and long-term archiving of relevant data in the overall automation landscape (from the panel to the higher-level SCADA system) are satisfied as per the guidelines of the Food and Drug Administration (FDA) 21 CFR Part 11 and the EU directive 178/2002.

Selection and ordering data

PM-OPEN IMPORT system software Single-user system; can run on interconnected WinCC system	**9AE7114-1SS01-1AA0**

Note:
Additional PM-OPEN IMPORT configurations available on request.

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Overview

PM-OPEN MINDCONNECT

PM-OPEN MINDCONNECT automatically and securely uploads production reports generated by PM-QUALITY or PM-ANALYZE into the Siemens MindSphere Cloud. To facilitate this, a communication channel is established between a virtual asset defined in MindSphere and PM-OPEN MINDCONNECT. This enables a fully customizable solution where, for example, the distribution of reports is organized according to plant area, location or other suitable criteria.

Selection and ordering data

PM-OPEN MINDCONNECT Single-user system, running on interconnected WinCC system with PM-ANALYZE or PM-QUALITY	**9AE7124-1SS01-1AA0**

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Overview

PM-AGENT

PM-AGENT Unified is used for communication between PM-QUALITY, PM-CONTROL, PM-MAINT and PM-ANALYZE and the SIMATIC WinCC / RT Professional / Unified / PCS 7 systems. Data from the above systems (tags, messages) can be sent and received.

Selection and ordering data

PM-AGENT	
Single-user station system; runs on interconnected WinCC system	
• Copy protection delivery: Dongle	**9AE7117-2SS01-1AA0**
• Copy protection delivery: License file	**9AE7117-2SS01-1AA1**
Upgrade package	
• Copy protection delivery: Dongle	**9AE7117-4SU01-6AA0**
• Copy protection delivery: License file	**9AE7117-4SU01-6AA1**

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Overview

UNIVERSAL PM-PACKAGE

The UNIVERSAL PM-PACKAGE, in combination with a supplementary agreement, provides a cost-effective way to always work with the latest versions of the PM-products for testing and configuration purposes and is therefore aimed exclusively at resellers of PM-products and OEMs.

Selection and ordering data

UNIVERSAL PM-PACKAGE	9AE7121-1AB01-0AA0

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Overview

COPYPROJECT

COPYPROJECT is used to duplicate a complete WinCC V7 or WinCC V8 project including all runtime archive databases without exiting runtime.

Backups can be made in the background either manually or automatically, e.g. according to a daily schedule, whereby COPYPROJECT dynamically adapts the names of the destination directories to indicate the time of the backup.

Selection and ordering data

COPYPROJECT	
Single-user station system; runs on interconnected WinCC system	
• Sent by email	**9AE7141-2SS01-1AA0**
• Shipped by mail	**9AE7141-2SS01-1AA1**

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Overview

PM-GRID CONTROL

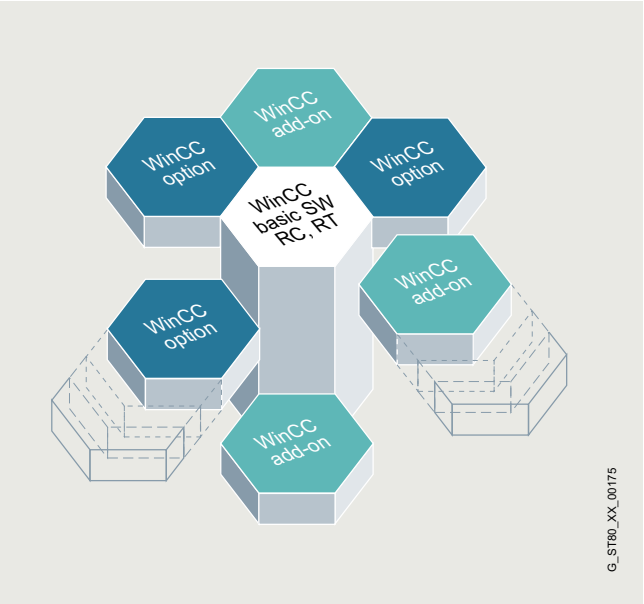
PM-GRID CONTROL enables display of data from different sources and is used wherever the flexible display of tables within the WinCC Runtime environment is required

Selection and ordering data

PM-GRID CONTROL Single station system; can run on interconnected WinCC system	**9AE7141-2SS03-1AA0**

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Overview



WinCC Premium Add-ons – Solutions for all sectors and technologies

The basic system is designed to be independent of any specific technology or industrial sector, to be modular and flexibly expandable and to permit not only simple single-user applications in mechanical engineering, but also complex multi-user solutions or even distributed systems with several servers and clients in plant engineering. WinCC Premium Add-ons are supplementary products that have been created by competent partners working in the specific sectors and technologies and represent interesting expansions for WinCC.

WinCC Premium Add-ons are not DF (Siemens) products, but the products of partners who are committed to complying with certain quality features and boundary conditions. The Premium Add-ons are checked, for example, in the Siemens Test Center for their compatibility with the basic WinCC system and supported in the first instance by the central hotline. As they are important application- and sector-specific add-on products for SIMATIC WinCC, they are marketed jointly by Siemens and the respective add-on suppliers. The WinCC Premium Add-on products can be found on the Internet (see More information) and in the "Online WinCC Premium Add-on Catalog".

Premium Add-ons for Connectivity:

- **PM-OPEN IMPORT system software**
  enables the WinCC flexible archives to be automatically read into the WinCC system.
- **PM-OPEN EXPORT system software**
  offers a flexible, low-cost solution for exporting current process data and archive data from WinCC into freely formatted text files.
- **PM-OPEN MINDCONNECT**
  allows transparent access to production reports created by PM-QUALITY and/or PM-ANALYZE via the MindSphere app.
- **TOP Server**
  is a proven OPC data integration platform with a large number of OPC device drivers.
- **TOP Server UCON**
  enables separate OPC device drivers to be created by Point-Click configuration.

Overview (continued)

Premium Add-on for process management:

- **PM-ANALYZE**
  is used for locating sources of error or weak spots in plants by analyzing messages and process values.
- **PM-CONTROL system software**
  is a cross-industry recipe system for user-friendly creation and management of recipes with integrated order control.
- **PM-QUALITY system software**
  is a modular and sector-independent archive system for order-related or batch-related acquisition of process and production data.
- **PM-MES Interface**
  configurable bi-directional interface between WinCC in combination with PM-CONTROL/PM-QUALITY and MES systems for cost-effective implementation of vertical integration solutions without programming workload.

Premium Add-on for sector products:

- **ACRON 7 for WinCC**
  is used for long-term archiving and logging of process data for small to medium-sized plants, specifically in the water supply and treatment industry.
- **Sm@rtlib function library**
  provides function blocks for S7-300/400 as well as faceplates and icons for WinCC and WinCC flexible from the areas of process industry, HVAC, pharmaceuticals and energy.

Premium Add-on for configuration tools:

- **DCC TranslationEditor**
  for the efficient, secure translation of multilingual visualizations with in-built features for quality assurance.

Premium Add-on for diagnostics and maintenance:

- **ACC Alarm Management System**
  enables messages to be passed from the visualization system to mobile radio call receivers, such as cell phones or pagers, etc.
- **PM-MAINT system software**
  is a sector and technology-neutral maintenance system for use in preventive maintenance.

Competent partners

With SIMATIC WinCC, you not only get excellent products to suit your requirements, but we will also support you with selecting a partner for your automation solution. In our global network of Siemens Automation Solution Providers you will always find competent contacts in your area. In addition, Siemens-internal WinCC Competence Centers and WinCC specialists support external system integrators with WinCC customer and industry-specific implementation of efficient solutions.

WinCC Competence Centers

Mannheim: Process management

- Sector-independent solutions and products in the fields of production, environment, maintenance and diagnostics
- Connectivity tools, system integration, connection to SAP R/3
- Support of FDA validation and WinCC ODK

Stuttgart: Production technology

- Solutions for maintenance management
- Alarm management

Plano, Texas (USA)

Migration of FactoryLink to SIMATIC WinCC

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Overview (continued)

- Support for customers with migration projects
- Optimization of automated migration tools
- Support for FactoryLink customers with CSS contracts

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Overview

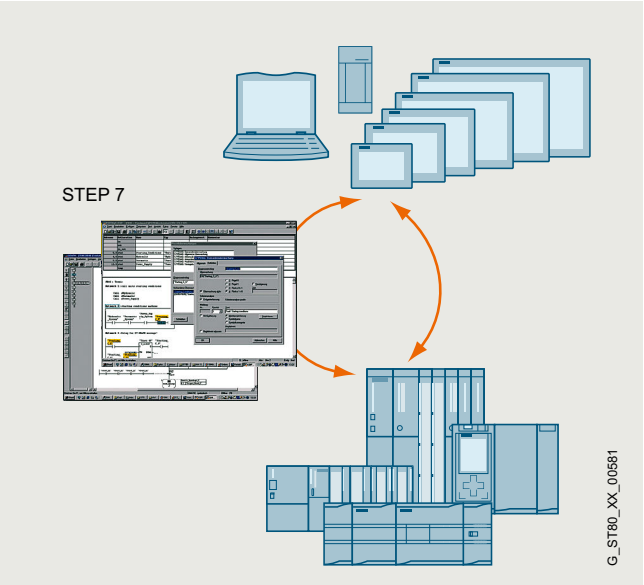
SIMATIC ProAgent

The software options package for fast, targeted process fault diagnosis that

- provides plant and machine personnel with optimized support with troubleshooting and fault rectification,
- increases the plant availability, and
- reduces downtimes.

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Overview



- Process diagnosis software for quick and precise diagnosis of faults/errors in plants and machines for SIMATIC S7-300/S7-400 and SIMATIC HMI
- Standardized diagnostics concept for various SIMATIC components: optimum interaction of STEP 7 engineering tools and SIMATIC HMI
- Standardized user interface

Licensing

Runtime software, one license is required for each piece of target hardware.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at this link

Selection and ordering data

SIMATIC WinCC/ProAgent	
Software option package for process diagnosis based on S7-GRAPH from V5 and S7-PDIAG from V5; functional enhancement for SIMATIC WinCC; electronic documentation in English, French, German	
WinCC version:	
• V8.1[1)]	**6AV6371-1DG08-1AX0**
• V7.5[1)]	**6AV6371-1DG07-5AX0**
As download	
• V8.11)	**6AV6371-1HG08-1AX0**
• V7.5[1)]	**6AV6371-1HG07-5AX0**
Upgrade	
• V8.0 to V8.1[1)]	**6AV6371-1DG08-1AX4**
• V7.4/V7.5 to V8.1[1)]	**6AV6371-1DG08-1AX3**
As download	
• V8.0 to V8.1[1)]	**6AV6371-1KG08-1AX4**
• V7.4/V7.5 to V8.1[1)]	**6AV6371-1KG08-1AX3**

1) Not multi-station-capable

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Overview

SIMATIC Unified Air takes interaction with SIMATIC HMI Unified Comfort Panels to a new level.

With version 3.0, SIMATIC Unified Air introduces Access Key authentication - a modern, token-based authentication mechanism specifically designed for service and maintenance scenarios where flexibility, security and speed are critical. This transforms Unified Air from a biometric authentication tool into a powerful mobile companion app for HMI Unified Comfort Panel with the following features:

- Authentication via biometric sensors
- Create and download HMI reports
- Capture and save HMI screenshots
- Access to device information
- Secure, token-based authentication (access keys) with time-limited access with automatic expiration

To use these functions, install the **SIMATIC Unified Air app** on a mobile end device (iOS or Android) and connect it to the Unified Comfort Panel via **Bluetooth Low Energy**.

Note: All mobile devices must be registered in advance.

Requirements:

- SIMATIC HMI Unified Comfort Panels
  - For Unified Air V1.0: Version 19 Update 1 or higher
  - For Unified Air V2.0: Version 20 Update 2 or higher
  - For Unified Air V3.0: Version 21 Update 1 or higher
- SIMATIC RF1000 Readers as Bluetooth dongles (additional software required)
- Mobile end device (iOS or Android)

Licensing

- One SIMATIC Unified Air license per HMI Unified Comfort Panel.

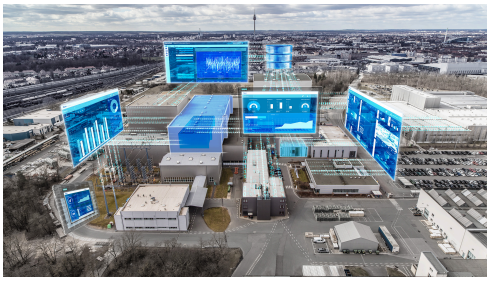
Selection and ordering data

SIMATIC Unified Air starter kit Consisting of SIMATIC Unified Air license (6AV2151-0BR01-0LB8); download SIMATIC RF1070R (6GT2831-6BA60) Email address required for delivery	**6AV2151-1BR01-0AB8**
SIMATIC Unified Air Download license; Email address required for delivery	**6AV2151-0BR01-0LB8**

Technical specifications

	SIMATIC Unified Air
Machine integration	SIMATIC HMI Unified Comfort Panel
Max. number of registered mobile devices per Unified Comfort Panel	Depending on the local user management specification
Minimum requirements Unified Comfort Panels	V19 Update 1 or higher for Unified Air V1.0 V20 Update 2 or higher for Unified Air V2.0 V21 Update 1 or higher for Unified Air V3.0
Minimum requirement iOS devices	iOS 12 or higher
Minimum requirement Android devices	Android 13 or higher
Availability	In countries as per OSD country list (Online Software Delivery)

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4/2	**BRAUMAT**
4/2	BRAUMAT & SISTAR
4/3	BRAUMAT / SISTAR core functions
4/4	BRAUMAT / SISTAR additional functions
4/5	BRAUMAT / SISTAR Lean
4/6	BRAUMAT / SISTAR upgrades
4/8	**Software for energy management**
4/8	Introduction
4/9	SIMATIC Energy Manager
4/12	**Modular Automation**
4/12	Modular Automation
4/13	Machine level - MTP (Module Type Package)
4/14	SIMATIC Control Function Library (CFL)
4/15	SIMATIC Process Function Library
4/17	SIMATIC MTP Creator
4/19	SIMATIC MTP Studio
4/20	Orchestration level - MTP (Module Type Package)
4/21	SIMATIC MTP Integrator for WinCC Unified
4/22	Opcenter X BOPEx
4/23	Opcenter X Productionlink
4/24	Machine Vision
4/25	Visual Inspection
4/26	Inspekto
4/32	Visual Inspection Cockpit

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Overview

BRAUMAT & SISTAR

BRAUMAT & SISTAR - the cross-industry control system specifically for the control and monitoring of recipe-controlled production processes such as in the food and beverage industry, as well as for all comparable batch and recipe-based production processes.

The following industries can be cited as examples:

- Beer production
- Milk processing
- Battery manufacturing
- Mixing processes
- And other comparable batch-oriented production processes

The system software is attuned to the technological requirements of such production processes and contains the following functions, among others:

- PLC-based recipe control by processing the specified product recipes
- Operator control and monitoring system with server/client architecture
- Graphics-based recipe and order management
- Automatic weighing and dosage of raw materials and inputs
- Route control of pipe and valve-related transport procedures (e.g. in tank farms)
- Messaging and logging
- Test and diagnostics
- Engineering and configuration tools

BRAUMAT & SISTAR Lean

In addition to the BRAUMAT & SISTAR standard system (Standard Edition), the Lean Edition of BRAUMAT & SISTAR is also available.

This is especially aimed at the needs of smaller plants (e.g. microbreweries and craft breweries) or encapsulated plant units (e.g. thermal treatment such as 'short-time heating') and provides an easy and cost-effective entry-level system.

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Selection and ordering data

BRAUMAT & SISTAR core functions	
BRAUMAT & SISTAR core functions	
B&S Server V8.2	
• Download	**6DL5210-1BX28-0DA0**
• Data storage medium	**6DL5210-1BX28-0YA0**
B&S Server V8.0 / V8.1	
• Download	**6DL5210-1BX08-0DA0**
• Data storage medium	**6DL5210-1BX08-0YA0**
BRAUMAT & SISTAR Clients	
Single Area Client V8.2	
• Download	**6DL5210-1SX28-0DB5**
• Data storage medium	**6DL5210-1SX28-0YB5**
Single Area Client V8.0 / V8.1	
• Download	**6DL5210-1SX08-0DB5**
• Data storage medium	**6DL5210-1SX08-0YB5**
Multi Area Client V8.2	
• Download	**6DL5210-1CX28-0DB5**
• Data storage medium	**6DL5210-1CX28-0YB5**
Multi Area Client V8.0 / V8.1	
• Download	**6DL5210-1CX08-0DB5**
• Data storage medium	**6DL5210-1CX08-0YB5**
Client conversion SA to MA V8.2	
• Download	**6DL5210-1SX28-0DD5**
• Data storage medium	**6DL5210-1SX28-0YD5**
Client conversion SA to MA V8.0 / V8.1	
• Download	**6DL5210-1SX08-0DD5**
• Data storage medium	**6DL5210-1SX08-0YD5**
BRAUMAT & SISTAR PLC connection	
PLC connection V8.2	
• Download	**6DL5210-1EX28-0DB0**
• Data storage medium	**6DL5210-1EX28-0YB0**
PLC connection V8.0 / V8.1	
• Download	**6DL5210-1EX08-0DB0**
• Data storage medium	**6DL5210-1EX08-0YB0**
BRAUMAT / SISTAR Engineering	
Engineering V8.2	
• Download	**6DL5210-0AX28-0DA5**
• Data storage medium	**6DL5210-0AX28-0YA5**
Engineering V8.0 / V8.1	
• Download	**6DL5210-0AX08-0DA5**
• Data storage medium	**6DL5210-0AX08-0YA5**

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Selection and ordering data

BRAUMAT & SISTAR additional functions	
BRAUMAT & SISTAR Web Process Screens	
BRAUMAT & SISTAR Web Process Screens	
• Download	**6DL5210-1WK00-2DB0**
Web Process Screens - Base V8.2	
• Download	**6DL5210-1WL28-2DB0**
BRAUMAT & SISTAR Route Control System	
Route Control System V8.2	
• Download	**6DL5210-1DX28-2DB0**
• Data storage medium	**6DL5210-1DX28-2YB0**
Route Control System V8.0 / V8.1	
• Download	**6DL5210-1DX08-2DB0**
• Data storage medium	**6DL5210-1DX08-2YB0**
BRAUMAT & SISTAR MES API	
MES API for B&S Server V8.2	
• Download	**6DL5210-1JX28-2DB0**
• Data storage medium	**6DL5210-1JX28-2YB0**
MES API for SQL Server V8.2	
• Download	**6DL5210-1KX28-2DB0**
• Data storage medium	**6DL5210-1KX28-2YB0**
MES API for B&S Server V8.0 / V8.1	
• Download	**6DL5210-1JX08-2DB0**
• Data storage medium	**6DL5210-1JX08-2YB0**
MES API for SQL Server V8.0 / V8.1	
• Download	**6DL5210-1KX08-2DB0**
• Data storage medium	**6DL5210-1KX08-2YB0**
BRAUMAT & SISTAR SQL Adapter	
SQL Adapter for B&S Server V8.2	
• Download	**6DL5210-1FX28-2DB0**
• Data storage medium	**6DL5210-1FX28-2YB0**
SQL Adapter for SQL Server V8.2	
• Download	**6DL5210-1GX28-2DB0**
• Data storage medium	**6DL5210-1GX28-2YB0**
SQL Adapter for B&S Server V8.0 / V8.1	
• Download	**6DL5210-1FX08-2DB0**
• Data storage medium	**6DL5210-1FX08-2YB0**
SQL Adapter for SQL Server V8.0 / V8.1	
• Download	**6DL5210-1GX08-2DB0**
• Data storage medium	**6DL5210-1GX08-2YB0**

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Selection and ordering data

BRAUMAT & SISTAR Lean	
BRAUMAT & SISTAR Lean base package	
Lean base package 4 units V8.2	
• Download	**6DL5210-1HB28-0DA0**
• Data storage medium	**6DL5210-1HB28-0YA0**
Lean base package 4 units V8.0 / V8.1	
• Download	**6DL5210-1HB08-0DA0**
• Data storage medium	**6DL5210-1HB08-0YA0**
BRAUMAT & SISTAR Lean Units PowerPack	
Lean PowerPack +12 units V8.2	
• Download	**6DL5210-1HX28-0DF0**
• Data storage medium	**6DL5210-1HX28-0YF0**
Lean PowerPack +12 units V8.0 / V8.1	
• Download	**6DL5210-1HX08-0DF0**
• Data storage medium	**6DL5210-1HX08-0YF0**
BRAUMAT & SISTAR Conversion Lean to B&S Server	
Conversion Lean package 4 units V8.2	
• Download	**6DL5210-1HB28-0DD0**
• Data storage medium	**6DL5210-1HB28-0YD0**
Conversion Lean package 4 units V8.0 / V8.1	
• Download	**6DL5210-1HB08-0DD0**
• Data storage medium	**6DL5210-1HB08-0YD0**
Conversion Lean package 16 units V8.2	
• Download	**6DL5210-1HD28-0DD0**
• Data storage medium	**6DL5210-1HD28-0YD0**
Conversion Lean package 16 units V8.0 / V8.1	
• Download	**6DL5210-1HD08-0DD0**
• Data storage medium	**6DL5210-1HD08-0YD0**
Conversion Lean package 28 units V8.0 / V8.1	
• Download	**6DL5210-1HF08-0DD0**
• Data storage medium	**6DL5210-1HF08-0YD0**
Conversion Lean package 28 units V8.2	
• Download	**6DL5210-1HF28-0DD0**
• Data storage medium	**6DL5210-1HF28-0YD0**
Conversion Lean package 40 units V8.2	
• Download	**6DL5210-1HH28-0DD0**
• Data storage medium	**6DL5210-1HH28-0YD0**
Conversion Lean package 40 units V8.0 / V8.1	
• Download	**6DL5210-1HH08-0DD0**
• Data storage medium	**6DL5210-1HH08-0YD0**

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Selection and ordering data

BRAUMAT & SISTAR upgrades	
BRAUMAT & SISTAR B&S Server	
Upgrade B&S Server V8.x -> V8.2	
• Download	**6DL5210-1BX28-0DE0**
• Data storage medium	**6DL5210-1BX28-0YE0**
Upgrade B&S Server V7.5 -> V8.1	
• Download	**6DL5210-1BX08-0DE0**
• Data storage medium	**6DL5210-1BX08-0YE0**
Upgrade B&S Server V7.5 -> V8.1	
• Download	**6DL5210-1BX08-0DG0**
• Data storage medium	**6DL5210-1BX08-0YG0**
BRAUMAT & SISTAR Clients	
Upgrade Single Area Client V8.x -> V8.2	
• Download	**6DL5210-1SX28-0DE5**
• Data storage medium	**6DL5210-1SX28-0YE5**
Upgrade Multi Area Client V8.x -> V8.2	
• Download	**6DL5210-1CX28-0DE5**
• Data storage medium	**6DL5210-1CX28-0YE5**
Upgrade Multi Area Client V7.5 -> V8.1	
• Download	**6DL5210-1CX08-0DE5**
• Data storage medium	**6DL5210-1CX08-0YE5**
Upgrade Multi Area Client V7.x -> V8.1	
• Download	**6DL5210-1CX08-0DG5**
• Data storage medium	**6DL5210-1CX08-0YG5**
BRAUMAT & SISTAR PLC Connection	
Upgrade PLC Connection V8.x -> V8.2	
• Download	**6DL5210-1EX28-0DE0**
• Data storage medium	**6DL5210-1EX28-0YE0**
Upgrade PLC Connection V7.5 -> V8.1	
• Download	**6DL5210-1EX08-0DE0**
• Data storage medium	**6DL5210-1EX08-0YE0**
Upgrade PLC Connection V7.x -> V8.1	
• Download	**6DL5210-1EX08-0DG0**
• Data storage medium	**6DL5210-1EX08-0YG0**
BRAUMAT & SISTAR Engineering	
Upgrade Engineering V8.x -> V8.2	
• Download	**6DL5210-0AX28-0DE5**
• Data storage medium	**6DL5210-0AX28-0YE5**
Upgrade Engineering V7.5 -> V8.1	
• Download	**6DL5210-0AX08-0DE5**
• Data storage medium	**6DL5210-0AX08-0YE5**
Upgrade Engineering V7.x -> V8.1	
• Download	**6DL5210-0AX08-0DG5**
• Data storage medium	**6DL5210-0AX08-0YG5**
BRAUMAT & SISTAR Web Process Screens	
Upgrade WPS Base V8.x -> V8.2	
• Download	**6DL5210-1WL28-2DE0**

Selection and ordering data (continued)

BRAUMAT & SISTAR Route Control System	
Upgrade Route Control System V8.x -> V8.2	
• Download	**6DL5210-1DX28-2DE0**
• Data storage medium	**6DL5210-1DX28-2YE0**
Upgrade Route Control System V7.5 -> V8.1	
• Download	**6DL5210-1DX08-2DE0**
• Data storage medium	**6DL5210-1DX08-2YE0**
Upgrade Route Control System V7.x -> V8.1	
• Download	**6DL5210-1DX08-2DG0**
• Data storage medium	**6DL5210-1DX08-2YG0**
BRAUMAT & SISTAR MES API	
Upgrade MES API for B&S Server V8.x -> V8.2	
• Download	**6DL5210-1JX28-2DE0**
• Data storage medium	**6DL5210-1JX28-2YE0**
Upgrade MES API for SQL Server V8.x -> V8.2	
• Download	**6DL5210-1KX28-2DE0**
• Data storage medium	**6DL5210-1KX28-2YE0**
Upgrade MES API for B&S Server V7.5 -> V8.1	
• Download	**6DL5210-1JX08-2DE0**
• Data storage medium	**6DL5210-1JX08-2YE0**
Upgrade MES API for B&S Server V7.x -> V8.1	
• Download	**6DL5210-1JX08-2DG0**
• Data storage medium	**6DL5210-1JX08-2YG0**
Upgrade MES API for SQL Server V7.5 -> V8.1	
• Download	**6DL5210-1KX08-2DE0**
• Data storage medium	**6DL5210-1KX08-2YE0**
Upgrade MES API for SQL Server V7.x -> V8.1	
• Download	**6DL5210-1KX08-2DG0**
• Data storage medium	**6DL5210-1KX08-2YG0**

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Selection and ordering data (continued)

BRAUMAT & SISTAR SQL Adapter	
Upgrade SQL Adapter for B&S Server V8.x -> V8.2	
• Download	**6DL5210-1FX28-2DE0**
• Data storage medium	**6DL5210-1FX28-2YE0**
Upgrade SQL Adapter for SQL Server V8.x -> V8.2	
• Download	**6DL5210-1GX28-2DE0**
• Data storage medium	**6DL5210-1GX28-2YE0**
Upgrade SQL Adapter for B&S Server V7.5 -> V8.1	
• Download	**6DL5210-1FX08-2DE0**
• Data storage medium	**6DL5210-1FX08-2YE0**
Upgrade SQL Adapter for B&S Server V7.x -> V8.1	
• Download	**6DL5210-1FX08-2DG0**
• Data storage medium	**6DL5210-1FX08-2YG0**
Upgrade SQL Adapter for SQL Server V7.5 -> V8.1	
• Download	**6DL5210-1GX08-2DE0**
• Data storage medium	**6DL5210-1GX08-2YE0**
Upgrade SQL Adapter for SQL Server V7.x -> V8.1	
• Download	**6DL5210-1GX08-2DG0**
• Data storage medium	**6DL5210-1GX08-2YG0**
BRAUMAT & SISTAR Lean package	
Upgrade Lean base package V8.x -> V8.2	
• Download	**6DL5210-1HB28-0DE0**
• Data storage medium	**6DL5210-1HB28-0YE0**
Upgrade Lean package 16 units V8.x -> V8.2	
• Download	**6DL5210-1HD28-0DE0**
• Data storage medium	**6DL5210-1HD28-0YE0**
Upgrade Lean package 28 units V8.x -> V8.2	
• Download	**6DL5210-1HF28-0DE0**
• Data storage medium	**6DL5210-1HF28-0YE0**
Upgrade Lean package 40 units V8.x -> V8.2	
• Download	**6DL5210-1HH28-0DE0**
• Data storage medium	**6DL5210-1HH28-0YE0**
Upgrade Lean base package V7.5 -> V8.1	
• Download	**6DL5210-1HB08-0DE0**
• Data storage medium	**6DL5210-1HB08-0YE0**
Upgrade Lean base package V7.x -> V8.1	
• Download	**6DL5210-1HD08-0DG0**
• Data storage medium	**6DL5210-1HD08-0YG0**
Upgrade Lean package 16 units V7.5 -> V8.1	
• Download	**6DL5210-1HD08-0DE0**
• Data storage medium	**6DL5210-1HD08-0YE0**
Upgrade Lean package 28 units V7.5 -> V8.1	
• Download	**6DL5210-1HF08-0DE0**
• Data storage medium	**6DL5210-1HF08-0YE0**
Upgrade Lean package 40 units V7.5 -> V8.1	
• Download	**6DL5210-1HH08-0DE0**
• Data storage medium	**6DL5210-1HH08-0YE0**

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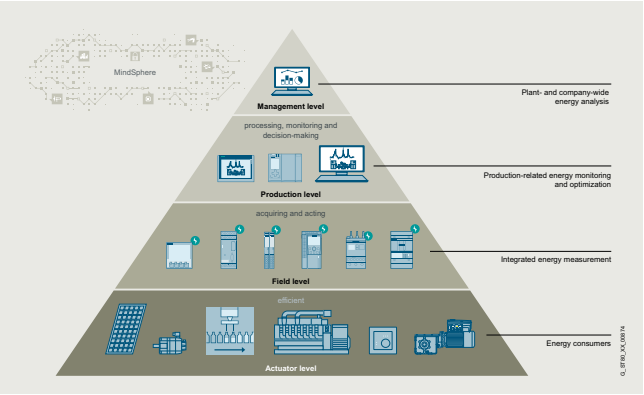
Overview

SIMATIC offers numerous reasons for corporate energy management in industrial plants.
However, there is one in particular: It makes an important contribution towards improving plant productivity. This results in enhanced competitiveness. Energy management with SIMATIC makes energy flows transparent in production plants. This supports the analysis and derivation of energy saving potential.
The result: Permanently increased efficiency, higher productivity and an improved cost situation.

More information is available at this link

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Overview



SIMATIC Energy Manager V7.6 energy management system

SIMATIC Energy Manager V7.6 makes energy flows and costs transparent – in both infrastructure and production.

SIMATIC Energy Manager provides users with a scalable, non-sector-specific energy data management system.
Its functions range from energy monitoring, energy controlling, energy invoicing, baseline management and prognosis, through to the management of energy efficiency measures with a Target Cockpit.
Among other things, SIMATIC Energy Manager provides an extensive and easy-to-use report system, as well as a dynamic, widget-based web dashboard for analyzing and distributing data once it has been acquired and analyzed.

SIMATIC Energy Manager is available in a **Basic** and a **PRO version**.

Advantages:

- Appropriate energy efficiency measures can be devised based on performance indicators and display options. When implemented successfully, cost savings are achieved.
- Power monitoring offers the basis for a secure power supply
- Technological processes and plants in production (for example: analysis based on machine status) can easily be connected and allow for energy performance evaluation
- Transparency combined with prognosis functions increases planning reliability and opens up new opportunities in energy procurement
- Energy controlling, with its flexible reporting and analysis functions, helps to ensure that efficient systems remains efficient
- Characteristic values can be freely defined to facilitate substantiated statements on increasing the efficiency of power generation systems and consumers
- Transparency – with the OPC UA (HA) server or the REST API, data can be made available to additional applications
- New regulations such as the Corporate Sustainability and Reporting Directive (CSRD) require industrial companies to provide more and more detailed information. In addition to the corporate carbon footprint, for which the entire company must be accounted for, the product carbon footprint is playing an increasingly important role. The Energy Manager gives you the transparency you need to be optimally prepared for this requirement.
- New regulations such as the Corporate Sustainability and Reporting Directive (CSRD) require industrial companies to provide more and more detailed information. In addition to the corporate carbon footprint, for which the entire company must be accounted for, the product carbon footprint is playing an increasingly important role. The Energy Manager gives you the transparency you need to be optimally prepared for this requirement

Overview (continued)

- With the Product Carbon Cockpit, the emissions generated in the factory can be allocated to products and transferred to SiGREEN. In SiGREEN, the company's own emissions are combined with those from the supply chain
- Decarbonization goals are an integral part of the corporate strategy of many companies. Nevertheless, the following questions very often remain unanswered: What is the status of my goal achievement and where am I on the decarbonization path? Where should I invest? Is the measure economical? With the Target Cockpit in Energy Manager, we provide exactly these answers
- Use the Energy Manager's **flexibilization function** to exploit the optimization potential resulting from dynamic energy prices

Energy Manager Basic:

- Definition of the asset structure with the objects country, location, asset as well as an alternative organizational structure
- Target Cockpit for easy monitoring of efficiency targets and management of corresponding efficiency measures
- Baseline management according to ISO 50006
- Easy configuration of dashboards, charts and reports
- With power monitoring, it is possible to analyze detail data of the measuring instruments
- Configuration of data points and the OPC UA, OPC DA, OPC HDA, Energy Suite, WinCC/PCS 7, Modbus/TCP, Modbus/TCP, Desigo CC and ASCII interfaces, as well as manual data acquisition
- Transfer of historical energy data from the PAC 2200 CLP or PAC 4200 via Modbus TCP
- Definition of derived data points in order to store performance indicators as a time series and export them, for example.
- Comprehensive authorization concept
- The web client is available in the languages en, de, fr, it, es, zh
- Configuration of performance indicators data with a formula editor
- Tabular overview and options for structuring data sources, data points, performance indicators and parameters
- Provision of data with the OPC UA server and a REST API
- Manual data acquisition using the Energy Manager app for iOS and Android

Energy Manager PRO:

- The S7 energy efficiency monitor as an instruction in the TIA Portal allows machine status-related energy data acquisition. Data is transferred to Energy Manager PRO via a communications module.
- Uniform and comparable display of efficiency indicators of machines/lines/cost centers
- Display of energy consumption and costs at machine level and cost center level
- Energy consumption and costs per workpiece or shift
- Benchmarking of same machines/workpieces from different manufacturers
- Batch-related analysis with aggregation options along production lines, aggregation across several systems in which the same product is produced, and much more.
- Production plan-based or type tag-based forecast
- The Energy Manager helps to create the necessary transparency in the product carbon footprint with a focus on emissions generated during production

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Overview (continued)

Note:

Upgrading from SIMATIC Energy Manager 7.5 to SIMATIC Energy Manager 7.6 is possible at any time and is included in the SIMATIC Energy Manager SUS.

Selection and ordering data

SIMATIC Energy Manager V7.6	
Standard scope of supply	
• SIMATIC Energy Manager Basic incl. 50 tags [1]	**6AV6372-1DF07-6AX0**
• SIMATIC Energy Manager PRO incl. 50 tags [1]	**6AV6372-2DF07-6AX0**
• SIMATIC Energy Manager PRO PowerPack Basic -> PRO	**6AV6372-2DF07-6AX3**
• Tag Package 50 [1]	**6AV6372-2DF07-0CX0**
• Tag Package 100 [1]	**6AV6372-2DF07-0DX0**
• Tag Package 250 [1]	**6AV6372-2DF07-0EX0**
• Tag Package 500 [1]	**6AV6372-2DF07-0FX0**
• Tag Package 1 000 [1]	**6AV6372-2DF07-0GX0**
• Tag Package 5 000 [1]	**6AV6372-2DF07-0HX0**
• Tag Package 30 000 [1]	**6AV6372-2DF07-0JX0**
Download	
• SIMATIC Energy Manager Basic incl. 50 tags [1]	**6AV6372-1DF07-6AH0**
• SIMATIC Energy Manager PRO incl. 50 tags [1]	**6AV6372-2DF07-6AH0**
• SIMATIC Energy Manager PRO PowerPack Basic -> PRO	**6AV6372-2DF07-5AH3**
• Tag Package 50 [1]	**6AV6372-2DF07-0CH0**
• Tag Package 100 [1]	**6AV6372-2DF07-0DH0**
• Tag Package 250 [1]	**6AV6372-2DF07-0EH0**
• Tag Package 500 [1]	**6AV6372-2DF07-0FH0**
• Tag Package 1 000 [1]	**6AV6372-2DF07-0GH0**
• Tag Package 5 000 [1]	**6AV6372-2DF07-0HH0**
• Tag Package 30 000 [1]	**6AV6372-2DF07-0JH0**

Selection and ordering data (continued)

SIMATIC Energy Manager extensions	
Standard scope of supply	
• SIMATIC Energy Manager, 3 web clients [4]	**6AV6372-2DF27-0AX0**
• SIMATIC Energy Manager, 20 web clients [4]	**6AV6372-2DF27-0BX0**
• SIMATIC Energy Manager, 60 web clients [4]	**6AV6372-2DF27-0CX0**
• SIMATIC Energy Manager PRO client [4]	**6AV6372-2DF37-0AX0**
• SIMATIC Energy Manager PRO planning and forecast	**6AV6372-2DF47-0AX0**
• SIMATIC Energy Manager PRO Flexibilization	**6AV6372-2DF40-0FX0**
• SIMATIC Energy Manager PRO acquisition component	**6AV6372-2DF57-0AX0**
Download	
• SIMATIC Energy Manager, 3 web clients [4]	**6AV6372-2DF27-0AH0**
• SIMATIC Energy Manager, 20 web clients [4]	**6AV6372-2DF27-0BH0**
• SIMATIC Energy Manager, 60 web clients [4]	**6AV6372-2DF27-0CH0**
• SIMATIC Energy Manager PRO client [4]	**6AV6372-2DF37-0AH0**
• SIMATIC Energy Manager PRO planning and forecast	**6AV6372-2DF47-0AH0**
• SIMATIC Energy Manager PRO Flexibilization	**6AV6372-2DF47-0FH0**
• SIMATIC Energy Manager PRO energy forecast	**6AV6372-2DF40-0FH3**
• SIMATIC Energy Manager PRO acquisition component	**6AV6372-2DF57-0AH0**
SIMATIC Energy Manager PRO Consumer Package	
Standard scope of supply	
• Consumer Package 1 with S7 EE-monitor [3]	**6AV6372-2DF67-1AX0**
• Consumer Package 5 with S7 EE-monitor [3]	**6AV6372-2DF67-1BX0**
• Consumer Package 25 with S7 EE-monitor [3]	**6AV6372-2DF67-1CX0**
• Consumer Package 1 without S7 EE-monitor	**6AV6372-2DF77-1AX0**
• Consumer Package 5 without S7 EE-monitor	**6AV6372-2DF77-1BX0**
• Consumer Package 25 without S7 EE-monitor	**6AV6372-2DF77-1CX0**
Download	
• Consumer Package 1 with S7 EE-monitor [3]	**6AV6372-2DF67-1AH0**
• Consumer Package 5 with S7 EE-monitor [3]	**6AV6372-2DF67-1BH0**
• Consumer Package 25 with S7 EE-monitor [3]	**6AV6372-2DF67-1CH0**
• Consumer Package 1 without S7 EE-monitor	**6AV6372-2DF77-1AH0**
• Consumer Package 5 without S7 EE-monitor	**6AV6372-2DF77-1BH0**
• Consumer Package 25 without S7 EE-monitor	**6AV6372-2DF77-1CH0**

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Selection and ordering data (continued)

SIMATIC Energy Manager SUS [2]	
Standard scope of supply	
• For max. additional 50 tags and/or 1 Consumer Package[2]	**6AV6372-2DF00-0CL0**
• For max. additional 100 tags and/or 5 Consumer Packages[2]	**6AV6372-2DF00-0DL0**
• For max. additional 500 tags and/or 25 Consumer Packages[2]	**6AV6372-2DF00-0FL0**
• For max. additional 5 000 tags and/or 100 Consumer Packages[2]	**6AV6372-2DF00-0HL0**
• For more than 5 000 tags and/or 100 Consumer Packages[2]	**6AV6372-2DF70-0XL0**
Download	
• For max. additional 50 tags and/or 1 Consumer Package[2]	**6AV6372-2DF00-0CY0**
• For max. additional 100 tags and/or 5 Consumer Packages[2]	**6AV6372-2DF00-0DY0**
• For max. additional 500 tags and/or 25 Consumer Packages[2]	**6AV6372-2DF00-0FY0**
• For max. additional 5 000 tags and/or 100 Consumer Packages[2]	**6AV6372-2DF00-0HY0**
• For more than 5 000 tags and/or 100 Consumer Packages[2]	**6AV6372-2DF70-0XY0**
SIMATIC Energy Manager upgrades	
Standard scope of supply	
• Upgrade of systems with up to 50 tags and/or 1 Consumer Package	**6AV6372-2DF07-6CX4**
• Upgrade of systems with up to 100 tags and/or 5 Consumer Packages	**6AV6372-2DF07-6DX4**
• Upgrade of systems with up to 500 tags and/or 25 Consumer Packages	**6AV6372-2DF07-6FX4**
• Upgrade of systems with up to 5 000 tags and/or 100 Consumer Packages	**6AV6372-2DF07-6HX4**
• Upgrade of systems with more than 5 000 tags and/or more than 100 Consumer Packages	**6AV6372-2DF77-6XX4**
Download	
• Upgrade of systems with up to 50 tags and/or 1 Consumer Package	**6AV6372-2DF07-6CH4**
• Upgrade of systems with up to 100 tags and/or 5 Consumer Packages	**6AV6372-2DF07-6DH4**
• Upgrade of systems with up to 500 tags and/or 25 Consumer Packages	**6AV6372-2DF07-6FH4**
• Upgrade of systems with up to 5 000 tags and/or 100 Consumer Packages	**6AV6372-2DF07-6HH4**
• Upgrade of systems with more than 5 000 tags and/or more than 100 Consumer Packages	**6AV6372-2DF77-6XH4**
SIMATIC Energy Manager TRIAL	**6AV6372-2DF17-6AX0**
Standard scope of supply	

1) The tag packages dynamically expand the number of tags. The total number of tags is incremented by the value of the tag package in each case.
2) The SUS contract runs for 1 year. The contract is automatically extended by a further year unless canceled 3 months prior to expiration.
3) The license number on the certificate is used to activate the S7 instruction; a separate license certificate is required for each machine.
4) The client license and web client license are licensing which only takes into account one simultaneous access. Example: If 5 users use the Energy Manager via the web client but only 3 work with it simultaneously, only 3 web client licenses are necessary. The same applies for the desktop client.

Technical specifications

	SIMATIC Energy Manager PRO V7.6
Operating system	• Windows Server 2016 (English/German) • Windows Server 2019 (English/German) • Windows Server 2022 (English/German) • Windows 10 Pro/Enterprise 64-bit 21H2, 22H2 (English/German) • Windows 10 IoT Enterprise 2019, 2021, LTSC (English/German) • Windows 10 Enterprise 2016 LTSC (English/German) • Windows 11 Pro/Enterprise 64-bit (English/German) • Minimum of 16 GB RAM
Interface	In addition to an interface to WinCC, PCS 7, Desigo CC and S7 Controllers, Energy Manager PRO also offers the latest interface standards such as OPC DA, OPC HDA, OPC UA, MODBUS TCP, ODBC, MQTT, ASCII or XML
WinCC versions [1]	• SIMATIC WinCC V7.4, V7.5, V8.0, V8.1 • SIMATIC WinCC Unified V18, V19, V20 • SIMATIC WinCC RT Professional V16, V17, V18, V19, V20
PCS 7 versions [2]	• SIMATIC PCS 7 V8.2, V9, V9.1, V10
Virtualization	• VMWare Workstation 16, 17 • VMWare ESX 7.0, 8.0 • Microsoft Hyper-V for Windows Server 2019, 2022 • Microsoft Hyper-V Server 2019, 2022

1) If an acquisition component is installed on a WinCC system, these requirements must also be complied with
2) The SIMATIC Energy Manager PRO system for connection to the PCS 7 must always be installed on a separate PC

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Overview

Modular production - maximum flexibility combined with maximum standardization

In today's world, process/production plants must be able to respond instantly to changes in the environment, such as labor shortage, disruptions in world trade, fluctuations in demand, etc.
The solution to these challenges is modular automation.

Compared to traditional automation, modular automation enables flexible manufacturing by allowing a production line to be divided into mobile modules and reconfigured quickly. This modular design makes it easier to meet different requirements.

Module Type Package (MTP) standard as modularization enabler

When operating a modularly structured plant, the integration of process units from different manufacturers often involves a great deal of effort and problems, especially due to the use of different communication protocols and interfaces.

Standardization is the key to open and flexible automation and plant concepts. This is where MTP comes into play. Module Type Package (MTP) is a formal description of the interfaces and functions of the automation technology of a modular process unit. MTP is standardized in the VDI/VDE/NAMUR 2658 guideline and enables manufacturer-independent integration of process units into a higher process control level. In the standard, a process unit is referred to as a PEA (Process Equipment Assembly) and the process control layer is referred to as a POL (Process Orchestration Layer).

The functional description is generated from the module automation data. This allows any higher-level automation system that "understands" MTP to precisely control a specific module, regardless of whether this involves, for example, a tank or a mixer.

This solution approach makes it possible to modularize today's automation systems and thus increase the flexibility of production plants.

OEM / Module layer

The module or plant constructor supplies the plant operator with a pre-automated, independently executable and tested module, which ensures faster commissioning and fault-free production at the customer site.

System integrator / Process Orchestration Layer

MTP files with integrated process pictures are imported into the higher process control layer, where the content of the machine/plant is created. This permits uniform operation of the standard and modular automated process unit.

We offer a range of products that support end-to-end use cases and enable you to seamlessly integrate MTP into your operation. Whether a native MTP implementation or a legacy upgrade is concerned, Siemens has a solution!

Portfolio overview:

- Machine level
  - SIMATIC Control Function Library (CFL)
  - SIMATIC Process Function Library (PFL)
  - SIMATIC MTP Creator
  - SIMATIC MTTP Studio
- Orchestration level
  - SIMATIC PCS neo
  - SIMATIC PCS 7
  - SIMATIC MTP Integrator for WinCC Unified
  - Opcenter X BOPEx
  - Opcenter X Productionlink

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Overview

For the module layer, the plant operator must be supplied in advance with fully automated, independently executable and tested modules. For this purpose, Siemens provides tools and libraries that support the creation of the required MTP files for these process units.

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Overview

The SIMATIC Control Function Library (CFL) is an object-oriented block library for the TIA Portal (STEP 7 Basic / Professional and WinCC Unified), which is developed, tested and maintained with a clear focus on quality and lifecycle support.
This library enables you to perform a wide variety of automation tasks very efficiently, while making significant reductions in the engineering overhead and the project duration. The SIMATIC Control Function Library can be used for both MTP-relevant and non-MTP-relevant applications.
Module Type Package (MTP) is a formal description of the interfaces and functions of the automation technology of a modular process unit. MTP is standardized by the PI/PNO and enables the manufacturer-independent integration of process units into a higher-level process control level. In the standard, a process unit is referred to as a PEA (Process Equipment Assembly) and the process control layer is referred to as a POL (Process Orchestration Layer).
The aim of the Control Function Library is object-oriented engineering of the automation system and of the visualization system.

Licensing

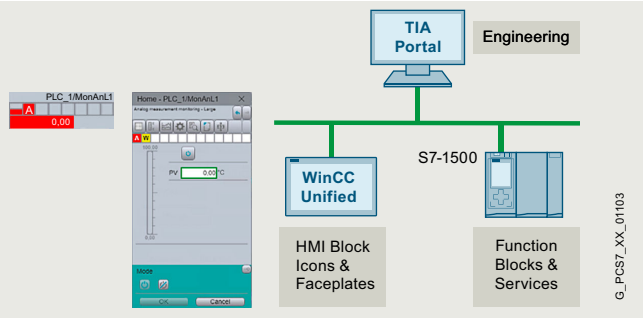
- Engineering with the SIMATIC Control Function Library is possible without a license.
- The following runtime licenses are required to operate the configured components (the new licenses are version-independent (TIA Portal & CFL versions):
  - Automation system (AS) runtime license;
    Required for each released SIMATIC S7 controller on which the components of the SIMATIC Control Function Library are to be loaded.
  - HMI runtime license;
    Required for each SIMATIC WinCC Unified PC system on which local operation with the SIMATIC Control Function Library is to be executed. Use in WinCC Unified Basic and Comfort Panels is possible without a license.

Selection and ordering data

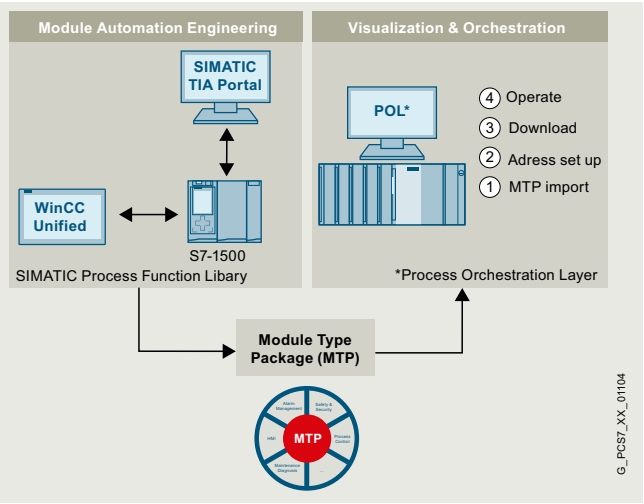
SIMATIC Control Function Library (CFL) WinCC Unified PC Runtime	**6AV2156-0HM00-0LB0**
SIMATIC Control Function Library (CFL) Automation system	**6AV2156-0PM00-0LB0**
SIMATIC Control Function Library (CFL) - Promotion HMI system WinCC Unified PC Runtime	**6AV2155-0HM00-0LB0**
SIMATIC Control Function Library (CFL) - Promotion Automation system	**6AV2155-0PM00-0LB0**

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Overview



The SIMATIC Process Function Library is an extensive library of function blocks, block icons and faceplates for monitoring and control with SIMATIC TIA Portal Engineering and WinCC Unified. In addition, specific functions for Module Type Package (MTP) Engineering based on VDI/VDE/NAMUR 2658 form an important part of the library.



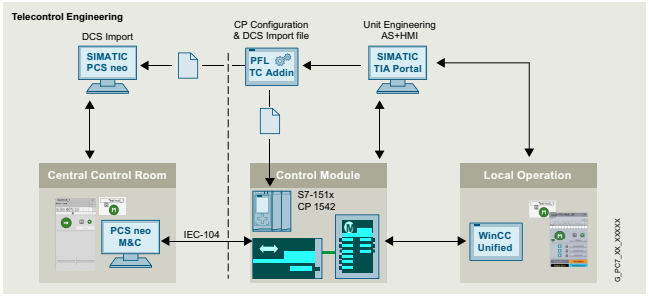
The MTP interface blocks according to VDI/VDE/NAMUR 2658 Parts 3 & 4 enable plug-and-produce, interoperability and flexible integration for multi-vendor process modules. The SIMATIC Process Function Library supports module automation/packages with automation based on S7-1500 and interacts with a distributed orchestration process control system (DCS) via open industry standard MTP.

The tried-and-tested SIMATIC PCS 7 Advanced Process Library (APL) is the foundation of the SIMATIC Process Function Library.

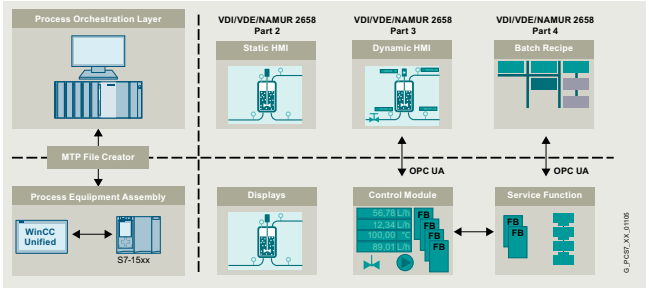
The core functions of the SIMATIC Process Function Library are:

Overview (continued)

- Extensive library based on APL standard function blocks and faceplates in TIA Portal
- Functions for modular automation with TIA Portal and SIMATIC S7-1500 Hardware/Open Controller
- Local operation with SIMATIC WinCC Unified
- Communication between Process Equipment Assembly (PEA) and Process Orchestration Layer (POL) in line with the MTP standard
  - VDI/VDE/NAMUR 2658-1 – General concept
  - VDI/VDE/NAMUR 2658-2 – Static HMI elements
  - VDI/VDE/NAMUR 2658-3 – Data structures for HMI
  - VDI/VDE/NAMUR 2658-4 – Modeling of module services
- Telecontrol Engineering Tool as TIA Portal add-in
  - Reading MTP#3 interfaces
  - Creating a .csv file to configure CP 1542
  - Creating an IEC 104-based MTP file for import into SIMATICS PCS neo
  - Siemens-specific connection blocks for Telecontrol



- Channel blocks for simple interface in the field
- TCON-based communication with S7-1500 Hardware Controller



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Selection and ordering data

SIMATIC Process Function Library Runtime	
SIMATIC Process Function Library Runtime V4.0 Software class A, 1 language (English), single license for 1 installation License download (without software, without documentation) Certificate of License	
• Runtime license for 1 HMI system	**6DL5411-0AA04-0AH0**
• Runtime license for 30 HMI systems	**6DL5411-0BA04-0AH0**
• Runtime license for 1 automation system	**6DL5411-0CA04-0AH0**
• Runtime license for 30 automation systems	**6DL5411-0DA04-0AH0**
• Runtime license for 1 AS and 1 HMI system	**6DL5411-0EA04-0AH0**
SIMATIC Process Function Library Upgrade V3.0	
SIMATIC Process Function Library Upgrade Package PFL V3.0 to PFL V4.0 1 language (English), single license for 1 installation License download (without software, without documentation) Certificate of License	
• Upgrade Runtime 1 HMI or 1 AS	**6DL5411-0EA04-0AK0**

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Overview

The SIMATIC MTP Creator is a TIA Portal add-in that can be used to generate MTP files from the TIA Portal engineering environment. In addition, MTP files can be generated via a PowerShell script. This permits time-controlled file generation.

Function blocks and HMI user interfaces from the SIMATIC Control Function Library (CFL) and the SIMATIC Process Function Library (PFL) are used for generation. Customer libraries can also be used (depending on the version of the Creator).

The generated MTP files can later be imported into different Process Orchestration Layer (POL) systems by Siemens or other vendors. This saves time in engineering the POL system and reduces possible sources of error.

The SIMATIC MTP Creator implements the following Parts of the VDI/VDE/NAMUR 2658 guideline:

- Part 1: General concept and interfaces (V1.1.0, V2.0.0 and V2.0.0 (VDI version))
- Part 2: Modeling of operating screens (V1.0.0)
- Part 3: Library for data objects (V1.0.0)
- Part 4: Modeling of module services (V1.0.0)

You can find more detailed information about the features, scope of supply and licensing of the different versions of the MTP Creator at the following links:

- MTP Creator V5.x
- MTP Creator V4.x

Selection and ordering data

SIMATIC MTP Creator V5.0 TIA Portal add-in for STEP 7 Prof. & WinCC Unified V20; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL) and SIMATIC Process Function Library (PFL) Consignee email address required for delivery Please note product release under this link.	**6AV2156-0EM02-4LA0**
SIMATIC MTP Creator Customizing V5.0 TIA Portal add-in for STEP 7 Prof. & WinCC Unified V20; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL), SIMATIC Process Function Library (PFL), and customer libraries Consignee email address required for delivery Please note product release under this link.	**6AV2156-1EM02-4LA0**
SIMATIC MTP Creator Customizing Upgrade V4.x --> V5.0 (TIA Portal V19 to V20) TIA Portal add-in for STEP 7 Prof. & WinCC Unified V20; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL), SIMATIC Process Function Library (PFL), and customer libraries Consignee email address required for delivery Please note product release under this link.	**6AV2156-1EM32-4LB0**
SIMATIC MTP Creator V4.0 TIA Portal add-in for STEP 7 Prof. & WinCC Unified V19; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL) and SIMATIC Process Function Library (PFL) Consignee email address required for delivery Please note product release under this link.	**6AV2156-0EM02-3LA0**
SIMATIC MTP Creator Customizing V4.0 TIA Portal add-in for STEP 7 Prof. & WinCC Unified V19; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL), SIMATIC Process Function Library (PFL), and customer libraries Consignee email address required for delivery Please note product release under this link.	**6AV2156-1EM02-3LA0**
SIMATIC MTP Creator Customizing Upgrade V3.x --> V4.0 (TIA Portal V18 to V19) TIA Portal add-in for STEP 7 Prof. & WinCC Unified V19; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL), SIMATIC Process Function Library (PFL), and customer libraries Consignee email address required for delivery Please note product release under this link.	**6AV2156-1EM32-3LB0**
SIMATIC MTP Creator V3.0 TIA Portal add-in for STEP 7 Prof. & WinCC Unified V18; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL) and SIMATIC Process Function Library (PFL); Consignee email address required for delivery Please note product release under this link.	**6AV2156-0EM01-8LA0**

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Selection and ordering data (continued)

SIMATIC MTP Creator Customizing V3.0 TIA Portal add-in for STEP 7 Prof. & WinCC Unified V18; Engineering software; includes software & license key for download; Class A; supports SIMATIC Control Function Library (CFL), SIMATIC Process Function Library (PFL), and customer libraries Consignee email address required for delivery Please note product release under this link.	**6AV2156-1EM01-8LA0**

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Overview

The SIMATIC MTP Studio enables the creation of an MTP file based on TIA Portal projects. The engineering data from STEP 7 and WinCC Unified is used for this purpose. In the SIMATIC MTP Studio, the TIA Portal projects with MTP content are displayed. There are two ways to integrate TIA Portal projects.

In the SIMATIC MTP Studio

- the history of the module (PEA versions) is available,
- the MTP file can be downloaded for each PEA type version and
- the PEA type can be visually validated.

In addition, a report is created for each PEA type version (MTP file).

Furthermore, PEA types / MTP files (Siemens or other manufacturers) can be imported and visually validated.

The SIMATIC MTP Studio V1.x/V2.x implements the following Parts of the guideline VDI/VDE/NAMUR 2658[1)] and **PI/NAMUR/ZVEI**[1)]:

- Part 1: General concept and interfaces (V1.1.0 / V2.0.0)[1)]
- Part 2: Modeling of operating screens (V1.0.0 / V2.0.0)[1)]
- Part 3: Library for data objects (V1.0.0 / V2.0.0)[1)]
- Part 4: Modeling of module services (V1.0.0 / V2.0.0)[1)]
- Part 5: Runtime and communication – General concept (V2.0.0)[1)]
- Part 5.1: Runtime and communication – OPC UA (V2.0.0)[1)]

You can find more detailed information about the features, scope of supply and licensing of the different versions of the MTP Studio at the following links:

SIMATIC MTP Studio V1.x / V2.x

1) You can find more details of supported objects in the manual

Selection and ordering data

SIMATIC MTP Studio Create TIA Portal extension for STEP 7 Professional and WinCC Unified for MTP/PEA engineering; Includes software and license for download; Class A; Enables the creation and visualization of MTP content Based on the SIMATIC Control Function Library Consignee email address required for delivery	**6AV2156-1SM00-0LB0**
SIMATIC MTP Studio Customizing TIA Portal extension for STEP 7 Professional and WinCC Unified for MTP/PEA engineering Includes software and license for download; Class A; Enables the creation and visualization of MTP content Based on the SIMATIC Control Function Library and customer libraries Consignee email address required for delivery	**6AV2156-3SM00-0LB0**

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Overview

To integrate the modules in the process integration layer, the higher-level automation system must also be able to process the MTP files. Siemens can provide such systems.

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Overview

The SIMATIC MTP Integrator for WinCC Unified offers the option of importing MTP files from machine configurations from different manufacturers into a SCADA system and visualizing them in a uniform manner. The SIMATIC MTP Integrator for WinCC Unified provides a separate faceplate library for this purpose.

After importing an MTP file, multiple instances of that machine can be created. In the TIA Portal, the OPC UA connections, tags and process pictures of the machine are automatically created by instantiation and linked to the faceplates from the library based on the MTP configuration.

The SIMATIC MTP Integrator for WinCC Unified implements the following Parts of the guideline VDI/VDE/NAMUR 2658 and PI/NAMUR/ZVEI:

- Part 1: General concept and interfaces (V1.1.0, V2.0.0)
- Part 2: Modeling of operating screens (V1.0.0, V2.0.0)
- Part 3: Library for data objects (V1.0.0, V2.0.0)
- Part 4: Modeling of module services (V1.0.0, V2.0.0)
- Part 5: Runtime and communication – General concept (V2.0.0)
- Part 5.1: Runtime and communication – OPC UA (V2.0.0)
- Part 6: Alarms (V2.0.0)

More detailed information about the features, scope of supply, and licensing type of the SIMATIC MTP Integrator can be found under

- SIMATIC MTP Integrator for WinCC Unified V21
- SIMATIC MTP Integrator for WinCC Unified V20

Configuration

MTP types representing a type of a package unit/machine are added to a WinCC Unified PC runtime project by selecting an existing MTP file (Siemens or third-party). The MTP file contains all the relevant information:

- OPC UA communication
- PLC data
- HMI components with screens and user interfaces
- PEA validation during runtime

Automatically create the OPC UA communication, PLC tags, and HMI screens for the new package unit/machine by adding a new instance and integrating the ready-to-use screens into your visualization. All the details of the MTP types and their instances that are integrated into a WinCC Unified project are displayed in the viewer. The standardized line operation of package units/machines from different suppliers increases operational efficiency and reduces training requirements. In addition, the risk of human error is limited, even when package units/machines from different OEMs/vendors are combined at one production site.

Selection and ordering data

SIMATIC MTP Integrator for WinCC Unified 1x PEA PROMOTION (limited time offer)	**6AV2156-1TM30-0LA0**
SIMATIC MTP Integrator for WinCC Unified 10x PEA PROMOTION (limited time offer)	**6AV2156-4TM30-0LA0**
SIMATIC MTP Integrator for WinCC Unified 1x PEA Contains: Engineering software, license key and CoL (Certificate of License)	**6AV2156-1TM00-0LA0**
SIMATIC MTP Integrator for WinCC Unified 10x PEA Contains: Engineering software, license key and CoL (Certificate of License)	**6AV2156-4TM00-0LA0**

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Overview

Opcenter X BOPEx (Bill of Process Execution) is an Industrial Edge app for real-time process execution. The app serves as the central nervous system for flexible manufacturing plants. It essentially coordinates every aspect of the manufacturing process - plant setup, material flow, and execution. This ensures that the production lines are not only efficient, but can also be flexibly adapted to changes.

Opcenter X BOPEx integrates seamlessly with compatible systems. Configuration and execution are automated and contactless. This minimizes human intervention while maximizing the accuracy and consistency of production operations. It supports process, discrete and hybrid manufacturing. Plug-and-play shortens setup times and reduces manual configuration effort. Fast reconfiguration increases flexibility and efficiency.

This application can be purchased via the Edge Marketplace.

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Overview

The flexible manufacturing app Opcenter X Productionlink enables recipe transformation in manufacturing. It exchanges engineering data (plant capabilities, recipes) bidirectionally between PLM and manufacturing automation systems. It orchestrates the flow of production orders through to automation, incorporating ERP, MES and inventory data. It forwards execution data records and quality data to traceability systems. The app is deployed on Industrial Edge. It runs within the control network, connected to BOPEx and SIMATIC Batch. It provides a secure gateway to enterprise systems. Opcenter X Productionlink can be scaled to support additional lines by adding further Edge boxes. The deployment is resilient, independent of the existing IT/OT landscape, and flexible with regard to different MES versions. Low-code extensions enable integration with internal and external IT and OT systems.

This application can be purchased via the Edge Marketplace.

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Overview

Products for Machine Vision:

- Inspekto

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Overview

Products for Visual Inspection:

- Inspekto

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Overview





Inspekto – AI-Driven Visual Quality Inspection System Provides dynamic AI guided optimization – no special expertise required. Self-contained system designed to be installed quick and easily to enhancing your production quality faster than any other product. Our system is designed with end user independence in mind using a do-it-yourself approach. No dedicated vision or AI know-how required.

Mode of operation

Engineering to define the profiles and regions of interest of the goods to be inspected.
Inferencing to inspect the produced goods by using the trained AI models during engineering.

- Obtaining the Image – Acquisition
- Identifying the Part – Recognition
- Finding the Defect – Inspection

Configuration

Easy training of the AI model using only a few (about 20) OK-samples.
Possibility to graphically define regions of interest for each profile.

Selection and ordering data

SIEMENS INSPEKTO Vision Inspection System Basic V6 Optical AI-supported system for presence and deviation detection. Supports 6 active profiles. Consignee email address required for delivery. Only the specific terms apply, see this link.	**6ET2901-0AA00-1BA0**
SIEMENS INSPEKTO Vision Inspection System Basic V6 - High Performance Edition Optical AI-supported system for presence and deviation detection. Supports 6 active profiles. Consignee email address required for delivery. Only the specific terms apply, see this link.	**6ET2901-1AA00-1BA0**
SIEMENS INSPEKTO Vision Inspection System Professional V6 Optical AI-supported system for presence and deviation detection. Supports unlimited number of active profiles. Consignee email address required for delivery. Only the specific terms apply, see this link.	**6ET2901-0AA01-1BA0**
SIEMENS INSPEKTO Vision Inspection System Professional V6 - High Performance Edition Optical AI-supported system for presence and deviation detection. Supports unlimited number of active profiles.Consignee email address required for delivery.Only the specific terms apply, see this link.	**6ET2901-1AA01-1BA0**
Inspekto Flex Bundle Basic SP limited to 6 profiles standard performance (no GPU), no camera - no SmartLight Note: for supported cameras see manual	**6ET2900-0AA00-0BA0**
Inspekto Flex Bundle Basic HP limited to 6 profiles standard performance (no GPU), no camera - no SmartLight Note: for supported cameras see manual	**6ET2900-1AA00-0BA0**
Inspekto Flex Bundle Flex Prof SP unlimited profiles standard performance (no GPU), no camera - no SmartLight Note: for supported cameras see manual	**6ET2900-0AA01-0BA0**

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Selection and ordering data (continued)

Inspekto Flex Bundle Flex Prof HP unlimited profiles standard performance (no GPU), no camera - no SmartLight Note: for supported cameras see manual	**6ET2900-1AA01-0BA0**
Spare parts	
Four-segment SmartLight (Lumimax)	**6ET2305-0AA00-0BA8**
Mounting accessory Adapter plate for merging Lumimax SmartLight and The Imaging Source camera	**6ET2710-0BA00-0AA0**
Adapter cable Cable for direct connection of SmartLight. 5-pole M12 plug to D-sub. Length 5 m.	**6ET2706-5AA01-0AA1**
Y splitter for cables M12 female to 2x M12 male	**6ET2740-0AA01-0AA0**
Power supply and IO adapter cable For providing power supply and the trigger signal to the SmartLight	**6ET2704-1AA04-0AA0**
Connecting cable (M8, 4 pin, 5 m)	**6ET2706-5AA01-0AA2**
Digital monochrome camera	**6ET2303-0AA00-0BA8**
Cable (RJ45, 5 m)	**6ET2705-5AA04-0AB0**
IPCs with Software - procurable only together with a licence	
IPC with Inspekto SW for Basic	**6BK1000-5VB00-0AA0**
IPC with Inspekto SW for Professional	**6BK1000-5VB00-1AA0**
IPC with Inspekto SW for Basic (High Performance Edition)	**6BK1000-6VB00-0AA0**
IPC with Inspekto SW for Professional (High Performance Edition)	**6BK1000-6VB00-1AA0**
Licenses	
SIEMENS INSPEKTO VIS BASIC V6, (Paper License)	**6ET2500-0AA00-0AA3**
SIEMENS INSPEKTO VIS PROFESSIONAL V6, (Paper License)	**6ET2500-0AA00-0AA2**
SIEMENS UPGRADE BASIC to PROFESSIONAL V6, (OSD-only-CoL)	**6ET2500-5AA00-3AA0**

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Technical specifications

Article number	6ET2901-0AA00-1BA0 Inspekto Core Basic SP	6ET2901-0AA01-1BA0 Inspekto Core Prof SP	6ET2901-1AA00-1BA0 Inspekto Core Basic HP	6ET2901-1AA01-1BA0 Inspekto Core Prof HP
General information				
Product function				
- Visual inspection				
- inspection cycle	300 ms; cycle time may vary; depending on image grabbing method, triggering method and other factors	300 ms; cycle time may vary; depending on image grabbing method, triggering method and other factors	100 ms	100 ms
- object speed, max.	0.75 m/s	0.75 m/s	2.25 m/s	2.25 m/s
- installation clearance, min.	2 cm	2 cm	2 cm	2 cm
- installation clearance, max.	100 cm; recommended max. distance	100 cm; recommended max. distance	100 cm	100 cm
- smallest fault size	0.33 mm at 10 cm distance without optical zoom	0.33 mm at 10 cm distance without optical zoom	0.33 mm at 10 cm distance without optical zoom	0.33 mm at 10 cm distance without optical zoom
- optical magnification	17	17	17	17
- optical settings	autonomous embedded anti-reflection adaptive lighting	autonomous embedded anti-reflection adaptive lighting	autonomous embedded anti-reflection adaptive lighting	autonomous embedded anti-reflection adaptive lighting
- image detection	autonomous	autonomous	autonomous	autonomous
- positioning	autonomous	autonomous	autonomous	autonomous
- trigger type	auto / manual / PLC / trigger-in	auto / manual / PLC / trigger-in	auto / manual / PLC / trigger-in	auto / manual / PLC / trigger-in
- color range of sensor	grayscale	grayscale	grayscale	grayscale
- number of inspection profiles	6	unlimited (limited only by hardware resources)	6	6
- number of possible inspection areas	unlimited (limited only by hardware resources)	unlimited (limited only by hardware resources)		unlimited (limited only by hardware resources)
- Camera				
- vision standard	GigE Vision	GigE Vision	GigE Vision	GigE Vision
- dynamic range	12 bit	12 bit	12 bit	12 bit
- frame rate	36 1/s	36 1/s	36 1/s	36 1/s
- Image resolution	2 048 x 1 536	2 048 x 1 536	2 048 x 1 536	2 048 x 1 536
- focal length, min.	6 800 µm; Wide	6 800 µm; Wide	6 800 µm; Wide	6 800 µm; Wide
- focal length, max.	136 000 µm; tele	136 000 µm; tele	136 000 µm; tele	136 000 µm; tele
- object width, min.	1 cm; Wide	1 cm; Wide	1 cm; Wide	1 cm; Wide
- object width, max.	90 cm; tele	90 cm; tele	90 cm; tele	90 cm; tele
- iris	F1.5 (wide) to F3.4 (tele)	F1.5 (wide) to F3.4 (tele)	F1.5 (wide) to F3.4 (tele)	F1.5 (wide) to F3.4 (tele)
- sensor format	1/1.8"	1/1.8"	1/1.8"	1/1.8"
- pixel format	3 450 nm	3 450 nm	3 450 nm	3 450 nm
- sensor type	Sony IMX26LLR-C	Sony IMX26LLR-C	Sony IMX26LLR-C	Sony IMX26LLR-C
- shutter type	global	global	global	global
- pixel size	3.45 µm	3.45 µm	3.45 µm	3.45 µm
- IR cut filter	Yes (removable)	Yes (removable)	Yes (removable)	Yes (removable)
- shutter	20 ms up to 30 s	20 ms up to 30 s	20 ms up to 30 s	20 ms up to 30 s
- gain	0 dB to 48 dB	0 dB to 48 dB	0 dB to 48 dB	0 dB to 48 dB
- illumination				
- light color	white 5 700 K (CRI80)	white 5 700 K (CRI80)	white 5 700 K (CRI80)	white 5 700 K (CRI80)
- LED technology	SMD LEDs	SMD LEDs	SMD LEDs	SMD LEDs
- width of light-emitting surface	100 mm	100 mm	100 mm	100 mm
- length of light-emitting surface	100 mm	100 mm	100 mm	100 mm
- illuminance	40 000 lx; at 0.1 m	40 000 lx; at 0.1 m	40 000 lx; at 0.1 m	40 000 lx; at 0.1 m

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Technical specifications (continued)

Article number	6ET2901-0AA00-1BA0 Inspekto Core Basic SP	6ET2901-0AA01-1BA0 Inspekto Core Prof SP	6ET2901-1AA00-1BA0 Inspekto Core Basic HP	6ET2901-1AA01-1BA0 Inspekto Core Prof HP
- electrical power at the light field, max.	16.8 W; normal mode	16.8 W; normal mode	16.8 W; normal mode	16.8 W; normal mode
- Operating mode	continuous and switching operation; 4 separately controllable segments	continuous and switching operation; 4 separately controllable segments	continuous and switching operation; 4 separately controllable segments	continuous and switching operation; 4 separately controllable segments
- ON-delay	10.5 µs	10.5 µs	10.5 µs	10.5 µs
- illumination controller	integrated illumination controller	integrated illumination controller	integrated illumination controller	integrated illumination controller
- continuous operation	with no firmware activated, light operates in continuous mode only, red status LED lights up (with firmware activated red status LED turns off)	with no firmware activated, light operates in continuous mode only, red status LED lights up (with firmware activated red status LED turns off)	with no firmware activated, light operates in continuous mode only, red status LED lights up (with firmware activated red status LED turns off)	with no firmware activated, light operates in continuous mode only, red status LED lights up (with firmware activated red status LED turns off)
- PLC switching input	low level ≤ 8 V DC; high level = 12 to 30 V DC; internally limited to 6 mA Switch-on delay 2.5 µs to MCU	low level ≤ 8 V DC; high level = 12 to 30 V DC; internally limited to 6 mA Switch-on delay 2.5 µs to MCU	low level ≤ 8 V DC; high level = 12 to 30 V DC; internally limited to 6 mA Switch-on delay 2.5 µs to MCU	low level ≤ 8 V DC; high level = 12 to 30 V DC; internally limited to 6 mA Switch-on delay 2.5 µs to MCU
- Boost mode	brings 32.4 W to light field for illumination increase, max. switch-on time 500 ms with duty factor 50 %	brings 32.4 W to light field for illumination increase, max. switch-on time 500 ms with duty factor 50 %	brings 33.4 W to light field for illumination increase, max. switch-on time 500 ms with duty factor 50 %	brings 33.4 W to light field for illumination increase, max. switch-on time 500 ms with duty factor 50 %
- risk group	Exempt Group (DIN EN 62471)	Exempt Group (DIN EN 62471)	Exempt Group (DIN EN 62471)	Exempt Group (DIN EN 62471)
Installation type/mounting				
Mounting accessories	including	including	including	including
Supply voltage				
Design of the power supply	DC	DC	DC	DC
permissible range, lower limit (DC)	24 V	24 V	24 V	24 V
permissible range, upper limit (DC)	24 V	24 V	24 V	24 V
Interfaces				
Ethernet interface	Yes	Yes	Yes	Yes
Protocols				
PROFINET	Yes	Yes	Yes	Yes
EtherNet/IP	Yes	Yes	Yes	Yes
Protocols (Ethernet)				
• TCP/IP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP degree of protection	IP20 control cabinet installation / open type	IP20 control cabinet installation / open type	IP20 control cabinet installation / open type	IP20 control cabinet installation / open type
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No
Ambient temperature during operation				
• min.	10 °C	10 °C	10 °C	10 °C
• max.	38 °C	45 °C	38 °C	38 °C
• min. [°F]	50 °F	50 °F	50 °F	50 °F
• max. [°F]	100 °F	113 °F	100 °F	100 °F
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, min.	20 %	20 %	20 %	20 %
• Operation, max.	80 %	80 %	80 %	80 %
Operating systems				
pre-installed operating system	LINUX	LINUX	LINUX	LINUX
Connection method				
Type of connection	plugged, screwed	plugged, screwed	plugged, screwed	plugged, screwed

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Technical specifications (continued)

Article number	6ET2901-0AA00-1BA0 Inspekto Core Basic SP	6ET2901-0AA01-1BA0 Inspekto Core Prof SP	6ET2901-1AA00-1BA0 Inspekto Core Basic HP	6ET2901-1AA01-1BA0 Inspekto Core Prof HP
Dimensions				
width of controller	262 mm	262 mm	79 mm; 85 mm base module	79 mm; 85 mm base module
height of controller	139.7 mm	139.7 mm	194 mm	194 mm
depth of controller	62.6 mm	62.6 mm	237 mm; 237 mm base module without fan module and with / without extension module 1 slot, 307 mm base module with fan module and with / without extension module 1/2 slots, 400 mm with extension module 4 slots	237 mm; 237 mm base module without fan module and with / without extension module 1 slot, 307 mm base module with fan module and with / without extension module 1/2 slots, 400 mm with extension module 4 slots
camera width	71 mm	71 mm	71 mm	71 mm
camera height	71 mm	71 mm	71 mm	71 mm
camera depth	147 mm	147 mm	147 mm	147 mm
lighting width	130 mm	130 mm	130 mm	130 mm
lighting height	130 mm	130 mm	130 mm	130 mm
lighting depth	20.5 mm	20.5 mm	20.5 mm	20.5 mm
Weights				
weight of controller	2.2 kg	2.2 kg	6 kg	6 kg

Article number	6ET2900-0AA00-0BA0 Inspekto Flex Basic SP	6ET2900-1AA00-0BA0 Inspekto Flex Basic HP	6ET2900-0AA01-0BA0 Inspekto Flex Prof SP	6ET2900-1AA01-0BA0 Inspekto Flex Prof HP
General information				
Product function				
- Visual inspection				
- inspection cycle	300 ms; cycle time may vary; depending on image grabbing method, triggering method and other factors	300 ms; cycle time may vary; depending on image grabbing method, triggering method and other factors	300 ms; cycle time may vary; depending on image grabbing method, triggering method and other factors	300 ms; cycle time may vary; depending on image grabbing method, triggering method and other factors
- object speed, max.	0.75 m/s	0.75 m/s	0.75 m/s	0.75 m/s
- installation clearance, min.	2 cm	2 cm	2 cm	2 cm
- installation clearance, max.	100 cm; recommended max. distance	100 cm; recommended max. distance	100 cm; recommended max. distance	100 cm; recommended max. distance
- smallest fault size	0.33 mm at 10 cm distance without optical zoom	0.33 mm at 10 cm distance without optical zoom	0.33 mm at 10 cm distance without optical zoom	0.33 mm at 10 cm distance without optical zoom
- optical magnification	17	17	17	17
- optical settings	autonomous embedded anti-reflection adaptive lighting	autonomous embedded anti-reflection adaptive lighting	autonomous embedded anti-reflection adaptive lighting	autonomous embedded anti-reflection adaptive lighting
- image detection	autonomous	autonomous	autonomous	autonomous
- positioning	autonomous	autonomous	autonomous	autonomous
- trigger type	auto / manual / PLC / trigger-in	auto / manual / PLC / trigger-in	auto / manual / PLC / trigger-in	auto / manual / PLC / trigger-in
- color range of sensor	grayscale	grayscale	grayscale	grayscale
- number of inspection profiles	6	6	unlimited (limited only by hardware resources)	unlimited (limited only by hardware resources)
- number of possible inspection areas	unlimited (limited only by hardware resources)	unlimited (limited only by hardware resources)	unlimited (limited only by hardware resources)	unlimited (limited only by hardware resources)
Supply voltage				
Design of the power supply	DC	DC	DC	DC
permissible range, lower limit (DC)	24 V	24 V	24 V	24 V
permissible range, upper limit (DC)	24 V	24 V	24 V	24 V
Interfaces				
Ethernet interface	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6ET2900-0AA00-0BA0 Inspekto Flex Basic SP	6ET2900-1AA00-0BA0 Inspekto Flex Basic HP	6ET2900-0AA01-0BA0 Inspekto Flex Prof SP	6ET2900-1AA01-0BA0 Inspekto Flex Prof HP
Protocols				
PROFINET	Yes	Yes	Yes	Yes
EtherNet/IP	Yes	Yes	Yes	Yes
Protocols (Ethernet)				
• TCP/IP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP degree of protection	IP20 control cabinet installation / open type	IP20 control cabinet installation / open type	IP20 control cabinet installation / open type	IP20 control cabinet installation / open type
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No
Ambient temperature during operation				
• min.	10 °C	10 °C	10 °C	10 °C
• max.	45 °C	45 °C	45 °C	45 °C
• min. [°F]	50 °F	50 °F	50 °F	50 °F
• max. [°F]	113 °F	113 °F	113 °F	113 °F
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, min.	20 %	20 %	20 %	20 %
• Operation, max.	80 %	80 %	80 %	80 %
Operating systems				
pre-installed operating system	LINUX	LINUX	LINUX	LINUX
Connection method				
Type of connection	plugged, screwed	plugged, screwed	plugged, screwed	plugged, screwed
Dimensions				
width of controller	262 mm	262 mm	262 mm	262 mm
height of controller	139.7 mm	139.7 mm	139.7 mm	139.7 mm
depth of controller	62.6 mm	62.6 mm	62.6 mm	62.6 mm
lighting width	130 mm	130 mm	130 mm	130 mm
lighting height	130 mm	130 mm	130 mm	130 mm
lighting depth	20.5 mm	20.5 mm	20.5 mm	20.5 mm
Weights				
weight of controller	2.2 kg	2.2 kg	2.2 kg	2.2 kg

Options

- SIEMENS Inspekto VIS Basic V6 (limited to 6 Profiles)
  - supports 6 profiles
- SIEMENS Inspekto VIS Professional V6
  - supports unlimited number of profiles

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Overview

The Visual Inspection Cockpit is an Industrial Edge application that enables AI-powered visual inspection without requiring AI expertise. It combines flexible AI and robust computer vision algorithms to solve complex visual inspection challenges in production environments. The application allows users to integrate multiple inspection tasks into a single system, using only a small number of NOK training images.

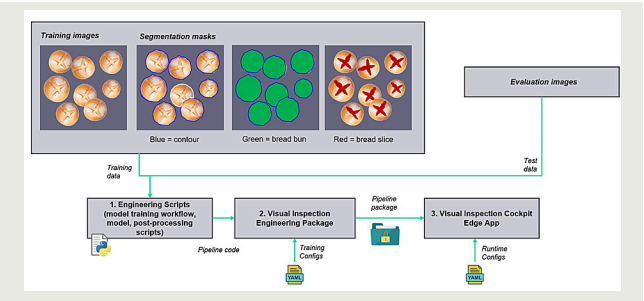
The application can be ordered from this link.

Mode of operation

The application operates in two primary phases:

Engineering phase:

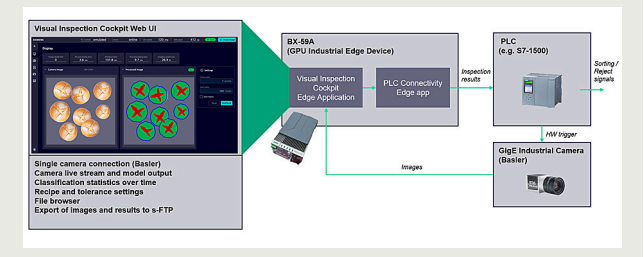
- Collect a small number of images manually or using the harvesting mode
- Train the provided model with images containing defects
- Customize the inspection pipeline
- Export the pipeline package



Runtime phase:

- Connect industrial camera and PLC to the Industrial Edge device
- Import the prepared pipeline package
- Configure system settings
- Validate settings in emulation mode
- Switch from emulation to closed-loop mode

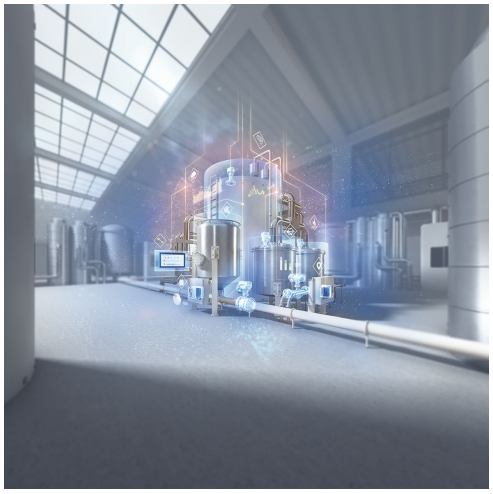
Further documentation can be found here.



Technical specifications

- Platform: Siemens Industrial Edge
- AI Capabilities: Flexible vision algorithms
- Image Training: Minimal image requirements
- Integration: PLC and IT system compatibility
- Deployment: Managed Edge Infrastructure

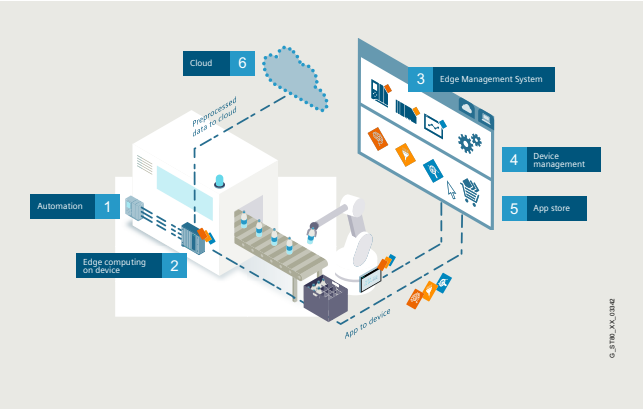
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5/2	**Industrial Edge**
5/2	Introduction
5/3	Industrial Edge Management
5/4	Industrial Edge apps
5/5	AI Inference Server
5/6	Energy Manager
5/7	Inventory
5/8	LiveTwin
5/9	Machine Insight
5/10	Notifier
5/11	Performance Insight
5/12	SIMATIC Automation Tool
5/13	WinCC Unified Runtime for Industrial Edge
5/14	Partner apps
5/15	SINEC Traffic Analyzer
5/16	Industrial Edge Connectivity and Integration Layer
5/17	Audio Connector
5/18	Common Configurator
5/19	EtherNet/IP Connector
5/20	IIH Asset Attributes Upgrade
5/21	IIH Essentials
5/22	IIH Semantics
5/23	Industrial Information Hub
5/24	Modbus TCP Connector
5/25	PROFINET IO Connector
5/26	SIMATIC S7+ Connector
5/27	Common Import Converter
5/28	Partner apps
5/29	Industrial Edge devices
5/30	SIMATIC IPC127E
5/37	SIMATIC IPC227E
5/43	SIMATIC IPC427E
5/51	SIMATIC IPC847E
5/59	SIMATIC IPC BX-21A
5/63	SIMATIC IPC227G
5/68	Industrial Edge Virtual Device
5/69	SIMATIC HMI Unified Comfort Panels Standard
5/79	SIMATIC HMI Unified Comfort Panels Hygienic
5/90	SCALANCE LPE
5/94	SIMATIC IPC BX-39A
5/100	SIMATIC IPC BX-59A

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Overview



Industrial Edge

Expands the industrial automation technology with openness and flexibility for simple and intuitive processing, analysis and saving of production data.

Provides an integrated and secure runtime environment for running high-level programming language-based Edge applications (on the basis of the Docker IT standard) for local and powerful data processing and analysis at the automation level.

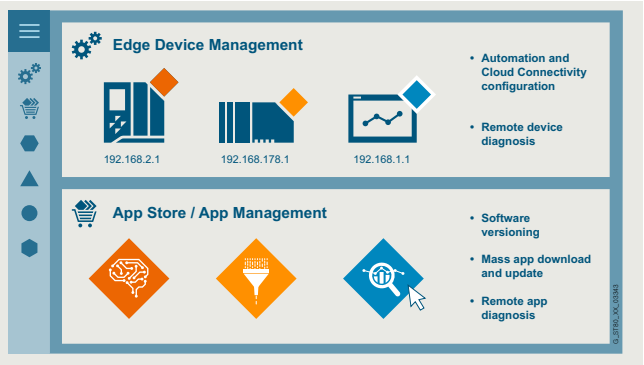
As compared to conventional PC-based systems, Industrial Edge enables an integrated connection to automation and cloud systems without additional programming workload and offers the option to manage Edge devices and software worldwide with one central management system. This makes data processing solutions future-proof to the maximum possible extent and enables new possible applications such as centralized software administration and versioning, for example for global recipe management.

Industrial Edge comprises the following products:

- Industrial Edge devices with Industrial Edge Runtime for running Edge applications at the automation level
- Industrial Edge applications
- Industrial Edge Management for central management of Edge devices and applications
- Industrial Edge Hub as central entry point for Edge-related software downloads and additional information, such as user documentation.

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Overview



Industrial Edge Management (central Edge devices and application software management)

Industrial Edge Management is the central infrastructure with which all connected Edge devices and their software can efficiently be operated and managed over the complete life cycle within a factory or worldwide.

Instead of having to run software updates and security patches on each device individually, you control everything centrally from one system, which can be installed on-premises, within the IT infrastructure or in private/public cloud solutions as required.

The system is offered as:

- Installation for PCs and IT cloud infrastructures via an ISO image
- Software as a service solution based on Siemens MindSphere (planned)

Moreover, Industrial Edge Management offers access to innumerable Edge applications of customers, partners and Siemens in the context of the open ecosystem.

Unified Comfort Panel with integrated Edge device management

In addition to central management of all connected Edge devices, the SIMATIC HMI Unified Comfort Panel offers the possibility to run the Edge applications and to manage, start and stop Edge applications directly on the HMI.

Licenses

Industrial Edge Hub Access:

To obtain access to the Industrial Edge Management software, you first need access to the Industrial Edge Hub, which is available globally.
This is done using the Industrial Edge Hub Access license. The Industrial Edge Hub contains all the information you need to commission an Industrial Edge solution such as documentation, software (Edge Management system, Edge App Publisher) for download.
The scope of supply includes the option of connecting and managing one (1) Edge device per Industrial Edge Management system free of charge.

Industrial Edge Management license:

An annual fee is charged for each additional Industrial Edge device that is connected with the central Edge management for the central update, firmware updates, security patches and continuous further development of the system.

Each connected device requires one (1) Industrial Edge Management license.

The previously customary one-off fee for software does not apply at all to the Industrial Edge Management. Licensing is implemented for a period of one year based on the number of connected Edge devices (software update contract).

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Overview

Industrial Edge applications

Industrial Edge apps enable information technology such as object-oriented programming, databases, data layers and artificial intelligence to be embedded in the control level.

Industrial Edge apps enable innovative applications relating to diagnostics and analysis of large, highly frequent data volumes in the automation and manufacturing environment, such as preventive maintenance. They are provided by partners and by Siemens and can be developed for specific customers based on individual requirements.

The proprietary development of Industrial Edge apps takes place based on Docker technology with programming languages such as C, C++, C#, Java, Python, Node.js.
Due to the use of container technology, developed Industrial Edge apps can be scaled up to the cloud across devices.

In line with the openness concept, Industrial Edge apps can combine any applications, for example web servers, web sockets, databases, complex calculations and more, including open source-based components. Integrated apps, e.g. based on the open source framework Node-Red or Mendix, allow you to get started quickly with local data processing.

The following Industrial Edge apps are already available or will be available soon:

- Energy Manager
- IE Flow Creator
- Inventory
- LiveTwin
- Machine Insight
- Notifier
- Performance Insight
- SIMATIC Automation Tool
- SIMATIC WinCC Unified Online Engineering for Industrial Edge
- SIMATIC WinCC Unified Runtime for Industrial Edge
- Partner apps

Furthermore, a large number of applications are included in the Industrial Edge offering as standard, or can be obtained as an application example free of charge:

- Cloud Connector (available free of charge in the Industrial Edge Hub)
- SIMOTION Trace Connector (application example)

The following Industrial Edge apps and other apps will be available at a later time:

- Device Scanner Service

Licenses

There are no additional costs for Industrial Edge applications developed by you in high-level programming languages based on Docker.

Siemens applications are licensed individually and on an annual basis with a software update contract.

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Overview

AI Inference Server standardizes AI model execution on Siemens Industrial Edge. It facilitates data collection/acquisition, orchestrates data traffic, and is compatible with all powerful AI frameworks.

More information is available at this link.

Ordering option

The app can be ordered from the Industrial Edge Marketplace at this link.

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Overview

Industrial Edge app – Energy Manager

Energy Manager forms the basis for energy optimization – from the machine to the entire plant.
With Energy Manager, the user can define KPIs in a few simple steps and display them in a suitable way on the dashboard.
A pre-defined dashboard enables analysis of the consumption of various media, the costs and the corresponding CO2 emission.
Integrated analysis functionality enables rapid data analysis to generate information.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Industrial Edge app Inventory

Industrial Edge app Inventory scans and visualizes the installed PROFINET & network components of a plant and machine.

The detected PROFINET & network components are aggregated in an overview, detail information displayed in a detail view, and release checks performed via whitelist/blacklist.

In addition, the installed PROFINET & network components can be started and managed centrally via MQTT.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Industrial Edge app LiveTwin enables users of Siemens Industrial Edge to easily and directly run 1D simulation models.
LiveTwin Edge app can run a wide variety of 1D simulation models, such as simulations of mechatronic systems.

The following scenarios are possible:

- Export simulation models directly from MATLAB® Simulink®, Amesim, Open Modelica, and more than 100 other simulation tools and simply play them in the Siemens Edge devices. No additional engineering work is required.
- Execute simulations that were created in different domain-specific tools and wire all parts to each other.
- Use the natively supported interfaces of Siemens Industrial Edge to connect the simulation to the automation and further systems.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Machine Insight

Machine Insight monitors industrial machines incl. automation components and provides an overview of the historical states of machines and plants.

In this way, maintenance engineers can retrospectively evaluate and analyze changes and states of the machines and resolve failure times after they have already been acknowledged.

Through this retrospective diagnostics, failure times of systems and machines can be reduced to a minimum.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Industrial Edge app Notifier

Industrial Edge app Notifier monitors customer-specific assets and sends notifications directly to employees' smartphones or smartwatches.
As soon as an employee accepts a notification, everyone can see who is handling the notification – this also simplifies the coordination of service technicians, for example.

Due to this fast reaction time of the operators, failure times of systems and machines can be reduced to a minimum.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Industrial Edge app Performance Insight

Industrial Edge app Performance Insight provides the option to visualize and analyze machine parameters and process data directly on the device.

Individual key performance indicators (KPIs) can be calculated and visualized with Performance Insight. Built-in data aggregations enable the evaluation of existing data.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

SIMATIC Automation Tool

The SIMATIC Automation Tool enables users to manage TIA automation components during commissioning, maintenance tasks and in case of service.

What makes the SIMATIC Automation Tool special is that it is based on TIA Portal projects and a CPU update can be performed independently of the engineering framework.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

SIMATIC WinCC Unified Runtime for Industrial Edge

The SIMATIC WinCC Unified for Industrial Edge system combines first-class SIMATIC HMI solutions with Industrial Edge, using the comfortable WinCC Unified Engineering (TIA Portal).

It offers app-based monitoring and control of machines, where data from production can be combined with information from other Edge apps.

This application can be purchased via the Edge Marketplace under this link

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

As a customer, you can find the right app for your application from partners and Siemens in the Industrial Edge Marketplace (at this link).
On the open Industrial Edge platform, app developers and partners can develop applications and sell them via the Industrial Edge Marketplace.
If you wish to publish applications yourself in the future, please contact us via email.

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Overview

The SINEC Traffic Analyzer software is an on-premise application that monitors PROFINET networks and their communication. The software analyzes the network traffic between PROFINET controller and device. Potential communication problems can thus be identified at an earlier stage and possible causes and information on how to eliminate them can be derived. The analysis is performed passively, based on the mirrored network traffic, and has no impact on plant operation.

Main features:

- Monitoring of the PROFINET communication relationships
- Jitter monitoring & analysis
- Flexible configuration of warning and alarm limits
- Long-term monitoring of jitter and communication problems
- Automatic creation of capture files

Selection and ordering data

	Article No.
SINEC Traffic Analyzer V1.1 SINEC Traffic Analyzer app - subscription bundle, delivered as download, license type "single" ****Monitoring of PROFINET networks to reduce downtimes through efficient fault and root cause detection**** Under this contract, you receive all current software versions; period of delivery and service: 1 year from date of invoice. Automatic renewal if not canceled 30 days before expiration; requirement: none Consignee email address required for delivery	**6GK8822-1BG01-0BA0**

1) For more details on Online Software Delivery, visit: http://www.siemens.com/tia-online-software-delivery

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Overview

Industrial Edge Connectivity and Integration Layer
This node lists all Industrial Edge Connectors as well as applications for integration and services.
These include the following applications:

- IIH Essentials
- EtherNet/IP Connector
- Modbus TCP Connector
- PROFINET IO Connector
- SIMATIC S7+ Connector
- SLMP Connector
- etc.

These applications can be purchased via the Edge Marketplace under this link.

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Overview

Industrial Edge app Audio Connector

The Audio Connector offers the possibility of simultaneously connecting different USB audio input devices to an Industrial Edge Device and making the audio data available on the Industrial Edge Databus.

Are you a manufacturer or operator of machines or do you produce end products and have you ever asked yourself how you can predict the status of your plant based on its sound?

Do you want to connect one or more audio input devices to record the sound of your plants?

Do you want to make this audio data available on the Industrial Edge data bus so that other Industrial Edge applications can use it for analysis to generate deeper insights?

Do you use different (PLC) connectors to obtain data from your automation equipment?

The Audio Connector is integrated into the Connectivity Suite and is therefore compatible with other connectors and the Common Configurator, and supports various standard USB audio input devices.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

The central configuration interface of the Industrial Information Hub – the Common Configurator.

Common Configurator is the user interface for the Industrial Information Hub and all compatible Industrial Edge connectors. This is used to configure the connectors, IIH Essentials and IIH Semantics via an integrated UI.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email.

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Overview

EtherNet/IP Connector

EtherNet/IP Connector enables the connection of EtherNet/IP devices, for reading and writing process values from the automation technology.
It provides the data via IE data bus for Industrial Edge applications and services.

Industrial Edge app developers and users can use the data in their own and existing applications and services, e.g. Data Service.

Industrial Edge Connectors provide a unified data interface to reduce development work for Industrial Edge apps.
This enables innovative & modular software solutions

Industrial Edge Connectors can be combined with SIEMENS Industrial Edge apps, e.g. Performance Insight, Notifier, Energy Manager, and many more.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

IIH Asset Attributes Upgrade adds additional data points to the data structure of the Industrial Information Hub.

IIH Asset Attributes Upgrade is an upgrade package for the Industrial Information Hub with which you can connect one thousand (1000) additional asset attributes. An "asset attribute" represents individual data records such as temperature, pressure or speed. Example: day, alarm channels.

This package can be purchased and used multiple times, depending on the required asset attributes.

The use of the Industrial Information Hub for up to 100 asset attributes is already included in IIH Essentials.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

IIH Essentials

IIH Essentials is the tool to store and structure the data of the connected machine.
In addition, calculated data, such as the KPIs of Performance Insight, is stored in IIH Essentials.
Higher-level apps, such as Performance Insight, access the structure and data storage of IIH Essentials and receive their machine data from it.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

IIH Semantics to control the flow of data from the connector to the higher-level system.

Industrial Information Hub Semantics adds semantics to shopfloor data. This is achieved by mapping IT and OT data based on the OPC UA data model. IIH Semantics also includes OPC UA server and client functions that make data access to the information model flexible.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Industrial Edge app: Industrial Information Hub

The Industrial Information Hub Edge app is an integration runtime software that connects OT with IT.

A large number of connectors allows the user to connect almost all brownfield devices and to transfer the machine parameters and process data into an OPC UA asset model.
This also allows old devices to be integrated into the modern IT landscape.

The Industrial Information Hub offers data pre-processing, long-term data memory, and a high-performance interface that allows the user to query the data from the asset model via semantic access.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Modbus TCP Connector

The Modbus TCP Connector enables the connection of Modbus TCP devices, for reading and writing process values from the automation technology.
It makes the data available via IE Data Bus and directly in IIH Essentials for Industrial Edge applications and services.
Industrial Edge app developers and users can use the data in their own and existing applications and services, e.g. IIH Essentials.
Industrial Edge connectors provide a standardized data interface to reduce development efforts for Industrial Edge app.
This enables innovative & modularized software solutions.
Industrial Edge connectors can be combined with SIEMENS Industrial Edge apps, e.g. Performance Insight, Notifier, Energy Manager, and many more.
This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

PROFINET IO Connector

PROFINET IO Connector enables reading and writing of process values in automation technology by connecting PROFINET IO devices, PLCs via I-device and data couplers (e.g. PN/PN coupler). PROFINET IO Connector makes the data available for Industrial Edge applications and services via the IE data bus.

Industrial Edge app developers and Industrial Edge app users can use the data in their own and existing applications and services, e.g. Data Service.

To reduce development work for Industrial Edge apps, Industrial Edge Connector provides a unified data interface and enables innovative & modular software solutions.

Industrial Edge Connectors can be combined with SIEMENS Industrial Edge apps, e.g. Performance Insight, Notifier, Energy Manager, and many more.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

The SIMATIC S7+ Connector is a southbound connector for Industrial Edge, which can be used to collect data from S7-1200/1500 PLCs and PLCSim Adv.

The SIMATIC S7+ Connector allows users to connect their applications via the Industrial Edge Management System to various SIMATIC S7 PLCs.
It supports high-frequency data transmissions and can write data back to the PLC.

This high-performance connector supports the following PLCs: S7-1500 PLCs, S7-1200 PLCs, PLCSim Advanced and the Siemens software controllers.

The S7+ Connector is configured via the Common Configurator, which is available on the Industrial Edge Marketplace.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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Overview

Industrial Edge app – Common Import Converter

The Common Import Converter allows the user to import the complete set of possible data points from TIA Portal offline.
To be able to configure any device with the Common Configurator, an application is required that converts device-specific configuration files into Industrial Information Hub/IIH-compatible configuration files.
After receiving a device-specific configuration file, the Common Configurator prompts the S7+ Common Import Converter to convert this specific file into an IIH-compatible configuration file.

This application can be purchased via the Edge Marketplace under this link.

If you have any questions, please get in touch with your contact person in the region or contact us via email

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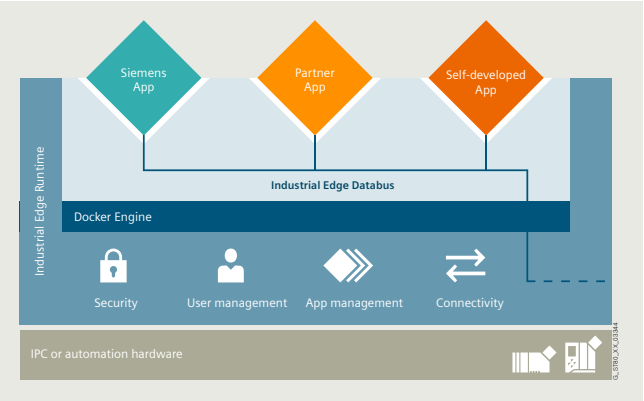
Overview

As a customer, you can find the right app for your application from partners and Siemens in the Edge Marketplace under this link.
On the open Industrial Edge platform, app developers and partners can develop applications and sell them via the Industrial Edge Marketplace.
If you wish to publish applications yourself in the future, please contact us via email.

If you wish to publish applications yourself in the future, please contact us via email

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Overview



Industrial Edge Runtime

Edge devices with Industrial Edge Runtime

Industrial Edge Runtime enables secure, local execution of any number of Edge applications on different Edge systems.

- Providing the integrated connectivity of Industrial Edge Runtime to systems at the field, control and IT/cloud level reduces the software implementation workload on the customer end as compared to conventional data processing solutions based on Linux and Windows.
- Based on the open container standard Docker, Edge applications can be scaled and run on a wide range of Edge devices after being programmed once. Furthermore, this allows software to be broken up into manageable units and these units to be updated, started and stopped in a dedicated manner – remotely for maximum convenience.
- An integrated databus on Industrial Edge Runtime based on MQTT enables secure and controlled app-to-app communication as well as data exchange between external systems and Edge apps. In this way, interface dependencies are elegantly resolved – after being programmed once, apps can be integrated in various domains and automation systems.
- The Edge devices are commissioned and configured via Industrial Edge Management.

Dedicated Edge devices

Dedicated Edge devices with preinstalled Industrial Edge Runtime are supplied for the sole purpose of Edge-based data processing.

Industrial PCs of various performance classes are offered with preinstalled Edge Runtime:

- SIMATIC IPC227E (Article No.: 6ES7647-8BD31-0CW1)
- SIMATIC IPC427E (Article No.: 6AG4141-5BC30-0FW8)
- SIMATIC IPC847E (Article No.: 6AG4114-3RR15-0WY0)

Edge-enabled automation systems

These devices offer native support of Industrial Edge Runtime **in addition** to their technological function. This enables high-performance data processing with short latency times, as well as functional expansion through apps. By onboarding the devices to the central management system, any number of devices can be administered centrally.

The SIMATIC HMI Unified Comfort Panels are the first device family to be supplied "Edge-enabled" as standard (see "HMI devices -> Advanced HMI Panel-based -> SIMATIC HMI Unified Comfort Panels").

Overview (continued)

Licenses:

For centralized management of distributed Edge devices and the Edge applications, additional usage fees are incurred per connected device in connection with Industrial Edge Management.

Industrial Edge Virtual Device

The Industrial Edge Virtual Device allows you to implement Industrial Edge use cases in an IT infrastructure as a virtual machine.

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Overview



SIMATIC IPC127E:
Ultra-compact IoT gateway for data collection, preprocessing, and forwarding of data

Thanks to the ultra-compact enclosure, which has a volume of just 0.3 liters, the SIMATIC IPC127E can be easily – even subsequently – integrated into the control cabinet or directly on the machine with minimal space requirements.

The enclosed all-metal enclosure enables the new industrial PC to be used flexibly and maintenance-free even under harsh conditions. Thus the SIMATIC IPC127E makes it possible to reliably record / collect / process / transfer data directly in the production environment and can be flexibly used as an IoT gateway between the cloud or the corporate IT level and production. Thanks to pre-configured versions, the right product is available to users in a very short time.

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Selection and ordering data

SIMATIC IPC127E	6AG4021-0A	❑	1	❑	-	❑	❑	❑	0
Processor / RAM / TPM									
• Atom E3930 (2C/2T) / 2 GB RAM		A							
• Atom E3940 (4C/4T) / 4 GB RAM		B							
• Atom E3930 (2C/2T) / 2 GB RAM / TPM		C							
• Atom E3940 (4C/4T) / 4 GB RAM / TPM		D							
Box type									
• Basic version; 2x Ethernet RJ45, 2x USB 3.0				1					
• Extended version; 3x Ethernet RJ45, 4x USB 3.0				2					
Operating system									
• None						0			
• Windows 10 IoT Enterprise 2016 LTSC, 64-bit, MUI (en, de, fr, it, es)						1			
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)						2			
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)						3			
Drives									
• 32 GB SSD							A		
• 64 GB SSD							B		
• 128 GB SSD							C		
SIMATIC Software									
• Without SIMATIC Software								A	
• Industrial Edge - SIMATIC								B	
• Industrial Edge - SINUMERIK								C	

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

SIMATIC IPC127E	
Configuration 1 • Processor / RAM: 2 core / 2 GB RAM • Box type: Base • Operating system: None • Drive: 32 GB SSD	**6AG4021-0AA11-0AA0**
Configuration 2 • Processor / RAM: 2 core / 2 GB RAM • Box type: Extended • Operating system: None • Drive: 64 GB SSD	**6AG4021-0AA12-0BA0**
Configuration 3 • Processor / RAM: 4 core / 4 GB RAM • Box type: Base • Operating system: None • Drive: 64 GB SSD	**6AG4021-0AB11-0BA0**
Configuration 4 • Processor / RAM: 4 core / 4 GB RAM • Box type: Extended • Operating system: None • Drive: 128 GB SSD	**6AG4021-0AB12-0CA0**
Configuration 5 • Processor / RAM: 2 core / 2 GB RAM • Box type: Base • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 64 GB SSD	**6AG4021-0AA11-1BA0**

SIMATIC IPC127E	
Configuration 6 • Processor / RAM: 4 core / 4 GB RAM • Box type: Base • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 64 GB SSD	**6AG4021-0AB11-1BA0**
Configuration 7 • Processor / RAM: 4 core / 4 GB RAM • Box type: Base • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 128 GB SSD	**6AG4021-0AB11-1CA0**
Configuration 8 • Processor / RAM: 4 core / 4 GB RAM • Box type: Extended • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 64 GB SSD	**6AG4021-0AB12-1BA0**
Configuration 9 • Processor / RAM: 4 core / 4 GB RAM • Box type: Extended • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 128 GB SSD	**6AG4021-0AB12-1CA0**

Note:
All configurations of the SIMATIC IPC127E do not include any mounting accessories. They must be ordered separately.

Mounting accessories	
DIN rail	**6AG4021-0AA20-0AA1**
Wall-mount	**6AG4021-0AA20-0AA2**
Book-mount Base	**6AG4021-0AA20-0AA3**
Book-mount Extended	**6AG4021-0AA20-0AA4**
Book-mount DIN-Rail	**6AG4021-0AA20-0AA5**

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Technical specifications

Article number	6AG4021-0A.1.-..A0 SIMATIC IPC127E
General information	
Product type designation	IPC127E
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Processor	
Processor type	Intel Atom E3930 / E3940
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 32 / 64 / 128 GB
Storage	
Type of memory	DDR4 onboard
Main memory	2 / 4 GB RAM
Interfaces	
Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45)
USB port	2x USB 3.0 / 4x USB 3.0
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	2x / 3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional

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Technical specifications (continued)

Article number	6AG4021-0A.1.-..A0 SIMATIC IPC127E
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to 2.7 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4; burst); ±0,5 kV (according to IEC 61000-4-5; surge pulse/line to line); ±1 kV (according to IEC 61000-4-5; surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-4:2007 +A1:2011 (industrial environments), EN 61000-6-3:2007 +A1:2011 (residential environments), CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Relative humidity	5 ... 85 % at 30 °C, no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI
without operating system	Yes; Optional

Article number	6AG4021-0AA11-0AA0 SIMATIC IPC127E	6AG4021-0AA12-0BA0 SIMATIC IPC127E	6AG4021-0AB11-0BA0 SIMATIC IPC127E	6AG4021-0AB12-0CA0 SIMATIC IPC127E
General information				
Product type designation	IPC127E	IPC127E	IPC127E	IPC127E
Installation type/mounting				
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit

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Technical specifications (continued)

Article number	6AG4021-0AA11-0AA0 SIMATIC IPC127E	6AG4021-0AA12-0BA0 SIMATIC IPC127E	6AG4021-0AB11-0BA0 SIMATIC IPC127E	6AG4021-0AB12-0CA0 SIMATIC IPC127E
Supply voltage				
Type of supply voltage	24 V DC	24 V DC	24 V DC	24 V DC
Mains buffering				
• Mains/voltage failure stored energy time	5 ms	5 ms	5 ms	5 ms
Processor				
Processor type	Intel Atom E3930, 1.3 GHz, 2 cores	Intel Atom E3930, 1.3 GHz, 2 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores
Graphic				
Graphics card	Yes	Yes	Yes	Yes
Drives				
SSD	Yes; 32 GB	Yes; 64 GB	Yes; 64 GB	Yes; 128 GB
Storage				
Type of memory	DDR4	DDR4	DDR4	DDR4
Main memory	2 GB RAM	2 GB RAM	4 GB RAM	4 GB RAM
Interfaces				
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)	3; 3x Ethernet (RJ45)	2; 2x RJ45 (independent)	3; 3x Ethernet (RJ45)
Number of PROFINET interfaces	2	3	2	3
Video interfaces				
• Graphics interface	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort
Industrial Ethernet				
• Industrial Ethernet interface				
- 100 Mbps	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes
Protocols				
Protocols (Ethernet)				
• TCP/IP	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information				
LED status display	1x power, 3x user	1x power, 3x user	1x power, 3x user	1x power, 3x user
Integrated Functions				
Monitoring functions				
• Temperature monitoring	Yes	Yes	Yes	Yes
• Fan	No	No	No	No
Degree and class of protection				
IP degree of protection	IP40	IP40	IP40	IP40
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
Dust protection	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Vibrations				
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2
Operating systems				
pre-installed operating system	No	No	No	No
Dimensions				
Width	85 mm	85 mm	85 mm	85 mm
Height	85 mm	104 mm	85 mm	104 mm
Depth	41 mm	41 mm	41 mm	41 mm

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Technical specifications (continued)

Article number	6AG4021-0AA11-1BA0 SIMATIC IPC127E	6AG4021-0AB11-1BA0 SIMATIC IPC127E	6AG4021-0AB11-1CA0 SIMATIC IPC127E	6AG4021-0AB12-1BA0 SIMATIC IPC127E	6AG4021-0AB12-1CA0 SIMATIC IPC127E
General information					
Product type designation	IPC127E	IPC127E	IPC127E	IPC127E	IPC127E
Installation type/mounting					
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage					
Type of supply voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Mains buffering					
• Mains/voltage failure stored energy time	5 ms	5 ms	5 ms	5 ms	5 ms
Processor					
Processor type	Intel Atom E3930, 1.3 GHz, 2 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores
Graphic					
Graphics card	Yes	Yes	Yes	Yes	Yes
Drives					
SSD	Yes; 64 GB	Yes; 64 GB	Yes; 128 GB	Yes; 64 GB	Yes; 128 GB
Storage					
Type of memory	DDR4	DDR4	DDR4	DDR4	DDR4
Main memory	2 GB RAM	4 GB RAM	4 GB RAM	4 GB RAM	4 GB RAM
Interfaces					
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)
Number of PROFINET interfaces	2	2	2	3	3
Video interfaces					
• Graphics interface	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort
Industrial Ethernet					
• Industrial Ethernet interface					
- 100 Mbps	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes
Protocols					
Protocols (Ethernet)					
• TCP/IP	Yes	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information					
LED status display	1x power, 3x user	1x power, 3x user	1x power, 3x user	1x power, 3x user	1x power, 3x user
Integrated Functions					
Monitoring functions					
• Temperature monitoring	Yes	Yes	Yes	Yes	Yes
• Fan	No	No	No	No	No
Degree and class of protection					
IP degree of protection	IP40	IP40	IP40	IP40	IP40
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes
Dust protection	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C	55 °C
Vibrations					
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²

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Technical specifications (continued)

Article number	6AG4021-0AA11-1BA0 SIMATIC IPC127E	6AG4021-0AB11-1BA0 SIMATIC IPC127E	6AG4021-0AB11-1CA0 SIMATIC IPC127E	6AG4021-0AB12-1BA0 SIMATIC IPC127E	6AG4021-0AB12-1CA0 SIMATIC IPC127E
Operating systems					
pre-installed operating system	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Dimensions					
Width	85 mm	85 mm	85 mm	85 mm	85 mm
Height	85 mm	85 mm	85 mm	104 mm	104 mm
Depth	41 mm	41 mm	41 mm	41 mm	41 mm

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Overview



SIMATIC IPC227E (Nanobox PC): The Box PC with optimized performance in compact design – maintenance-free and rugged

The SIMATIC IPC227E Nanobox PC is an extremely compact and flexible embedded industrial PC.

Thanks to its closed, dust-protected all-metal enclosure, the IPC227E offers maximum industrial functionality for flexible use under harsh conditions – while remaining maintenance-free.

Modern interfaces and the option for expansion via a PCIe slot mean this Box PC can be easily integrated into the automation system. In the version with preinstalled Industrial Edge Runtime, it also supports modern Edge architectures. In the version with preinstalled Industrial Edge Runtime, it also supports modern Edge architectures. The latest Intel Dual-Core and Quad-Core processors ensure excellent performance here in an ultra-compact design.

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Selection and ordering data

SIMATIC IPC227E	6ES7647-8B	❑	❑	❑	-	❑	❑	❑	❑
Processor									
• Celeron N2807 (2C/2T)		A							
• Celeron N2930 (4C/4T)		B							
• Celeron N2807 (2C/2T)/TPM		C							
• Celeron N2930 (4C/4T)/TPM		D							
• Celeron E3845 ET (4C/4T)/TPM		E							
Work memory/NVRAM									
• 2 GB			1						
• 4 GB			2						
• 8 GB			3						
• 2 GB/NVRAM			4						
• 4 GB/NVRAM			5						
• 8 GB/NVRAM			6						
• 4 GB RAM ET/NVRAM			7						
Device version/interface									
• Basic without COM				1					
• Basic with COM1/2				2					
• PCIe without COM				3					
• PCIe with COM1/2				4					
Operating system									
• Without operating system					0				
• Windows Embedded Standard 7 E SP1, English, 32-bit					1				
• Windows Embedded Standard 7 E SP1, English, 64-bit					2				
• Windows Embedded Standard 7 P SP1, English, 32-bit					3				
• Windows Embedded Standard 7 P SP1, English, 64-bit					4				
• Windows 7 Ultimate SP1, 32-bit, MUI (en, de, fr, it, es)					5				
• Windows 7 Ultimate SP1, 64-bit, MUI (en, de, fr, it, es)					6				
• Windows 10 Enterprise 2016 LTSB, 64-bit, MUI (en, de, fr, it, es)					7				
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)					8				
Mass storage									
• None						A			
• 256 GB Eco SSD						E			
• 240 GB SSD						C			
• 480 GB SSD						D			
• 60 GB SSD ET						H			
• 8 GB CFast						L			
• 16 GB CFast						M			
• 128 GB CFast						N			
• 320 GB HDD						R			
Software									
• Without SIMATIC Software							A		
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)							B		
• SIMATIC Industrial OS V2							N		
• Industrial Edge Sinumerik							V		
• Industrial Edge - SIMATIC							W		
Mounting accessories									
• DIN rail									1
• Wall mounting									2
• Portrait mounting									3
• DIN rail mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									4
• Wall mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									5
• Portrait mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									6

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

The SIMATIC IPC online configurator offers a current overview at this link.

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Selection and ordering data (continued)

SIMATIC IPC227E (Nanobox PC) with preinstalled Industrial Edge Runtime 1 x DisplayPort; 2x 10/100/1000 Mbps Ethernet RJ45; 1 x USB 3.0, 3 x USB 2.0; CFast slot; 24 V DC industrial power supply Industrial Edge (SIMATIC)	**6ES7647-8BD31-0CW1**

Technical specifications

Article number	6ES7647-8B...-.... SIMATIC IPC227E (Nanobox PC)
General information	
Product type designation	IPC227E
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Celeron N2807 / N2930, Intel Atom E3845
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 256 Eco / 240 / 480 GB
Storage	
Type of memory	DDR3L SO-DIMM
Main memory	2 / 4 / 8 GB
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots	1x PCIe (x1) (optional)
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Ethernet (RJ45)
USB port	1x USB 3.0 / 3x USB 2.0
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional

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Technical specifications (continued)

Article number	6ES7647-8B...-.... SIMATIC IPC227E (Nanobox PC)
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Dust protection	Protection against foreign bodies > 1 mm
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
• Chinese Classification Society (CCS)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; -20 °C as option
• max.	60 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms

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Technical specifications (continued)

Article number	6ES7647-8B...-.... SIMATIC IPC227E (Nanobox PC)
Operating systems	
pre-installed operating system	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 E/P, 32-bit / 64-bit
Additional info on operating system	optional: SIMATIC Industrial OS
without operating system	Yes; Optional
Software	
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
Dimensions	
Width	191 mm
Height	100 mm
Depth	60 mm

Article number	6ES7647-8BD31-0CW1 SIMATIC IPC227E (Nanobox PC)
General information	
Product type designation	IPC227E
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Celeron N2930
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 240 GB
Storage	
Type of memory	DDR3L SO-DIMM
Main memory	8 GB RAM
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Ethernet (RJ45)
serial interface	No
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Fan	No
• Monitoring function via network	Optional
Degree and class of protection	
IP degree of protection	IP40

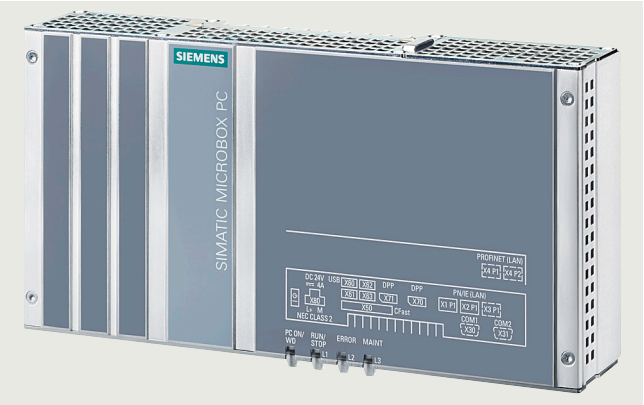
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Technical specifications (continued)

Article number	6ES7647-8BD31-0CW1 SIMATIC IPC227E (Nanobox PC)
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
Dust protection	Protection against foreign bodies > 1 mm
Use in hazardous areas	
• ATEX Zone 2	Yes; Optional
• IECEx Zone 2	Yes; Optional
• cULus Class I Zone 2, Division 2	Yes; Optional
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
• Chinese Classification Society (CCS)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Operating systems	
pre-installed operating system	SIMATIC Industrial OS
Dimensions	
Width	191 mm
Height	100 mm
Depth	60 mm

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Overview



SIMATIC IPC427E (Microbox PC): The powerful embedded IPC – maintenance-free with versatile configuration

Ready-to-run, complete solution:

- Ultra-compact
- Maintenance-free
- 6th Generation Intel Core i technology

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Selection and ordering data

SIMATIC IPC427E (Box PC) [1]	6AG4141-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processor and fieldbus											
• Celeron G3902E; 2 x Gigabit Ethernet (IE/PN)		0									
• Celeron G3902E; 3 x Gigabit Ethernet (IE/PN)		1									
• Core i3-6102E; 3 x Gigabit Ethernet (IE/PN)		3									
• Core i5-6442EQ; 3 x Gigabit Ethernet (IE/PN)		5									
• Xeon E3-1505L; 3 x Gigabit Ethernet (IE/PN)		7									
Mounting accessories/ATEX											
• Without mounting accessories			A								
• DIN rail mounting			B								
• Wall mounting			C								
• Portrait mounting			D								
• DIN rail mounting with ATEX/IECEx/UL HazLoc			F								
• Wall mounting with ATEX/IECEx/UL HazLoc			G								
• Portrait mounting with ATEX/IECEx/UL HazLoc			H								
Work memory/NVRAM/ECC											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 8 GB with ECC				D							
• 16 GB with ECC				E							
• 4 GB and NVRAM				F							
• 8 GB and NVRAM				G							
• 16 GB and NVRAM				H							
• 8 GB with ECC and NVRAM				J							
• 16 GB with ECC and NVRAM				K							
Expansions/interfaces											
• No RS232/RS485, without PCIe					0						
• No RS232/RS485 and one PCIe					1						
• No RS232/RS485 and two PCIe					2						
• Two RS232/RS485, without PCIe					3						
• Two RS232/RS485 and one PCIe					4						
• Two RS232/RS485 and two PCIe					5						
• Two RS232/RS485 and two PCIe (x4 and x1), PCI x4 occupied with AI Accelerator					6						
Operating system											
• Without operating system						0					
• Windows Embedded Standard 7 SP1, English, 32-bit						1					
• Windows Embedded Standard 7 SP1, English, 64-bit						2					
• Windows Embedded Standard 7 SP1, English, 64-bit, multi-touch						3					
• Windows 7 Ultimate SP1, 64-bit, MUI (en, de, fr, it, es)						4					
• Windows 10 IoT Enterprise 2019 LTSC (64-bit) for Celeron, Core i3 and Core i5 processors						5					

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Selection and ordering data (continued)

SIMATIC IPC427E (Box PC) [1]	6AG4141-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• Windows 10 IoT Enterprise 2019 LTSC (64-bit) for Xeon processor						6					
• Windows 10 Enterprise 2016 LTSB (64-bit) for Celeron, Core i3 and Core i5 processors						7					
• Windows 10 Enterprise 2016 LTSB (64-bit) for Xeon processor						8					
Mass storage, externally accessible											
• Without external mass storage							0				
• CFast 2 GB without operating system							1				
• CFast 4 GB without operating system							2				
• CFast 8 GB (only optionally with operating system/software if no internal mass storage or HDD)							3				
• CFast 16 GB (only optionally with operating system/software if no internal mass storage or HDD)							4				
• CFast 128 GB (only optionally with operating system/software if no internal mass storage or HDD)							5				
Mass storage, internal											
• Without internal mass storage								A			
• 256 GB Eco solid-state drive								D			
• 240 GB solid-state drive SATA								F			
• 480 GB solid-state drive SATA								G			
• 320 GB HDD								J			
SIMATIC Software											
• Without SIMATIC Software									A		
• SIMATIC Industrial OS V2									N		
• Industrial Edge - SINUMERIK									V		
• SINUMERIK PCU Base V14.0 on IPC									X		
Power supply											
• 24 V DC industrial power supply										0	
• 24 V DC and TPM [2]										8	

1) For an up-to-date overview, see the SIMATIC IPC online configurator at this link
2) TPM = Trusted Platform Module

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Selection and ordering data (continued)

Technical specifications

Article number	6AG4141-.....-.... SIMATIC IPC427E (MicroBOX PC)
General information	
Product type designation	IPC427E
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V; PELV / SELV floating
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots	2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer
Interfaces	
Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 485 / 422; switchable)
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional

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Technical specifications (continued)

Article number	6AG4141-.....-.... SIMATIC IPC427E (MicroBOX PC)
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 55022A, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas	
• ATEX Zone 2	Yes; for inscription on device rating plate
• ATEX Zone 22	No
• IECEx Zone 2	Yes; for inscription on device rating plate
• IECEx Zone 22	No
• CCC Ex	Yes; for inscription on device rating plate
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate
• cULus Class II Division 2	No
• FM Class I Division 2	No
• FM Class II Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes

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Technical specifications (continued)

Article number	6AG4141-.....-.... SIMATIC IPC427E (MicroBOX PC)
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
• Shock load during operation	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional
Software	
Pre-installed software	Edge SW (Simatic, Sinumerik), optional
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	55.5 mm; without PCIe

Article number	6AG4141-1AA17-0FA0 SIMATIC IPC427E (MicroBOX PC)	6AG4141-5AB17-0FA0 SIMATIC IPC427E (MicroBOX PC)	6AG4141-5BC30-0FW8 SIMATIC IPC427E (MicroBOX PC)
General information			
Product type designation	IPC427E	IPC427E	IPC427E
Installation type/mounting			
Mounting			standard rail
Design			Box PC, built-in unit
Supply voltage			
Type of supply voltage	24 V DC	24 V DC	24 V DC
Mains buffering			
• Mains/voltage failure stored energy time			20 ms
Processor			
Processor type	Celeron G3902E	Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB cache)	Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB cache)
Chipset			Intel C236 / Intel H110
Graphic			
Graphics controller			Intel HD graphics controller
Graphics card	Yes	Yes	
Drives			
SSD			Yes; ≥ 240 GB optional
Storage			
Type of memory			DDR4-2400 SO-DIMM

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Technical specifications (continued)

Article number	6AG4141-1AA17-0FA0 SIMATIC IPC427E (MicroBOX PC)	6AG4141-5AB17-0FA0 SIMATIC IPC427E (MicroBOX PC)	6AG4141-5BC30-0FW8 SIMATIC IPC427E (MicroBOX PC)
Interfaces			
Number of industrial Ethernet interfaces	3	3	3; Ethernet (2x RJ45, optional 3x RJ45)
Number of PROFINET interfaces	3	3	
serial interface			2x COM (1x RS 232; 1x RS 232 / 422 / 485)
Video interfaces			
• Graphics interface			2x DisplayPort
Industrial Ethernet			
• Industrial Ethernet interface			
- 100 Mbps			Yes
- 1000 Mbps			Yes
Interrupts/diagnostics/status information			
LED status display			1x power, 3x user
Integrated Functions			
Monitoring functions			
• Temperature monitoring			Yes
• Fan			No
• Monitoring function via network			Optional
Degree and class of protection			
IP degree of protection	IP20	IP20	IP20
Standards, approvals, certificates			
CE mark			Yes
UL approval			Yes
• UL 508			Yes
cULus			Yes
RCM (formerly C-TICK)			Yes
KC approval			Yes
EAC (formerly Gost-R)			Yes
FCC			Yes
Use in hazardous areas			
• ATEX Zone 2			Yes; Optional
• IECEx Zone 2			Yes; Optional
• cULus Class I Zone 2, Division 2			Yes; Optional
Marine approval			
• Germanischer Lloyd (GL)			Yes
• American Bureau of Shipping (ABS)			Yes
• Bureau Veritas (BV)			Yes
• Det Norske Veritas (DNV)			Yes
• Korean Register of Shipping (KRS)			Yes
• Lloyds Register of Shipping (LRS)			Yes
• Nippon Kaiji Kyokai (Class NK)			Yes
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	55 °C
Vibrations			
• Vibration resistance during operation acc. to IEC 60068-2-6			tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Operating systems			
pre-installed operating system	Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI	Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI	SIMATIC Industrial OS

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Technical specifications (continued)

Article number	6AG4141-1AA17-0FA0	6AG4141-5AB17-0FA0	6AG4141-5BC30-0FW8
	SIMATIC IPC427E (MicroBOX PC)	SIMATIC IPC427E (MicroBOX PC)	SIMATIC IPC427E (MicroBOX PC)
Dimensions			
Width	262 mm	262 mm	262 mm
Height	133 mm	133 mm	139.69999 mm
Depth	55.5 mm	55.5 mm	55.5 mm; without PCIe

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Overview



SIMATIC IPC847E

Very rugged, high-performance industrial PC in 19" rack design (4 U) with excellent industrial functionality.

It offers:

- Maximum expandability
- Extreme ruggedness
- Intel® Core® i / Xeon technology of the 8th/9th generation

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Selection and ordering data

SIMATIC IPC847E	6AG4114-3	❑	❑	❑	❑	-	❑	❑	❑	❑
Rack PC, 19", 4 U Interfaces: 3x Gbit Ethernet (IE/PN), RJ45; 1x DVI-D; 2x DisplayPort; 1x COM1; audio; 4x USB 3.1, 2x USB 3.1 (type C) on the rear; 2x USB 3.0 on the front, 1x USB 3.1 internal. Temperature and fan monitoring, watchdog, card retainer										
Processors / Boards										
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d). Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		A								
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d). Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		B								
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d). Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		C								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT) Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		D								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		E								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		F								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT) Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		G								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		H								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		J								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		K								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		L								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		M								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		N								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		Q								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		R								
Drives										
• 1 TB HDD 3.5" SATA			A							
• 2x 1 TB HDD 3.5" SATA			B							

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Selection and ordering data (continued)

SIMATIC IPC847E	6AG4114-3 ❑	❑	❑	❑ -	❑	❑	❑	❑
• RAID1, 2x 1 TB HDD 3.5" SATA		C						
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA		D						
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA		E						
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare		F						
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 480 GB 2.5" SSD SATA (for operating system if M.2 SSD not ordered)		G						
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA		H						
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare		J						
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied)		K						
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied) + 480 GB SSD 2.5" SATA		L						
• RAID5, 3x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied)		M						
• RAID5, 3x 2 TB HDD [Enterprise] 3.5" SAS + 2 TB HDD [Enterprise] 3.5" SAS as hot spare; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied)		N						
• 1 TB HDD 3.5" SATA + 480 GB SSD 2.5" SATA (for operating system if M.2 SSD not ordered)		P						
• 480 GB SSD 2.5" SATA		Q						
• 960 GB SSD 2.5" SATA		R						
• 2x 480 GB SSD 2.5" SATA		S						
• RAID1, 2x 480 GB SSD 2.5" SATA		T						
• Without drives		X						
Type of enclosure/power supplies								
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock); 100/240 V AC industrial power supply unit			0					
• Enclosure with drive cage type A (for removable trays on the front); 100/240 V AC industrial power supply unit			1					
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock); 2x 100/240 V AC redundant industrial power supply unit			2					
• Enclosure with drive cage type A (for removable trays on the front); 2x 100/240 V AC redundant industrial power supply unit			3					
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock) + COM2 port; 100/240 V AC industrial power supply unit			4					
• Enclosure with drive cage type A (for removable trays on the front) + COM2 interface; 100/240 V AC industrial power supply unit			5					
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock) + COM2 port; 2x 100/240 V AC redundant industrial power supply unit			6					
• Enclosure with drive cage type A (for removable trays on the front) + COM2 port; 2x 100/240 V AC redundant industrial power supply unit			7					
• Enclosure with drive cage type A (for removable trays on the front) + COM2 interface; 100/240 V AC industrial power supply unit, 850 W			8					
Memory configuration								
• 4 GB DDR4 SDRAM (1x 4 GB), single channel				0				
• 8 GB DDR4 SDRAM (2x 4 GB), dual channel				1				
• 16 GB DDR4 SDRAM (2x 8 GB), dual channel				2				
• 32 GB DDR4 SDRAM (2x 16 GB), dual channel				3				
• 64 GB DDR4 SDRAM (4x 16 GB), dual channel				4				
• 128 GB DDR4 SDRAM (4x 32 GB), dual channel				5				
• 16 GB DDR4 SDRAM (2x 8 GB), ECC, dual channel (only with Core i3/Xeon)				6				
• 32 GB DDR4 SDRAM (2x 16 GB), ECC, dual channel (only with Core i3/Xeon)				7				
• 64 GB DDR4 SDRAM (4x 16 GB), ECC, dual channel (only with Core i3/Xeon)				8				
Expansion hardware								
• Without expansion					0			
• PCIe x4 adapter card for M.2 NVMe module without SSD (1 slot occupied)					1			

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Selection and ordering data (continued)

SIMATIC IPC847E	6AG4114-3 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	2
• PCIe x4 adapter card for M.2 NVMe module without SSD (1 slot occupied) + PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	3
• 512 GB SSD M.2 NVMe on PCIe x4 adapter card (1 slot occupied) (for operating system)	4
• 512 GB SSD M.2 NVMe on PCIe x4 adapter card (1 slot occupied) (for operating system) + PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	5
• 1 024 GB SSD M.2 NVMe on PCIe x4 adapter card (1 slot occupied) (for operating system)	6
• PCIe x16 graphics card NVIDIA RTX 4000 (3x DP) (1 slot occupied) [only with 850 W PS]	7
Operating system (preinstalled and activated)	
• Windows 10 Enterprise 2016 LTSB, multi-language (en, de, fr, it, es), 64-bit (for Core i3/i5)	A
• Windows 10 Enterprise 2016 LTSB, multi-language (en, de, fr, it, es), 64-bit (for Core i7/Xeon)	B
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit (for Core i3/i5)	C
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit, (for Core i7/Xeon)	D
• PCIe x16 graphics card NVIDIA RTX 4000 (3x DP) (1 slot occupied) [only with 850 W PS]	E
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit [for Core i3/i5]	F
• Windows Server 2016 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)	H
• Windows Server 2019 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)	J
• Windows Server 2022 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)	K
• Without operating system	X
Software / adapters / security expansions	
• SIMATIC IPC DiagMonitor software included	A
• SIMATIC IPC Image & Partition Creator software included	B
• SIMATIC IPC DiagMonitor + Image & Partition Creator software included	C
• Adapter cable DP to VGA for onboard graphics	H
• Adapter cable DP to DVI-D for onboard graphics	J
• Without expansions	X
• TPM [1] 2.0 (not for China)	Y
Cables, country-specific versions	
• Without power supply cord	0
• Power supply cord for Europe	1
• Power supply cord for USA	2
• Power supply cord for China	3
SIMATIC IPC847E (Rack PC) 6AG4114-3RR15-0WY0	

[1] TPM = Trusted Platform Module

Option for Industrial Edge	
SIMATIC IPC847E (Rack PC) 3x Gbit Ethernet (IE/PN) 1x DVI-D, 2x DP, 1x COM1, audio, 6x USB3.1; Xeon E-2278GE (8C/16T); 11 slots (8x PCIe, 3x PCI); 960 GB SSD 2.5 SATA; Enclosure with drive cage Type A (for removable trays); 100/240 V AC industrial power supply unit; 128 GB DDR4 SDRAM (4x 32 GB); Industrial Edge (Simatic); TPM 2.0	**6AG4114-3RR15-0WY0**

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

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Selection and ordering data (continued)

Accessories	
Memory expansions	
• 4 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL60-0QA0**
• 8 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL70-0QA0**
• 16 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL80-0QA0**
• 32 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL81-0QA0**
Removable drive bay For 3.5" hard disk or 2.5" solid-state drive, SATA (without hard disk drive/solid-state drive)	**6ES7648-0EH00-1BA0**
Tower kit To convert the computer into an industrial tower PC	**6ES7648-1AA01-0XC0**

Accessories	
Retainer For mechanically interlocking the internal USB interface	**6ES7648-1AA00-0XK0**
Adapter cable	
• DisplayPort to DVI-D for onboard graphics	**6ES7648-3AF00-0XA0**
• DisplayPort to VGA for onboard graphics	**6ES7648-3AG00-0XA0**
• Mini DisplayPort to VGA for graphics card	**6ES7648-3AL00-0XA0**
• Mini DisplayPort to DVI-D for graphics card	**6ES7648-3AK00-0XA0**
• Mini DisplayPort to DVI-D for graphics card (3 units per pack)	**6ES7648-3AK00-1XA0**
• Mini DisplayPort to DisplayPort for graphics card	**6ES7648-3AJ00-0XA0**
• Mini DisplayPort to DisplayPort for graphics card (3 units per pack)	**6ES7648-3AJ00-1XA0**

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Technical specifications

Article number	6AG4114-3....-.... SIMATIC IPC847E (Rack PC)
General information	
Product type designation	IPC847E
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache, VT-x/-d-Technology)
Chipset	Intel C246
Graphic	
Graphics controller	Onboard Intel UHD graphics P630/630 integrated in processor; graphics card NVIDIA Quadro P400 PCIe (x16) triple head (optional)
Drives	
Hard disk	1x 1 TB 3.5" SATA HDD, 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID5 3x 2 TB 3.5" SATA HDD (Enterprise), RAID5 3x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID1 2x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module, RAID5 3x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module
SSD	Yes; 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD
Slot for drives	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional
Hardware configuration	
Slots	
• free slots	9 slots: 7x PCI, 2x PCI Express (x16) (8 lanes) or 11 slots: 3x PCI, 1x PCI Express (x16) (8 lanes), 5x PCI Express (x16) (4 lanes), 2x PCI Express (x4) (4 lanes) or 11 slots: 3x PCI, 1x PCI Express (x16) (16 lanes), 3x PCI Express (x16) (4 lanes), 2x PCI Express (x16) (1 lane), 2x PCI Express (x4) (4 lanes); expansion modules up to a length of 312 mm can be used

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Technical specifications (continued)

Article number	6AG4114-3....-.... SIMATIC IPC847E (Rack PC)
Interfaces	
Interfaces/bus type	1x COM1, 1x COM2 (optional), 2x DisplayPort, 1x DVI-D, audio (microphone in, line in, line out), 9x USB, 3x Gigabit Ethernet
PROFIBUS/MPI	can be implemented with plug-in card
USB port	4x USB 3.1 Gen. 2 Type A, 2x USB 3.1 Gen. 2 Type C on the rear; 1x USB 3.1 Gen. 2 Type A internally, e.g. for software dongle with optional interlock, 2x USB 3.1 Gen. 1 Type A on the front, can be used with door closed
Connection for keyboard/mouse	USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)
Industrial Ethernet	
• Industrial Ethernet interface	3x Gigabit Ethernet (IE/PN), RJ45
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP41
IP (rear)	IP20

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Technical specifications (continued)

Article number	6AG4114-3....-.... SIMATIC IPC847E (Rack PC)
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB, multi-language (64-bit); Windows 10 IoT Enterprise 2019 LTSC, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 multi-language clients (64-bit); Windows Server 2019 Standard Edition incl. 5 multi-language clients (64-bit)
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	444 mm

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Overview



SIMATIC IPC BX-21A:
Ultra-compact IoT gateway for data collection, preprocessing and forwarding of data. Due to the ultra-compact enclosure, which has a volume of just 0.4 liters, the SIMATIC IPC BX-21A can be easily – even subsequently – integrated into the control cabinet or directly on the machine with minimal space requirements.

The enclosed all-metal enclosure enables the new industrial PC to be used flexibly and maintenance-free even under harsh conditions. Thus the SIMATIC IPC BX-21A makes it possible to reliably record / collect / process / transfer data directly in the production environment and can be flexibly used as an IoT gateway between the cloud or the corporate IT level and production.

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Selection and ordering data

SIMATIC IPC BX-21A (Box PC) [1]	6AG4021-0B	❑	0	0	-	❑	A	❑	❑
Processor / RAM									
• Atom X6413E (2-core) / 4 GB RAM (available soon)		A							
• Atom X6413E (2-core) / 8 GB RAM (available soon)		B							
• Atom X6413E (4-core) / 8 GB RAM		C							
• Atom X6413E (4-core) / 16 GB RAM		D							
Drives									
• 128 GB Eco SSD						1			
• 256 GB Eco SSD						2			
• 512 GB Eco SSD (available soon)						3			
• 1 TB Eco SSD (available soon)						4			
Operating system									
• None								A	
• Windows 10 IoT Enterprise 2021 LTSC, MUI (en, de, es, fr, it)								B	
• SIMATIC Industrial OS (available soon)								E	
• Industrial Edge – SIMATIC (available soon)								W	
USB flash drive									
• Without USB flash drive (restore image; D&D)									1
• With USB flash drive (restore image; D&D)									2

1) For an up-to-date overview, see the SIMATIC PC Online Configurator: http://www.siemens.com/ipc-configurators

Note:

Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

Note:

All configurations of the SIMATIC IPC BX-21A do not include any mounting accessories. They must be ordered separately.

Mounting accessories	
DIN rail	**6AG4021-0AA20-0AA1**
Wall mounting	**6AG4021-0AA20-0AA2**
Portrait mounting	**6AG4021-0AA20-0AA4**
Portrait mounting DIN rail	**6AG4021-0AA20-0AA5**
VESA mounting	**6AG4021-0AA20-0AA6**

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Technical specifications

Article number	6AG4021-0B.00-.A.. SIMATIC IPC BX-21A
General information	
Product type designation	IPC BX-21A
Installation type/mounting	
Mounting	DIN rail, wall mounting, book mounting, VESA mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Processor	
Processor type	Intel Atom X6413E
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 128 GB
Storage	
Type of memory	LPDDR4 onboard
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Watchdog	Yes
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m for 2.7 - 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV according to IEC 61000-4-4, burst
• Interference immunity on signal cables >30m	±2 kV according to IEC 61000-4-4, burst
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, line to earth
• symmetric interference	±1 kV acc. to IEC 61000-4-5, line to line
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-3 + A1/ CISPR 32 + A1
Degree and class of protection	
IP degree of protection	IP40

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Technical specifications (continued)

Article number	6AG4021-0B.00-.A.. SIMATIC IPC BX-21A
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C
• max.	50 °C
Relative humidity	
• Relative humidity	max. 85% at 30 °C, no condensation, gradient <= 10 °C/h
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2021 LTSC, 64-bit, MUI
without operating system	Yes; Optional
Dimensions	
Width	85 mm
Height	104 mm
Depth	45 mm

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Overview



SIMATIC IPC227G (Nanobox PC): The Box PC with optimized performance in compact design – maintenance-free, rugged and expandable

The SIMATIC IPC227G Nanobox PC is an extremely compact and flexible embedded industrial PC.
Due to its closed, dust-protected all-metal enclosure, the IPC227G offers maximum industrial functionality for flexible use under harsh conditions – while remaining maintenance-free.
Modern interfaces and the option of two M.2 slots allow this Box PC to be easily integrated into the automation system and expanded.
The latest Intel Dual-Core and Quad-Core processors ensure excellent performance here in an ultra-compact design.

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Selection and ordering data

SIMATIC IPC227G	6ES7647-8C	❑	❑	❑	-	❑	❑	❑	❑
Processor									
• Atom X6211E (2-core)		A							
• Atom X6413E (4-core)		B							
• Atom X6414RE (4-core)		C							
• Atom X6211E (2-core)/TPM		D							
• Atom X6413E (4-core)/TPM		E							
• Atom X6414RE (4-core)/TPM		F							
Work memory									
• 4 GB			1						
• 8 GB			2						
• 16 GB			3						
Hardware configuration									
• Without COM				1					
• 1x COM				2					
• 2x COM				3					
Mass storage									
• Without mass storage						1			
• 256 GB Eco SSD						2			
• 240 GB SSD						3			
• 480 GB SSD						4			
Hardware extension									
• None							A		
• NVRAM							B		
• AI accelerator							C		
Software									
• Without software								A	
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)								B	
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)								C	
• Industrial Edge - SIMATIC								W	
Mounting accessories									
• None									0
• DIN rail									1
• Wall mounting									2
• Portrait mounting									3
• DIN rail mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									4
• Wall mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									5
• Portrait mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									6

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

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Technical specifications

Article number	6ES7647-8C...-.... SIMATIC IPC227G
General information	
Product type designation	IPC227G
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption, max.	1.9 A
Inrush current, max.	2.5 A
Processor	
Processor type	Intel Atom X6413E
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco
Storage	
Type of memory	DDR4 SO-DIMM
Hardware configuration	
Slots	
• free slots	2x M.2
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional

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Technical specifications (continued)

Article number	6ES7647-8C...-.... SIMATIC IPC227G
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BIS	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Dust protection	Protection against foreign bodies > 1 mm
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Chinese Classification Society (CCS)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms

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Technical specifications (continued)

Article number	6ES7647-8C...-.... SIMATIC IPC227G
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional
Dimensions	
Width	191 mm
Height	100 mm
Depth	64 mm

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Overview

Industrial Edge Virtual Device

The Industrial Edge Virtual Device allows you to implement Industrial Edge use cases in an IT infrastructure as a virtual machine.

Selection and ordering data

Industrial Edge Virtual Device License for one virtual machine with Industrial Edge Runtime; 12-month license. Consignee email address required for delivery. Restricted sales release. Only the specific terms apply, see this link.	**6ES7823-0EE10-0AA1**

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Overview



SIMATIC HMI MTP2200 Unified Comfort Panel Standard design front view

SIMATIC HMI Unified Comfort Panels - standard devices

SIMATIC HMI Unified Comfort Panels consist of six different devices with varying display sizes.
All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Comfort Panel is available in the standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.

All Unified Comfort Panels come with integrated Edge functionality.

SIMATIC WinCC Unified contains visualization, communication, alarms/warnings, report creation, administration of parameter sets, archiving of user administration.
Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included.
Additional clients can be enabled with a license. Up to three client licenses can be used.

Client access is based on native web technologies such as HTML5, SVG and JavaScript. The visualization can be accessed via any modern web browser – without the need for additional installation.

Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

Selection and ordering data

Touch devices for SIMATIC HMI Unified Comfort Panels	
Standard design	
SIMATIC HMI MTP700 Unified Comfort Panel 7" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3GB06-0AX1**
SIMATIC HMI MTP1000 Unified Comfort Panel 10.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3KB06-0AX1**
SIMATIC HMI MTP1200 Unified Comfort Panel 12.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3MB06-0AX1**
SIMATIC HMI MTP1500 Unified Comfort Panel 15.6" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD	**6AV2128-3QB06-0AX1**
SIMATIC HMI MTP1900 Unified Comfort Panel 18.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3UB06-0AX1**
SIMATIC HMI MTP2200 Unified Comfort Panel 21.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3XB06-0AX1**
Neutral design	
SIMATIC HMI MTP700 Unified Comfort Panel Neutral, touch operation; 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3GB36-0AX1**

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Selection and ordering data (continued)

SIMATIC HMI MTP1000 Unified Comfort Panel Neutral, touch operation; 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3KB36-0AX1**
SIMATIC HMI MTP1200 Unified Comfort Panel Neutral, touch operation; 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3MB36-0AX1**
SIMATIC HMI MTP1500 Unified Comfort Panel Neutral, touch operation; 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3QB36-0AX1**
SIMATIC HMI MTP1900 Unified Comfort Panel Neutral, touch operation; 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3UB36-0AX1**
SIMATIC HMI MTP2200 Unified Comfort Panel Neutral, touch operation; 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	**6AV2128-3XB36-0AX1**
Software	
EDGE Runtime for SIMATIC Unified Comfort Runtime software, single license, license key for download, without software and documentation, Class A, email address required for delivery	**6AV2170-2BA00-0AA0**

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Technical specifications

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
General information						
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
Marine approval						
• Germanischer Lloyd (GL)	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
• Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32

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Technical specifications (continued)

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB06-0-AX1	6AV2128-3KB06-0-AX1	6AV2128-3MB06-0-AX1	6AV2128-3QB06-0-AX1	6AV2128-3UB06-0-AX1	6AV2128-3XB06-0-AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20
• WinAC	No	No	No	No	No	No
• SINUMERIK	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (Host Link)	No	No	No	No	No	No
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	198.3 mm	264.6 mm	310.6 mm	382 mm	448 mm	513 mm
Mounting cutout, height	142 mm	189.1 mm	221.1 mm	241 mm	278 mm	315 mm
mounting depth	63.6 mm	63.6 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
General information						
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
Marine approval						
• Germanischer Lloyd (GL)	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
• Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes	Yes	Yes	Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB36-0-AX1	6AV2128-3KB36-0-AX1	6AV2128-3MB36-0-AX1	6AV2128-3QB36-0-AX1	6AV2128-3UB36-0-AX1	6AV2128-3XB36-0-AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20	Yes; as of WinCC Unified V20
• WinAC	No	No	No	No	No	No
• SINUMERIK	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• Allen Bradley (EtherNet/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Allen Bradley (DF1)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Mitsubishi (FX)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (FINS TCP)	Yes	Yes	Yes	Yes	Yes	Yes
• OMRON (Host Link)	No	No	No	No	No	No
• Modicon (Modbus TCP/IP)	Yes	Yes	Yes	Yes	Yes	Yes
• Modicon (Modbus RTU)	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	198.3 mm	264.6 mm	310.6 mm	382 mm	447.9 mm	513 mm
Mounting cutout, height	142 mm	189.1 mm	221.1 mm	241 mm	277.9 mm	315 mm
mounting depth	63.6 mm	63.6 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

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Overview



SIMATIC HMI MTP2200 Unified Comfort Panel Hygienic, neutral design

SIMATIC HMI Unified Comfort Panels Hygienic - standard devices

SIMATIC HMI Unified Comfort Panels Hygienic comprise six different devices with different display sizes.
All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Comfort Panel Hygienic is available in a standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.
All Unified Comfort Panels Hygienic are supplied with integrated Edge functionality.
SIMATIC WinCC Unified includes visualization, communication, alarms/messages, report generation, parameter set management, archiving, and user administration.
Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included.
Additional clients can be enabled with a license. In total, up to three client licenses can be used.
Client access is based on native web technologies such as HTML5, SVG and JavaScript. The visualization can be accessed via any modern web browser – without the need for additional installation.
Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels Hygienic can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

Selection and ordering data

Unified Comfort Panels Hygienic	
SIMATIC HMI MTP700 Unified Comfort Hygienic Touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3GB40-0AX0**
SIMATIC HMI MTP1000 Unified Comfort Hygienic Touch operation, 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3KB40-0AX0**
SIMATIC HMI MTP1200 Unified Comfort Hygienic Touch operation, 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3MB40-0AX0**
SIMATIC HMI MTP1500 Unified Comfort Hygienic Touch operation, 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3QB40-0AX0**
SIMATIC HMI MTP1900 Unified Comfort Hygienic Touch operation, 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3UB40-0AX0**
SIMATIC HMI MTP2200 Unified Comfort Hygienic Touch operation, 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3XB40-0AX0**
SIMATIC HMI MTP700 Unified Comfort Hygienic Neutral Neutral, touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3GB70-0AX0**
SIMATIC HMI MTP1000 Unified Comfort Hygienic Neutral Neutral, touch operation, 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3KB70-0AX0**
SIMATIC HMI MTP1200 Unified Comfort Hygienic Neutral Neutral, touch operation, 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3MB70-0AX0**
SIMATIC HMI MTP1500 Unified Comfort Hygienic Neutral Neutral, touch operation, 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3QB70-0AX0**

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Selection and ordering data (continued)

SIMATIC HMI MTP1900 Unified Comfort Hygienic Neutral Neutral, touch operation, 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3UB70-0AX0**
SIMATIC HMI MTP2200 Unified Comfort Hygienic Neutral Neutral, touch operation, 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V17, contains open source software, which is provided free of charge, see enclosed DVD	**6AV2128-3XB70-0AX0**
MTP700 Hygienic Service Pack 7"	**6AV2185-4GA20-0AX0**
MTP1000 Hygienic Service Pack 10"	**6AV2185-4KA20-0AX0**
MTP1200 Hygienic Service Pack, IFP1200 Hygienic 12"	**6AV2185-4MA20-0AX0**
MTP1500 Hygienic Service Pack, IFP1500 Hygienic 15"	**6AV2185-4QA20-0AX0**
MTP1900 Hygienic Service Pack, IFP1900 Hygienic 19"	**6AV2185-4UA20-0AX0**
MTP2200 Hygienic Service Pack, IFP2200 Hygienic 22"	**6AV2185-4XA20-0AX0**

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Technical specifications

Article number	6AV2128-3GB40-0-AX0	6AV2128-3KB40-0-AX0	6AV2128-3MB40-0-AX0	6AV2128-3QB40-0-AX0	6AV2128-3UB40-0-AX0	6AV2128-3XB40-0-AX0
	SIMATIC HMI MTP700 Hygienic	SIMATIC HMI MTP1000 Hygienic	SIMATIC HMI MTP1200 Hygienic	SIMATIC HMI MTP1500 Hygienic	SIMATIC HMI MTP1900 Hygienic	SIMATIC HMI MTP2200 Hygienic
General information						
Product type designation	MTP700 Unified Comfort Hygienic	MTP1000 Unified Comfort	MTP1200 Unified Comfort Hygienic	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort Hygienic
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes		Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB40-0-AX0	6AV2128-3KB40-0-AX0	6AV2128-3MB40-0-AX0	6AV2128-3QB40-0-AX0	6AV2128-3UB40-0-AX0	6AV2128-3XB40-0-AX0
	SIMATIC HMI MTP700 Hygienic	SIMATIC HMI MTP1000 Hygienic	SIMATIC HMI MTP1200 Hygienic	SIMATIC HMI MTP1500 Hygienic	SIMATIC HMI MTP1900 Hygienic	SIMATIC HMI MTP2200 Hygienic
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
• Enclosure Type 12 at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
Standards, approvals, certificates						
CE mark	Yes; CE marking / EC Declaration of Conformity	Yes; CE marking / EC Declaration of Conformity	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	No	No				
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No

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Technical specifications (continued)

Article number	6AV2128-3GB40-0-AX0 SIMATIC HMI MTP700 Hygienic	6AV2128-3KB40-0-AX0 SIMATIC HMI MTP1000 Hygienic	6AV2128-3MB40-0-AX0 SIMATIC HMI MTP1200 Hygienic	6AV2128-3QB40-0-AX0 SIMATIC HMI MTP1500 Hygienic	6AV2128-3UB40-0-AX0 SIMATIC HMI MTP1900 Hygienic	6AV2128-3XB40-0-AX0 SIMATIC HMI MTP2200 Hygienic
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes			Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	No	No	No	No	No	No
• Unified Collaboration	No	No	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300

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Technical specifications (continued)

Article number	6AV2128-3GB40-0-AX0	6AV2128-3KB40-0-AX0	6AV2128-3MB40-0-AX0	6AV2128-3QB40-0-AX0	6AV2128-3UB40-0-AX0	6AV2128-3XB40-0-AX0
	SIMATIC HMI MTP700 Hygienic	SIMATIC HMI MTP1000 Hygienic	SIMATIC HMI MTP1200 Hygienic	SIMATIC HMI MTP1500 Hygienic	SIMATIC HMI MTP1900 Hygienic	SIMATIC HMI MTP2200 Hygienic
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte		12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Accessories						
Further accessories are available	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon

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Technical specifications (continued)

Article number	6AV2128-3GB40-0-AX0	6AV2128-3KB40-0-AX0	6AV2128-3MB40-0-AX0	6AV2128-3QB40-0-AX0	6AV2128-3UB40-0-AX0	6AV2128-3XB40-0-AX0
	SIMATIC HMI MTP700 Hygienic	SIMATIC HMI MTP1000 Hygienic	SIMATIC HMI MTP1200 Hygienic	SIMATIC HMI MTP1500 Hygienic	SIMATIC HMI MTP1900 Hygienic	SIMATIC HMI MTP2200 Hygienic
Mechanics/material						
Enclosure material (front)						
• Plastic	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film
• Stainless steel	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	225.6 mm	292 mm	338 mm	412 mm	479 mm	556 mm
Height of housing front	169.6 mm	217 mm	249 mm	273 mm	309 mm	358 mm
Mounting cutout, width	198.3 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	142.1 mm	189 mm	221 mm	241 mm	278 mm	315 mm
mounting depth	66.3 mm	67 mm	64 mm	79 mm	79 mm	79 mm
Weights						
Weight (without packaging)	1.9 kg	2.65 kg	3.4 kg	5.4 kg	6.7 kg	8.15 kg

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
General information						
Product type designation	MTP700 Unified Comfort Hygienic	MTP1000 Unified Comfort	MTP1200 Unified Comfort Hygienic	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort Hygienic
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes		Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.0	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
• Enclosure Type 12 at the front	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
Standards, approvals, certificates						
CE mark	Yes; CE marking / EC Declaration of Conformity	Yes; CE marking / EC Declaration of Conformity	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	No	No				
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation	No; in preparation
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
- Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes			Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	No	No	No	No	No	No
• Unified Collaboration	No	No	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Message system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0	6AV2128-3KB70-0-AX0	6AV2128-3MB70-0-AX0	6AV2128-3QB70-0-AX0	6AV2128-3UB70-0-AX0	6AV2128-3XB70-0-AX0
	SIMATIC HMI MTP700 Hygienic Neutral	SIMATIC HMI MTP1000 Hygienic Neutral	SIMATIC HMI MTP1200 Hygienic Neutral	SIMATIC HMI MTP1500 Hygienic Neutral	SIMATIC HMI MTP1900 Hygienic Neutral	SIMATIC HMI MTP2200 Hygienic Neutral
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte		12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Images						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	No	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Accessories						
Further accessories are available		No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon	No; Service Pack available soon

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Technical specifications (continued)

Article number	6AV2128-3GB70-0-AX0 SIMATIC HMI MTP700 Hygienic Neutral	6AV2128-3KB70-0-AX0 SIMATIC HMI MTP1000 Hygienic Neutral	6AV2128-3MB70-0-AX0 SIMATIC HMI MTP1200 Hygienic Neutral	6AV2128-3QB70-0-AX0 SIMATIC HMI MTP1500 Hygienic Neutral	6AV2128-3UB70-0-AX0 SIMATIC HMI MTP1900 Hygienic Neutral	6AV2128-3XB70-0-AX0 SIMATIC HMI MTP2200 Hygienic Neutral
Mechanics/material						
Enclosure material (front)						
• plastic	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film
• Stainless steel	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	225.6 mm	292 mm	338 mm	412 mm	479 mm	556 mm
Height of housing front	169.6 mm	217 mm	249 mm	273 mm	309 mm	358 mm
Mounting cutout, width	198.3 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	142.1 mm	189 mm	221 mm	241 mm	278 mm	315 mm
mounting depth	66.3 mm	67 mm	64 mm	79 mm	79 mm	79 mm
Weights						
Weight (without packaging)	1.9 kg	2.65 kg	3.4 kg	5.4 kg	6.7 kg	8.15 kg

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Overview

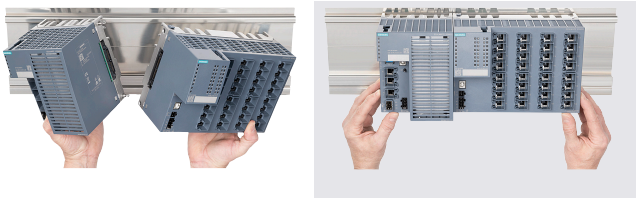


The Industrial IoT Device SCALANCE LPE (Local Processing Engine) enables data from the manufacturing environment to be acquired, collected, processed and forwarded. At the same time, applications running directly on the device can take over important functions in the plant, for example network services such as DHCP, NTP or the analysis of network traffic.
SCALANCE LPE is available in three variants:

- SCALANCE LPE9403
  With the preinstalled Linux operating system, an open system is available for the most diverse industrial OT/IT applications. The focus is on a narrow footprint here, extended by industrial IoT components (e.g. integrated rescue system) to serve industrial requirements in the best way possible.
- SCALANCE LPE9413
  As a preinstalled Industrial Edge Device for easy integration into the Siemens Industrial Edge Ecosystem. From the customer's perspective, this enables central management of the applications (apps) and firmware updates of the device.
- SCALANCE LPE9423
  Fully integrated SCALANCE LPE9423 (integrated into SCALANCE XRH334 Industrial Ethernet switch) with Linux operating system as open system for diverse industrial OT/IT applications. The focus is on a narrow footprint here, extended by industrial IoT components (e.g. integrated rescue system) to serve industrial requirements in the best way possible.
- SCALANCE LPE9433
  Fully integrated and preinstalled SCALANCE LPE9433 Industrial Edge Device (integrated in SCALANCE XRH334 Industrial Ethernet switch) for simple addition to the Siemens Industrial Edge Ecosystem. From the customer's perspective, this enables central management of the applications (apps) and firmware updates of the SCALANCE LPE9433.

The product versions support a wide range of interface options, including transfer rates of up to 10 Gbps in Industrial Ethernet networks.
Rugged enclosure in the fanless design of the SIMATIC S7-1500 or integrated in 19" Industrial Ethernet switch also enables use in the direct manufacturing environment (e.g. for applications directly at the process or on site at the machine).
The Function Extender interface (right side, covered) is used for integration into the compact 300 switch family. This offers the possibility to dock the SCALANCE LPE to a SCALANCE XCM-300 Industrial Ethernet Switch, which makes it more convenient to integrate and use applications in the network, e.g. applications based on mirrored network traffic.

Overview (continued)



SCALANCE XCM332 and SCALANCE LPE – Mounting on DIN rail via function extender

Selection and ordering data

	Article No.
SCALANCE LPE9403 64-bit ARMv8 (4-core); 4 GB RAM; 38 GB eMMC(pSLC); Debian Linux; 3 × 10/100/100 Mbps RJ45; 1 × 100/1000 Mbps SFP; includes 1 combo port; 1 × USB 3.0; 1 x CLP slot; diagnostics LED; redundant power supply; mounting: DIN rail/S7 mounting rail	**6GK5998-3GS00-2AC2**
SCALANCE LPE9413 Siemens Industrial Edge 64-bit ARMv8 (4-core); 4 GB RAM; 38 GB eMMC(pSLC); Debian Linux; 3 × 10/100/100 Mbps RJ45; 1 × 100/1000 Mbps SFP; includes 1 combo port; 1 × USB 3.0; 1 x CLP slot; diagnostics LED; redundant power supply; mounting: DIN rail/S7 mounting rail	**6GK5998-3GS01-2AC2**
SCALANCE LPE9433 integrated in SCALANCE XRH334 64-bit ARMv8 (4-core); 8 GB RAM; 38 GB eMMC (pSLC); 3 x internal Ethernet interfaces (2 x 1 Gbps, 1 x 10 Gbps); mounting: DIN rail/S7 mounting rail	**6GK5998-3GS11-2AC2**

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Technical specifications

Article number	6GK5998-3GS00-2AC2 SCALANCE LPE9403	6GK5998-3GS01-2AC2 SCALANCE LPE9413	6GK5998-3GS11-2AC2 SCALANCE LPE9433 integrated in XRH334
product brand name	SCALANCE	SCALANCE	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5998-3GS00-2AC2	https://i.siemens.com/1P6GK5998-3GS01-2AC2	https://i.siemens.com/1P6GK5998-3GS11-2AC2
hardware configuration			
design of the processor	64Bit ARMv8 A53, 4 core	64Bit ARMv8 A53, 4 core	64Bit ARMv8 A53, 4 core
processor clock frequency	1.6 GHz	1.6 GHz	1.6 GHz
design of the drive/storage medium solid-state disk	Yes; eMMC (pSLC)	Yes; eMMC (pSLC)	Yes; eMMC (pSLC)
storage capacity on solid-state disk	38 Gibyte	38 Gibyte	38 Gibyte
storage capacity of the RAM	4 Gibyte	4 Gibyte	8 Gibyte
operating system pre-installed		Siemens Industrial Edge	Siemens Industrial Edge
product component operating system docker	Yes	Yes	Yes
transfer rate			
transfer rate	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s
transfer rate			10 Gbit/s
interfaces for communication integrated			
number of interfaces logical internal			
• at 1000 Mbit/s according to Industrial Ethernet			2
• at 10 Gbit/s according to Industrial Ethernet			1
number of 10/100/1000 Mbit/s RJ45 ports integrated with securing collar	3	3	
number of combo ports with RJ45 interface for optical plug-in transceiver	1; 100 or 1000 Mbit/s SFP plug-in transceiver	1; 100 or 1000 Mbit/s SFP plug-in transceiver	
interfaces other			
number of interfaces according to USB	2	2	1
number of USB-A ports	1	1	0
number of USB-B ports	1	1	1
design of the removable storage CLP	Yes	Yes	No
supply voltage, current consumption, power loss			
product component connection for redundant voltage supply	Yes	Yes	
type of voltage 1 of the supply voltage	DC	DC	
supply voltage 1 rated value	24 V	24 V	
power loss [W] 1 rated value	16 W	16 W	
power loss [W] at DC at 24 V typical	10.56 W	10.56 W	
consumed current at DC at 24 V typical	0.4 A	0.4 A	
supply voltage 1 voltage range	19.2 ... 28.8	19.2 ... 28.8	
consumed current 1 maximum	0.66 A	0.66 A	
type of electrical connection 1 for power supply	4-pole terminal block	4-pole terminal block	
product component 1 fusing at power supply input	Yes	Yes	
fuse protection type 1 at input for supply voltage	3,15 A / 125 V	3,15 A / 125 V	
ambient conditions			
ambient temperature			
• during operation	-40 ... +60 °C	-40 ... +60 °C	-40 ... +65 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
relative humidity at 25 °C without condensation during operation maximum	95 %	95 %	95 %
protection class IP	IP20	IP20	IP20

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Technical specifications (continued)

Article number	6GK5998-3GS00-2AC2 SCALANCE LPE9403	6GK5998-3GS01-2AC2 SCALANCE LPE9413	6GK5998-3GS11-2AC2 SCALANCE LPE9433 integrated in XRH334
design, dimensions and weights			
design	compact	compact	
width	134 mm	134 mm	446 mm
height	147 mm	147 mm	43.6 mm
depth	127 mm	127 mm	374.8 mm
net weight	1.6 kg	1.6 kg	8.4 kg
fastening method			
• 19-inch installation			Yes
• 35 mm DIN-rail mounting	Yes	Yes	No
• wall mounting	Yes	Yes	No
• S7-300 rail mounting	Yes	Yes	No
• S7-1500 rail mounting	Yes	Yes	No
product functions management, configuration, engineering			
protocol is supported			
• SSH	Yes		
• HTTP	Yes		
• HTTPS	Yes		
• FTP	Yes		
• LLDP	Yes		
• DCP	Yes		
• NTP	Yes		
• SNMP v2	Yes		
• SNMP v3	Yes		
• SNTP	Yes		
• SSL	Yes		
product function is supported identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
product functions diagnostics			
product function			
• SysLog	Yes		
• backup device configuration	Yes	Yes	Yes
• user administration	Yes	Yes	Yes
• port diagnostics	Yes	Yes	Yes
• CLI	Yes		
• web-based management	Yes		
• MIB support	Yes		
• PROFINET IO diagnosis	Yes	Yes	Yes
• DHCP client	Yes		
standards, specifications, approvals			
standard			
• for emitted interference	EN 61000-6-4 (Class A)	EN 61000-6-4 (Class A)	
• for interference immunity	EN 61000-6-2	EN 61000-6-2	
MTBF	29 a	29 a	29 a
standards, specifications, approvals CE			
certificate of suitability CE marking	Yes	Yes	

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Technical specifications (continued)

Article number	6GK5998-3GS00-2AC2 SCALANCE LPE9403	6GK5998-3GS01-2AC2 SCALANCE LPE9413	6GK5998-3GS11-2AC2 SCALANCE LPE9433 integrated in XRH334
standards, specifications, approvals other			
• certificate of suitability C-Tick	Yes	Yes	
• certificate of suitability KC approval	Yes	Yes	
• certificate of suitability ATEX	Yes; EN 60079-0, EN 60079-15	Yes; EN 60079-0, EN 60079-15	
• certificate of suitability for ATEX as marking	II 3 G Ex nA IIC T4 Gc	II 3 G Ex nA IIC T4 Gc	
• certificate of suitability for ATEX as certificate	DEKRA ATEX0025 X	DEKRA ATEX0025 X	
• certificate of suitability IECEx	Yes; IEC 60079-0, IEC 60079-7	Yes; IEC 60079-0, IEC 60079-7	
• certificate of suitability for IECEx as marking	Ex ec IICT4 Gc	Ex ec IICT4 Gc	
• certificate of suitability for IECEx as certificate	IECEx DEK 18.0017X	IECEx DEK 18.0017X	
• certificate of suitability CCC for hazardous zone according to GB standard	Yes; CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4	Yes; CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4	
• certificate of suitability CCC for hazardous zone according to GB standard as marking	E240480	E240480	
• certificate of suitability for cULus HazLoc as marking	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4	
• certificate of suitability for cULus HazLoc as File Nr.	E240480	E240480	
• certificate of suitability for FM as marking	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 Ta: -40 °C +60 °C	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 Ta: -40 °C +60 °C	
• certificate of suitability for FM as certificate	FM19US0167X	FM19US0167X	
• certificate of suitability railway application in accordance with EN 50121-4	Yes	Yes	
• certificate of suitability Regulatory Compliance Mark (RCM)	Yes	Yes	
• certificate of suitability for UL 61010-2-201 as File Nr.	E85972	E85972	
• certificate of suitability EAC approval	Yes	Yes	
• type of certification BIS	Yes; R-41061751	Yes; R-41061751	
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	
global warming potential [CO2 eq]			
• total	647.08 kg	646.78999 kg	
• during manufacturing	45.5 kg	45.48 kg	
• during operation	601 kg	600.90999 kg	
• after end of life	0.401 kg	0.4 kg	
further information internet links			
internet link			
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com

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Overview



SIMATIC IPC BX-39A

SIMATIC IPC BX-39A (Microbox PC): The powerful embedded IPC – maintenance-free with versatile configuration
The overall turnkey solution:

- Ultra-compact
- Maintenance-free
- Intel CPU technology of the 11th generation

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Selection and ordering data

SIMATIC IPC BX-39A (Box PC) [1]	6AG4142-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processor											
• Intel® Celeron® 6600HLE 2 cores/2 threads, 2.1 GHz, 8 MB cache, TCC		1									
• Intel® Xeon® W-11155MLE 4 cores/8 threads, 1.8 (3.1) GHz, 8 MB cache, ECC, TCC		3									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		5									
• Intel® Xeon® W-11865MLE 8 cores/16 threads, 1.5 (4.5) GHz, 24 MB cache, vPro, ECC, TCC		7									
Mounting accessories/extension											
• Without mounting accessories			A								
• DIN rail			B								
• Wall mounting			C								
• Portrait mounting			D								
• 1 x PCIe and DIN rail mounting			F								
• 1 x PCIe and wall mounting			G								
• 1 x PCIe and portrait mounting			H								
• 2 x PCIe and DIN rail mounting			J								
• 2 x PCIe and wall mounting			K								
• 2 x PCIe and portrait mounting			L								
Work memory/ECC											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 32 GB				D							
• 16 GB with ECC				E							
• 32 GB with ECC				F							
• 8 GB and NVRAM (M.2 module)				G							
• 16 GB and NVRAM (M.2 module)				H							
• 32 GB and NVRAM (M.2 module)				J							
• 16 GB with ECC and NVRAM (M.2 module)				K							
• 32 GB with ECC and NVRAM (M.2 module)				L							
1st mass storage in SIMATIC Slider (incl. OS)											
• Without 1st mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
• M.2 SSD 240 GB					4						
• M.2 SSD 480 GB					5						
• M.2 SSD 960 GB					6						
• RAID1 with SSD 512 GB Eco (SSD 2 with 512 GB Eco required)					8						
2nd mass storage in SIMATIC Slider											
• Without 2nd mass storage						0					
• M.2 SSD 256 GB Eco						1					
• M.2 SSD 512 GB Eco						2					

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Selection and ordering data (continued)

SIMATIC IPC BX-39A (Box PC) [1]	6AG4142-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• M.2 SSD 240 GB						4					
• M.2 SSD 480 GB						5					
• M.2 SSD 960 GB						6					
Operating system											
• Without operating system (Edge option with operating system)								0			
• Windows 10 Enterprise 2021 LTSC with Celeron, Xeon W-11155MLE, Xeon W-11555MLE processors								1			
• Windows 10 Enterprise 2021 LTSC with W-11865MLE processor								2			
• SIMATIC Industrial OS								7			
Option 1											
• Without option 1									A		
• With 1 x Com (RS232/485/422)									B		
Option 2											
• Restore stick image with D&D and software image (if selected) Only via OSD (Online Portal)										A	
• USB Restore stick image with D&D and software image (if selected)										B	
Power supply											
• 24 V DC industry power supply (Premium, NAU, isolated, "bridging time")											0
• 24 V DC industry power supply (Premium, NAU, isolated, "bridging time") with ATEX											7

1) For an up-to-date overview, see the SIMATIC IPC online configurator at this link

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

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Technical specifications

Article number	6AG4142-.....-.... SIMATIC IPC BX-39A
General information	
Product type designation	BX-39A
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption (rated value)	5 A; at 24 V DC and without load
Current consumption, max.	5 A; At 24 V DC
Inrush current, max.	75 A
Processor	
Processor type	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD 256 GB Eco
SSD	Yes
Storage	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	1x / 2x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	4x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional

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Technical specifications (continued)

Article number	6AG4142-.....-.... SIMATIC IPC BX-39A
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-3, IEC 61000-6-4, CAN/CSA CISPR 32 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	No; in preparation
BIS	Yes
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B, FCC Class A, KN32
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes

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Technical specifications (continued)

Article number	6AG4142-.....-.... SIMATIC IPC BX-39A
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 000 m
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s^2
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s^2, 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS
without operating system	Yes; Optional
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Mechanics/material	
Enclosure material (front)	Continuous-cast aluminum
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	62.6 mm

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Overview



SIMATIC BX-59A (modular box PC): The high-end IPC with high performance, functionality and expansion capability

It offers:

- High performance with flexibility and scalability
- Intel Core i technology

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Selection and ordering data

SIMATIC IPC BX-59A (modular box PC) [1]	6AG4132-2	❑	❑	❑	❑	-	❑	❑	❑	❑
UHD graphics onboard; 2x DP; 4x Gigabit Ethernet (IE/PN) RJ45; 6x USB 3.2 Gen. 2; 2x serial (COM1); RAID controller onboard; watchdog, temperature/fan monitoring										
Processor and power supply:										
• Intel Core i5-13500E, 65 W; 14C/20T, 2.4 (4.6) GHz, with 24 V DC, 400 W power supply		A								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 24 V DC, 400 W power supply		B								
• Intel Core i7-13700E 16C/24T, 1.9 (5.1) GHz, with 24 V DC, 400 W power supply		C								
• Intel Core i9-13900E, 65W; 24C/32T, 1.8 (5.2) GHz, with 24 V DC, 400 W power supply		D								
• Intel Core i5-13500E, 65 W; 14C/20T, 2.4 (4.6) GHz, with 9-36 V DC, 220 W power supply		E								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 9-36 V DC, 220 W power supply		F								
• Intel Core i7-13700E 16C/24T, 1.9 (5.1) GHz, with 9-36 V DC, 220 W power supply		G								
• Intel Core i9-13900E, 65 W; 24C/32T, 1.8 (5.2) GHz, with 9-36 V DC, 220 W power supply		H								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 24 V DC, 400 W power supply (operation without fan possible)		N								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 9-36 V DC, 220 W power supply (operation without fan possible)		P								
• No basic unit, no CPU, no power supply in the basic unit		X								
Drives in the basic unit:										
• Basic unit without drives			A							
• SSD 2.5" SATA 512 GB internal			B							
• SSD 2.5" SATA 1 TB internal			C							
• SSD M.2 NVME onboard 512 GB			D							
• SSD M.2 NVME onboard 1 TB			E							
• SSD M.2 NVME onboard 512 GB + 1x 512 GB M.2 NVME SSD in SIMATIC IPC Slider			F							
• SSD M.2 NVME onboard 512 GB + 1x 1TB M.2 NVME SSD in SIMATIC IPC Slider			G							
• SSD 2.5" SATA 480 GB (PLP) internal			K							
• SSD 2.5" SATA 1 GB (PLP) internal			L							
• No basic unit, no drive			X							
Memory configuration:										
• 8 GB DDR5-4800 (1x 8 GB)				0						
• 16 GB DDR5-4800 (1x 16 GB) with ECC				1						
• 16 GB DDR5-4800 (1x 16 GB)				2						
• 32 GB DDR5-4800 (1x 32 GB) with ECC				3						
• 32 GB DDR5-4800 (1x 32 GB)				4						
• 64 GB DDR5-4800 (2x 32 GB) with ECC				5						
• 64 GB DDR5-4800 (2x 32 GB)				6						
• No basic unit, no RAM				8						
Hardware extension (M.2 Flex modules in the basic unit):										
• Without hardware extension (M.2)					0					
• NVRAM (M.2)					1					
Power supply unit cable:										
• No power supply unit cable							0			
Additional software:										
• Basic unit without operating system (without USB flash drive D&D)								A		

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Selection and ordering data (continued)

SIMATIC IPC BX-59A (modular box PC) [1]	6AG4132-2	❑	❑	❑	❑	-	❑	❑	❑	❑
• Basic unit without operating system (with USB flash drive D&D)								B		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i5 (without USB flash drive, restore image, D&D)								C		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i5 (with USB flash drive, restore image, D&D)								D		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i7, for Core i9 (without USB flash drive, restore image, D&D)								E		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i7, for Core i9 (with USB flash drive, restore image, D&D)								F		
• Industrial Edge -SIMATIC								W		
• No basic unit, no software								X		
Expandability of the basic unit (expansion module):										
• EM2: PCIe x 16 gen4 + graphics card NVIDIA L4 and PCIe x 4									B	
• EM2: PCIe x 16 + graphics card NVIDIA L4 and PCIe x 4 + 1 dual-port 10 GB fiber card; with 1 SFP+ transceiver									N	
• No expansion module									X	
Additional memory in the expansion module:										
• Expansion module without memory										0
• No expansion module, no EM memory										7

Note:

1) For an up-to-date overview, see the SIMATIC PC online configurator at: http://www.siemens.com/ipc-configurators

2) TPM = Trusted Platform Module

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

Accessories	
Memory expansion	
• 8 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN70-0SA0**
• 16 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN80-0SA0**
• 32 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN81-0SA0**
Mounting kit for portrait or wall mounting	
• Interface outlet to the right	**6ES7648-1AA10-3YB0**

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Technical specifications

Article number	6AG4133-0....-.... SIMATIC IPC BX-59A (Box PC)
General information	
Product type designation	BX-59A
Installation type/mounting	
Mounting	Wall mounting, book mounting, desk mounting, tower mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100 / 240 V AC (autorange); 24 V DC(220 W / 9~36 V DC, 400 W / 19.2~28.8 V DC, 800 W / 19.2~28.8 V DC)
Rated value (DC)	24 V; 12...24 V DC on 220 W
Rated value (AC)	240 V; 100 - 240V, 50/60Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Core i9-13900E 24C (8P+16E)/32T, 1.8 (5.2) GHz, 36 MB cache; Core i7-13700E 16C (8P+8E)/24T, 1.9 (5.1) GHz, 30 MB cache; Core i7-13700TE 16C (8P+8E)/24T, 1.1 (4.8) GHz, 30 MB cache; Core i5-13500E 14C (6P+8E)/20T, 2.4 (4.6) GHz, 24 MB cache
Chipset	Intel R680E
Graphic	
Graphics controller	Intel UHD Graphics 770 (Core i5, Core i7, Core i9)
Graphics card	Yes; Optional
Drives	
SSD	Yes; base module: 480 GB 2.5" SATA SSD (PLP); 960 GB 2.5" SATA SSD (PLP); 512 GB 2.5" SATA SSD; 1 TB 2.5" SATA SSD; 512 GB M.2 NVME onboard SSD; 1 TB M.2 NVME onboard SSD; 512 GB M.2 NVME onboard SSD with 1* 512 GB M.2 NVME on 1 exchangeable SSD slider; 512 GB M.2 NVME onboard SSD with 1* 1 TB M.2 NVME on 1 exchangeable SSD slider; RAID1 2* 512 GB M.2 NVME on 2 exchangeable SSD slider; RAID1 2* 1 TB M.2 NVME on 2 exchangeable SSD slider; 512 GB M.2 NVME onboard SSD with RAID1 2* 512 GB M.2 NVME on 2 exchangeable SSD slider
expansion for storage medium	extension module 4 slots: 1 TB 2.5" SATA SSD; 2* 1 TB 2.5" SATA SSD RAID1, extension module 6 slots: 1 TB 2.5" SATA SSD; 2* 1 TB 2.5" SATA SSD RAID1; 3* 1TB 2.5" SATA SSD RAID5
Storage	
Type of memory	DDR5-4800 SO-DIMM
Main memory	8 / 16 / 32 / 64 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
• free slots	1 slot: 1x PCI Express (x16) gen 4 (16 lanes); 2 slots: 1x PCI Express (x16) gen 4 (16 lanes) and 1x PCI Express (x4) gen 3 (4 lanes); 4 slots: 1x PCI Express (x16) gen 4 (16 lanes) and 2x PCI Express gen 4 (4 lanes) and 1x PCI Express gen 3 (4 lanes); 6 slots: 2x PCI Express (x16) gen 4 (8 lanes) and 2 x PCI Express (x4) gen 4 (4 lanes)

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Technical specifications (continued)

Article number	6AG4133-0....-.... SIMATIC IPC BX-59A (Box PC)
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (RJ45)
USB port	1x USB 3.2 Gen2 10G Type C, 6x USB 3.2 Gen 2 10G Type A
Connection for keyboard/mouse	USB / USB
serial interface	2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)
Multimedia	
• Audio In/Out	Yes
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	4x Gigabit Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	base module (1x power, 3x user, 1x SSD), extension module (4 slots: 2x SSD; 6 slots: 3x SSD)
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact; ±8 kV air (to IEC 1000-4-2; ESD)
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 MHz to 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2.7 GHz to 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	burst: ±2 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable ≥ 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m
• Interference immunity on signal cables < 30m	burst: ±1 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable < 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP degree of protection	IP20 with fan or extension modules, IP40 without fan
Standards, approvals, certificates	
CE mark	Yes; also UKCA
cULus	Yes
RCM (formerly C-TICK)	Yes
FCC	Yes
BIS	Yes; 400 W DC power supply configuration only (base module, base module + extension module 1/2 slot)
EMC	EMC EN 61000-6-1, EN IEC 61000-6-1, EN 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4

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Technical specifications (continued)

Article number	6AG4133-0....-.... SIMATIC IPC BX-59A (Box PC)
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C; base module only: 40 °C at fanless and 2.5" non power loss protection SSD configuration; 50 °C at fanless and M.2 SSD configuration; with exenstion module: 40°C
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 5 % to 85 % at 30 °C (no condensation) storage: 5 % to 95 % at 25 °C / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested in accordance with IEC 60068-2-6; operation - base module (5 to 8.4 Hz: 3.5 mm; 8.4 to 200 Hz: 9.8 m/s²); extension module w/o storages (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); extension module with SSD (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); storage / transport - 5 to 8.4 Hz: 3.5 mm; 8.4 to 500 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	tested in accordance with IEC 60068-2-27; operation - base module (150 m/s², 11 ms); extesion module (10 m/s², 20 ms); storage / transport - 250 m/s², 6 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC
without operating system	Yes; Optional
Software	
SIMATIC Software	optionally with pre-installed Industrial Edge - SIMATIC
Dimensions	
Width	79 mm; 116 mm with extension module 1 slot, 138 mm with extension module 2 slots, 225 mm with extension module 4 slots, 280 mm with extension module 6 slots
Height	194 mm
Depth	237 mm; 237 mm base module without fan module and with / without extension module 1 slot, 307 mm base module with fan module and with / without extension module 1/2 slots, 402 mm with extension module 4/6 slots

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6/4	**Rack PC**
6/4	Rack PC
6/15	SIMATIC IPC RW-543B
6/18	SIMATIC IPC RW-543A
6/22	SIMATIC IPC RC-543B
6/25	SIMATIC IPC347G
6/30	SIMATIC IPC RS-545A
6/36	SIMATIC IPC RW-545A
6/42	SIMATIC IPC RC-545A
6/48	SIMATIC IPC547J
6/54	SIMATIC IPC RW-528A
6/59	SIMATIC IPC647E
6/66	SIMATIC IPC RW-548A
6/71	SIMATIC IPC847E
6/78	SIMATIC IPC1047E
6/85	SIMATIC IPC RS-717A
6/90	SIMATIC IPC RS-828A
6/95	**Box PC**
6/95	Box PC
6/109	SIMATIC IOT2050
6/112	SIMATIC IPC BX-21A
6/116	SIMATIC IPC127E
6/122	SIMATIC IPC227G
6/126	SIMATIC IPC327G
6/131	SIMATIC IPC BX-32A
6/136	SIMATIC IPC BX-35A
6/140	SIMATIC IPC BX-39A
6/146	SIMATIC IPC427E
6/153	SIMATIC IPC BX-53A
6/156	SIMATIC IPC BX-53B
6/157	SIMATIC IPC BX-54A
6/162	SIMATIC IPC BX-56A
6/166	SIMATIC IPC527G
6/175	SIMATIC IPC BX-59A
6/181	SIMATIC IPC627E
6/187	**Panel PC**
6/187	Panel PC
6/193	SIMATIC IPC277G
6/199	SIMATIC IPC277G PRO
6/203	SIMATIC IPC277G HYG
6/205	SIMATIC IPC377G
6/211	SIMATIC IPC PX-32A
6/215	SIMATIC IPC PX-39A
6/221	SIMATIC IPC PX-39A PRO
6/226	SIMATIC IPC PX-39A HYG
6/229	SIMATIC IPC477E
6/239	SIMATIC IPC477E PRO
6/249	SIMATIC IPC677E
6/255	**Mobile devices**
6/256	SIMATIC IPC MD-34A

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6/261	SIMATIC IPC MD-57A
6/267	**Industrial monitors**
6/267	SIMATIC Industrial Flat Panel Basic
6/270	SIMATIC Industrial Flat Panel
6/282	SIMATIC Industrial Flat Panel PRO
6/292	SIMATIC Industrial Flat Panel HYG
6/297	SIMATIC HMI Industrial Monitors IM-3xxA
6/298	SIMATIC Industrial Thin Client
6/301	**Devices for special requirements**
6/301	Introduction
6/301	Devices for special requirements
6/302	PROtected devices and system components
6/303	SIMATIC Industrial Flat Panel PRO
6/313	SIMATIC Industrial Thin Client PRO
6/317	SIMATIC IPC277G PRO
6/321	SIMATIC IPC PX-39A PRO
6/326	SIMATIC IPC477E PRO
6/336	Fixing elements
6/340	Extension Units and operator controls
6/354	Extension components
6/357	HYGienic devices (stainless steel front)
6/358	**IPC software**
6/358	Software and tools
6/360	Orchestration and maintenance – ORCLA
6/361	SIMATIC IPC ORCLA Remote Diagnostics
6/362	SIMATIC IPC ORCLA Firmware Agent
6/363	SIMATIC IPC ORCLA Protector
6/364	Tools and applications
6/365	SIMATIC IPC Image & Partition Creator
6/366	SIMATIC IPC DiagMonitor
6/367	SIMATIC IPC FirmwareManager
6/368	Software packages
6/370	Operating systems
6/371	SIMATIC Industrial OS
6/372	SIMATIC IPC Operating System Package
6/374	**Accessories**
6/375	SIMATIC PCIe cards
6/376	CP 1625
6/378	CP 1625-2
6/379	**SITOP power supply**
6/379	Right power supply and DC UPS for SIMATIC IPC series
6/380	SITOP PSU6200
6/381	1-phase, 24 V DC
6/387	3-phase, 24 V DC
6/397	SITOP DC UPS uninterruptible power supplies
6/399	DC UPS with capacitors
6/404	DC UPS with battery or capacitor modules
6/405	SITOP UPS1600 DC UPS modules
6/421	SITOP BAT1600 battery modules

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6/430 SITOP UPS1100 battery modules

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Overview



Rack IPCs are flexible, expandable, high-availability industrial PC systems for powerful yet compact applications using 19-inch technology for 24-hour continuous duty.
The new classification of Rack IPCs allows customers to easily select devices that are precisely focused on an application without having to compromise on the desired configuration.
The following 3 device classes are available for various requirements:

Device classes	Product name	Product description	Focus applications
Server class	IPC R**S**-xxx	• High availability system with remote manageability • Computing power and expandability with AI accelerator • Server operating system • RAID1/5 configurations • Storage and network capability • Redundant power supply units	Computationally-intensive CPU/GPU-heavy applications with advanced manageability: • Virtualization • Artificial intelligence (AI) training • Shopfloor micro data centers • Network appliances
Workstation class	IPC R**W**-xxx	• Computing power and expandability with high-end graphics cards • Desktop operating system • RAID1 configurations • Redundant optional power supply units	Complex and graphically demanding applications: • Industrial image processing • Artificial intelligence (AI) inference • Simulation • SCADA/ visualization • Instrumentation and monitoring
Client class	IPC R**C-xxx**	• Cost-optimized product • Expandability with one graphics card for multi-monitoring • Desktop operating system	Simple applications: • Visualization / HMI • Instrumentation and monitoring

Different platforms are provided for performance requirements, which can also be found in the product name:

Processor performance	Product name	Platform properties	Power
> 95 Watt, 2 bases	IPC Rx-**8**xx	Memory expansion up to 6 TB, no integrated graphics	***
> 95 Watt, 1 base	IPC Rx-**7**xx	Memory expansion up to 4 TB, no integrated graphics	**
> 35-65 Watt, 1 base	IPC Rx-**5**xx	Memory expansion up to 128 GB, integrated graphics	*

In each device class, devices with different range of functions stand for the properties according to the following numbering:

Scope of functions	Product name	Properties, e.g.	Price
Premium	IPC Rx-xx**8**	• Higher robustness (temperature, shock/vibration) • Advanced efficient self-diagnostics and status LEDs • Highest expandability • Additional certifications or approvals • Extended availability of spare parts and repairs	***
Medium	IPC Rx-xx**5**	• Standard robustness (temperature, shock/vibration) • User-friendly enclosure concept and status LEDs • Standard availability of spare parts and repair	**
Basic	IPC Rx-xx**3**	• Standard robustness (temperature, shock/vibration) • Standard availability of spare parts and repair	*

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Overview (continued)

New devices. New names.

SIMATIC IPC RS-828, IPC1047 - maximum system performance and expandability

SIMATIC IPC847 - maximum expandability and industrial functionality

SIMATIC IPC647 - maximum compactness combined with maximum industrial functionality

SIMATIC IPC RW-545, IPC547 - latest technology and maximum performance at an attractive price

SIMATIC IPC RW-543, IPC347 - high performance at an optimized price

Technical specifications

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
General information										
Product type designation	RW-543A	IPC347G	RS-545A	RW-545A	RC-545A	IPC547J	IPC647E	IPC847E	IPC RS-828A	IPC1047E
Installation type/mounting										
Mounting	for horizontal or vertical installation	For horizontal and vertical mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)	For horizontal installation; prepared for telescopic rails; 19" mounting bracket can be removed externally	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)	For horizontal rack mounting	For horizontal rack mounting
Design	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 2U	Rack PC, 19", 4U	Rack PC, 19", 2U	Rack PC, 19", 4U
Supply voltage										
Type of supply voltage	100 - 240 V AC	100 - 240 V AC	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC	100/240V AC (autorange) 50/60 Hz	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC	AC redundant 100/240 V (autorange) 50 Hz/60 Hz	110/230V AC (autorange) 50/60 Hz
Line frequency										
• Rated value 50 Hz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Rated value 60 Hz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mains buffering										
• Mains/voltage failure stored energy time			20 ms	20 ms	20 ms	20 ms	20 ms	20 ms	5 ms	20 ms

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
Processor										
Processor type	Pentium 6400 (2C/4T, 4.0 GHz, 4 MB Cache) / Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) / Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache) / Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache) / Intel Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache)	Core i7-6700 (4C/4T, 3.6 (4.0) GHz, 8 MB Cache)		Core i9-12900E 16C (8P+8E)/24T, 2.3 (5.0) GHz, 30 MB cache; Core i7-12700E 12C (8P+4E)/20T, 2.1 (4.8) GHz, 25 MB cache; Core i5-12500E 6C(4P)/12T, 2.9 (4.5) GHz, 18 MB cache; Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB cache;	Core i7-12700E 12C (8P+4E)/20T, 2.1 (4.8) GHz, 25 MB cache; Core i5-12500E 6C(6P)/12T, 2.9 (4.5) GHz, 18 MB cache; Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB cache;	Intel Xeon W-1270E (8C/16T, 3.4 (4.8) GHz, 16 MB Cache); Intel Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache); Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache); Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache); Intel Core Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache)	Intel Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache, VT-x/-d-Technology)	Intel Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache, VT-x/-d-Technology)	Dual Socket SP5 - 2x AMD EPYC™ 9454 Embedded Series Server Processors - max. 400 W cTDP, 48 Cores/each; Dual Socket SP5 - 2x AMD EPYC™ 9354 Embedded Series Server Processors - max. 300 W cTDP, 32 Cores/each; Dual Socket SP5 - 2x AMD EPYC™ 9254 Embedded Series Server Processors - max. 240 W cTDP, 24 Cores/each; Dual Socket SP5 - 2x AMD EPYC™ 9124 Embedded Series Server Processors - max. 240 W cTDP, 16 Cores/each	2x Intel Xeon SP Silver 4210 10C/20T - 2.2 GHz/ 3.2 GHz; 2x Intel Xeon SP Silver 4216 16C/32T - 2.1 GHz/ 3.2 GHz; 2x Intel Xeon SP Gold 6226 12C/24T - 2.7 GHz/ 3.7 GHz; 2x Intel Xeon SP Gold 6230 20C/40T - 2.1 GHz/ 3.9 GHz
Chipset	Intel Q470	Intel H110	Intel R680E	Intel R680E	Intel H610E	Intel W480E / Intel H410	Intel C246	Intel C246	SoC	Intel C621
Graphic										
Graphics controller			Intel® UHD Graphics 730 / 770	Intel® UHD Graphics 730 / 770	Intel® UHD Graphics 730 / 770	Intel® UHD Graphics 630	Onboard Intel UHD graphics P630/630 integrated in processor; graphics card NVIDIA Quadro P400 PCIe (x16) triple head (optional)	Onboard Intel UHD graphics P630/630 integrated in processor; graphics card NVIDIA Quadro P400 PCIe (x16) triple head (optional)	ASPEED AST2600 Graphics Family (WDDM)	Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp
Graphics card			No	Yes; NVIDIA T400, RTX A2000, RTX A4000, RTX A5000	Yes; NVIDIA T400	Yes; NVIDIA T400, Quadro RTX P2200, Quadro RTX 4000			Yes; NVIDIA A100, NVIDIA H100, NVIDIA L4, NVIDIA L40	Yes; NVIDIA Quadro P620, RTX4000, RTX5000 and RTX A4000

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
Drives										
Hard disk	HDD & SSD	HDD & SSD		1x 2 TB HDD 3.5" SATA, 2x 2 TB HDD 3.5" SATA, RAID1 2x 2 TB HDD [Enterprise] 3.5" SATA, RAID1 2x 4 TB HDD [Enterprise] 3.5" SATA	1x 2 TB HDD 3.5" SATA, 2x 2 TB HDD 3.5" SATA	1 TB HDD 3.5" SATA, 2x 1 TB HDD 3.5" SATA, 1 TB HDD 3.5" SATA + 960 GB SSD 2.5" SATA, RAID1, 2x 1 TB HDD 3.5" SATA, RAID1, 2x 1 TB HDD [Enterprise] 3.5" SATA, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA + 2 TB HDD [Enterprise] 3.5" SATA as hot spare, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA + 960 GB SSD 2.5" SATA, RAID5, 3x 2 TB HDD [Enterprise] 3.5" SATA, RAID5, 3x 2 TB HDD [Enterprise] 3.5" SATA + 2 TB HDD [Enterprise] 3.5" SATA as hot spare	1x 1 TB 3.5" SATA HDD, 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module	1x 1 TB 3.5" SATA HDD, 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID5 3x 2 TB 3.5" SATA HDD (Enterprise), RAID5 3x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID1 2x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module, RAID5 3x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module		4 TB & 8 TB 3.5" SATA
SSD			Yes	Yes; 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 960 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD, 2x 1 024 GB M.2 NVMe SSD	Yes; 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 960 GB 2.5" SATA SSD	Yes; 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD	Yes; 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD	Yes; 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD	Yes; 1x 1/2 TB SSD M.2 NMVe	Yes; 960 GB / 1.9 TB / 3.8 TB SATA SSD and 1 TB / 2 TB M.2 NVMe and 1.92 TB / 7.68 TB U.3 NVMe SSD
Slot for drives				Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configura-tions) in drive cage Type A; mounting internally on the fixed drive cage optional	mounting internally in vibra-tion/shock-absorbing drive cage Type B or mounting on the front in removable trays in drive cage Type A; mounting internally on the fixed drive cage optional	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configura-tions) in drive cage Type A; mounting internally on the fixed drive cage optional	Mounting internally in vibra-tion/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configura-tions) in drive cage Type A; mounting internally on the fixed drive cage optional	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configura-tions) in drive cage Type A; mounting internally on the fixed drive cage optional		4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable; 8x 2.5" SSD front changeable

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1 SIMATIC IPC RW-543A	6AG4012-2.-...-0.X0 SIMATIC IPC347G (Rack PC, 19, 4HE)	6AG4105-6.-...-.... SIMATIC IPC RS-545A	6AG4104-6.-...-.... SIMATIC IPC RW-545A	6AG4103-6.-...-.... SIMATIC IPC RC-545A	6AG4104-5.-...-.... SIMATIC IPC547J	6AG4112-3.-...-.... SIMATIC IPC647E (Rack PC)	6AG4114-3.-...-.... SIMATIC IPC847E (Rack PC)	6AG4102-0.-...-.... SIMATIC IPC RS-828A	6BK1801-1.-...-.... SIMATIC IPC1047E (Rack PC)
Storage										
Main memory	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional	4 / 8 / 16 GB, supports up to 32 GB	8 GB to 128 GB DDR5 4800 SDRAM DIMM	8 GB to 128 GB DDR5 4800 SDRAM DIMM	8 GB to 64 GB DDR5 4800 SDRAM DIMM	4 GB to 128 GB DDR4 2933 SDRAM DIMM	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional	256 GB ... 1.5 TB DDR5-4800 MHZ RDIMM ECC	64 ... 512 GB
Hardware configuration										
Slots										
• free slots	2x PCI, 3x PCIe*4, 2x PCIe*16	3x PCI, 1x PCIe (x16), 1xPCIe (x4) (4 or 2 lanes), 2x PCIe (x4) (1 lane)	7 free slots for expansions (all long); 2x PCIe x16 (1 x 16 or 2 x 8 lanes) Gen 4; 1x PCIe x8 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 4; 1x PCIe x4 (4 lanes) Gen 4: 1x PCI	7 free slots for expansions (all long); 2x PCIe x16 (1 x 16 or 2 x 8 lanes) Gen 4; 1x PCIe x8 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 4; 1x PCIe x4 (4 lanes) Gen 4: 1x PCI	7 spare slots for expansions (all long); 1x PCIe x16 (16L) Gen4; 1x PCIe x16 (2L) Gen3; 1x PCIe x8 (1L) Gen3; 2x PCIe x4 (1L) Gen3; 2x PCI	7 spare slots for expansions (all long); mainboard with H410 chip set: 1x PCIe (x16) (16 lane) Gen 3, 1x PCIe (x16) (1 lanes) Gen 3, 1x PCIe (x8) (1 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 2x PCI; mainboard with W480E chip set: 1x PCIe (x16) (16 lane) Gen 3, 1x PCIe (x16) (4 lanes) Gen 3, 1x PCIe (x8) (1 lane) Gen 3, 1x PCIe (x4) (4 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 2x PCI	2 slots: 1x PCI Express (x16) (16 lanes), 1x PCI Express (x16) (4 lanes) or 4 slots: 2x PCI, 2x PCI Express (x16) (8 lanes) or 4 slots: 2x PCI Express (x16) (8 lanes), 1x PCI Express (x16) (4 lanes), 1x PCI Express (x16) (1 lane); expansion modules up to 312 mm in length can be used	9 slots: 7x PCI, 2x PCI Express (x16) (8 lanes) or 11 slots: 3x PCI, 1x PCI Express (x16) (8 lanes), 5x PCI Express (x16) (4 lanes), 2x PCI Express (x4) (4 lanes) or 11 slots: 3x PCI, 1x PCI Express (x16) (16 lanes), 3x PCI Express (x16) (4 lanes), 2x PCI Express (x16) (1 lane), 2x PCI Express (x4) (4 lanes); expansion modules up to a length of 312 mm can be used	7 Slots: 2 x PCI-E Gen5 x16 Slot optional for 2 x DW GPU Card or 4 x PCI-E Gen5 x8 (FHFL) + 3 x PCI-E Gen5 x16 Slot (FHHL)	6x PCIe slots (2x PCIe x8 + 4x PCIe x16)

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
Interfaces										
Interfaces/bus type			2x Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; 1x 2.5 Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with option interlock, 3x DisplayPort V1.4a, 1x DVI-D, 1x COM1 and 1x COM2 (optional), audio: line in, line out, micro	2x Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; 1x 2.5 Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with option interlock, 3x DisplayPort V1.4a, 1x DVI-D, 1x COM1 and 1x COM2 (optional), audio: line in, line out, micro	1x Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; USB 3.2 Gen 1: 2x type A on rear, USB 2.0: 2x type A on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 1x internal e.g. for software dongle with option interlock, 2x DisplayPort V1.4a, 1x DVI-D, 1x COM1, 1x COM2 and 1x COM3 (optional), audio: line in, line out, micro	mainboard (H410 chip set): 2x Intel Gigabit Ethernet (RJ45, teaming-capable), USB 3.1 Gen 1: 2x on rear, 2x on front, USB 2.0: 4x on rear, 1x internal e.g. for software dongle with optional interlock, 1x DisplayPort V1.2, 1x DVI-D, 1x COM1, audio: line in, line out, micro; mainboard (W480E chip set): 3x Intel Gigabit Ethernet (RJ45, teaming-capable), USB 3.1 Gen 2: 4x type A, 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with optional interlock, 2x DisplayPort V1.2, 1x DVI-D, 1x COM1, audio: line in, line out, micro	1x COM1, 1x COM2 (optional), 2x DisplayPort, 1x DVI-D, audio (microphone in, line in, line out), 9x USB, 3x Gigabit Ethernet	1x COM1, 1x COM2 (optional), 2x DisplayPort, 1x DVI-D, audio (microphone in, line in, line out), 9x USB, 3x Gigabit Ethernet	Interfaces front: 2x USB 3.1 (Type A) frontside; LED Indicators: Power, SSD, Ethernet 1-2, Watchdog, Temp, Fans, drives alarm, PS alarm Interfaces rear: 2x 10 Gbit Ethernet (IE/PN), RJ45; 1x 1 Gbit Ethernet (BMC), RJ45; 1x COM1; 1x VGA; 4x USB 3.1 Gen. 2, Type A Interfaces internaly: 2x M.2 PCIe x4, Key M, 22110 Slot; Riser card: 2 x PCI-E Gen5 x16 Slot optional for 2 x DW GPU Card or 4 x PCI-E Gen5 x8 (FHFL) + 3 x PCI-E Gen5 x16 Slot (FHHL) System Management: IPMI 2.0 / RedFish, TPM 2.0	2x 1 GB LAN (RJ45), COM1, IPMI, VGA
PROFIBUS/MPI							can be implemented with plug-in card	can be implemented with plug-in card		
USB port	4x USB3.2 and 2x USB2.0 on rear panel, 2x USB2.0 on front panel, 1x USB2.0 vertical and 2x USB2.0 on motherboard	4x USB 3.0 on rear panel, 2x USB 2.0 on front panel, 2x USB 2.0 internal and 2x pin header USB	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear; 2x USB 3.1 Gen. 2 type A internally, e.g. for software dongle with optional interlock; 2x USB 3.1 Gen. 1 type A on the front, can be used with door closed	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear; 2x USB 3.1 Gen. 2 type A internally, e.g. for software dongle with optional interlock; 2x USB 3.1 Gen. 1 type A on the front, can be used with door closed	USB 3.2 Gen 1: 2x type A on rear, USB 2.0: 2x type A on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 1x internal	mainboard (H410 chip set): USB 3.1 Gen 1: 2x on rear, 2x on front, USB 2.0: 4x on rear, 1x internal e.g. for software dongle with optional interlock; mainboard (W480E chip set): USB 3.1 Gen 2: 4x type A, 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with optional interlock	4x USB 3.1 Gen. 2 Type A, 2x USB 3.1 Gen. 2 Type C on the rear; 1x USB 3.1 Gen. 2 Type A internally, e.g. for software dongle with optional interlock, 2x USB 3.1 Gen. 1 Type A on the front, can be used with door closed	4x USB 3.1 Gen. 2 Type A, 2x USB 3.1 Gen. 2 Type C on the rear; 1x USB 3.1 Gen. 2 Type A internally, e.g. for software dongle with optional interlock, 2x USB 3.1 Gen. 1 Type A on the front, can be used with door closed	Interfaces front: 2x USB 3.1 (Type A) Interfaces rear: 4x USB 3.1 Gen. 2, Type A	2x front, 2x rear USB 3.0, 2x rear USB 2.0
Connection for keyboard/mouse	PS/2 or USB; PS/2 or USB	2x PS/2	USB	USB	USB	USB	USB	USB	USB	USB

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
serial interface	1x RS232 on the rear panel, 3x RS232, 1x RS232/RS422/-RS485,1x RS232/RS485 on the motherboard	2x COM ports (RS 232, RS 422, RS 485) and 2x COM pin header	COM1 (optional): 1x RS 232 or RS 485; COM2 (optional) 1x RS 232	COM1 (optional): 1x RS 232 or RS 485; COM2 (optional) 1x RS 232	COM1: 1x RS 232 or RS 485; COM2 and COM3 (optional) 1x RS 232	COM1: 1x RS 232 or RS 485; COM2 (optional) 1x RS 232	COM1: 1x RS 232, COM2 (optional): 1x RS 232	COM1: 1x RS 232, COM2 (optional): 1x RS 232	1x COM	1x COM
Multimedia										
• Audio In/Out	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		No
• Microphone In	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		No
Video interfaces										
• Graphics interface	1x VGA, 1x DVI-D, 1x HDMI	1x DisplayPort, 1x VGA	3x DisplayPort; 1x DVI-D	3x DisplayPort; 1x DVI-D	2x DisplayPort; 1x DVI-D	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)	1x VGA	VGA, with optional graphics card 3x or 4x DP1.4
Industrial Ethernet										
• Industrial Ethernet interface			3x Ethernet (RJ45)	3x Ethernet (RJ45)	2x Ethernet (RJ45)	2x or 3x Gigabit Ethernet (IE/PN), RJ45	3x Gigabit Ethernet (IE/PN), RJ45	3x Gigabit Ethernet (IE/PN), RJ45	2x 10 Gbit Ethernet (IE/PN), RJ45; 1x 1 Gbit Ethernet (BMC), RJ45	2x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• number of interfaces (1 000 Mbps)			2	2	2					2
• number of interfaces (2 500 Mbps)			1	1						
Interrupts/diagnostics/status information										
LED status display	POWER, HDD	POWER, HDD	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM	POWER, HDD, ETHERNET 1, ETHERNET 2, WATCHDOG, TEMP, FAN	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM	Power, HDD, Ethernet 1, Ethernet 2, Ethernet 3, Watchdog, Temp, Fan, HDD1 alarm, HDD0 alarm	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM	Power, SSD, Ethernet 1-2, Watchdog, Temp, Fans, drives alarm, PS alarm	POWER, HDD, FAN Fail
Integrated Functions										
Monitoring functions										
• Temperature monitoring			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Watchdog			Yes	Yes	Yes	Yes	Yes	Yes	Yes	
• Fan			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Monitoring function via network						Optional	Optional	Optional	Yes (per IPMI)	Yes (per IPMI)
EMC										
Interference immunity against discharge of static electricity										

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1 SIMATIC IPC RW-543A	6AG4012-2.-...-0.X0 SIMATIC IPC347G (Rack PC, 19, 4HE)	6AG4105-6.-...-.... SIMATIC IPC RS-545A	6AG4104-6.-...-.... SIMATIC IPC RW-545A	6AG4103-6.-...-.... SIMATIC IPC RC-545A	6AG4104-5.-...-.... SIMATIC IPC547J	6AG4112-3.-...-.... SIMATIC IPC647E (Rack PC)	6AG4114-3.-...-.... SIMATIC IPC847E (Rack PC)	6AG4102-0.-...-.... SIMATIC IPC RS-828A	6BK1801-1.-...-.... SIMATIC IPC1047E (Rack PC)
• Interference immunity against discharge of static electricity	±4 kV contact discharge (acc. to IEC 1000-4-2: 1995); ±8 kV contact discharge (acc. to IEC 1000-4-2: 1995)	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact; ±8 kV air (to IEC 61000-4-2, ESD)	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields										
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to 2.7 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	• 10 V/m; 80 up to 2 700 MHz 80 % AM to IEC 61000-4-3 • 3 V/m; 2.7 to 6 GHz 80 % AM to IEC 61000-4-3 • 10 V; 150 kHz up to 80 MHz 80 % AM to IEC 61000-4-6	
Interference immunity to cable-borne interference										
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4; burst); ±0,5 kV (according to IEC 61000-4-5; surge pulse/line to line); ±1 kV (according to IEC 61000-4-5; surge pulse/line to ground)	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV; acc. to IEC 61000-4-4; burst	
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	± 2 kV; in accordance with IEC 61000-4-4; burst; length > 30 m	
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m	± 1 kV; in accordance with IEC 61000-4-4; burst; length < 30 m	
Interference immunity against voltage surge										
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	
Interference immunity to magnetic fields										
• Interference immunity to magnetic fields at 50 Hz			30 A/m; to IEC 61000-4-8	30 A/m; to IEC 61000-4-8	30 A/m; to IEC 61000-4-8	30 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	
Emission of conducted and non-conducted interference										

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
• Interference emission via line/AC current cables	IEC 61000-6-4, CISPR 22, FCC Class A	IEC 61000-6-4, CISPR 22, FCC Class A	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4 EN 55032 Class A; FCC Class A; KS C 9832 Class A EN 61000-3-2 Class D; EN 61000-3-3	
Compliance with line harmonic distortion limits										
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3		
Degree and class of protection										
IP (at the front)	IP20	IP20	IP30	IP30	IP30	IP30	IP41	IP41	IP20	IP30
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Standards, approvals, certificates										
CE mark			Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)	Yes; use in industry (interference emission: EN 61000-6-4)	Yes; Industry
UKCA mark				Yes						
CSA approval			Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; CAN/CSA-C22.2 No. 62368-1	Yes; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
UL approval			UL 61010-2-201 Second Edition, File E85972	UL 61010-2-201 Second Edition, File E85972	UL 61010-2-201 Second Edition, File E85972	UL 61010-2-201 Second Edition, File E85972	Yes; UL 61010-2-201 Second Edition, File E85972	Yes; UL 61010-2-201 Second Edition, File E85972	Yes; standard UL 62368-1	Yes; UL 61010-2-201 Third Edition, File E115352 (I.T.E.)
cULus			Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes; standard UL 62368-1	Yes; UL 61010-2-201 Third Edition; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
RCM (formerly C-TICK)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	
KC approval			Yes	Yes	Yes	Yes	Yes	Yes	Yes; in preparation	Yes
EAC (formerly Gost-R)			Yes		Yes	Yes	Yes	Yes		
FCC			Yes		Yes				Yes	Yes
BSMI									Yes	
BIS			Yes							
EMC			EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4 EN 55032 Class A; FCC Class A; KS C 9832 Class A EN 61000-3-2 Class D; EN 61000-3-3	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
Dust protection			With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	dust filter with mounted front bezel	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Marine approval										
• Germanischer Lloyd (GL)							Yes; Only with SSD			
• American Bureau of Shipping (ABS)							Yes; Only with SSD			
• Bureau Veritas (BV)							Yes; Only with SSD			
• Det Norske Veritas (DNV)							Yes; Only with SSD			
Ambient conditions										
Ambient temperature during operation										
• min.	5 °C	5 °C	0 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)	5 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)
• max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	50 °C	50 °C	45 °C	50 °C; Basic configuration (without graphics card)
Relative humidity										
• Relative humidity			tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transp-ortation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transp-ortation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transp-ortation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	tested to IEC 60068-2-78; IEC 60068-2-30 5 % to 85 % at 30 °C; no condensation gradient: ≤ 10 K/h; no condensation 5 % to 95 % at 25 °C to 55 °C; no condensation gradient: ≤ 20 K/h; no condensation	permissible range for 0 to 31 °C: 5 ... 80 %; no condensation
Vibrations										
• Vibration resistance during operation acc. to IEC 60068-2-6			Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s²
Shock testing										
• Shock load during operation			Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis	Tested according to DIN IEC 60068-2-7: 50 m/s2 (5 g), 30 ms, 100 shocks	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27: 50 m/s², 30 ms	half-sine: acceleration 50 m/s², duration 30 ms

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Technical specifications (continued)

Article number	6AG4011-3.-...-...1	6AG4012-2.-...-0.X0	6AG4105-6.-...-....	6AG4104-6.-...-....	6AG4103-6.-...-....	6AG4104-5.-...-....	6AG4112-3.-...-....	6AG4114-3.-...-....	6AG4102-0.-...-....	6BK1801-1.-...-....
	SIMATIC IPC RW-543A	SIMATIC IPC347G (Rack PC, 19, 4HE)	SIMATIC IPC RS-545A	SIMATIC IPC RW-545A	SIMATIC IPC RC-545A	SIMATIC IPC547J	SIMATIC IPC647E (Rack PC)	SIMATIC IPC847E (Rack PC)	SIMATIC IPC RS-828A	SIMATIC IPC1047E (Rack PC)
Operating systems										
pre-installed operating system			without operating system; without USB flash drive (restore image; D&D)	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC	Windows 10 IoT Enterprise 2021 LTSC, Windows 10 IoT Enterprise 2019 LTSC; Windows Server 2022 Standard Edition incl. 5 clients; Windows Server 2019 Standard Edition incl. 5 clients	Windows 10 Enterprise 2016 LTSB, multi-language (64-bit); Windows 10 IoT Enterprise 2019 LTSC, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 multi-language clients (64-bit); Windows Server 2019 Standard Edition incl. 5 multi-language clients (64-bit)	Windows 10 Enterprise 2016 LTSB, multi-language (64-bit); Windows 10 IoT Enterprise 2019 LTSC, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 multi-language clients (64-bit); Windows Server 2019 Standard Edition incl. 5 multi-language clients (64-bit)	Windows Server 2022 IoT Standard Edition incl. unlimited Clients for this server, 64bit, MUI (en, de, fr, it, sp)	Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 or Windows Server 2019 or Windows Server 2022
Additional info on operating system				Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)	optional: SIMATIC Industrial OS	Multilingual User Interface (MUI): 5 languages (English, German, French, Spanish, Italian); 64 bit
without operating system	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Software										
SIMATIC Software				Optional package with SIMATIC WinCC	Optional package with SIMATIC WinCC	Optional package with SIMATIC WinCC	Optional package with SIMATIC WinCC	Optional package with SIMATIC WinCC		
Dimensions										
Width	430 mm	430 mm	430 mm	430 mm	430 mm	430 mm	430 mm	430 mm	444 mm	430 mm
Height	176 mm; 4U	176 mm	177 mm; 4U	177 mm; 4U	177 mm; 4U	177 mm; 4U	88 mm; 2U	177 mm; 4U	88 mm; 2U	176.6 mm; 4U
Depth	465.8 mm	465.8 mm	446 mm	446 mm	446 mm; Device with short enclosure: 356 mm	446 mm; Device with short enclosure: 356 mm	444 mm	444 mm	585 mm	572 mm

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Overview

SIMATIC IPC RW-543B

The SIMATIC IPC RW-543B is an industrial PC in 19" rack design (4 U).
It offers:

- Optimized price
- High performance
- Intel Core i technology of the 12th generation

Selection and ordering data

SIMATIC IPC RW-543B	6AG4011-4 ❑ ❑ ❑ ❑ - 0 ❑ X ❑
Completely metallic enclosure for high electromagnetic compatibility and mechanical ruggedness, 7 expansion slots for PC cards, dust protection through overpressure ventilation, front LEDs: POWER	
Processor	
• Intel Celeron G6900 (2C/2T, 3.4 GHz, 4 MB cache)	A
• Intel Pentium G7400 (2C/4T, 3.7 GHz, 6 MB cache)	B
• Intel Core i3-12100E (4C/8T, 4.2 GHz, 12 MB cache)	C
• Intel Core i5-12500E (6C/12T, 4.5 GHz, 18 MB cache)	D
• Intel Core i7-12700E (12C/20T, 4.8 GHz, 25 MB cache)	E
• Intel Core i9-12900E (16C/24T, 5.0 GHz, 30 MB cache)	F
Drives	
• 1 TB HDD	A
• 1 x 2 TB HDD	B
• 256 GB SSD	C
• 512 GB SSD	D
• 1 TB HDD + 256 GB SSD	E
• 1 TB SSD	F
• RAID 2 x 512 GB SSD 2.5"	G
• RAID 2 x 1 TB SSD 2.5"	H
• RAID 2 x 2 TB HDD 3.5"	J
Memory configuration	
• 4 GB DDR4 SDRAM (1 x 4 GB DDR4)	0
• 8 GB DDR4 SDRAM (1 x 8 GB DDR4)	1
• 16 GB DDR4 SDRAM (1 x 16 GB DDR4)	2
• 32 GB DDR4 SDRAM (1 x 32 GB DDR4)	3
• 64 GB DDR4 SDRAM (2 x 32 GB DDR4 SDRAM)	4
• 128 GB DDR4 SDRAM (4 x 32 GB DDR4 SDRAM)	5
Type of enclosure	
• Standard chassis, 350 W	0
• Standard chassis, 500 W	1
• Standard chassis, 850 W	2
• Eco chassis, 350 W	4
• Eco chassis, 500 W	5
Operating system	
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Pentium, Core i3/i5 processors], without USB flash drive (D&D)	A
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Core i7/i9 processors], without USB flash drive (D&D)	B
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Pentium, Core i3/i5 processors], with USB flash drive (D&D)	C
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Core i7/i9 processors], with USB flash drive (D&D)	D
• Without operating system	X
Power code	
• China power code	0
• Without power code	1

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Selection and ordering data (continued)

Note:
Please select the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
You can find the configurator at this link.

Technical specifications

Article number	6AG4011-4....-.... SIMATIC IPC RW-543B
General information	
Product type designation	RW-543B
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100 - 240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Intel® Celeron G6900 with 2 cores / 2 threads; Intel® Pentium G7400 with 2 cores / 4 threads; Intel® Core™ i3 with 4 cores / 8 threads, Core™ i5 with 6 cores/12 threads, Core™ i7 with 12 cores / 20 threads, Core™ i9 with 16 cores / 24 threads.
Chipset	Intel®Q670
Drives	
Hard disk	HDD & SSD
Storage	
Type of memory	4x non-ECC UDIMM slots for DDR4
Hardware configuration	
Slots	
• free slots	2x PCIe (x16), 3x PCIe (x4), 2x PCI
Interfaces	
USB port	8x USB3.2 on rear panel, 2x USB2.0 on front panel, 2x USB2.0 vertical and 1x USB2.0 pin header on motherboard
serial interface	1x RS232 and 1x RS232/422/485 at rear panel, 3x RS232 and 1x RS232/485 on mainboard
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	1x DP, 1x HDMI, 1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	1
• number of interfaces (2 500 Mbps)	1
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6

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Technical specifications (continued)

Article number	6AG4011-4....-.... SIMATIC IPC RW-543B
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-4, CISPR 22, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	40 °C
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2021 LTSC, 64-bit, MUI
without operating system	Yes
Dimensions	
Width	430 mm
Height	176 mm
Depth	465.8 mm

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Overview



SIMATIC IPC RW-543A

SIMATIC IPC RW-543A is an industrial PC in 19" rack design (4 U).
It offers:

- Optimized price
- High performance
- Intel Core i technology of the 10th generation

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Selection and ordering data

SIMATIC IPC RW-543A	6AG4011-3	❑	❑	❑	❑	-	0	❑	X	1
Rack PC, 19", 4 U Interfaces: 4x USB 3.2 on rear; 7x USB 2.0 (2x on front, 2x on rear, 1x internal, 2x pin connector); 1x VGA, 1x HDMI, 1x DVI-D, 1x PS/2, 1x COM, Audio (line in/out, mic), each on rear, 5x COM pin connector; Slots (all long): 3 x PCI, 2 x PCI Express x16 (1x PCIe*16 or 2x PCIe*8), 3 x PCI Express x4 (4 lanes); temperature and fan monitoring; watchdog; card retainer										
Processor										
• Intel Pentium G6400 (2C/4T, 4.0 GHz, 4 MB cache)		A								
• Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB cache)		B								
• Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB cache)		C								
• Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB cache)		D								
• Intel Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB cache)		E								
Drives										
• 1 TB HDD			A							
• 2x 1 TB HDD			B							
• 256 GB SSD			C							
• 512 GB SSD			D							
• 1 TB HDD and 256 GB SSD			E							
Memory configuration										
• 4 GB DDR4 RAM				0						
• 8 GB DDR4 RAM				1						
• 16 GB DDR4 RAM				2						
• 32 GB DDR4 RAM				3						
• 64 GB DDR4 SDRAM (2x 32 GB DDR4 SDRAM)				4						
• 128 GB DDR4 SDRAM (4x 32 GB DDR4 SDRAM)				5						
Type of enclosure										
• Standard chassis, 350 W					0					
• Standard chassis, 500 W					1					
• Standard chassis, 850 W					2					
• Eco chassis, 350 W					4					
• Eco chassis, 500 W					5					
Operating system										
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, sp), 64-bit (Pentium, Core i3/i5)								A		
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, sp), 64-bit (Core i7/i9)								B		
• Without operating system								X		

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

You can find the configurator at this link.

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Technical specifications

Article number	6AG4011-3....-...1 SIMATIC IPC RW-543A
General information	
Product type designation	RW-543A
Installation type/mounting	
Mounting	for horizontal or vertical installation
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100 - 240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Pentium 6400 (2C/4T, 4.0 GHz, 4 MB Cache) / Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) / Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache) / Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache) / Intel Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache)
Chipset	Intel Q470
Drives	
Hard disk	HDD & SSD
Storage	
Main memory	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional
Hardware configuration	
Slots	
• free slots	2x PCI, 3x PCIe*4, 2x PCIe*16
Interfaces	
USB port	4x USB3.2 and 2x USB2.0 on rear panel, 2x USB2.0 on front panel, 1x USB2.0 vertical and 2x USB2.0 on motherboard
Connection for keyboard/mouse	PS/2 or USB; PS/2 or USB
serial interface	1x RS232 on the rear panel, 3x RS232, 1x RS232/RS422/RS485,1x RS232/RS485 on the motherboard
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	1x VGA, 1x DVI-D, 1x HDMI
Industrial Ethernet	
• Industrial Ethernet interface	
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge (acc. to IEC 1000-4-2: 1995); ±8 kV contact discharge (acc. to IEC 1000-4-2: 1995)
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4; burst); ±0,5 kV (according to IEC 61000-4-5; surge pulse/line to line); ±1 kV (according to IEC 61000-4-5; surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric

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Technical specifications (continued)

Article number	6AG4011-3....-...1 SIMATIC IPC RW-543A
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-4, CISPR 22, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C
• max.	40 °C
Operating systems	
without operating system	Yes
Dimensions	
Width	430 mm
Height	176 mm; 4U
Depth	465.8 mm

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Overview

SIMATIC IPC RC-543B

The SIMATIC IPC RC-543B is an industrial PC in 19" rack design (4 U).
It offers:

- Optimized price
- High performance
- Intel Core i technology of the 12th generation

Selection and ordering data

SIMATIC IPC RC-543B	6 A G 4 0 12 -4	❑	❑	❑	❑	-	0	❑	X	❑
Completely metallic enclosure for high electromagnetic compatibility and mechanical ruggedness, 7 expansion slots for PC cards, dust protection through overpressure ventilation, front LEDs: POWER										
Processor										
• Intel Celeron G6900 (2C/2T, 3.4 GHz, 4 MB cache)		A								
• Intel Pentium G7400 (2C/4T, 3.7 GHz, 6 MB cache)		B								
• Intel Core i3-12100E (4C/8T, 4.2 GHz, 12 MB cache)		C								
• Intel Core i5-12500E (6C/12T, 4.5 GHz, 18 MB cache)		D								
• Intel Core i7-12700E (12C/20T, 4.8 GHz, 25 MB cache)		E								
Drives										
• 1 TB HDD			A							
• 1 x 2 TB HDD			B							
• •256 GB SSD			C							
• 512 GB SSD			D							
• 1 TB HDD + 256 GB SSD			E							
• 1 TB SSD			F							
Memory configuration										
• 4 GB DDR4 SDRAM (1 x 4 GB DDR4)				0						
• 8 GB DDR4 SDRAM (1 x 8 GB DDR4)				1						
• 16 GB DDR4 SDRAM (1 x 16 GB DDR4)				2						
• 32 GB DDR4 SDRAM (1 x 32 GB DDR4)				3						
• 64 GB DDR4 SDRAM (2 x 32 GB DDR4 SDRAM)				4						
Type of enclosure										
• Standard chassis, 350 W					0					
• Standard chassis, 500 W					1					
• Standard chassis, 850 W					2					
• Eco chassis, 350 W					4					
• Eco chassis, 500 W					5					
Operating system										
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Pentium, Core i3/i5 processors], without USB flash drive (D&D)								A		
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Core i7/i9 processors], without USB flash drive (D&D)								B		
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Pentium, Core i3/i5 processors], with USB flash drive (D&D)								C		
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Core i7/i9 processors], with USB flash drive (D&D)								D		
• Without operating system								X		
Power code										
• China power code										0
• Without power code										1

Note:
Please select the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
You can find the configurator at this link.

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Technical specifications

Article number	6AG4012-4....-.... SIMATIC IPC RC-543B
General information	
Product type designation	RC-543B
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100 - 240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Intel® Celeron G6900 with 2 cores / 2 threads; Intel® Pentium G7400 with 2 cores / 4 threads; Intel® Core™ i3 with 4 cores / 8 threads, Core™ i5 with 6 cores / 12 threads, Core™ i7 with 12 cores / 20 threads
Chipset	Intel® H610
Drives	
Hard disk	HDD & SSD
Hardware configuration	
Slots	
• free slots	1x PCIex16, 2x PCIex4, 4xPCI
Interfaces	
USB port	4x USB 3.0 and 2x USB 2.0 at rear panel, 2x USB 2.0 in front panel, 2x USB 2.0 vertical, 1x USB 2.0 on mainboard
serial interface	1x RS232 and 1x RS232/422/485 at rear panel, 3x RS232 and 1x RS232/485 on mainboard
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	1x DP, 1x HDMI, 1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	1
• number of interfaces (2 500 Mbps)	1
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference	

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Technical specifications (continued)

Article number	6AG4012-4....-.... SIMATIC IPC RC-543B
• Interference emission via line/AC current cables	IEC 61000-6-4, CISPR 22, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	20
IP (rear)	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Operating systems	
pre-installed operating system	No
without operating system	Yes
Dimensions	
Width	430 mm
Height	176 mm
Depth	419.9 mm

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Overview



SIMATIC IPC347G

SIMATIC IPC347G is an industrial PC in 19" rack design (4 U).
It offers:

- Optimized price
- High performance
- 6th generation Intel Core i technology

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Selection and ordering data

SIMATIC IPC347G	6AG4012-2	❑	❑	❑	0	-	0	❑	X	0
;										
Processors										
• Pentium G4400 (2C/2T, 3.3 GHz, 3 MB cache)		A								
• Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache)		B								
• Core i7-6700 (4C/4T, 3.4 (4.0) GHz, 8 MB cache)		C								
Drives (SATA)										
• 1 x TB HDD			A							
• 256 GB SSD			B							
• 512 GB SSD			C							
Memory configuration										
• 4 GB DDR4 RAM				1						
• 8 GB DDR4 RAM				2						
• 16 GB DDR4 RAM				3						
• 32 GB DDR4 RAM				4						
Operating systems										
• Without operating system; driver and documentation on USB flash drive								X		
• Windows 10 IoT Enterprise Value (Pentium/i3/i5)								A		
• Windows 10 IoT Enterprise High End (i7)								B		

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

You can find the configurator at this link.

Preferred variants (available at short notice ex stock) SIMATIC IPC347G	
Configuration 1 Pentium Dual Core G4400 (2C/2T, 3.3 GHz, 3 MB cache); 2x Gb Ethernet, 1x DP, 1x VGA, 2x USB on front, 4x USB on rear, 2x USB internal, 2x serial, 2x PS/2, audio; 1x 1 TB HDD, internal; 4 GB DDR4 (1x 4 GB), no DVD +/-RW; Windows 10 IoT Enterprise for Pentium/i3/i5; 100/240 V industrial power supply unit, without power supply cord	**6AG4012-2AA10-0AX0**
Configuration 2 Pentium Dual Core G4400 (2C/2T, 3.3 GHz, 3 MB cache); 2x Gb Ethernet, 1x DP, 1x VGA, 2x USB on front, 4x USB on rear, 2x USB internal, 2x serial, 2x PS/2, audio; 1x 1 TB HDD, internal; 4 GB DDR4 (1x 4 GB), no DVD +/-RW; without operating system; 100/240 V industrial power supply unit, without power supply cord	**6AG4012-2AA10-0XX0**
Configuration 3 Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache); 2x Gb Ethernet, 1x DP, 1x VGA, 2x USB on front, 4x USB on rear, 2x USB internal, 2x serial, 2x PS/2, audio; 1x 1 TB HDD, internal; 4 GB DDR4 (1x 4 GB), no DVD +/-RW; Windows 10 IoT Enterprise for Pentium/i3/i5; 100/240 V industrial power supply unit, without power supply cord	**6AG4012-2BA10-0AX0**

Preferred variants (available at short notice ex stock) SIMATIC IPC347G	
Configuration 4 Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache); 2x Gb Ethernet, 1x DP, 1x VGA, 2x USB on front, 4x USB on rear, 2x USB internal, 2x serial, 2x PS/2, audio; 1x 1 TB HDD, internal; 8 GB DDR4 (1x 8 GB), no DVD +/-RW; Windows 10 IoT Enterprise for Pentium/i3/i5; 100/240 V industrial power supply unit, without power supply cord	**6AG4012-2BA20-0AX0**
Configuration 5 Core i7 6700 (4C/8T, 3.4 (4.0) GHz, 8 MB cache); 2x Gb Ethernet, 1x DP, 1x VGA, 2x USB on front, 4x USB on rear, 2x USB internal, 2x serial, 2x PS/2, audio; 1x 1 TB HDD, internal; 8 GB DDR4 (1x 8 GB), no DVD +/-RW; Windows 10 IoT Enterprise for i7; 100/240 V industrial power supply unit, without power supply cord	**6AG4012-2CA20-0BX0**
Configuration 6 • Pentium G4400 (2C/2T, 3.3 GHz, 3 MB cache), 1 TB HDD, 8 GB DDR4 RAM, without operating system	**6AG4012-2AA20-0XX0**
Configuration 7 • Pentium G4400 (2C/2T, 3.3 GHz, 3 MB cache), 1 TB HDD, 8 GB DDR4 RAM, Windows 10 IoT Enterprise Value (Pentium/i3/i5)	**6AG4012-2AA20-0AX0**
Configuration 8 • Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache), 1 TB HDD, 8 GB DDR4 RAM, without operating system	**6AG4012-2BA20-0XX0**
Configuration 9 • Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache), 256 GB SSD, 8 GB DDR4 RAM, Windows 10 IoT Enterprise Value (Pentium/i3/i5)	**6AG4012-2BB20-0AX0**

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Selection and ordering data (continued)

Preferred variants (available at short notice ex stock) SIMATIC IPC347G	
Configuration 10 • Core i7-6700 (4C/4T, 3.4 (4.0) GHz, 8 MB cache), 1 TB HDD, 8 GB DDR4 RAM, without operating system	**6AG4012-2CA20-0XX0**
Configuration 11 • Core i7-6700 (4C/4T, 3.4 (4.0) GHz, 8 MB cache), 256 GB SSD, 8 GB DDR4 RAM, Windows 10 IoT Enterprise High End (i7)	**6AG4012-2CB20-0BX0**

Technical specifications

Article number	6AG4012-2....-0.X0 SIMATIC IPC347G (Rack PC, 19, 4HE)
General information	
Product type designation	IPC347G
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100 - 240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Core i7-6700 (4C/4T, 3.6 (4.0) GHz, 8 MB Cache)
Chipset	Intel H110
Drives	
Hard disk	HDD & SSD
Storage	
Main memory	4 / 8 / 16 GB, supports up to 32 GB
Hardware configuration	
Slots	
• free slots	3x PCI, 1x PCIe (x16), 1xPCIe (x4) (4 or 2 lanes), 2x PCIe (x4) (1 lane)
Interfaces	
USB port	4x USB 3.0 on rear panel, 2x USB 2.0 on front panel, 2x USB 2.0 internal and 2x pin header USB
Connection for keyboard/mouse	2x PS/2
serial interface	2x COM ports (RS 232, RS 422, RS 485) and 2x COM pin header
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	1x DisplayPort, 1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	

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Technical specifications (continued)

Article number	6AG4012-2....-0.X0 SIMATIC IPC347G (Rack PC, 19, 4HE)
• Interference immunity against high frequency radiation	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to 2.7 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-4, CISPR 22, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C
• max.	40 °C
Dimensions	
Width	430 mm
Height	176 mm
Depth	465.8 mm

Article number	6AG4012-2AA10-0AX0 SIMATIC IPC347G (Rack PC, 19, 4U)	6AG4012-2AA10-0XX0 SIMATIC IPC347G (Rack PC, 19, 4U)	6AG4012-2BA10-0AX0 SIMATIC IPC347G (Rack PC, 19, 4U)	6AG4012-2BA20-0AX0 SIMATIC IPC347G (Rack PC, 19, 4U)	6AG4012-2CA20-0BX0 SIMATIC IPC347G (Rack PC, 19, 4U)
General information					
Product type designation	IPC347G	IPC347G	IPC347G	IPC347G	IPC347G
Installation type/mounting					
Mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting
Design	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U
Supply voltage					
Type of supply voltage	100 - 240 V AC	100 - 240 V AC	100 - 240 V AC	100 - 240 V AC	100 - 240 V AC
Line frequency					
• Rated value 50 Hz	Yes	Yes	Yes	Yes	Yes
• Rated value 60 Hz	Yes	Yes	Yes	Yes	Yes
Processor					
Processor type	Intel Pentium G4400	Intel Pentium G4400	Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache)	Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache)	Core i7-6700 (4C/4T, 3.6 (4.0) GHz, 8 MB Cache)
Chipset	Intel H110	Intel H110	Intel H110	Intel H110	Intel H110
Graphic					
Graphics card	Yes	Yes	Yes	Yes	Yes
Drives					
Hard disk	1 TB HDD	1 TB HDD	1 TB HDD	1 TB HDD	1 TB HDD
Storage					
Main memory	4 GB (pre-installed), support up to 32 GB	4 GB (pre-installed), support up to 32 GB	4 GB (pre-installed), support up to 32 GB	8 GB (pre-installed), support up to 32 GB	8 GB (pre-installed), support up to 32 GB
Interfaces					
Number of industrial Ethernet interfaces	2	2	2	2	2
Number of PROFINET interfaces	2	2	2	2	2

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Technical specifications (continued)

Article number	6AG4012-2AA10-0AX0	6AG4012-2AA10-0XX0	6AG4012-2BA10-0AX0	6AG4012-2BA20-0AX0	6AG4012-2CA20-0BX0
	SIMATIC IPC347G (Rack PC, 19, 4U)	SIMATIC IPC347G (Rack PC, 19, 4U)	SIMATIC IPC347G (Rack PC, 19, 4U)	SIMATIC IPC347G (Rack PC, 19, 4U)	SIMATIC IPC347G (Rack PC, 19, 4U)
serial interface	2x COM ports (RS 232, RS 422, RS 485) and 2x COM pin header	2x COM ports (RS 232, RS 422, RS 485) and 2x COM pin header	2x COM ports (RS 232, RS 422, RS 485) and 2x COM pin header	2x COM ports (RS 232, RS 422, RS 485) and 2x COM pin header	2x COM ports (RS 232, RS 422, RS 485) and 2x COM pin header
Video interfaces					
• Graphics interface	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA
Industrial Ethernet					
• Industrial Ethernet interface					
- 100 Mbps	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information					
LED status display	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD
Degree and class of protection					
IP degree of protection	IP20	IP20	IP20	IP20	IP20
IP (rear)	IP20	IP20	IP20	IP20	IP20
Ambient conditions					
Ambient temperature during operation					
• min.	5 °C	5 °C	5 °C	5 °C	5 °C
• max.	40 °C	40 °C	40 °C	40 °C	40 °C
Operating systems					
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	without operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system				No	No
Dimensions					
Width	430 mm	430 mm	430 mm	430 mm	430 mm
Height	176 mm	176 mm	176 mm	176 mm	176 mm
Depth	465.8 mm	465.8 mm	465.8 mm	465.8 mm	465.8 mm

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Overview



SIMATIC IPC RS-545A
is a rugged industrial PC server class in 19" rack design (4 U) with server operating system.
It offers:

- Maximum performance
- Attractive price
- Intel Core technology of the 12th generation

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Selection and ordering data

SIMATIC IPC RS-545A	6AG41	0	5	-	6	❑	❑	❑	❑	-	❑	❑	❑	❑
SIMATIC IPC RS-545A (Rack IPC, 19", 4U)														
• Mainboard: Chipset R680E, 3x Ethernet (2x 1 Gbit, 1x 2.5 Gbit), 1x DVI-D, 3x DisplayPort														
• 4x USB 3.2 Gen. 2 Type A, 2x USB 3.2 Gen. 2x2 Type C, 2x USB 2.0 Type A internal; TPM2.0, audio														
• 7 slots: 2x PCIe x16 (1x 16L or 2x 8L), 1x PCIe x8 (4L), 3x PCIe x4 (4L), 1x PCI; 2x M.2 slots														
• 2x USB 3.1 Type A, 12x status LEDs on the front														
Processor														
• Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB cache						A								
• Core i5-12500E 6C(4P)/12T, 2.9 (4.5) GHz, 18 MB cache, iAMT						B								
Drives 1: SATA														
• 2 TB HDD 3.5" SATA							A							
• 960 GB SSD 2.5" SATA							D							
• RAID1, 2x 480 GB SSD 2.5" SATA							H							
• RAID1, 2x 960 GB SSD 2.5" SATA							J							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA							K							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA							L							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare							M							
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA							N							
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare							P							
• Without SATA drives							X							
Drives 2: NVMe														
• Without NVMe drives								0						
• 1 TB SSD M.2 NVMe (1 slot M.2 occupied)								2						
• RAID1, 2x 512 GB SSD M.2 NVMe (2 slots M.2 occupied)								4						
• RAID1, 2x 1 TB SSD M.2 NVMe (2 slots M.2 occupied)								5						
Memory configuration														
• 8 GB DDR5 SDRAM (1x 8 GB)									0					
• 16 GB DDR5 SDRAM (2x 8 GB)									1					
• 32 GB DDR5 SDRAM (2x 16 GB)									2					
• 64 GB DDR5 SDRAM (2x 32 GB)									3					
• 64 GB DDR5 SDRAM (2x 32 GB)									4					
Enclosure type, drive cage, interfaces														
• Enclosure with drive cage type B (for internal installation; 0.2 g vibration, 2 g shock), blue-chromated											1			
• Enclosure with drive cage type A (for removable trays on the front), blue-chromated											3			
• Enclosure with drive cage type B (for internal installation; 0.2 g vibration, 2 g shock), blue-chromated + 2x COM interface											6			
• Enclosure with drive cage type A (for removable trays), blue-chromated + 2x COM interface											7			
Power supply unit, graphics cards														
• 550 W 100/240 V AC industrial power supply unit												A		
• AI accelerator 2x NVIDIA L4 (2 slots occupied); 700 W 2x100/240 V AC redundant industrial power supply unit												C		
Operating system (preinstalled)														
• Windows Server 2022 Standard Edition 64-bit, incl. 5 clients multi-language (en, de, fr, it, es); without USB flash drive (restore image; D&D)													N	

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Selection and ordering data (continued)

SIMATIC IPC RS-545A	6AG41	0	5	-	6 ❑	❑	❑	❑	-	❑	❑	❑	❑
• Windows Server 2022 Standard Edition 64-bit, incl. 5 clients multi-language (en, de, fr, it, es); with USB flash drive (restore image; D&D)												P	
• Without operating system; without USB flash drive (D&D)												X	
Power supply cable													
• Without power supply cord													0
• Power supply cord for Europe													1
• Power supply cord for USA													2
• Power supply cord for China													3

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

Accessories	
Removable drive bay	**6ES7648-0EH00-1BA0**
For 3.5" hard disk (SATA/SAS) or 2.5" SSD (SATA), without drive	
Retainer	**6ES7648-1AA00-0XK0**
For interlocking the internal USB interface	
Mounting accessories	
Tower kit for converting the rack IPC into an industrial tower PC	
• For IPC Rx-545A/IPC547J/IPC547G	**6ES7648-1AA01-0XC0**
Adapter cable	
• Adapter cable DisplayPort to DVI-D for onboard graphics	**6ES7648-3AF00-0XA0**
• Adapter cable DisplayPort to VGA for onboard graphics	**6ES7648-3AG00-0XA0**

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Technical specifications

Article number	6AG4105-6....-.... SIMATIC IPC RS-545A
General information	
Product type designation	RS-545A
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Chipset	Intel R680E
Graphic	
Graphics controller	Intel® UHD Graphics 730 / 770
Graphics card	No
Drives	
SSD	Yes
Storage	
Main memory	8 GB to 128 GB DDR5 4800 SDRAM DIMM
Hardware configuration	
Slots	
• free slots	7 free slots for expansions (all long); 2x PCIe x16 (1 x 16 or 2 x 8 lanes) Gen 4; 1x PCIe x8 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 4; 1x PCIe x4 (4 lanes) Gen 4: 1x PCI
Interfaces	
Interfaces/bus type	2x Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; 1x 2.5 Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with option interlock, 3x DisplayPort V1.4a, 1x DVI-D, 1x COM1 and 1x COM2 (optional), audio: line in, line out, micro
USB port	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear; 2x USB 3.1 Gen. 2 type A internally, e.g. for software dongle with optional interlock; 2x USB 3.1 Gen. 1 type A on the front, can be used with door closed
Connection for keyboard/mouse	USB
serial interface	COM1 (optional): 1x RS 232 or RS 485; COM2 (optional) 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	3x DisplayPort; 1x DVI-D
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	2
• number of interfaces (2 500 Mbps)	1
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM

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Technical specifications (continued)

Article number	6AG4105-6....-.... SIMATIC IPC RS-545A
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	30 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	UL 61010-2-201 Second Edition, File E85972
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BIS	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	40 °C
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transportation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)
Vibrations	

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Technical specifications (continued)

Article number	6AG4105-6....-.... SIMATIC IPC RS-545A
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	without operating system; without USB flash drive (restore image; D&D)
without operating system	Yes
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	446 mm

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Overview



SIMATIC IPC RW-545A
is a rugged industrial PC of the workstation class in 19" rack design (4 U) with different graphics cards.
It offers:

- Maximum performance
- Attractive price
- Intel Core technology of the 12th generation

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Selection and ordering data

SIMATIC IPC RW-545A (rack IPC, 19", 4 U)	6AG4104-6	❑	❑	❑	❑	-	❑	❑	❑	❑
Mainboard: Chipset R680E, 3x Ethernet (2x 1 Gbit, 1x 2.5 Gbit), 1x DVI-D, 3x DisplayPort, 4x USB 3.2 Gen. 2 type A, 2x USB 3.2 Gen. 2x2 type C, 2x USB 2.0 type A internal; TPM2.0, audio, 7 slots: 2x PCIe x16 (1x 16L or 2x 8L), 1x PCIe x8(4L), 3x PCIe x4(4L), 1x PCI; 2x M.2 slots; 2x USB 3.1 type A, 12x status LEDs on the front;										
Processor										
Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB cache		A								
Core i5-12500E 6C(4P)/12T, 2.9 (4.5) GHz, 18 MB cache, iAMT		B								
Core i7-12700E12C(8P+4E)/20T, 2.1 (4.8) GHz, 25 MB cache, iAMT		C								
Core i9-12900E 16C(8P+8E)/24T, 2.3 (5.0) GHz, 30 MB cache, iAMT		D								
Drives 1: SATA										
2 TB HDD 3.5" SATA			A							
2x 2 TB HDD 3.5" SATA			B							
480 GB SSD 2.5" SATA			C							
960 GB SSD 2.5" SATA			D							
2x 960 GB SSD 2.5" SATA			E							
RAID1, 2x 480 GB SSD 2.5" SATA			H							
RAID1, 2x 960 GB SSD 2.5" SATA			J							
RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA			K							
RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA			L							
Without SATA drives			X							
Drives 2: NVMe										
Without NVMe drives				0						
512 GB SSD M.2 NVMe (1 slot M.2 occupied)				1						
1 TB SSD M.2 NVMe (1 slot M.2 occupied)				2						
2x 1 TB SSD M.2 NVMe (2 slots M.2 occupied)				3						
Memory configuration										
8 GB DDR5 SDRAM (1x 8 GB)					0					
16 GB DDR5 SDRAM (2x 8 GB)					1					
32 GB DDR5 SDRAM (2x 16 GB)					2					
64 GB DDR5 SDRAM (2x 32 GB)					3					
64 GB DDR5 SDRAM (2x 32 GB)					4					
Enclosure type, drive cage, interfaces										
Enclosure with drive cage type B (for internal installation; 0.2 g vibration, 2 g shock), blue-chromated						1				
Enclosure with drive cage type A (for removable trays on the front), blue-chromated						3				
Enclosure with drive cage type A (for removable trays on the front), painted						4				
Enclosure with drive cage type B (for internal installation; 0.2 g vibration, 2 g shock), blue-chromated + 2x COM interface						6				
Enclosure with drive cage type A (for removable trays), blue-chromated + 2x COM interface						7				
Enclosure with drive cage type A (for removable trays on the front), painted + 2x COM interface						8				
Power supply unit, graphics cards										
550 W 100/240 V AC industrial power supply unit							A			
850 W 100/240 V AC industrial power supply unit							B			
700 W 2x100/240 V AC redundant industrial power supply unit							C			
Graphics card NVIDIA T400 (4 GB, 3x mDP: 3x adapter mDP on DP) (1 slot occupied), 550 W 100/240 V AC industrial power supply unit							D			
Graphics card NVIDIA RTX A2000 (12 GB, 4x mDP: 3x adapter mDP on DP) (2 slots occupied), 550 W 100/240 V AC industrial power supply unit							E			
Graphics card NVIDIA RTX A4000 (16 GB, 4x DP: without adapter) (1 slot occupied), 850 W 100/240 V AC industrial power supply unit							F			
Graphics card NVIDIA RTX A5000 (24 GB, 4x DP: without adapter) (2 slots occupied), 850 W 100/240 V AC industrial power supply unit							G			
Graphics card NVIDIA T400 (4 GB, 3x mDP: 3x adapter mDP on DP) (1 slot occupied), 700 W 2x100/240 V AC redundant industrial power supply unit							H			
Graphics card NVIDIA RTX A2000 (12 GB, 4x mDP: 3x adapter mDP on DP) (2 slots occupied), 700 W 2x100/240 V AC redundant industrial power supply unit							J			
Operating system (preinstalled)										
Windows 10 IoT Enterprise 2021 LTSC for Core i3/i5; without USB flash drive (restore image; D&D)									A	
Windows 10 IoT Enterprise 2021 LTSC for Core i7/i9; without USB flash drive (restore image; D&D)									B	
Windows 10 IoT Enterprise 2021 LTSC for Core i3/i5; with USB flash drive (restore image; D&D)									C	
Windows 10 IoT Enterprise 2021 LTSC for Core i7/i9; with USB flash drive (restore image; D&D)									D	

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Selection and ordering data (continued)

SIMATIC IPC RW-545A (rack IPC, 19", 4 U)	6AG4104-6 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
Without operating system; without USB flash drive (D&D)	X
Power supply cable	
Without power supply cord	0
Power supply cord for Europe	1
Power supply cord for USA	2
Power supply cord for China	3

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

Accessories	
Removable drive bay For 3.5" hard drive (SATA/SAS) or 2.5" SSD (SATA), without drive	**6ES7648-0EH00-1BA0**
Retainer For interlocking the internal USB interface	**6ES7648-1AA00-0XK0**
Mounting accessories	
Tower kit for converting the rack IPC into an industrial tower PC • For IPC RW-545A/IPC547J/IPC547G	**6ES7648-1AA01-0XC0**
Adapter cable	
• Adapter cable DisplayPort to DVI-D for onboard graphics	**6ES7648-3AF00-0XA0**
• Adapter cable DisplayPort according to VGA for onboard graphics	**6ES7648-3AG00-0XA0**

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Technical specifications

Article number	6AG4104-6....-.... SIMATIC IPC RW-545A
General information	
Product type designation	RW-545A
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Core i9-12900E 16C(8P+8E)/24T, 2.3 (5.0) GHz, 30 MB cache; Core i7-12700E 12C(8P+4E)/20T, 2.1 (4.8) GHz, 25 MB cache; Core i5-12500E 6C(4P)/12T, 2.9 (4.5) GHz, 18 MB cache; Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB cache;
Chipset	Intel R680E
Graphic	
Graphics controller	Intel® UHD Graphics 730 / 770
Graphics card	Yes; NVIDIA T400, RTX A2000, RTX A4000, RTX A5000
Drives	
Hard disk	1x 2 TB HDD 3.5" SATA, 2x 2 TB HDD 3.5" SATA, RAID1 2x 2 TB HDD [Enterprise] 3.5" SATA, RAID1 2x 4 TB HDD [Enterprise] 3.5" SATA
SSD	Yes; 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 960 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD, 2x 1 024 GB M.2 NVMe SSD
Slot for drives	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	8 GB to 128 GB DDR5 4800 SDRAM DIMM
Hardware configuration	
Slots	
• free slots	7 free slots for expansions (all long); 2x PCIe x16 (1 x 16 or 2 x 8 lanes) Gen 4; 1x PCIe x8 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 4; 1x PCIe x4 (4 lanes) Gen 4: 1x PCI
Interfaces	
Interfaces/bus type	2x Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; 1x 2.5 Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with option interlock, 3x DisplayPort V1.4a, 1x DVI-D, 1x COM1 and 1x COM2 (optional), audio: line in, line out, micro
USB port	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear; 2x USB 3.1 Gen. 2 type A internally, e.g. for software dongle with optional interlock; 2x USB 3.1 Gen. 1 type A on the front, can be used with door closed
Connection for keyboard/mouse	USB
serial interface	COM1 (optional): 1x RS 232 or RS 485; COM2 (optional) 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	3x DisplayPort; 1x DVI-D

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Technical specifications (continued)

Article number	6AG4104-6....-.... SIMATIC IPC RW-545A
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	2
• number of interfaces (2 500 Mbps)	1
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	30 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
UKCA mark	Yes
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	UL 61010-2-201 Second Edition, File E85972
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered

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Technical specifications (continued)

Article number	6AG4104-6....-.... SIMATIC IPC RW-545A
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	40 °C
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transportation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	446 mm

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Overview



SIMATIC IPC RC-545A
is a rugged client-class industrial PC in a 19" rack design (4 U).
It offers:

- Maximum performance
- Attractive price
- Intel Core technology of the 12th generation

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Selection and ordering data

SIMATIC IPC RC-545A (Rack IPC, 19", 4 U)	6AG4103-6	❑	❑	❑	❑	-	❑	❑	❑	❑
MB: Chipset H610E, 2x 1Gbit LAN (IE/PN) RJ45, 2x USB 3.2 Gen 1 type A, 4x USB 2.0 type A, 1x USB 2.0 type A internal, 2x USB 3.1 type A on the front, TPM2.0, audio, COM; 7 slots: 2x PCI, 1xPCIe x16(16L), 1xPCIe x16(2L), 1xPCIe x8(1L), 2x PCIe x4(1L); 7x status LEDs on the front										
Processor										
• Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB cache		A								
• Core i5-12500E 6C(6P)/12T, 2.9 (4.5) GHz, 18 MB cache		B								
• Core i7-12700E 12C(8P+4E)/20T, 2.1 (4.8) GHz, 25 MB cache		C								
Drives 1: SATA										
• 2 TB HDD 3.5" SATA			A							
• 2x 2 TB HDD 3.5" SATA			**B**							
• 480 GB SSD 2.5" SATA			C							
• 960 GB SSD 2.5" SATA			D							
• 2x 960 GB SSD 2.5" SATA			E							
• Without SATA drives			**X**							
Drives 2: NVMe										
• Without NVMe drives				0						
Memory configuration										
• 8 GB DDR5 SDRAM (1x 8 GB)					**0**					
• 16 GB DDR5 SDRAM (2x 8 GB)					**1**					
• 32 GB DDR5 SDRAM (2x 16 GB)					**2**					
• 64 GB DDR5 SDRAM (2x 32 GB)					**3**					
Enclosure type, drive cage, interfaces										
• Enclosure (short) with drive cage type C (for internal installation / 0.2 g vibration, 2 g shock), blue-chromated							**0**			
• Enclosure with drive cage type B (for internal installation; 0.2 g vibration, 2 g shock), blue-chromated							**1**			
• Enclosure with drive cage type B (for internal installation; 0.2 g vibration, 2 g shock), blue-chromated							**3**			
• Enclosure (short) with drive cage type C (for internal installation / 0.2 g vibration, 2 g shock), blue-chromated + 2x COM interface							**5**			
• Enclosure with drive cage type B (for internal installation; 0.2 g vibration, 2 g shock), blue-chromated + 2x COM interface							**6**			
• Enclosure with drive cage type A (for removable trays), blue-chromated + 2x COM interface							**7**			
Power supply unit, graphics cards										
• 550 W 100/240 V AC industrial power supply unit								**A**		
• Graphics card NVIDIA T400 (4 GB, 3x mDP: 3x adapter mDP on DP) (1 slot occupied), 550 W 100/240 V AC industrial power supply unit								**D**		
Operating system (preinstalled)										
• Windows 10 IoT Enterprise 2021 LTSC for Core i3/i5; without USB flash drive (restore image; D&D)									**A**	
• Windows 10 IoT Enterprise 2021 LTSC for Core i7/i9; without USB flash drive (restore image; D&D)									**B**	
• Windows 10 IoT Enterprise 2021 LTSC for Core i3/i5; with USB flash drive (restore image; D&D)									**C**	
• Windows 10 IoT Enterprise 2021 LTSC for Core i7/i9; with USB flash drive (restore image; D&D)									**D**	
• Without operating system; without USB flash drive (D&D)									**X**	
Power supply										
• Without power supply cord										**0**
• Power supply cord for Europe										**1**
• Power supply cord for USA										**2**
• Power supply cord for China										**3**

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
For an up-to-date overview, see the SIMATIC IPC online configurator at this link

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Selection and ordering data (continued)

Accessories	
Removable drive bay	**6ES7648-0EH00-1BA0**
• For 3.5" hard disk (SATA/SAS) or 2.5" SSD (SATA), without drive	
Retainer	**6ES7648-1AA00-0XK0**
• For interlocking the internal USB interface	
Mounting accessories	
• Tower kit for converting the rack IPC into an industrial tower PC - For IPC Rx-545A/IPC547J	**6ES7648-1AA01-0XC0**
• Tower kit for converting the rack IPC into an industrial tower PC - For IPC RC-545A/IPC547J (device with short enclosure)	**6ES7648-1AA01-0XE0**
Adapter cable	
• Adapter cable DisplayPort to DVI-D for onboard graphics	**6ES7648-3AF00-0XA0**
• Adapter cable DisplayPort to VGA for onboard graphics	**6ES7648-3AG00-0XA0**

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Technical specifications

Article number	6AG4103-6....-.... SIMATIC IPC RC-545A
General information	
Product type designation	RC-545A
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240V AC (autorange) 50/60 Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Core i7-12700E 12C(8P+4E)/20T, 2.1 (4.8) GHz, 25 MB cache; Core i5-12500E 6C(6P)/12T, 2.9 (4.5) GHz, 18 MB cache; Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB cache;
Chipset	Intel H610E
Graphic	
Graphics controller	Intel® UHD Graphics 730 / 770
Graphics card	Yes; NVIDIA T400
Drives	
Hard disk	1x 2 TB HDD 3.5" SATA, 2x 2 TB HDD 3.5" SATA
SSD	Yes; 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 960 GB 2.5" SATA SSD
Slot for drives	mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	8 GB to 64 GB DDR5 4800 SDRAM DIMM
Hardware configuration	
Slots	
• free slots	7 spare slots for expansions (all long); 1x PCIe x16 (16L) Gen4; 1x PCIe x16 (2L) Gen3; 1x PCIe x8 (1L) Gen3; 2x PCIe x4 (1L) Gen3; 2x PCI
Interfaces	
Interfaces/bus type	1x Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; USB 3.2 Gen 1: 2x type A on rear, USB 2.0: 2x type A on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 1x internal e.g. for software dongle with option interlock, 2x DisplayPort V1.4a, 1x DVI-D, 1x COM1, 1x COM2 and 1x COM3 (optional), audio: line in, line out, micro
USB port	USB 3.2 Gen 1: 2x type A on rear, USB 2.0: 2x type A on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 1x internal
Connection for keyboard/mouse	USB
serial interface	COM1: 1x RS 232 or RS 485; COM2 and COM3 (optional) 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	2x DisplayPort; 1x DVI-D
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	2

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Technical specifications (continued)

Article number	6AG4103-6....-.... SIMATIC IPC RC-545A
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, ETHERNET 1, ETHERNET 2, WATCHDOG, TEMP, FAN
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	30 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	UL 61010-2-201 Second Edition, File E85972
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	40 °C
Relative humidity	

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Technical specifications (continued)

Article number	6AG4103-6....-.... SIMATIC IPC RC-545A
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transportation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	446 mm; Device with short enclosure: 356 mm

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Overview



SIMATIC IPC547J
A rugged industrial PC in 19" rack design (4 U).
It offers:

- Maximum performance
- Attractive price
- 10th generation Intel Core i/Xeon technology

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Selection and ordering data

SIMATIC IPC547J	6AG4104-5	❑	❑	❑	❑	-	❑	❑	❑	❑
Rack PC, 19", 4 U Interfaces: 2x USB 3.1 Gen.1 at front; COM1, audio at rear; slots: 5 x PCI Express, 2 x PCI; temperature and fan monitoring; watchdog; card retainer										
Processor / mainboard										
• Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB cache); MB (chip set H410, 2x Gb Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.1, 1x USB 2.0 internal)		C								
• Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB cache); MB (chip set H410, 2x Gb Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.1, 1x USB 2.0 internal)		D								
• Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB cache); MB (chip set H410, 2x Gb Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.1, 1x USB 2.0 internal)		E								
• Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB cache); MB (chip set H410, 2x Gb Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.1, 1x USB 2.0 internal)		F								
• Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB cache); MB (chip set W480E, 3x Gb Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 internal)		G								
• Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB cache); MB (chip set W480E, 3x Gb Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 internal, AMT)		H								
• Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB cache); MB (chip set W480E, 3x Gb Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 internal, AMT)		J								
• Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB cache); MB (chip set W480E, 3x Gb Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 internal, AMT)		K								
• Xeon W-1270E (8C/16T, 3.4 (4.8) GHz, 16 MB cache); MB (chip set W480E, 3x Gb Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 internal, AMT)		L								
Drives										
• 1 TB HDD 3.5" SATA			A							
• 1 TB HDD 3.5" SATA			B							
• 1 TB HDD 3.5" SATA + 960 GB SSD 2.5" SATA (for operating system if M.2 SSD not ordered)			C							
• 480 GB SSD 2.5" SATA			D							
• 2x 480 GB SSD 2.5" SATA			E							
• 960 GB SSD 2.5" SATA			F							
• RAID1, 2x 1 TB HDD 3.5" SATA			G							
• RAID1, 2x 480 GB SSD 2.5" SATA			H							
• RAID1, 2x 960 GB SSD 2.5" SATA			J							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA			K							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA			L							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare			M							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 960 GB SSD 2.5" SATA (for operating system if M.2 SSD not ordered)			N							
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA			P							
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare			Q							
• Without drives			X							
Enclosure type / drive cage										
• Enclosure (short) with drive cage Type C (for installation internal / 0.2 g vibration, 2 g shock), blue-chromated				0						
• Enclosure with drive cage type B (for internal installation/0.2 g vibration, 2 g shock), blue chromated				1						
• Enclosure with drive cage type B (for internal installation/0.2 g vibration, 2 g shock); coated				2						
• Enclosure with drive cage type B (for internal installation/0.2 g vibration, 2 g shock); coated				3						
• Enclosure with drive cage type A (for removable trays on the front), coated				4						
Power supply unit, cable										
• 100/240 V AC industrial power supply unit; without power cable					0					
• 100/240 V AC industrial power supply unit; power cable for Europe					1					
• 100/240 V AC industrial power supply unit; power cable for USA					2					
• 100/240 V AC industrial power supply unit; power cable for China					3					

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Selection and ordering data (continued)

SIMATIC IPC547J	6AG4104-5 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• 2 x 100/240 V AC redundant industrial power supply unit; without power cable	4
• 2 x 100/240 V AC redundant industrial power supply unit; 2x power cable for Europe	5
Memory configuration	
• 4 GB DDR4 SDRAM (1x 4 GB), single channel	0
• 8 GB DDR4 SDRAM (2x 4 GB), dual channel	1
• 16 GB DDR4 SDRAM (2x 8 GB), dual channel	2
• 32 GB DDR4 SDRAM (2x 16 GB), dual channel	3
• 32 GB DDR4 SDRAM (2x 16 GB), dual channel	4
• 64 GB DDR4 SDRAM (2x 32 GB), dual channel	5
Expansions / hardware	
• Without expansion	A
• COM2 interface	B
• 512 GB SSD M.2 NVMe (M.2 slot occupied) (for operating system) [only with W480E chip set]	C
• 512 GB SSD M.2 NVMe (M.2 slot occupied) (for operating system) [only with W480E chip set]	D
• PCIe x16 graphics card NVIDIA Quadro T400 (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	J
• PCIe x16 graphics card NVIDIA Quadro P2200 (4x DP: without adapter) (1 slot occupied) [only with W480E chip set / enclosure with drive cage Type A]	K
Operating system (preinstalled and activated)	
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit [for Core i3/i5]	A
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit [for Core i7/i9/Xeon]	B
• PCIe x16 graphics card NVIDIA Quadro T400 (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	C
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit [for Core i3/i5]	D
• Windows Server 2019 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es) [only with W480E chip set / Xeon]	N
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, sp), 64-bit [for Core i7/i9/Xeon]	P
• Without operating system	X
Software / adapters / security expansions	
• Without expansions	0
• SIMATIC IPC DiagMonitor software included	1
• SIMATIC IPC Image & Partition Creator software included	2
• SIMATIC IPC DiagMonitor + Image & Partition Creator software included	3
• Adapter cable DP to VGA for onboard graphics / graphics card	4
• Adapter cable DP to DVI-D for onboard graphics / graphics card	5
• TPM 2.0 [1]	8

1) TPM = Trusted Platform Module

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

You can find the configurator at this link.

Accessories	
Memory expansions	
• 4 GB DDR4 DIMM (1x 4)	**6ES7648-2AL60-0QA0**
• 8 GB DDR4 DIMM (1x 8)	**6ES7648-2AL70-0QA0**
• 16 GB DDR4 DIMM (1x 16)	**6ES7648-2AL80-0QA0**
• 32 GB DDR4 DIMM (1x 32)	**6ES7648-2AL81-0QA0**
Removable drive bay For 3.5" hard disk (SATA/SAS) or 2.5" SSD (SATA), without drive	**6ES7648-0EH00-1BA0**
Retainer For interlocking the internal USB interface	**6ES7648-1AA00-0XK0**
Mounting accessories Tower kit for converting the rack IPC into an industrial tower PC	
• For IPC547G/IPC547J	**6ES7648-1AA01-0XC0**

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Selection and ordering data (continued)

Accessories	
• For IPC547G/IPC574J (device with short enclosure)	**6ES7648-1AA01-0XE0**
Adapter cable	
• Adapter cable DisplayPort to DVI-D for onboard graphics	**6ES7648-3AF00-0XA0**
• Adapter cable DisplayPort to VGA for onboard graphics	**6ES7648-3AG00-0XA0**

Technical specifications

Article number	6AG4104-5....-.... SIMATIC IPC547J
General information	
Product type designation	IPC547J
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Xeon W-1270E (8C/16T, 3.4 (4.8) GHz, 16 MB Cache); Intel Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache); Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache); Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache); Intel Core Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache)
Chipset	Intel W480E / Intel H410
Graphic	
Graphics controller	Intel® UHD Graphics 630
Graphics card	Yes; NVIDIA T400, Quadro RTX P2200, Quadro RTX 4000
Drives	
Hard disk	1 TB HDD 3.5" SATA, 2x 1 TB HDD 3.5" SATA, 1 TB HDD 3.5" SATA + 960 GB SSD 2.5" SATA, RAID1, 2x 1 TB HDD 3.5" SATA, RAID1, 2x 1 TB HDD [Enterprise] 3.5" SATA, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA + 2 TB HDD [Enterprise] 3.5" SATA as hot spare, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA + 960 GB SSD 2.5" SATA, RAID5, 3x 2 TB HDD [Enterprise] 3.5" SATA, RAID5, 3x 2 TB HDD [Enterprise] 3.5" SATA + 2 TB HDD [Enterprise] 3.5" SATA as hot spare
SSD	Yes; 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD
Slot for drives	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	4 GB to 128 GB DDR4 2933 SDRAM DIMM
Hardware configuration	
Slots	

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Technical specifications (continued)

Article number	6AG4104-5....-.... SIMATIC IPC547J
• free slots	7 spare slots for expansions (all long); mainboard with H410 chip set: 1x PCIe (x16) (16 lane) Gen 3, 1x PCIe (x16) (1 lanes) Gen 3, 1x PCIe (x8) (1 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 2x PCI; mainboard with W480E chip set: 1x PCIe (x16) (16 lane) Gen 3, 1x PCIe (x16) (4 lanes) Gen 3, 1x PCIe (x8) (1 lane) Gen 3, 1x PCIe (x4) (4 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 2x PCI
Interfaces	
Interfaces/bus type	mainboard (H410 chip set): 2x Intel Gigabit Ethernet (RJ45, teaming-capable), USB 3.1 Gen 1: 2x on rear, 2x on front, USB 2.0: 4x on rear, 1x internal e.g. for software dongle with optional interlock, 1x DisplayPort V1.2, 1x DVI-D, 1x COM1, audio: line in, line out, micro; mainboard (W480E chip set): 3x Intel Gigabit Ethernet (RJ45, teaming-capable), USB 3.1 Gen 2: 4x type A, 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with optional interlock, 2x DisplayPort V1.2, 1x DVI-D, 1x COM1, audio: line in, line out, micro
USB port	mainboard (H410 chip set): USB 3.1 Gen 1: 2x on rear, 2x on front, USB 2.0: 4x on rear, 1x internal e.g. for software dongle with optional interlock; mainboard (W480E chip set): USB 3.1 Gen 2: 4x type A, 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with optional interlock
Connection for keyboard/mouse	USB
serial interface	COM1: 1x RS 232 or RS 485; COM2 (optional) 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)
Industrial Ethernet	
• Industrial Ethernet interface	2x or 3x Gigabit Ethernet (IE/PN), RJ45
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric

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Technical specifications (continued)

Article number	6AG4104-5....-.... SIMATIC IPC547J
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	30 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	UL 61010-2-201 Second Edition, File E85972
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	40 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 10 IoT Enterprise 2019 LTSC; Windows Server 2022 Standard Edition incl. 5 clients; Windows Server 2019 Standard Edition incl. 5 clients
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	446 mm; Device with short enclosure: 356 mm

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Overview

SIMATIC IPC RW-528A
is a rugged industrial PC workstation in 19" rack-mount format (2 U) with various graphics cards
It offers:
- ***Maximum compactness***
- ***Maximum ruggedness***
- ***13th generation Intel Core technology***

Selection and ordering data

SIMATIC IPC RW-528A	6 A G 4 112 - 4	❑	❑	❑	❑	-	❑	❑	❑	❑
(RACK PC, 19", 2 U) Mainboard (chipset R680E): 4x Ethernet (1x 1 Gbit, 3x 2.5 Gbit), 4x DisplayPort, 4x USB 3.2 Gen 2 type A, 2x USB 3.2 Gen 2x2 type C, 2x USB 2.0 type A internal; TPM2.0, audio, 2x USB 3.1 Gen 1 type A on the front; 2x M.2 slots										
Processor/board										
• Core i3-13100E 4C(4P)/8T, 3.3 (4.4) GHz; board 2 slots: 2x PCIe x16 (2x 8L or 1x 16L)		A								
• Core i3-13100E 4C(4P)/8T, 3.3 (4.4) GHz; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCI		B								
• Core i3-13100E 4C(4P)/8T, 3.3 (4.4) GHz; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCIe x16 (2x 4L)		C								
• Core i5-13500E 14C(6P+8E)/20T, 2.4 (4.6) GHz, iAMT; board 2 slots: 2x PCIe x16 (2x 8L or 1x 16L)		E								
• Core i5-13500E 14C(6P+8E)/20T, 2.4 (4.6) GHz, iAMT; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCI		F								
• Core i5-13500E 14C(6P+8E)/20T, 2.4 (4.6) GHz, iAMT; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCIe x16 (2x 4L)		G								
• Core i7-13700E 16C(8P+8E)/24T, 1.9 (5.1) GHz, iAMT; board 2 slots: 2x PCIe x16 (2x 8L or 1x 16L)		J								
• Core i7-13700E 16C(8P+8E)/24T, 1.9 (5.1) GHz, iAMT; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCI		K								
• Core i7-13700E 16C(8P+8E)/24T, 1.9 (5.1) GHz, iAMT; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCIe x16 (2x 4L)		L								
• Core i9-13900E 24C(8P+16E)/32T, 1.8 (5.2) GHz, iAMT; board 10 slots: 7x PCI, 1x PCIe x4 (4L), 2x PCIe x16 (8 L)		N								
• Core i9-13900E 24C(8P+16E)/32T, 1.8 (5.2) GHz, iAMT; board 2 slots: 2x PCIe x16 (2x 8L or 1x 16L)		P								
• Core i9-13900E 24C(8P+16E)/32T, 1.8 (5.2) GHz, iAMT; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCI		Q								
Drives 1: SATA										
• 2 TB HDD 3.5" SATA			A							
• 2x 2 TB HDD 3.5" SATA			B							
• 480 GB SSD [Enterprise] 2.5" SATA			C							
• 960 GB SSD [Enterprise] 2.5" SATA			D							
• 2x 960 GB SSD [Enterprise] 2.5" SATA			E							
• RAID1, 2x 2 TB HDD 3.5" SATA			G							
• RAID1, 2x 480 GB SSD [Enterprise] 2.5" SATA			H							
• RAID1, 2x 960 GB SSD [Enterprise] 2.5" SATA			J							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA			K							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA			L							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare			M							
• Without SATA drives			X							
Drives 2: NVMe										
• Without NVMe drives				0						
• 512 GB SSD M.2 NVMe (1 slot M.2 occupied)				1						
• 1 TB SSD M.2 NVMe (1 slot M.2 occupied)				2						
• 2x 1 TB SSD M.2 NVMe (2 slots M.2 occupied)				3						
• RAID1, 2x 512 GB SSD M.2 NVMe (2 slots M.2 occupied)				4						

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Selection and ordering data (continued)

SIMATIC IPC RW-528A	6 A G 4 1 1 2 - 4 ❑	❑	❑	❑	-	❑	❑	❑	❑	
• RAID1, 2x 1 TB SSD M.2 NVMe (2 slots M.2 occupied)			5							
Memory configuration										
• 8 GB DDR5 SDRAM (1x 8 GB)				0						
• 16 GB DDR5 SDRAM (2x 8 GB)				1						
• 32 GB DDR5 SDRAM (2x 16 GB)				2						
• 64 GB DDR5 SDRAM (2x 32 GB)				3						
• 128 GB DDR5 SDRAM (4x 32 GB)				4						
• 32 GB DDR5 SDRAM (1x 32 GB); ECC				5						
• 64 GB DDR5 SDRAM (2x 32 GB); ECC				6						
• 128 GB DDR5 SDRAM (4x 32 GB); ECC				7						
Enclosure type, drive cage, interfaces										
• Drive cage type B (for internal installation; 0.5 g vibration, 5 g shock)						0				
• Drive cage type A (for removable trays on the front)						1				
• Drive cage type B (for internal installation; 0.5 g vibration, 5 g shock) + COM2 interface						2				
• Drive cage type A (for removable trays on the front) + COM2 interface						3				
Power supply unit, expansions graphics cards										
• 550 W 100/240 V AC industrial power supply unit							A			
• 850 W 100/240 V AC industrial power supply unit							B			
• 700 W 2x100/240 V AC redundant industrial power supply unit							C			
• Graphics card NVIDIA RTX A400 (4 GB, 4x mDP, 1 slot), 4x adapter mDP to DP; 550 W 100/240 V AC industrial power supply unit							D			
• Graphics card NVIDIA RTX 2000 ADA (16 GB, 4x mDP, 2 slots), 4x adapter mDP to DP; 550 W 100/240 V AC industrial power supply unit							E			
• Graphics card NVIDIA RTX 4000 ADA (20 GB, 4x DP, 1 slot); 850 W 100/240 V AC industrial power supply unit							F			
• Graphics card NVIDIA RTX 5000 ADA (32 GB, 4x DP, 2 slots); 850 W 100/240 V AC industrial power supply unit							G			
• Graphics card NVIDIA RTX A400 (4 GB, 4x mDP, 1 slot), 4x adapter mDP to DP; 700 W 2x100/240 V AC redundant industrial power supply unit							H			
• Graphics card NVIDIA RTX 2000 ADA (12 GB, 4x mDP, 2 slots), 4x adapter mDP to DP; 700 W 2x100/240 V AC redundant industrial power supply unit							J			
Operating system (preinstalled)										
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i3/i5]; without USB flash drive (restore image; D&D)								A		
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i7/i9]; without USB flash drive (restore image; D&D)								B		
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i3/i5]; with USB flash drive (restore image; D&D)								C		
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i7/i9]; with USB flash drive (restore image; D&D)								D		
• Without operating system; without USB flash drive (D&D)								X		
• Without operating system; with USB flash drive (D&D)								Y		
Cables/interfaces										
• Without power supply cord										0
• Power supply cord for Europe										1
• Power supply cord for USA										2
• Power supply cord for China										3

Note:

Please select the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

You can find the configurator at this link.

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Technical specifications

Article number	6AG4112-4....-.... SIMATIC IPC RW-528A
General information	
Product type designation	RW-528A
Installation type/mounting	
Mounting	For horizontal installation; prepared for telescopic rails; 19" mounting bracket can be removed externally
Design	Rack PC, 19", 2U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Core i9-13900E (24C(8P+16E)/32T), 1,8 (5,2) GHz, 36 MB Cache; Intel Core i7-13700E (16C(8P+8E)/24T), 1,8 (5,1) GHz, 30 MB Cache; Intel Core i5-13500E (14C(6P+8E)/20T), 2,4 (4,6) GHz, 30 MB Cache; Intel Core i3-13100E (4C(4P)/8T), 3,3 (4,4) GHz, 12 MB Cache
Chipset	Intel R680E
Graphic	
Graphics controller	Intel® UHD Graphics 730 / 770
Graphics card	NVIDIA RTX A400, RTX 2000 ADA, RTX 4000 ADA, RTX 5000 ADA
Drives	
Hard disk	1x 2 TB 3.5" SATA HDD, 2x 2 TB 3.5" SATA HDD, 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 960 GB 2.5" SATA SSD, RAID1 2x 2 TB 3.5" SATA HDD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD, RAID1 2x 2 TB [Enterprise] 3.5" SATA HDD, RAID1 2x 4 TB [Enterprise] 3.5" SATA HDD, RAID1 2x 4 TB [Enterprise] 3.5" SATA HDD + 4 TB [Enterprise] 3.5" SATA HDD hot spare
SSD	Yes
Slot for drives	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	8 GB to 128 GB DDR5 4800 SDRAM DIMM
Hardware configuration	
Slots	
• free slots	2 slots: 1x PCI Express (x16) (2x8 lanes or 1x16 lane) or 4 slots: 2x PCI, 2x PCI Express (x16) (2x8 lanes or 1x16 lane) (8 lanes) or 4 slots: 2x PCI Express (x16) (2x8 lanes or 1x16 lane), 2x PCI Express (x16) (4 lanes); expansion modules up to 312 mm in length can be used
Interfaces	
Interfaces/bus type	1x Gigabit Ethernet (IE/PN), RJ 45; 3x 2.5 Gigabit Ethernet (IE/PN), RJ 45; USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x type A on front, USB 2.0: 2x internal e.g. for software dongle with optional interlock, 4x DisplayPort V1.4a, 1x COM1 and 1x COM2 (optional), audio: line in, line out, micro
USB port	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear; 2x USB 3.1 Gen. 2 type A internally, e.g. for software dongle with optional interlock; 2x USB 3.1 Gen. 1 type A on the front, can be used with door closed
Connection for keyboard/mouse	USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes

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Technical specifications (continued)

Article number	6AG4112-4....-.... SIMATIC IPC RW-528A
Video interfaces	
• Graphics interface	4x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x 2.5 Gigabit Ethernet (IE), RJ45; 1x Gigabit Ethernet (IE/PN), RJ45
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	1
• number of interfaces (2 500 Mbps)	3
Interrupts/diagnostics/status information	
LED status display	POWER; HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, ETHERNET 4, WATCHDOG, TEMP/FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP41
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
UKCA mark	Yes
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes

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Technical specifications (continued)

Article number	6AG4112-4....-.... SIMATIC IPC RW-528A
KC approval	Yes; in preparation
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)
Shock testing	
• Shock load during operation	Tested according to DIN IEC 60068-2-7: 50 m/s2 (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 11 IoT Enterprise LTSC 2024
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Dimensions	
Width	430 mm
Height	88 mm; 2U
Depth	444 mm

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Overview



SIMATIC IPC647E

Very rugged, high-performance industrial PC in 19" rack design (2 U) with excellent industrial functionality

It offers:

- Extreme compactness
- Extreme ruggedness
- Intel® Core® i / Xeon technology 8th/9th Generation

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Selection and ordering data

SIMATIC IPC647E	6AG4112-3	❑	❑	❑	❑	-	❑	❑	❑	❑
Rack PC, 19", 2 U Interfaces: 3x Gbit Ethernet (IE/PN), RJ45; 1x DVI-D; 2x DisplayPort; 1x COM1; audio; 4x USB 3.1, 2x USB 3.1 (type C) on the rear; 2x USB 3.0 on the front, 1x USB 3.1 internal. 1x M.2 slot internal; Temperature and fan monitoring, watchdog, card retainer										
Processor / motherboard										
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Board 2 slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L)		A								
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Board 4 slots: 2x PCI, 2x PCIe x16 (8 L)		B								
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Board 4 slots: 2x PCIe x16 (8 L), 1x PCIe x16 (4 L), 1x PCIe x16 (1 L)		C								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT); Board 2 slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L)		D								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT); Board 4 slots: 2x PCI, 2x PCIe x16 (8 L)		E								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT); Board 4 slots: 2x PCIe x16 (8 L), 1x PCIe x16 (4 L), 1x PCIe x16 (1 L)		F								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT); Board 2 slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L)		G								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT); Board 4 slots: 2x PCI, 2x PCIe x16 (8 L)		H								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT); Board 4 slots: 2x PCIe x16 (8 L), 1x PCIe x16 (4 L), 1x PCIe x16 (1 L)		J								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT); Board 2 slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L)		K								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 4 slots: 2x PCI, 2x PCIe x16 (8 L)		L								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 4 slots: 2x PCIe x16 (8 L), 1x PCIe x16 (4 L), 1x PCIe x16 (1 L)		M								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 2 slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L)		N								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 4 slots: 2x PCI, 2x PCIe x16 (8 L)		Q								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 4 slots: 2x PCIe x16 (8 L), 1x PCIe x16 (4 L), 1x PCIe x16 (1 L)		R								
Drives										
• 1 TB HDD 3.5" SATA			A							
• 2x 1 TB HDD 3.5" SATA			B							
• RAID1, 2x 1 TB HDD 3.5" SATA			C							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA			D							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA			E							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied)			K							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied) + 480 GB SSD 2.5" SATA internal			L							
• 1 TB HDD 3.5" SATA + 480 GB SSD 2.5" SATA (for operating system if M.2 SSD not ordered)			P							
• 480 GB SSD 2.5" SATA			Q							
• 960 GB SSD 2.5" SATA			R							
• 2x 480 GB SSD 2.5" SATA			S							
• RAID1, 2x 480 GB SSD 2.5" SATA			T							
• RAID1, 2x 960 GB SSD 2.5" SATA			U							
• Without drives			X							
Type of enclosure/power supplies										
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock); 100/240 V AC industrial power supply unit				0						
• Enclosure with drive cage type A (for removable trays on the front); 100/240 V AC industrial power supply unit				1						
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock); 2x 100/240 V AC redundant industrial power supply unit				2						
• Enclosure with drive cage type A (for removable frames on the front); 2x 100/240 V AC redundant industrial power supply unit				3						
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock) + COM2 port; 100/240 V AC industrial power supply unit				4						

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Selection and ordering data (continued)

SIMATIC IPC647E	6AG4112-3	❑	❑	❑	❑	-	❑	❑	❑	❑
• Enclosure with drive cage type A (for removable trays on the front) + COM2 interface; 100/240 V AC industrial power supply unit				5						
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock) + COM2 port; 2x 100/240 V AC redundant industrial power supply unit				6						
• Enclosure with drive cage type A (for removable frames on the front) + COM2 port; 2x 100/240 V AC redundant industrial power supply unit				7						
Memory configuration										
• 4 GB DDR4 SDRAM (1x 4 GB), single channel					0					
• 8 GB DDR4 SDRAM (2x 4 GB), dual channel					1					
• 16 GB DDR4 SDRAM (2x 8 GB), dual channel					2					
• 32 GB DDR4 SDRAM (2x 16 GB), dual channel					3					
• 64 GB DDR4 SDRAM (4x 16 GB), dual channel					4					
• 128 GB DDR4 SDRAM (4x 32 GB), dual channel					5					
• 16 GB DDR4 SDRAM (2x 8 GB), ECC, dual channel (only with Core i3/Xeon)					6					
• 32 GB DDR4 SDRAM (2x 16 GB), ECC, dual channel (only with Core i3/Xeon)					7					
• 64 GB DDR4 SDRAM (4x 16 GB), ECC, dual channel (only with Core i3/Xeon)					8					
Expansion hardware										
• Without expansions						0				
• PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)						2				
• 512 GB SSD M.2 NVMe (M.2 slot occupied) (for operating system)						4				
• 512 GB SSD M.2 NVMe (M.2 slot occupied) (for operating system) + PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)						5				
• 1 024 GB SSD M.2 NVMe (M.2 slot occupied) (for operating system)						6				
• PCIe x8 GPU card NVIDIA A2 Tensor Core, 16 GB (2 slots occupied)						7				
• 512 GB SSD M.2 NVMe (M.2 slot occupied) (for operating system) + PCIe x8 GPU card NVIDIA A2 Tensor Core, 16 GB (2 slots occupied)						8				
Operating system (preinstalled and activated)										
• Windows 10 Enterprise 2016 LTSB, multi-language (en, de, fr, it, es), 64-bit [for Core i3/i5]							A			
• Windows 10 Enterprise 2016 LTSB, multi-language (en, de, fr, it, sp), 64-bit, for Pentium Core i7/Xeon							B			
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit [for Core i3/i5]							C			
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit, for Core i7/Xeon							D			
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit [for Core i3/i5]							E			
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit [for Core i3/i5]							F			
• Windows Server 2016 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)							H			
• Windows Server 2019 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)							J			
• Windows Server 2022 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)							K			
• Without operating system							X			
Software / adapters / security expansions										
• SIMATIC IPC DiagMonitor software included								A		
• SIMATIC IPC Image & Partition Creator software included								B		
• SIMATIC IPC DiagMonitor + Image & Partition Creator software included								C		
• Adapter cable DP to VGA for onboard graphics								H		
• Adapter cable DP to DVI-D for onboard graphics								J		
• Without expansions								X		
• TPM[1] 2.0 (not for China)								Y		
Cables, country-specific versions										
• Without power supply cord										0
• Power supply cord for Europe										1
• Power supply cord for USA										2
• Power supply cord for China										3

1) TPM = Trusted Platform Module

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

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Selection and ordering data (continued)

The SIMATIC IPC online configurator offers a current overview at this link.

Accessories	
Memory expansions	
• 4 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL60-0QA0**
• 8 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL70-0QA0**
• 16 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL80-0QA0**
• 32 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL81-0QA0**
Removable drive bay For 3.5" hard disk or 2.5" solid-state drive, SATA (without hard disk drive/solid-state drive)	**6ES7648-0EH00-1BA0**
Retainer For mechanically interlocking the internal USB interface	**6ES7648-1AA00-0XK0**
Adapter cable	
• DisplayPort to DVI-D for onboard graphics	**6ES7648-3AF00-0XA0**

Accessories	
• DisplayPort to VGA for onboard graphics	**6ES7648-3AG00-0XA0**
• Mini DisplayPort to VGA for graphics card	**6ES7648-3AL00-0XA0**
• Mini DisplayPort to DVI-D for graphics card	**6ES7648-3AK00-0XA0**
• Mini DisplayPort to DVI-D for graphics card (3 units per pack)	**6ES7648-3AK00-1XA0**
• Mini DisplayPort to DisplayPort for graphics card	**6ES7648-3AJ00-0XA0**
• Mini DisplayPort to DisplayPort for graphics card (3 units per pack)	**6ES7648-3AJ00-1XA0**

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Technical specifications

Article number	6AG4112-3....-.... SIMATIC IPC647E (Rack PC)
General information	
Product type designation	IPC647E
Installation type/mounting	
Mounting	For horizontal installation; prepared for telescopic rails; 19" mounting bracket can be removed externally
Design	Rack PC, 19", 2U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache, VT-x/-d-Technology)
Chipset	Intel C246
Graphic	
Graphics controller	Onboard Intel UHD graphics P630/630 integrated in processor; graphics card NVIDIA Quadro P400 PCIe (x16) triple head (optional)
Drives	
Hard disk	1x 1 TB 3.5" SATA HDD, 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module
SSD	Yes; 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD
Slot for drives	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional
Hardware configuration	
Slots	
• free slots	2 slots: 1x PCI Express (x16) (16 lanes), 1x PCI Express (x16) (4 lanes) or 4 slots: 2x PCI, 2x PCI Express (x16) (8 lanes) or 4 slots: 2x PCI Express (x16) (8 lanes), 1x PCI Express (x16) (4 lanes), 1x PCI Express (x16) (1 lane); expansion modules up to 312 mm in length can be used
Interfaces	
Interfaces/bus type	1x COM1, 1x COM2 (optional), 2x DisplayPort, 1x DVI-D, audio (microphone in, line in, line out), 9x USB, 3x Gigabit Ethernet
PROFIBUS/MPI	can be implemented with plug-in card
USB port	4x USB 3.1 Gen. 2 Type A, 2x USB 3.1 Gen. 2 Type C on the rear; 1x USB 3.1 Gen. 2 Type A internally, e.g. for software dongle with optional interlock, 2x USB 3.1 Gen. 1 Type A on the front, can be used with door closed
Connection for keyboard/mouse	USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes

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Technical specifications (continued)

Article number	6AG4112-3....-.... SIMATIC IPC647E (Rack PC)
Video interfaces	
• Graphics interface	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)
Industrial Ethernet	
• Industrial Ethernet interface	3x Gigabit Ethernet (IE/PN), RJ45
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	Power, HDD, Ethernet 1, Ethernet 2, Ethernet 3, Watchdog, Temp, Fan, HDD1 alarm, HDD0 alarm
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP41
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes

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Technical specifications (continued)

Article number	6AG4112-3....-.... SIMATIC IPC647E (Rack PC)
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Marine approval	
• Germanischer Lloyd (GL)	Yes; Only with SSD
• American Bureau of Shipping (ABS)	Yes; Only with SSD
• Bureau Veritas (BV)	Yes; Only with SSD
• Det Norske Veritas (DNV)	Yes; Only with SSD
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)
Shock testing	
• Shock load during operation	Tested according to DIN IEC 60068-2-7: 50 m/s2 (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB, multi-language (64-bit); Windows 10 IoT Enterprise 2019 LTSC, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 multi-language clients (64-bit); Windows Server 2019 Standard Edition incl. 5 multi-language clients (64-bit)
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Dimensions	
Width	430 mm
Height	88 mm; 2U
Depth	444 mm

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Overview

SIMATIC IPC RW-548A
is a rugged industrial PC of the workstation class in 19" rack design (4 U) with different graphics cards.
It offers:

- Maximum expandability
- Extreme ruggedness
- Intel Core technology of the 13th generation

Selection and ordering data

SIMATIC IPC RW-548A	6 A G 4 11 - 4	❑	❑	❑	❑	-	❑	❑	❑	❑
(RACK PC, 19", 4 U) Mainboard (chipset R680E): 4x Ethernet (1x 1 Gbit, 3x 2.5 Gbit), 4x DisplayPort, 4x USB 3.2 Gen 2.0 type A, 2x USB 3.2 Gen 2x2 type C, 2x USB 2.0 type A internal; TPM2.0, audio, 2x USB 3.1 Gen 1 type A on the front; 2x M.2 slots										
Processor/bus modules										
• Core i3-13100E 4C(4P)/8T, 3.3 (4.4) GHz; board 10 slots: 7x PCI, 1x PCIe x4 (4L), 2x PCIe x16 (8 L)		A								
• Core i3-13100E 4C(4P)/8T, 3.3 (4.4) GHz; board 10 slots: 2x PCI, 2x PCIe x16 (8 L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L)		C								
• Core i3-13100E 4C(4P)/8T, 3.3 (4.4) GHz; board 10 slots: 2x PCI, 2x PCIe x16 (2x 8L or 1x 16L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L)		D								
• Core i5-13500E 14C (6P+8E)/20T, 2.4 (4.6) GHz, iAMT; board 10 slots: 7x PCI, 1x PCIe x4 (4L), 2x PCIe x16 (8 L)		E								
• Core i5-13500E 14C (6P+8E)/20T, 2.4 (4.6) GHz, iAMT; board 10 slots: 2x PCI, 2x PCIe x16 (8 L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L)		G								
• Core i5-13500E 14C (6P+8E)/20T, 2.4 (4.6) GHz, iAMT; board 10 slots: 2x PCI, 2x PCIe x16 (2x 8L or 1x 16L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L)		H								
• Core i7-13700E 16C (8P+8E)/24T, 1.9 (5.1) GHz, iAMT; board 10 slots: 7x PCI, 1x PCIe x4 (4L), 2x PCIe x16 (8 L)		J								
• Core i7-13700E 16C (8P+8E)/24T, 1.9 (5.1) GHz, iAMT; board 10 slots: 2x PCI, 2x PCIe x16 (8 L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L)		L								
• Core i7-13700E 16C (8P+8E)/24T, 1.9 (5.1) GHz, iAMT; board 10 slots: 2x PCI, 2x PCIe x16 (2x 8L or 1x 16L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L);		M								
• Core i9-13900E 24C(8P+16E)/32T, 1.8 (5.2) GHz, iAMT; board 10 slots: 7x PCI, 1x PCIe x4 (4L), 2x PCIe x16 (8 L)		N								
• Core i9-13900E 24C (8P+16E)/32T, 1.8 (5.2) GHz, iAMT; board 10 slots: 2x PCI, 2x PCIe x16 (8 L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L)		Q								
• Core i9-13900E 24C (8P+16E)/32T, 1.8 (5.2) GHz, iAMT; board 10 slots: 2x PCI, 2x PCIe x16 (2x 8L or 1x 16L), 4x PCIe x16 (4 L), 2x PCIe x4 (4 L);		R								
Drives 1: SATA										
• 2 TB HDD 3.5" SATA			A							
• 2x 2 TB HDD 3.5" SATA			B							
• 480 GB SSD [Enterprise] 2.5" SATA			C							
• 960 GB SSD [Enterprise] 2.5" SATA			D							
• 2x 960 GB SSD [Enterprise] 2.5" SATA			E							
• RAID1, 2x 2 TB HDD 3.5" SATA			G							
• RAID1, 2x 480 GB SSD [Enterprise] 2.5" SATA			H							
• RAID1, 2x 960 GB SSD [Enterprise] 2.5" SATA			J							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA			K							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA			L							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare			M							
• Without SATA drives			X							
Drives 2: NVMe										
• Without NVMe drives				0						
• 512 GB SSD M.2 NVMe (1 slot M.2 occupied)				1						
• 1 TB SSD M.2 NVMe (1 slot M.2 occupied)				2						
• 2x 1 TB SSD M.2 NVMe (2 slots M.2 occupied)				3						
• RAID1, 2x 512 GB SSD M.2 NVMe (2 slots M.2 occupied)				4						
• RAID1, 2x 1 TB SSD M.2 NVMe (2 slots M.2 occupied)				5						
Memory configuration										
• 8 GB DDR5 SDRAM (1x 8 GB)					0					

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Selection and ordering data (continued)

SIMATIC IPC RW-548A	6 A G 4 11 - 4 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• 16 GB DDR5 SDRAM (2x 8 GB)	1
• 32 GB DDR5 SDRAM (2x 16 GB)	2
• 64 GB DDR5 SDRAM (2x 32 GB)	3
• 128 GB DDR5 SDRAM (4x 32 GB)	4
• 32 GB DDR5 SDRAM (1x 32 GB); ECC	5
• 64 GB DDR5 SDRAM (2x 32 GB); ECC	6
• 128 GB DDR5 SDRAM (4x 32 GB); ECC	7
Enclosure type, drive cage, interfaces	
• Drive cage type B (for internal installation; 0.5 g vibration, 5 g shock)	0
• Drive cage type A (for removable trays on the front)	1
• Drive cage type B (for internal installation; 0.5 g vibration, 5 g shock) + COM2 interface	2
• Drive cage type A (for removable trays on the front) + COM2 interface	3
Power supply unit, expansions graphics cards	
• 550 W 100/240 V AC industrial power supply unit	A
• 850 W 100/240 V AC industrial power supply unit	B
• 700 W 2x100/240 V AC redundant industrial power supply unit	C
• Graphics card NVIDIA RTX A400 (4 GB, 4x mDP, 1 slot), 4x adapter mDP to DP; 550 W 100/240 V AC industrial power supply unit	D
• Graphics card NVIDIA RTX 2000 ADA (16 GB, 4x mDP, 2 slots), 4x adapter mDP to DP; 550 W 100/240 V AC industrial power supply unit	E
• Graphics card NVIDIA RTX 4000 ADA (20 GB, 4x DP, 1 slot); 850 W 100/240 V AC industrial power supply unit	F
• Graphics card NVIDIA RTX 5000 ADA (32 GB, 4x DP, 2 slots); 850 W 100/240 V AC industrial power supply unit	G
• Graphics card NVIDIA RTX A400 (4 GB, 4x mDP, 1 slot), 4x adapter mDP to DP; 700 W 2x100/240 V AC redundant industrial power supply unit	H
• Graphics card NVIDIA RTX 2000 ADA (12 GB, 4x mDP, 2 slots), 4x adapter mDP to DP; 700 W 2x100/240 V AC redundant industrial power supply unit	J
Operating system (preinstalled)	
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i3/i5]; without USB flash drive (restore image; D&D)	A
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i7/i9]; without USB flash drive (restore image; D&D)	B
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i3/i5]; with USB flash drive (restore image; D&D)	C
• Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i7/i9]; with USB flash drive (restore image; D&D)	D
• Without operating system; without USB flash drive (D&D)	X
• Without operating system; with USB flash drive (D&D)	Y
Cables/interfaces	
• Without power supply cord	0
• Power supply cord for Europe	1
• Power supply cord for USA	2
• Power supply cord for China	3

Note:
Please select the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
You can find the configurator at this link.

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Technical specifications

Article number	6AG4114-4....-.... SIMATIC IPC RW-548A
General information	
Product type designation	RW-548A
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Core i9-13900E (24C(8P+16E)/32T), 1,8 (5,2) GHz, 36 MB Cache; Intel Core i7-13700E (16C(8P+8E)/24T), 1,8 (5,1) GHz, 30 MB Cache; Intel Core i5-13500E (14C(6P+8E)/20T), 2,4 (4,6) GHz, 30 MB Cache; Intel Core i3-13100E (4C(4P)/8T), 3,3 (4,4) GHz, 12 MB Cache
Chipset	Intel R680E
Graphic	
Graphics controller	Intel® UHD Graphics 730 / 770
Graphics card	Yes; NVIDIA RTX A400, RTX 2000 ADA, RTX 4000 ADA, RTX 5000 ADA
Drives	
Hard disk	1x 2 TB 3.5" SATA HDD, 2x 2 TB 3.5" SATA HDD, 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 960 GB 2.5" SATA SSD, RAID1 2x 2 TB 3.5" SATA HDD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD, RAID1 2x 2 TB [Enterprise] 3.5" SATA HDD, RAID1 2x 4 TB [Enterprise] 3.5" SATA HDD, RAID1 2x 4 TB [Enterprise] 3.5" SATA HDD + 4 TB [Enterprise] 3.5" SATA HDD hot spare
SSD	Yes
Slot for drives	mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	8 GB to 128 GB DDR5 4800 SDRAM DIMM
Hardware configuration	
Slots	
• free slots	10 slots: 7x PCI, 1x PCIe (x4) (4 lane), 2x PCIe (x16) (8 lane) or 10 slots: 2x PCI, 2x PCIe (x16) (8 lane), 4x PCIe (x16) (4 lane), 2x PCIe (x4) (4 lane) or 10 slots: 2x PCI, 2x PCI, 2x PCIe (x16) (2x 8 lane or 1x 16 lane), 4x PCIe (x16) (4 lane), 2x PCIe (x4) (4 lane)
Interfaces	
Interfaces/bus type	1x Gigabit Ethernet (IE/PN), RJ 45; 3x 2.5 Gigabit Ethernet (IE/PN), RJ 45; USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x type A on front, USB 2.0: 2x internal e.g. for software dongle with optional interlock, 4x DisplayPort V1.4a, 1x COM1 and 1x COM2 (optional), audio: line in, line out, micro
USB port	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear; 2x USB 3.1 Gen. 2 type A internally, e.g. for software dongle with optional interlock; 2x USB 3.1 Gen. 1 type A on the front, can be used with door closed
Connection for keyboard/mouse	USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes

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Technical specifications (continued)

Article number	6AG4114-4....-.... SIMATIC IPC RW-548A
Video interfaces	
• Graphics interface	4x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x 2.5 Gigabit Ethernet (IE), RJ45; 1x Gigabit Ethernet (IE/PN), RJ45
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	1
• number of interfaces (2 500 Mbps)	3
Interrupts/diagnostics/status information	
LED status display	POWER; HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, ETHERNET 4, WATCHDOG, TEMP/FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV in accordance with IEC 61000-4-4, burst, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; 100 A/m according to IEC 61000-4-8 (50/60 Hz)
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP41
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
UKCA mark	Yes
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes; in preparation
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3

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Technical specifications (continued)

Article number	6AG4114-4....-.... SIMATIC IPC RW-548A
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transportation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s^2
Shock testing	
• Shock load during operation	Tested according to DIN IEC 60068-2-7: 50 m/s2 (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 11 IoT Enterprise LTSC 2024
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	444 mm

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Overview



SIMATIC IPC847E

Very rugged, high-performance industrial PC in 19" rack design (4 U) with excellent industrial functionality.

It offers:

- Maximum expandability
- Extreme ruggedness
- Intel® Core® i / Xeon technology of the 8th/9th generation

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Selection and ordering data

SIMATIC IPC847E	6AG4114-3	❑	❑	❑	❑	-	❑	❑	❑	❑
Rack PC, 19", 4 U Interfaces: 3x Gbit Ethernet (IE/PN), RJ45; 1x DVI-D; 2x DisplayPort; 1x COM1; audio; 4x USB 3.1, 2x USB 3.1 (type C) on the rear; 2x USB 3.0 on the front, 1x USB 3.1 internal. Temperature and fan monitoring, watchdog, card retainer										
Processors / Boards										
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d). Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		A								
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d). Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		B								
• Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d). Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		C								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT) Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		D								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		E								
• Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		F								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT) Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		G								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		H								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		J								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		K								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		L								
• Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB cache, TB, VT-d, AMT) Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		M								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 9 slots: 7x PCI, 2x PCIe x16 (8 L)		N								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 11 slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L)		Q								
• Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L)		R								
Drives										
• 1 TB HDD 3.5" SATA			A							
• 2x 1 TB HDD 3.5" SATA			B							
• RAID1, 2x 1 TB HDD 3.5" SATA			C							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA			D							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA			E							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare			F							
• RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 480 GB 2.5" SSD SATA (for operating system if M.2 SSD not ordered)			G							
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA			H							
• RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as hot spare			J							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied)			K							
• RAID1, 2x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied) + 480 GB SSD 2.5" SATA			L							
• RAID5, 3x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied)			M							
• RAID5, 3x 2 TB HDD [Enterprise] 3.5" SAS + 2 TB HDD [Enterprise] 3.5" SAS as hot spare; PCIe x8 RAID controller incl. ZMCP module (1 slot occupied)			N							
• 1 TB HDD 3.5" SATA + 480 GB SSD 2.5" SATA (for operating system if M.2 SSD not ordered)			P							
• 480 GB SSD 2.5" SATA			Q							
• 960 GB SSD 2.5" SATA			R							
• 2x 480 GB SSD 2.5" SATA			S							
• RAID1, 2x 480 GB SSD 2.5" SATA			T							

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Selection and ordering data (continued)

SIMATIC IPC847E	6AG4114-3 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• Without drives	X
Type of enclosure/power supplies	
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock); 100/240 V AC industrial power supply unit	0
• Enclosure with drive cage type A (for removable trays on the front); 100/240 V AC industrial power supply unit	1
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock); 2x 100/240 V AC redundant industrial power supply unit	2
• Enclosure with drive cage type A (for removable trays on the front); 2x 100/240 V AC redundant industrial power supply unit	3
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock) + COM2 port; 100/240 V AC industrial power supply unit	4
• Enclosure with drive cage type A (for removable trays on the front) + COM2 interface; 100/240 V AC industrial power supply unit	5
• Enclosure with drive cage type B (for internal installation/0.5 g vibration, 5 g shock) + COM2 port; 2x 100/240 V AC redundant industrial power supply unit	6
• Enclosure with drive cage type A (for removable trays on the front) + COM2 port; 2x 100/240 V AC redundant industrial power supply unit	7
• Enclosure with drive cage type A (for removable trays on the front) + COM2 interface; 100/240 V AC industrial power supply unit, 850 W	8
Memory configuration	
• 4 GB DDR4 SDRAM (1x 4 GB), single channel	0
• 8 GB DDR4 SDRAM (2x 4 GB), dual channel	1
• 16 GB DDR4 SDRAM (2x 8 GB), dual channel	2
• 32 GB DDR4 SDRAM (2x 16 GB), dual channel	3
• 64 GB DDR4 SDRAM (4x 16 GB), dual channel	4
• 128 GB DDR4 SDRAM (4x 32 GB), dual channel	5
• 16 GB DDR4 SDRAM (2x 8 GB), ECC, dual channel (only with Core i3/Xeon)	6
• 32 GB DDR4 SDRAM (2x 16 GB), ECC, dual channel (only with Core i3/Xeon)	7
• 64 GB DDR4 SDRAM (4x 16 GB), ECC, dual channel (only with Core i3/Xeon)	8
Expansion hardware	
• Without expansion	0
• PCIe x4 adapter card for M.2 NVMe module without SSD (1 slot occupied)	1
• PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	2
• PCIe x4 adapter card for M.2 NVMe module without SSD (1 slot occupied) + PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	3
• 512 GB SSD M.2 NVMe on PCIe x4 adapter card (1 slot occupied) (for operating system)	4
• 512 GB SSD M.2 NVMe on PCIe x4 adapter card (1 slot occupied) (for operating system) + PCIe x16 graphics card (3x mDP: 3x adapter mDP on DP) (1 slot occupied)	5
• 1 024 GB SSD M.2 NVMe on PCIe x4 adapter card (1 slot occupied) (for operating system)	6
• PCIe x16 graphics card NVIDIA RTX 4000 (3x DP) (1 slot occupied) [only with 850 W PS]	7
Operating system (preinstalled and activated)	
• Windows 10 Enterprise 2016 LTSB, multi-language (en, de, fr, it, es), 64-bit (for Core i3/i5)	A
• Windows 10 Enterprise 2016 LTSB, multi-language (en, de, fr, it, es), 64-bit (for Core i7/Xeon)	B
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit (for Core i3/i5)	C
• Windows 10 IoT Enterprise 2019 LTSC, multi-language (en, de, fr, it, sp), 64-bit, (for Core i7/Xeon)	D
• PCIe x16 graphics card NVIDIA RTX 4000 (3x DP) (1 slot occupied) [only with 850 W PS]	E
• Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit [for Core i3/i5]	F
• Windows Server 2016 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)	H
• Windows Server 2019 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)	J
• Windows Server 2022 Standard Edition incl. 5 clients, 64-bit, MUI (en, de, fr, it, es)	K
• Without operating system	X
Software / adapters / security expansions	
• SIMATIC IPC DiagMonitor software included	A
• SIMATIC IPC Image & Partition Creator software included	B

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Selection and ordering data (continued)

SIMATIC IPC847E	6AG4114-3 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• SIMATIC IPC DiagMonitor + Image & Partition Creator software included	C
• Adapter cable DP to VGA for onboard graphics	H
• Adapter cable DP to DVI-D for onboard graphics	J
• Without expansions	X
• TPM [1] 2.0 (not for China)	Y
Cables, country-specific versions	
• Without power supply cord	0
• Power supply cord for Europe	1
• Power supply cord for USA	2
• Power supply cord for China	3
SIMATIC IPC847E (Rack PC) 6AG4114-3RR15-0WY0	

[1] TPM = Trusted Platform Module

Option for Industrial Edge	
SIMATIC IPC847E (Rack PC) 3x Gbit Ethernet (IE/PN) 1x DVI-D, 2x DP, 1x COM1, audio, 6x USB3.1; Xeon E-2278GE (8C/16T); 11 slots (8x PCIe, 3x PCI); 960 GB SSD 2.5 SATA; Enclosure with drive cage Type A (for removable trays); 100/240 V AC industrial power supply unit; 128 GB DDR4 SDRAM (4x 32 GB); Industrial Edge (Simatic); TPM 2.0	**6AG4114-3RR15-0WY0**

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

Accessories	
Memory expansions	
• 4 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL60-0QA0**
• 8 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL70-0QA0**
• 16 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL80-0QA0**
• 32 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL81-0QA0**
Removable drive bay For 3.5" hard disk or 2.5" solid-state drive, SATA (without hard disk drive/solid-state drive)	**6ES7648-0EH00-1BA0**
Tower kit To convert the computer into an industrial tower PC	**6ES7648-1AA01-0XC0**
Retainer For mechanically interlocking the internal USB interface	**6ES7648-1AA00-0XK0**
Adapter cable	
• DisplayPort to DVI-D for onboard graphics	**6ES7648-3AF00-0XA0**
• DisplayPort to VGA for onboard graphics	**6ES7648-3AG00-0XA0**
• Mini DisplayPort to VGA for graphics card	**6ES7648-3AL00-0XA0**
• Mini DisplayPort to DVI-D for graphics card	**6ES7648-3AK00-0XA0**
• Mini DisplayPort to DVI-D for graphics card (3 units per pack)	**6ES7648-3AK00-1XA0**
• Mini DisplayPort to DisplayPort for graphics card	**6ES7648-3AJ00-0XA0**
• Mini DisplayPort to DisplayPort for graphics card (3 units per pack)	**6ES7648-3AJ00-1XA0**

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Technical specifications

Article number	6AG4114-3....-.... SIMATIC IPC847E (Rack PC)
General information	
Product type designation	IPC847E
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache,Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache, VT-x/-d-Technology)
Chipset	Intel C246
Graphic	
Graphics controller	Onboard Intel UHD graphics P630/630 integrated in processor; graphics card NVIDIA Quadro P400 PCIe (x16) triple head (optional)
Drives	
Hard disk	1x 1 TB 3.5" SATA HDD, 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID5 3x 2 TB 3.5" SATA HDD (Enterprise), RAID5 3x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID1 2x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module, RAID5 3x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module
SSD	Yes; 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD
Slot for drives	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional
Storage	
Main memory	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional
Hardware configuration	
Slots	
• free slots	9 slots: 7x PCI, 2x PCI Express (x16) (8 lanes) or 11 slots: 3x PCI, 1x PCI Express (x16) (8 lanes), 5x PCI Express (x16) (4 lanes), 2x PCI Express (x4) (4 lanes) or 11 slots: 3x PCI, 1x PCI Express (x16) (16 lanes), 3x PCI Express (x16) (4 lanes), 2x PCI Express (x16) (1 lane), 2x PCI Express (x4) (4 lanes); expansion modules up to a length of 312 mm can be used
Interfaces	
Interfaces/bus type	1x COM1, 1x COM2 (optional), 2x DisplayPort, 1x DVI-D, audio (microphone in, line in, line out), 9x USB, 3x Gigabit Ethernet
PROFIBUS/MPI	can be implemented with plug-in card
USB port	4x USB 3.1 Gen. 2 Type A, 2x USB 3.1 Gen. 2 Type C on the rear; 1x USB 3.1 Gen. 2 Type A internally, e.g. for software dongle with optional interlock, 2x USB 3.1 Gen. 1 Type A on the front, can be used with door closed

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Technical specifications (continued)

Article number	6AG4114-3....-.... SIMATIC IPC847E (Rack PC)
Connection for keyboard/mouse	USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)
Industrial Ethernet	
• Industrial Ethernet interface	3x Gigabit Ethernet (IE/PN), RJ45
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP41
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972

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Technical specifications (continued)

Article number	6AG4114-3....-.... SIMATIC IPC847E (Rack PC)
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB, multi-language (64-bit); Windows 10 IoT Enterprise 2019 LTSC, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 multi-language clients (64-bit); Windows Server 2019 Standard Edition incl. 5 multi-language clients (64-bit)
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	444 mm

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Overview



SIMATIC IPC1047E

Industrial PC for maximum computing, memory and graphic capacity requirements with high expandability in 19" installation design (4 U).

It offers:

- Maximum CPU performance thanks to two Intel® Xeon® SP 2nd Gen Silver/ Gold
- Maximum GPU performance with NVIDIA® Quadro® RTX5000 or up to two RTX A4000 graphics cards
- High system performance with M.2 NVME SSD and up to 2 TB RAM
- A lot of space for your data with up to 32 TB HDD or SSD
- High AI performance with NVIDIA® Quadro® RTX5000 or up to two RTX A4000 graphics cards
- High expandability with 6x PCIe slots and fast data transfer through direct CPU connection of the PCIe lanes
- Product design and safety requirements for industrial environment

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Selection and ordering data

SIMATIC IPC1047E	6BK1801-1	❑	❑	❑	❑	-	❑	❑	❑	❑
Rack PC, 19", 4 U; 572 mm; 2x 1 GB LAN (RJ45); COM1; IPMI; 6 PCIe slots (2x PCIe x8 + 4x PCIe x16)										
Processor										
• 2x Intel Xeon SP Silver 4210 10C/ 20T - 2.2 GHz/ 3.2 GHz		A								
• 2x Intel Xeon SP Silver 4216 16C/ 32T - 2.1 GHz/ 3.2 GHz		B								
• 2x Intel Xeon SP Gold 6226 12C/ 24T - 2.7 GHz/ 3.7 GHz		D								
• 2x Intel Xeon SP Gold 6230 20C/ 40T - 2.1 GHz/ 3.9 GHz		E								
Drives/ mass storage										
• 1x SSD 1 TB M.2 NVMe			A							
• 1x SSD 2 TB M.2 NVMe			B							
• 1x SSD 1 TB M.2 NVMe + 1x HDD 4 TB 3.5" SATA			C							
• 1x SSD 1 TB M.2 NVMe + 1x HDD 8 TB 3.5" SATA			D							
• 1x SSD 1 TB M.2 NVMe + 2x HDD 4 TB 3.5" SATA (HW RAID 1)			E							
• 1x SSD 1 TB M.2 NVMe + 4x HDD 8 TB 3.5" SATA (HW RAID 5 + hot spare)			F							
• 1x SSD 1 TB M.2 NVMe + 2x SSD 3.8 TB 2.5" SATA (HW RAID 1)			G							
• 1x SSD 1 TB M.2 NVMe + 3x SSD 3.8 TB 2.5" SATA (HW RAID 5)			H							
• 1x SSD 1 TB M.2 NVMe + 4x SSD 3.8 TB 2.5" SATA (HW RAID 5 + hot spare)			J							
• 2x SSD 960 GB 2.5" SATA (HW RAID 1) + 2x HDD 8 TB 3.5" SATA (HW RAID 1)			K							
• 2x SSD 960 GB 2.5" SATA (HW RAID 1) + 2x SSD 3.8 TB 2.5" SATA (HW RAID 1)			L							
• 1x SSD 1 TB M.2 NVMe + 2x SSD 7.68 TB 2.5" U.3 NVMe (only internal installation)			M							
• 1x SSD 1 TB M.2 NVMe + 2x SSD 1.92 TB 2.5" U.3 NVMe VROC RAID 1 (only internal installation)			N							
• 1x SSD 1 TB M.2 NVMe + 3x SSD 1.92 TB 2.5" U.3 NVMe VROC RAID 5 (only internal installation)			P							
• 1x SSD 1 TB M.2 NVMe + 8x SSD 1.92 TB 2.5" (internal or 8x removable drive bay)			Q							
• No drives			Y							
Memory configuration										
• 64 GB 2933 MHz DDR4				0						
• 128 GB 2933 MHz DDR4				1						
• 192 GB 2933 MHz DDR4				2						
• 256 GB 2933 MHz DDR4				3						
• 384 GB 2933 MHz DDR4				4						
• 512 GB 2933 MHz DDR4				5						
Graphics cards										
• Without graphics card (onboard VGA)					0					
• 1x Nvidia Quadro P620 (1x PCIe x16 occupied)					1					
• 1x Nvidia Quadro RTX4000 (1x PCIe x16 occupied)					2					
• 1x Nvidia Quadro RTX5000 (1x PCIe x16 occupied) - occupied + 1x PCIe x8 covered - only with 860 W power supply unit					3					
• 1x Nvidia Quadro RTX A4000 (1x PCIe x16 occupied)					4					
Further plug-in cards										
• Without plug-in cards							0			
• Intel I350-T2 (2x 1 GB LAN)							1			
• Intel I350-T4 (4x 1 GB LAN)							2			
• Intel X710-T2L (2x 10 GB LAN)							4			
Operating system (preinstalled and activated, only with installed HDDs/ SSDs)										
• Without operating system								A		
• Windows 10 Enterprise LTSC 2019								B		
• Windows Server 2019 - for XEON Silver 4210 (20C)								C		
• Windows Server 2019 - for XEON Silver 4216 (32C)								D		
• Windows Server 2019 - for XEON Gold 6226 (24C)								E		
• Windows Server 2019 - for XEON Gold 6230 (40C)								F		
• Windows 10 Enterprise LTSC 2021								G		
• Windows Server 2022 - for XEON Silver 4210 (20C)								H		
• Windows Server 2022 - for XEON Silver 4216 (32C)								J		
• Windows Server 2022 - for XEON Gold 6226 (24C)								K		
• Windows Server 2022 - for XEON Gold 6230 (40C)								L		
Power supply										

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Selection and ordering data (continued)

SIMATIC IPC1047E	6BK1801-1 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• 860 W without power supply cable	A
• 860 W power supply cable Europe	B
• 860 W power supply cable US	C
• 860 W power supply cable China	D
• 700 W, redundant, without power supply cable	E
• 700 W, redundant, power supply cable Europe	F
• 700 W power supply cable US	G
• 700 W power supply cable China	H
Enclosure variant	
• Holder for 4x 3.5" or 8x 2.5" SSD/HDD; internal drives	0
• Holder for 4x 3.5" or 4x 2.5" SSD/HDD; removable drive bay	1
• Holder for 8x 2.5" SSD/HDD; removable drive bay	2

Preferred versions	
SIMATIC IPC1047E CPU • 2x Xeon SP Silver 4210 10C/ 20T - 2.2GHz/ 3.2GHz • 1x SSD 1 TB M.2 NVMe • 64 GB 2933 MHz DDR4 ECC • Without graphics card (onboard VGA) • Without plug-in cards • Windows 10 Enterprise LTSC 2019 • 860 W power supply cable Europe • Holder for 4x 3.5" or 8x 2.5" SSD/HDD - internal drives	**6BK1801-1AA00-0BB0**
SIMATIC IPC1047E GPU • 2x Intel Xeon SP Silver 4210 10C/ 20T - 2.2 GHz/ 3.2 GHz • 1x SSD 1 TB M.2 NVMe • 64 GB 2933 MHz DDR4 ECC • 1x Nvidia Quadro RTX4000 (1x PCIe x16 occupied) • Without plug-in cards • Windows 10 Enterprise LTSC 2019 • 860 W power supply cable Europe • Holder for 4x 3.5" or 8x 2.5" SSD/HDD - internal drives	**6BK1801-1AA02-0BB0**
SIMATIC IPC1047E Virtualize • 2x Intel Xeon SP Gold 6230 20C/ 40T - 2.1 GHz/ 3.9 GHz • 1x SSD 1 TB M.2 NVMe + 4x HDD 8 TB 3.5" SATA (HW RAID 5 + hot spare) • 128 GB 2933 MHz DDR4 ECC • Without graphics card (onboard VGA) • Without plug-in cards • Windows Server 2019 - for XEON Gold 6230 (40C) • 700 W, redundant, power supply cable Europe • Holder for 4x 3.5" or 4x 2.5" SSD/HDD - removable drive bay	**6BK1801-1EF10-0FF1**

Note:
For customer-specific configurations, please contact your Siemens sales specialist.

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Technical specifications

Article number	6BK1801-1....-.... SIMATIC IPC1047E (Rack PC)
General information	
Product type designation	IPC1047E
Installation type/mounting	
Mounting	For horizontal rack mounting
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	110/230V AC (autorange) 50/60 Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	2x Intel Xeon SP Silver 4210 10C/20T - 2.2 GHz/ 3.2 GHz; 2x Intel Xeon SP Silver 4216 16C/32T - 2.1 GHz/ 3.2 GHz; 2x Intel Xeon SP Gold 6226 12C/24T - 2.7 GHz/ 3.7 GHz; 2x Intel Xeon SP Gold 6230 20C/40T - 2.1 GHz/ 3.9 GHz
Chipset	Intel C621
Graphic	
Graphics controller	Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp
Graphics card	Yes; NVIDIA Quadro P620, RTX4000, RTX5000 and RTX A4000
Drives	
Hard disk	4 TB & 8 TB 3.5" SATA
SSD	Yes; 960 GB / 1.9 TB / 3.8 TB SATA SSD and 1 TB / 2 TB M.2 NVMe and 1.92 TB / 7.68 TB U.3 NVMe SSD
Slot for drives	4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable; 8x 2.5" SSD front changeable
Storage	
Main memory	64 ... 512 GB
Hardware configuration	
Slots	
• free slots	6x PCIe slots (2x PCIe x8 + 4x PCIe x16)
Interfaces	
Interfaces/bus type	2x 1 GB LAN (RJ45), COM1, IPMI, VGA
USB port	2x front, 2x rear USB 3.0, 2x rear USB 2.0
Connection for keyboard/mouse	USB
serial interface	1x COM
Multimedia	
• Audio In/Out	No
• Microphone In	No
Video interfaces	
• Graphics interface	VGA, with optional graphics card 3x or 4x DP1.4
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	No
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	2
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, FAN Fail
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Fan	Yes
• Monitoring function via network	Yes (per IPMI)
EMC	
Interference immunity against discharge of static electricity	

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Technical specifications (continued)

Article number	6BK1801-1....-.... SIMATIC IPC1047E (Rack PC)
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Degree and class of protection	
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; Industry
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
UL approval	Yes; UL 61010-2-201 Third Edition, File E115352 (I.T.E.)
cULus	Yes; UL 61010-2-201 Third Edition; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
KC approval	Yes
FCC	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C; Basic configuration (without graphics card)
Relative humidity	
• Relative humidity	permissible range for 0 to 31 °C: 5 ... 80 %; no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s²
Shock testing	
• Shock load during operation	half-sine: acceleration 50 m/s², duration 30 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 or Windows Server 2019 or Windows Server 2022
Additional info on operating system	Multilingual User Interface (MUI): 5 languages (English, German, French, Spanish, Italian); 64 bit
without operating system	Yes
Dimensions	
Width	430 mm
Height	176.6 mm; 4U
Depth	572 mm

Article number	6BK1801-1AA00-0AA0 SIMATIC IPC1047E (Rack PC)	6BK1801-1EF10-0FF1 SIMATIC IPC1047E (Rack PC)	6BK1801-1AA02-0BB0 SIMATIC IPC1047E (Rack PC)
General information			
Product type designation	IPC1047E	IPC1047E	IPC1047E
Installation type/mounting			
Mounting	For horizontal rack mounting	For horizontal rack mounting	For horizontal rack mounting
Design	Rack PC, 19", 4U	Rack PC, 19", 4U	Rack PC, 19", 4U
Supply voltage			
Type of supply voltage	110/230V AC (autorange) 50/60 Hz	110/230V AC (autorange) 50/60 Hz	110/230V AC (autorange) 50/60 Hz
Line frequency			
• Rated value 50 Hz	Yes	Yes	Yes
• Rated value 60 Hz	Yes	Yes	Yes
Mains buffering			
• Mains/voltage failure stored energy time	20 ms	20 ms	20 ms

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Technical specifications (continued)

Article number	6BK1801-1AA00-0AA0 SIMATIC IPC1047E (Rack PC)	6BK1801-1EF10-0FF1 SIMATIC IPC1047E (Rack PC)	6BK1801-1AA02-0BB0 SIMATIC IPC1047E (Rack PC)
Processor			
Processor type	2x Intel Xeon SP Silver 4210 10C/20T - 2.2 GHz/ 3.2 GHz; 2x Intel Xeon SP Silver 4216 16C/32T - 2.1 GHz/ 3.2 GHz; 2x Intel Xeon SP Gold 6226 12C/24T - 2.7 GHz/ 3.7 GHz; 2x Intel Xeon SP Gold 6230 20C/40T - 2.1 GHz/ 3.9 GHz	2x Intel Xeon SP Silver 4210 10C/20T - 2.2 GHz/ 3.2 GHz; 2x Intel Xeon SP Silver 4216 16C/32T - 2.1 GHz/ 3.2 GHz; 2x Intel Xeon SP Gold 6226 12C/24T - 2.7 GHz/ 3.7 GHz; 2x Intel Xeon SP Gold 6230 20C/40T - 2.1 GHz/ 3.9 GHz	2x Intel Xeon SP Silver 4210 10C/20T - 2.2 GHz/ 3.2 GHz; 2x Intel Xeon SP Silver 4216 16C/32T - 2.1 GHz/ 3.2 GHz; 2x Intel Xeon SP Gold 6226 12C/24T - 2.7 GHz/ 3.7 GHz; 2x Intel Xeon SP Gold 6230 20C/40T - 2.1 GHz/ 3.9 GHz
Chipset	Intel C621	Intel C621	Intel C621
Graphic			
Graphics controller	Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp	Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp	Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp
Graphics card	Yes; NVIDIA Quadro P620, RTX4000, RTX5000 and RTX A4000	Yes; NVIDIA Quadro P620, RTX4000, RTX5000 and RTX A4000	Yes; NVIDIA Quadro P620, RTX4000, RTX5000 and RTX A4000
Drives			
Hard disk	4 TB & 8 TB 3.5" SATA	4 TB & 8 TB 3.5" SATA	4 TB & 8 TB 3.5" SATA
SSD	Yes; 960 GB / 1.9 TB / 3.8 TB SATA SSD and 1 TB / 2 TB M.2 NVMe and 1.92 TB / 7.68 TB U.3 NVMe SSD	Yes; 960 GB / 1.9 TB / 3.8 TB SATA SSD and 1 TB / 2 TB M.2 NVMe and 1.92 TB / 7.68 TB U.3 NVMe SSD	Yes; 960 GB / 1.9 TB / 3.8 TB SATA SSD and 1 TB / 2 TB M.2 NVMe and 1.92 TB / 7.68 TB U.3 NVMe SSD
Slot for drives	4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable; 8x 2.5" SSD front changeable	4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable; 8x 2.5" SSD front changeable	4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable; 8x 2.5" SSD front changeable
Storage			
Main memory	64 ... 512 GB	64 ... 512 GB	64 ... 512 GB
Interfaces			
Interfaces/bus type	2x 1 GB LAN (RJ45), COM1, IPMI, VGA	2x 1 GB LAN (RJ45), COM1, IPMI, VGA	2x 1 GB LAN (RJ45), COM1, IPMI, VGA
serial interface	1x COM	1x COM	1x COM
Video interfaces			
• Graphics interface	VGA, with optional graphics card 3x or 4x DP1.4	VGA, with optional graphics card 3x or 4x DP1.4	VGA, with optional graphics card 3x or 4x DP1.4
Industrial Ethernet			
• Industrial Ethernet interface			
- 100 Mbps	No	No	No
- 1000 Mbps	Yes	Yes	Yes
• number of interfaces (1 000 Mbps)	2	2	2
Interrupts/diagnostics/status information			
LED status display	POWER, HDD, FAN Fail	POWER, HDD, FAN Fail	POWER, HDD, FAN Fail
Integrated Functions			
Monitoring functions			
• Temperature monitoring	Yes	Yes	Yes
• Fan	Yes	Yes	Yes
• Monitoring function via network	Yes (per IPMI)	Yes (per IPMI)	Yes (per IPMI)
Degree and class of protection			
IP (at the front)	IP30	IP30	IP30
IP (rear)	IP20	IP20	IP20
Standards, approvals, certificates			
CE mark	Yes; Industry	Yes; Industry	Yes; Industry
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Third Edition	Yes; CAN/CSA-C22.2 No. 61010-2-201 Third Edition	Yes; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
UL approval	Yes; UL 61010-2-201 Third Edition, File E115352 (I.T.E.)	Yes; UL 61010-2-201 Third Edition, File E115352 (I.T.E.)	Yes; UL 61010-2-201 Third Edition, File E115352 (I.T.E.)
cULus	Yes; UL 61010-2-201 Third Edition; CAN/CSA-C22.2 No. 61010-2-201 Third Edition	Yes; UL 61010-2-201 Third Edition; CAN/CSA-C22.2 No. 61010-2-201 Third Edition	Yes; UL 61010-2-201 Third Edition; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
KC approval	Yes	Yes	Yes
FCC	Yes	Yes	Yes
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered

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Technical specifications (continued)

Article number	6BK1801-1AA00-0AA0 SIMATIC IPC1047E (Rack PC)	6BK1801-1EF10-0FF1 SIMATIC IPC1047E (Rack PC)	6BK1801-1AA02-0BB0 SIMATIC IPC1047E (Rack PC)
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C; Basic configuration (without graphics card)	50 °C; Basic configuration (without graphics card)	50 °C; Basic configuration (without graphics card)
Vibrations			
• Vibration resistance during operation acc. to IEC 60068-2-6	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s²	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s²	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s²
Operating systems			
pre-installed operating system	Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 or Windows Server 2019 or Windows Server 2022	Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 or Windows Server 2019 or Windows Server 2022	Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 or Windows Server 2019 or Windows Server 2022
without operating system	Yes	Yes	Yes
Dimensions			
Width	430 mm	430 mm	430 mm
Height	176.59999 mm; 4U	176.59999 mm; 4U	176.59999 mm; 4U
Depth	572 mm	572 mm	572 mm

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Overview



SIMATIC IPC RS-717A is a robust industrial PC of server class in 19" rack format (1U) with various AI accelerator cards. It offers:

- High-performance computing from data centers into the industrial environment
- Remote manageability (BMC)
- Scalable Intel® Xeon® processors of the 4th / 5th generation

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Selection and ordering data

SIMATIC IPC RS-717A	6AG4101-0	❑	❑	❑	❑	-	❑	❑	❑	❑
(Rack PC, 19", 1U) Front interfaces: 2× USB 3.1 (Type A) 1× USB 2.0 (mini) 1× VGA Rear interfaces: 4× 1 Gbit/s Ethernet (IE/PN), RJ45 1× 1 Gbit/s Ethernet (BMC), RJ45 4× USB 3.1 (Type A) 2× USB 3.1 (Type C) Internal interfaces: 1× USB 3.1 (Type A) 2× M.2 PCIe x4, Key M, 2280 slot 1× mezzanine expansion card Riser card: 2× PCIe x16 Gen 4 (FHFL – full height, full length) LED indicators: Temperature, fan, power supply alarm, device identification, memory, watchdog System management (BMC): IPMI 2.0 / RedFish, TPM 2.0										
Processor										
• Xeon Silver 4410T 10C/20T, 2.7 (4.0) GHz, 26 MB Cache		A								
• Xeon Gold 6426Y 16C/32T, 2.5 (4.1) GHz, 37 MB Cache		B								
• Xeon Silver 4516Y+ 24C/48T, 2.2 (3.7) GHz, 45 MB Cache		C								
• Xeon Gold 5512U 28C/56T, 2.1 (3.7) GHz, 52 MB Cache		D								
• Xeon Gold 6421N 32C/64T, 1.8 (3.6) GHz, 60 MB Cache		E								
Drives 1 (frontside mounted removable tray or internally mounted)										
• 1x 1,92 TB SSD [Enterprise] 2.5" SATA (frontside mounted removable tray)			A							
• 6x 1,92 TB SSD [Enterprise] 2.5" SATA (frontside mounted removable tray)			D							
• RAID1, 2x 1,92 TB SSD [Enterprise] 2.5" SATA (frontside mounted removable tray, hot plug)			E							
• RAID5, 3x 1,92 TB SSD [Enterprise] 2.5" SATA + 1,92 TB SSD[Enterprise] 2.5" SATA as HotSpare (frontside mounted removable tray, hot plug)			F							
• 1x 960 GB SSD [Enterprise] M.2 NVMe (internally mounted)			H							
• 1x 1,92 TB SSD [Enterprise] M.2 NVMe (internally mounted)			J							
• 6x 1,92 TB SSD [Enterprise] M.2 NVMe (internally mounted)			M							
• without drives; 6x 2,5" SATA frontside mounted removable trays			X							
• without drives; 6x M.2 NVMe backplane for internally mounted drives			Y							
Drives 2 (internal mounted for OS)										
• 1x 960 GB SSD [Enterprise] M.2 NVMe				0						
• 1x 1,92 TB SSD [Enterprise] M.2 NVMe				1						
• RAID1, 2x 960 GB SSD [Enterprise] M.2 NVMe, with VROC Key				4						
• RAID1, 2x 1,92 TB SSD [Enterprise] M.2 NVMe, with VROC Key				5						
• without drives				8						
Main memory										
• 128 GB DDR5 RDIMM (2x 64GB), ECC					0					
• 256 GB DDR5 RDIMM (4x 64GB), ECC					1					
• 384 GB DDR5 RDIMM (6x 64GB), ECC					2					
• 512 GB DDR5 RDIMM (8x 64GB), ECC					3					
Housing parts and extension										
• front bezel for dust protection							0			
• without front bezel							1			
• front bezel for dust protection + Network Mezzanine Card Intel X710 Dual Port 10Gbit SFP+ (without transceiver)							2			
• without front bezel + Network Mezzanine Card Intel X710 Dual Port 10Gbit SFP+ (without transceiver)							3			
AI Accelerator										
• AI Accelerator 1x NVIDIA L4 (1 Slot occupied)								B		
• AI Accelerator 2x NVIDIA L4 (2 Slots occupied)								C		
• AI Accelerator 1x NVIDIA L40 (2 Slot occupied)								D		
• AI Accelerator 1x NVIDIA A100 (2 Slot occupied)								E		
• AI Accelerator 1x NVIDIA H100 (2 Slot occupied)								F		
• without extensions								X		
Operating system (pre-installed and activated)										
• Windows Server 2022 IoT Standard Edition incl. unlimited Clients, for Xeon 4410T, Xeon 6426Y (16C)									A	

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Selection and ordering data (continued)

SIMATIC IPC RS-717A	6AG4101-0	❑	❑	❑	❑	-	❑	❑	❑	❑
• Windows Server 2022 IoT Standard Edition incl. unlimited Clients, for Xeon 4516Y+ (24C)									B	
• Windows Server 2022 IoT Standard Edition incl. unlimited Clients, for Xeon Gold 5512U (28C)									C	
• Windows Server 2022 IoT Standard Edition incl. unlimited Clients, for Xeon Gold 6421N (32C)									D	
• without operating system									X	
Power supply										
• power supply 1200 W (1 Module à 1200 W), without power cords										0
• power supply 1200 W (1 Module à 1200 W), power cord Europe										1
• power supply 1200 W (1 Module à 1200 W), power cord USA										2
• power supply 1200 W (1 Module à 1200 W), power cord China										3
• power supply 1200 W (2 Module à 1200 W, hot plug redundant), without power cords										4
• power supply 1200 W (2 Module à 1200 W, hot plug redundant), 2x power cord Europe										5
• power supply 1200 W (2 Module à 1200 W, hot plug redundant), 2x power cord USA										6
• power supply 1200 W (2 Module à 1200 W, hot plug redundant), 2x power cord China										7

Note:
Please select the desired IPC configuration via the TIA Selection Tool or the configurator in SiePortal to ensure availability; we do not guarantee self-selected configurations. The SIMATIC IPC Online Configurator provides a current overview at this link.

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Technical specifications

Article number	6AG4101-0....-.... SIMATIC IPC RS-717A
Installation type/mounting	
Mounting	For horizontal rack mounting
Supply voltage	
Type of supply voltage	AC redundant 100/240 V (autorange) 50 Hz/60 Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Graphic	
Graphics controller	ASPEED AST2600 Graphics Family (WDDM)
Graphics card	Yes; NVIDIA A100, NVIDIA H100, NVIDIA L4, NVIDIA L40
Drives	
SSD	Yes; 1x 1/2 TB SSD M.2 NMVe
Interfaces	
Connection for keyboard/mouse	USB
Video interfaces	
• Graphics interface	1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	
- 100 Mbps	Yes
- 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Yes (per IPMI)
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact; ±8 kV air (to IEC 61000-4-2, ESD)
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	• 10 V/m; 80 up to 2 700 MHz 80 % AM to IEC 61000-4-3 • 3 V/m; 2.7 to 6 GHz 80 % AM to IEC 61000-4-3 • 10 V; 150 kHz up to 80 MHz 80 % AM to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV; acc. to IEC 61000-4-4; burst
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst, length < 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; use in industry (interference emission: EN 61000-6-4)
CSA approval	Yes; CAN/CSA-C22.2 No. 62368-1
UL approval	Yes; standard UL 62368-1
cULus	Yes; standard UL 62368-1
KC approval	Yes; in preparation
Dust protection	dust filter with mounted front bezel
Ambient conditions	
Ambient temperature during operation	

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Technical specifications (continued)

Article number	6AG4101-0....-.... SIMATIC IPC RS-717A
• min.	5 °C
• max.	45 °C
Operating systems	
pre-installed operating system	Windows Server 2022 IoT Standard Edition incl. unlimited Clients for this server, 64bit, MUI (en, de, fr, it, sp)
Additional info on operating system	optional: SIMATIC Industrial OS
without operating system	Yes
Dimensions	
Width	440 mm
Height	44 mm
Depth	639 mm

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Overview



SIMATIC IPC RS-828A is a rugged industrial PC of the server class in 19" rack design (2 U) with different AI accelerator cards.
It offers:

- High-performance from the data centers to the industrial environment
- Remote manageability (BMC)
- AMD EPYC Embedded technology

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Selection and ordering data

SIMATIC IPC RS-828A	6AG4102-0	❑	❑	❑	❑	-	❑	❑	❑	❑
SIMATIC IPC RS-828A (Rack PC, 19", 2 U), 2x base SP5										
• SIMATIC IPC RS-828A (Rack PC, 19", 2 U), 2x base SP5										
• Interfaces on the front: 2x USB 3.1 (type A); LED indicators: Power, SSD, Ethernet 1-2, watchdog, temperature, fan, drive alarm, power supply unit alarm										
• Interfaces on the rear: 2x 10 Gbit Ethernet (IE/PN), RJ45; 1x 1 Gbit Ethernet (BMC), RJ45; 1x COM1; 1x VGA; 4x USB 3.1 Gen. 2, type A										
• Internal interfaces: 2x M.2 PCIe x4, key M, 22110 slot;										
• Riser card: 2 x PCI-E Gen5 x16 slot optional for 2 x DW GPU card or 4 x PCI-E Gen5 x8 (FHFL) + 3 x PCI-E Gen5 x16 slot (FHHL)										
• System management: IPMI 2.0 / RedFish, TPM 2.0										
• 2x AMD EPYC™ 9124 Embedded Series Server processors - max. 240W cTDP, 16 cores/CPU										
• 1x 2 TB 2.5" SATA SSD										
• 1x 1 TB SSD M.2 NVMe										
• 256 GB DDR5-4800MHz RDIMM ECC										
• Without expansion cards										
• Without AI accelerator										
• Without operating system										
• Power supply unit 2600 W (2 modules 2600 W each, redundant) - without power supply cord										
Processor										
• 2x AMD EPYC™ 9124 Embedded Series Server processors - max. 240W cTDP, 16 cores/CPU		A								
• 2x AMD EPYC™ 9254 Embedded Series Server processors - max. 240W cTDP, 24 cores/CPU		B								
• 2x AMD EPYC™ 9354 Embedded Series Server processors - max. 300W cTDP, 32 cores/CPU		C								
• 2x AMD EPYC™ 9454 Embedded Series Server processors - max. 400W cTDP, 48 cores/CPU		D								
Drives in quick-swap frames										
• 1x 2 TB 2.5" SATA SSD			A							
• 2x 2 TB 2.5" SATA SSD			B							
• 4x 2 TB 2.5" SATA SSD			C							
• 6x 2 TB 2.5" SATA SSD			D							
• 2x 2 TB 2.5" SATA SSD + HW RAID controller (1 PCIe slot occupied), RAID 1 preconfigured			E							
• 4x 2 TB 2.5" SATA SSD + HW RAID controller (1 PCIe slot occupied), RAID 5 + hot spare preconfigured			F							
• 6x 2 TB 2.5" SATA SSD + HW RAID controller (1 PCIe slot occupied), RAID 5 + hot spare preconfigured			G							
• 1x 2TB 2.5" U.3 NVMe SSD			H							
• 2x 2TB 2.5" U.3 NVMe SSD			J							
• 4x 2TB 2.5" U.3 NVMe SSD			K							
• 2x 2 TB 2.5" U.3 NVMe SSD + HW RAID controller incl. power save module, RAID 1 preconfigured			L							
• 4x 2 TB 2.5" U.3 NVMe SSD + HW RAID controller incl. power save module, RAID 5 + preconfigured			M							
• 6x 2TB 2.5" U.3 NVMe SSD			N							
• Without drives			X							
Internal M.2 drives for the operating system										
• 1x 1 TB SSD M.2 NVMe				0						
• 1x 2 TB SSD M.2 NVMe				1						
Main memory (RAM)										
• 256 GB DDR5-4800MHz RDIMM ECC					0					
• 512 GB DDR5-4800MHz RDIMM ECC					1					
• 1 TB DDR5-4800MHz RDIMM ECC					2					
• 1.5 TB DDR5-4800MHz RDIMM ECC					3					
Expansion cards										
• Without expansion cards							0			
• Network adapter Intel X710 (2x 10 GB LAN, RJ45) PCIe x8 (1 slot occupied)							1			
AI accelerator										
• AI accelerator 1x NVIDIA L4 (1 slot occupied)								A		
• AI accelerator 2x NVIDIA L4 (2 slots occupied)								B		
• AI accelerator 3x NVIDIA L4 (3 slots occupied)								C		

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Selection and ordering data (continued)

SIMATIC IPC RS-828A	6AG4102-0 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• AI accelerator 4x NVIDIA L4 (4 slots occupied)	D
• AI accelerator 1x NVIDIA L40 (2 slots occupied)	E
• AI accelerator 2x NVIDIA L40 (4 slots occupied)	F
• AI accelerator 1x NVIDIA A100 (2 slots occupied)	G
• AI accelerator 2x NVIDIA A100 (4 slots occupied)	H
• AI accelerator 1x NVIDIA H100 (2 slots occupied)	J
• AI accelerator 2x NVIDIA H100 (4 slots occupied)	K
• Without AI accelerator	X
Operating system (preinstalled and activated)	
• Windows Server 2022 IoT Standard Edition incl. unlimited clients for this server, 64-bit, MUI (en, de, fr, it, es)	!
• Windows Server 2022 IoT Standard Edition incl. unlimited clients for this server, 64-bit, MUI (en, de, fr, it, es)	!
• Windows Server 2022 IoT Standard Edition incl. unlimited clients for this server, 64-bit, MUI (en, de, fr, it, es)	!
• Windows Server 2022 IoT Standard Edition incl. unlimited clients for this server, 64-bit, MUI (en, de, fr, it, es)	D
• Without operating system	X
Power supply unit and country-specific power supply cord	
• Power supply unit 2600 W (2 modules 2600 W each, redundant) - without power supply cord	0
• Power supply unit 2600 W (2 modules 2600 W each, redundant) - power supply cord Europe	1
• Power supply unit 2600 W (2 modules 2600 W each, redundant) - power supply cord USA	2
• Power supply unit 2600 W (2 modules 2600 W each, redundant) - power supply cord China	3

Note:

Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

The SIMATIC IPC online configurator offers a current overview at this link.

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Technical specifications

Article number	6AG4102-0....-.... SIMATIC IPC RS-828A
General information	
Product type designation	IPC RS-828A
Installation type/mounting	
Mounting	For horizontal rack mounting
Design	Rack PC, 19", 2U
Supply voltage	
Type of supply voltage	AC redundant 100/240 V (autorange) 50 Hz/60 Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Processor	
Processor type	Dual Socket SP5 - 2x AMD EPYC™ 9454 Embedded Series Server Processors - max. 400 W cTDP, 48 Cores/each; Dual Socket SP5 - 2x AMD EPYC™ 9354 Embedded Series Server Processors - max. 300 W cTDP, 32 Cores/each; Dual Socket SP5 - 2x AMD EPYC™ 9254 Embedded Series Server Processors - max. 240 W cTDP, 24 Cores/each; Dual Socket SP5 - 2x AMD EPYC™ 9124 Embedded Series Server Processors - max. 240 W cTDP, 16 Cores/each
Chipset	SoC
Graphic	
Graphics controller	ASPEED AST2600 Graphics Family (WDDM)
Graphics card	Yes; NVIDIA A100, NVIDIA H100, NVIDIA L4, NVIDIA L40
Drives	
SSD	Yes; 1x 1/2 TB SSD M.2 NMVe
Storage	
Main memory	256 GB ... 1.5 TB DDR5-4800 MHZ RDIMM ECC
Hardware configuration	
Slots	
• free slots	7 Slots: 2 x PCI-E Gen5 x16 Slot optional for 2 x DW GPU Card or 4 x PCI-E Gen5 x8 (FHFL) + 3 x PCI-E Gen5 x16 Slot (FHHL)
Interfaces	
Interfaces/bus type	Interfaces front: 2x USB 3.1 (Type A) frontside; LED Indicators: Power, SSD, Ethernet 1-2, Watchdog, Temp, Fans, drives alarm, PS alarm Interfaces rear: 2x 10 Gbit Ethernet (IE/PN), RJ45; 1x 1 Gbit Ethernet (BMC), RJ45; 1x COM1; 1x VGA; 4x USB 3.1 Gen. 2, Type A Interfaces internaly: 2x M.2 PCIe x4, Key M, 22110 Slot; Riser card: 2 x PCI-E Gen5 x16 Slot optional for 2 x DW GPU Card or 4 x PCI-E Gen5 x8 (FHFL) + 3 x PCI-E Gen5 x16 Slot (FHHL) System Management: IPMI 2.0 / RedFish, TPM 2.0
USB port	Interfaces front: 2x USB 3.1 (Type A) Interfaces rear: 4x USB 3.1 Gen. 2, Type A
Connection for keyboard/mouse	USB
serial interface	1x COM
Video interfaces	
• Graphics interface	1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	2x 10 Gbit Ethernet (IE/PN), RJ45; 1x 1 Gbit Ethernet (BMC), RJ45
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	Power, SSD, Ethernet 1-2, Watchdog, Temp, Fans, drives alarm, PS alarm
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes

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Technical specifications (continued)

Article number	6AG4102-0....-.... SIMATIC IPC RS-828A
• Monitoring function via network	Yes (per IPMI)
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact; ±8 kV air (to IEC 61000-4-2, ESD)
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	• 10 V/m; 80 up to 2 700 MHz 80 % AM to IEC 61000-4-3 • 3 V/m; 2.7 to 6 GHz 80 % AM to IEC 61000-4-3 • 10 V; 150 kHz up to 80 MHz 80 % AM to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV; acc. to IEC 61000-4-4; burst
• Interference immunity on signal cables >30m	± 2 kV; in accordance with IEC 61000-4-4; burst; length > 30 m
• Interference immunity on signal cables < 30m	± 1 kV; in accordance with IEC 61000-4-4; burst; length < 30 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3; EN 61000-6-4 EN 55032 Class A; FCC Class A; KS C 9832 Class A EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; use in industry (interference emission: EN 61000-6-4)
CSA approval	Yes; CAN/CSA-C22.2 No. 62368-1
UL approval	Yes; standard UL 62368-1
cULus	Yes; standard UL 62368-1
RCM (formerly C-TICK)	Yes
KC approval	Yes; in preparation
FCC	Yes
BSMI	Yes
EMC	EN 61000-6-3; EN 61000-6-4 EN 55032 Class A; FCC Class A; KS C 9832 Class A EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	dust filter with mounted front bezel
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C; Max. 10 °C/h (no condensation)
• max.	45 °C
Relative humidity	
• Relative humidity	tested to IEC 60068-2-78; IEC 60068-2-30 5 % to 85 % at 30 °C; no condensation gradient: ≤ 10 K/h; no condensation 5 % to 95 % at 25 °C to 55 °C; no condensation gradient: ≤ 20 K/h; no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 50 m/s², 30 ms
Operating systems	
pre-installed operating system	Windows Server 2022 IoT Standard Edition incl. unlimited Clients for this server, 64bit, MUI (en, de, fr, it, sp)
Additional info on operating system	optional: SIMATIC Industrial OS
without operating system	Yes
Dimensions	
Width	444 mm
Height	88 mm; 2U
Depth	585 mm

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Overview



SIMATIC Box PCs

SIMATIC Box PCs provide mechanical engineers, plant engineers and control cabinet builders with particularly rugged industrial PC systems for use in powerful yet compact applications.

The following industrial functions are common to all device classes:

- Extreme compactness
- Varied mounting possibilities for flexibility with installation
- Certification for global marketing
- Robust data storage through the use of solid-state drive (SSD)
- Wide operating temperature range
- High vibration/shock load during operation
- Integrated parameterizable monitoring functions (temperature, fan, watchdog)
- High service friendliness
- Optional operating system preinstalled and activated for fast commissioning

SIMATIC IOT2050: The universal data gateway

- Wide range of options for programming in high-level languages
- Implementation of flexible communication solutions with different protocols, from Modbus RTU, OPC UA, all the way to cloud protocols such as MQTT/AMQP
- Use of open source application examples and libraries

SIMATIC IPCBX-21A: Ultra-compact and flexible integration

- High-performance gateway for the acquisition/collection/processing/transmission of data / integration of machinery in Cloud/Edge solutions
- For retrofitting and new systems: Networking/retrofitting of digitizing tasks in brownfield and greenfield plants due to ultra-compact design
- Optimized price/performance ratio; ideal for high quantities

Overview (continued)

SIMATIC IPC227 (Nanobox PC): The Box PC with optimized performance in compact design – versatile and open

- Maximum compactness with approx. 1 liter enclosure volume with integrated industrial power supply for minimum space requirements in the control cabinet
- Maximum flexibility thanks to several mounting options and interfaces on one side suitable for every installation situation
- Optimum variety of interfaces due to a large number of integrated interfaces such as a selectable serial connection and 2x or 3x teaming-capable Gigabit-Ethernet
- Maximum industrial functionality due to closed enclosure for optimum dust protection and optional non-volatile retentive memory

SIMATIC IPC BX-32A: Box PC without fan with attractive price/performance ratio

- Without fan, high performance with maximum compactness and ruggedness for direct installation in the machine
- Flexible expansion using a PCIe I/O card (optional)
- Flexible installation options including DIN rail/wall/front portrait mounting

SIMATIC IPC327: Box PC at an appealing price - focused on basic functions

- Low-cost platform for the industrial and industry-oriented field
- Flexible installation on the DIN rail or wall mounting, as well as simple connection of I/O devices due to a large number of interfaces
- Fanless industrial design
- Fast availability directly ex stock due to preferred versions

SIMATIC BX-32A: Powerful for price-sensitive applications

- Without fan, high performance with maximum compactness and ruggedness for direct installation in the machine
- Flexible expansion using a PCIe I/O card (optional)
- Flexible installation options including DIN rail/wall/front portrait mounting

SIMATIC IPC BX-39A (Microbox PC): The powerful embedded IPC – flexible in use and expandable in a variety of ways

- Fan-free operation
- High performance with maximum compactness and ruggedness for direct installation in the machine
- Optimized for embedded applications
- Flexibility expandable using one or two PCIe I/O cards (optional)
- Flexible installation options including DIN rail/wall/front portrait mounting, even outside control cabinets
- NVRAM for retentive data storage (optional)

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Overview (continued)

SIMATIC IPC527: The powerful Box PC at an appealing price

- High system performance for computation-intensive applications with compact dimensions
- High flexibility due to expansion options
- High degree of investment protection thanks to support of existing systems
- Industrial quality at an attractive price
- Fast availability directly ex stock due to preferred versions

SIMATIC IPC627: The high-end Box PC – with high functionality and expandability

- Maximum system performance for complex measuring, control and visualization tasks
- High flexibility with expansion slots and integrated interfaces
- Flexible, space-saving installation with mounting brackets or portrait mounting kits
- Very rugged design for direct installation in the machine
- RAID1 controller onboard
- 4 signaling LEDs

SIMATIC IPC BX-56A / SIMATIC IPC BX-59A: The high-end IPC with maximum performance, functional scope, and expansion capability

- Device selection focused precisely on the use case due to the variance of the modular system and the high scalability of the modular system
- Flexibility due to optional expansion modules with up to 5 PCIe slots
- Maximum system performance for demanding computing, control and visualization tasks through the use of Intel® processors up to the 65 W class
- High system availability due to optional RAID functionality
- On-premise Edge analyses and GPU-enabled neural networks, e.g. for quality inspection and AI inference

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Technical specifications

Article number	6ES7647-0BA00-1-YA2	6AG4021-0B.00-.A..	6ES7647-8C...-....	6AG4022-0B...-....	6AG4152-.....-....	6ES7647-0JC..-....
	SIMATIC IoT2050	SIMATIC IPC BX-21A	SIMATIC IPC227G	SIMATIC IPC327G	SIMATIC IPC BX-32A	SIMATIC IPC BX-35A
General information						
Product type designation	IOT2050	IPC BX-21A	IPC227G	IPC327G	BX-32A	IPC BX-35A
Installation type/mounting						
Mounting		DIN rail, wall mounting, book mounting, VESA mounting	DIN rail, wall mounting, portrait mounting	Rail or wall mounting	DIN rail, wall mounting, portrait mounting	rail mounting, wall mounting
Design	IoT Gateway, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage						
Type of supply voltage	12/24 V DC	24 V DC	24 V DC	24 V	9 - 36 V DC	rated 12 to 24 V DC, range 9 to 36 V DC
Rated value (DC)			24 V			
Mains buffering						
• Mains/voltage failure stored energy time	5 ms	5 ms	20 ms	20 ms	20 ms	5 ms
Input current						
Current consumption, max.			1.9 A			
Inrush current, max.			2.5 A			
Processor						
Processor type	ARM TI AM6548 HS	Intel Atom X6413E	Intel Atom X6413E	Intel Atom X6413E	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)	
Chipset		SoC	SoC		Intel® RM590E	
Graphic						
Graphics controller	Integrated	Integrated	Integrated		Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)	1024 core NVIDIA Ampere GPU with 32 Tensor Core
Graphics card	Yes					
Drives						
Hard disk					M.2 SSD ≥ 240 GB	
SSD		Yes; 128 GB	Yes; 256 Eco	Yes; 256 GB SSD/512 GB SSD	Yes	Yes
Slot for drives	1x microSD card slot					
Storage						
Type of memory	DDR4	LPDDR4 onboard	DDR4 SO-DIMM	DDR4	DDR4-3200 SO-DIMM	LPDDR5
Main memory	2 GB RAM			4 GB, 8 GB,16 GB	4 / 8 / 16 / 32 GB	
Hardware configuration						
Slots						
• free slots			2x M.2	2x M.2		1x nano SIM card slot
Digital inputs						
Number of digital inputs	20					4
Input voltage						

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Technical specifications (continued)

Article number	6ES7647-0BA00-1-YA2	6AG4021-0B.00-.A..	6ES7647-8C...-....	6AG4022-0B...-....	6AG4152-.....-....	6ES7647-0JC..-....
	SIMATIC IoT2050	SIMATIC IPC BX-21A	SIMATIC IPC227G	SIMATIC IPC327G	SIMATIC IPC BX-32A	SIMATIC IPC BX-35A
• Type of input voltage	DC					24 V DC
• for signal "0"						< 5 V DC
• for signal "1"						> 12 V DC
Input current						
• for signal "0", max. (permissible quiescent current)						1 mA
• for signal "1", typ.						2.5 mA
Digital outputs						
Type of digital output						transistor
Number of digital outputs	20					4
Short-circuit protection						No
Output voltage						
• Type of output voltage	DC					DC
• permissible voltage at output, min.	3.3 V					20.4 V
• permissible voltage at output, max.	5 V					28.8 V
Output current						
• for signal "1" rated value						0.5 A
Switching frequency						
• with resistive load, max.						10 Hz
• with inductive load, max.						0.5 Hz
• mechanical, max.						10 Hz
Analog inputs						
Number of analog inputs	6					
Input ranges						
• Voltage	Yes; 0 ... 5 V					
Interfaces						
Number of industrial Ethernet interfaces	2	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	2; 2x RJ45 (independent)	2; 2x Gigabit Ethernet (IE/PN), RJ45	4; 4x RJ45 (4x support PoE PSE IEEE 802.3af 30 W total)
Number of PROFINET interfaces	2					
USB port		4x USB 3.1 Gen2	4x USB 3.1	4x USB 3.1; 3x USB 2.0	4x USB 3.2 Gen2	3x USB 3.1 Gen1 5 GB/s + 1x USB 2.0
Connection for keyboard/mouse		USB / USB	USB / USB	USB / USB	USB / USB	USB / USB
serial interface	1x COM (1x RS 232 / 422 / 485)				2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)	1x COM (1x RS 232 / 422 / 485)
Video interfaces						
• Graphics interface	1x DisplayPort	1x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit	1x DisplayPort
Industrial Ethernet						
• Industrial Ethernet interface		3x Ethernet (RJ45)	3x Ethernet (RJ45)	2x Ethernet (RJ45)	2x Ethernet (RJ45)	4x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes
Protocols						
Protocols (Ethernet)						
• TCP/IP		Yes	Yes	Yes		Yes
Interrupts/diagnostics/status information						
LED status display	Yes	1x power, 3x user	1x power, 3x user	POWER, HDD	No	1x Power, 1x User, 8x DIO

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Technical specifications (continued)

Article number	6ES7647-0BA00-1-YA2	6AG4021-0B.00-.A..	6ES7647-8C...-....	6AG4022-0B...-....	6AG4152-.....-....	6ES7647-0JC..-....
	SIMATIC IoT2050	SIMATIC IPC BX-21A	SIMATIC IPC227G	SIMATIC IPC327G	SIMATIC IPC BX-32A	SIMATIC IPC BX-35A
Integrated Functions						
Monitoring functions						
• Temperature monitoring	Yes		Yes	Yes	No	Yes
• Watchdog		Yes	Yes	Yes	No	Yes
• Fan			No	No	No	No
• Monitoring function via network			Optional		Optional	
EMC						
Interference immunity against discharge of static electricity						
• Interference immunity against discharge of static electricity		±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields						
• Interference immunity against high frequency radiation		10 V/m for 80 - 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m for 2.7 - 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference						
• Interference immunity on supply cables		±2 kV according to IEC 61000-4-4, burst	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m		±2 kV according to IEC 61000-4-4, burst	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m		±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge	burst: ±2 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable ≥ 30 m
• Interference immunity on signal cables < 30m		±1 kV acc. to IEC 61000-4-4, Burst	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m		±1 kV acc. to IEC 61000-4-4, Burst	burst: ±1 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable < 30 m
Interference immunity against voltage surge						
• asymmetric interference		±2 kV acc. to IEC 61000-4-5, line to earth	±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-5, surge asymmetric	

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Technical specifications (continued)

Article number	6ES7647-0BA00-1-YA2	6AG4021-0B.00-.A..	6ES7647-8C...-....	6AG4022-0B...-....	6AG4152-.....-....	6ES7647-0JC..-....
	SIMATIC IoT2050	SIMATIC IPC BX-21A	SIMATIC IPC227G	SIMATIC IPC327G	SIMATIC IPC BX-32A	SIMATIC IPC BX-35A
• symmetric interference		±1 kV acc. to IEC 61000-4-5, line to line	±1 kV acc. to IEC 61000-4-5, surge symmetric		±1 kV acc. to IEC 61000-4-5, surge symmetric	
Interference immunity to magnetic fields						
• Interference immunity to magnetic fields at 50 Hz			100 A/m; to IEC 61000-4-8		100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference						
• Interference emission via line/AC current cables		IEC 61000-6-3 + A1/ CISPR 32 + A1	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A		IEC 61000-6-3, IEC 61000-6-4, CAN/CSA CISPR 32 Class B, FCC Class A	IEC 61000-6-4, CAN/CSA CISPR 32 class A, FCC class A
Degree and class of protection						
IP degree of protection	IP20	IP40	IP40	IP40	IP20	IP20
IP (all-round)	IP20					
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark		Yes	Yes		Yes	
CSA approval				Yes	Yes	No
UL approval	Yes	Yes		Yes	Yes; UL 61010-2-201 Second Edition, File E472609	Yes; UL 61010-2-201, UL 61010-1
• UL 508					No	No
cULus	Yes		Yes		Yes	Yes; UL 61010-1, UL 61010-2-201
FM approval						No
RCM (formerly C-TICK)	Yes	Yes	Yes		Yes	Yes; C-Tick
KC approval	Yes	Yes	Yes	Yes	Yes	No; in preparation
EAC (formerly Gost-R)	Yes		Yes	Yes	No	No
CCC						No
FCC	Yes	Yes	Yes	Yes	Yes	Yes
BSMI				Yes	No; in preparation	No; in preparation
BIS			Yes		Yes	
EMC		EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	CE, EN 61000-6-4:2007, EN 61000-6-2:2005		EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B, FCC Class A, KN32	
Dust protection		Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm		
Use in hazardous areas						
• ATEX Zone 2					No	
• IECEx Zone 2					No	
• cULus Class I Zone 2, Division 2					No	
Marine approval						
• Germanischer Lloyd (GL)			Yes		No	
• American Bureau of Shipping (ABS)			Yes		No	
• Bureau Veritas (BV)			Yes		No	
• Det Norske Veritas (DNV)			Yes		No	
• Korean Register of Shipping (KRS)					No	

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Technical specifications (continued)

Article number	6ES7647-0BA00-1-YA2	6AG4021-0B.00-.A..	6ES7647-8C...-....	6AG4022-0B...-....	6AG4152-.....-....	6ES7647-0JC..-....
	SIMATIC IoT2050	SIMATIC IPC BX-21A	SIMATIC IPC227G	SIMATIC IPC327G	SIMATIC IPC BX-32A	SIMATIC IPC BX-35A
• Lloyds Register of Shipping (LRS)			Yes		No	
• Nippon Kaiji Kyokai (Class NK)					No	
• Chinese Classification Society (CCS)			Yes			
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	-20 °C	0 °C	0 °C	0 °C	0 °C; 15 W CPU, 30 W PoE, 3 W M.2 M-KEY, 3 W M.2 B-KEY or 2.5 W M.2 E-KEY, USB
• max.	50 °C	50 °C	50 °C	55 °C; without M.2 module	50 °C	50 °C; 15 W CPU, 30 W PoE, 3 W M.2 M-KEY, 3 W M.2 B-KEY or 2.5 W M.2 E-KEY, USB
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	2 000 m				3 000 m	
Relative humidity						
• Relative humidity		max. 85% at 30 °C, no condensation, gradient <= 10 °C/h	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	5 ... 85 % at 30 °C, no condensation	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)	5 ... 85 % at 30 °C, no condensation
• Operation, max.	85 %				85 %	
Vibrations						
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s²	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)	58 Hz to 200 Hz: 4.9 m/s²; tested according to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²	tested according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s²
Shock testing						
• Shock load during operation		Tested according to IEC 60068-2-27: 150 m/s², 11 ms	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	with SSD: 150 m/s², 11 ms, 5 g, 30 ms, tested accordance with IEC 60068-2-27	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems						
pre-installed operating system	SIMATIC Industrial OS	Windows 10 Enterprise 2021 LTSC, 64-bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 10 IoT Enterprise 2021 LTSC, Industrial OS	SIMATIC Industrial OS optional
Additional info on operating system						in preparation
without operating system	No	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes
Mechanics/material						
Enclosure material (front)	plastic				Continuous-cast aluminum	
• plastic	Yes					
• Aluminum	Yes					
• Stainless steel	Yes					

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Technical specifications (continued)

Article number	6ES7647-0BA00-1-YA2	6AG4021-0B.00-.A..	6ES7647-8C...-....	6AG4022-0B...-....	6AG4152-.....-....	6ES7647-0JC..-....
	SIMATIC IoT2050	SIMATIC IPC BX-21A	SIMATIC IPC227G	SIMATIC IPC327G	SIMATIC IPC BX-32A	SIMATIC IPC BX-35A
• Glass	No					
Dimensions						
Width	37 mm	85 mm	191 mm	254 mm	255 mm	196 mm
Height	142 mm	104 mm	100 mm	132 mm	133 mm	131 mm
Depth	100 mm	45 mm	64 mm	73 mm	75 mm	70 mm

Article number	6AG4142-.....-....	6AG4025-0...0-...0	6AG4131-3....-....	6AG4132-0....-....	6AG4133-0....-....
	SIMATIC IPC BX-39A	SIMATIC IPC527G (Box PC)	SIMATIC IPC627E (Box PC)	SIMATIC IPC BX-56A (Box PC)	SIMATIC IPC BX-59A (Box PC)
General information					
Product type designation	BX-39A	IPC527G	IPC627E	BX-56A	BX-59A
Installation type/mounting					
Mounting	DIN rail, wall mounting, portrait mounting	Wall mounting, portrait mounting, desktop mounting	Wall mounting, portrait mounting	Wall mounting, book mounting, desk mounting, tower mounting	Wall mounting, book mounting, desk mounting, tower mounting
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage					
Type of supply voltage	24 V DC	100/240V AC (autorange) 50/60 Hz	100/240 V AC (autorange); 24 V DC	400 W / 24 V / 19.2 - 28.8 VDC; 220 W / 12-24 V / 9 - 36 VDC	100 / 240 V AC (autorange); 24 V DC(220 W / 9~36 V DC, 400 W / 19.2~28.8 V DC, 800 W / 19.2~28.8 V DC)
Rated value (DC)	24 V			24 V; 12...24 V DC on 220 W	24 V; 12...24 V DC on 220 W
Rated value (AC)					240 V; 100 - 240V, 50/60Hz
Line frequency					
• Rated value 50 Hz		Yes	Yes		Yes
• Rated value 60 Hz		Yes	Yes		Yes
Mains buffering					
• Mains/voltage failure stored energy time	20 ms		20 ms	20 ms	20 ms
Input current					
Current consumption (rated value)	5 A; at 24 V DC and without load				
Current consumption, max.	5 A; At 24 V DC				
Inrush current, max.	75 A				
Processor					
Processor type	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)	Core i7-6700 (4C/8T, 3.4 (4.0) GHz, 8 MB cache); Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache); Pentium G4400 (2C/2T, 3.3 GHz, 3 MB cache)	Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)		Core i9-13900E 24C (8P+16E)/32T, 1.8 (5.2) GHz, 36 MB cache; Core i7-13700E 16C (8P+8E)/24T, 1.9 (5.1) GHz, 30 MB cache; Core i7-13700TE 16C (8P+8E)/24T, 1.1 (4.8) GHz, 30 MB cache; Core i5-13500E 14C (6P+8E)/20T, 2.4 (4.6) GHz, 24 MB cache
Chipset	Intel® RM590E	Intel H110	Intel C246	Intel H610E	Intel R680E

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Technical specifications (continued)

Article number	6AG4142-.....-....	6AG4025-0...0-...0	6AG4131-3....-....	6AG4132-0....-....	6AG4133-0....-....
	SIMATIC IPC BX-39A	SIMATIC IPC527G (Box PC)	SIMATIC IPC627E (Box PC)	SIMATIC IPC BX-56A (Box PC)	SIMATIC IPC BX-59A (Box PC)
Graphic					
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)	Onboard Intel HD graphics 530/510 integrated in processor	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)		Intel UHD Graphics 770 (Core i5, Core i7, Core i9)
Graphics card					Yes; Optional
Drives					
Hard disk	M.2 SSD 256 GB Eco	1 TB HDD	2.5" SATA ≥ 320 GB		
SSD	Yes	Yes; Optional	Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay	Yes	Yes; base module: 480 GB 2.5" SATA SSD (PLP); 960 GB 2.5" SATA SSD (PLP); 512 GB 2.5" SATA SSD; 1 TB 2.5" SATA SSD; 512 GB M.2 NVME onboard SSD; 1 TB M.2 NVME onboard SSD; 512 GB M.2 NVME onboard SSD with 1* 512 GB M.2 NVME on 1 exchangeable SSD slider; 512 GB M.2 NVME onboard SSD with 1* 1 TB M.2 NVME on 1 exchangeable SSD slider; RAID1 2* 512 GB M.2 NVME on 2 exchangeable SSD slider; RAID1 2* 1 TB M.2 NVME on 2 exchangeable SSD slider; 512 GB M.2 NVME onboard SSD with RAID1 2* 512 GB M.2 NVME on 2 exchangeable SSD slider
expansion for storage medium					extension module 4 slots: 1 TB 2.5" SATA SSD; 2* 1 TB 2.5" SATA SSD RAID1, extension module 6 slots: 1 TB 2.5" SATA SSD; 2* 1 TB 2.5" SATA SSD RAID1; 3* 1TB 2.5" SATA SSD RAID5
Storage					
Type of memory	DDR4-3200 SO-DIMM	DDR4-2133 SO-DIMM	DDR4-2666 DIMM	DDR5-4800 SO-DIMM	DDR5-4800 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional	4 / 8 / 16 GB, supports up to 32 GB	4 / 8 / 16 / 32 / 64 GB		8 / 16 / 32 / 64 GB; ECC optional
Data areas and their retentivity					
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional		512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration					
Slots					

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Technical specifications (continued)

Article number	6AG4142-.....-....	6AG4025-0...0-...0	6AG4131-3....-....	6AG4132-0....-....	6AG4133-0....-....
	SIMATIC IPC BX-39A	SIMATIC IPC527G (Box PC)	SIMATIC IPC627E (Box PC)	SIMATIC IPC BX-56A (Box PC)	SIMATIC IPC BX-59A (Box PC)
• free slots		1x PCIe (x16), optional 1x PCIe (x1), 2x PCI additionally	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer		1 slot: 1x PCI Express (x16) gen 4 (16 lanes); 2 slots: 1x PCI Express (x16) gen 4 (16 lanes) and 1x PCI Express (x4) gen 3 (4 lanes); 4 slots: 1x PCI Express (x16) gen 4 (16 lanes) and 2x PCI Express gen 4 (4 lanes) and 1x PCI Express gen 3 (4 lanes); 6 slots: 2x PCI Express (x16) gen 4 (8 lanes) and 2 x PCI Express (x4) gen 4 (4 lanes)
Interfaces					
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)	3; 3x Gigabit Ethernet (IE/PN), RJ45 optional; 2x Gigabit Ethernet (IE/PN), RJ45 basic configuration	3; 3x Ethernet (RJ45)	2; 2x Gigabit Ethernet (RJ45)	4; 4x Gigabit Ethernet (RJ45)
Number of PROFINET interfaces		3; 2 ports base configuration, 3 ports optional			
USB port	4x USB 3.2 Gen2	4x USB 3.0, 1x USB 2.0 internal, 2x USB 2.0 optional	6x USB 3.1 Gen. 2 (2x type C)	2x USB 3.2 GEN2 10G Type A, 2x USB 3.2 GEN1 5G Type A	1x USB 3.2 Gen2 10G Type C, 6x USB 3.2 Gen 2 10G Type A
Connection for keyboard/mouse	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB
serial interface	1x / 2x (optional) COM (RS 232 / 485 / 422; selectable)	2x RS 232 / 485 / 422 combined, 2x RS 232 optional	1x COM	2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)	2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)
Multimedia					
• Audio In/Out		Yes		Yes	Yes
• Microphone In		Yes			
Video interfaces					
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit	1x DisplayPort, 1x VGA	2x DisplayPort; 1x DVI-D	2x DisplayPort	2x DisplayPort
Industrial Ethernet					
• Industrial Ethernet interface	4x Ethernet (RJ45)	2x Ethernet (RJ45), 1x Ethernet (RJ45) additional option	3x Ethernet (RJ45)	2x Gigabit Ethernet (RJ45)	4x Gigabit Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information					
LED status display	1x power, 3x user	POWER, HDD	1x power, 3x user	base module (1x power, 3x user, 1x HDD)	base module (1x power, 3x user, 1x SSD), extension module (4 slots: 2x SSD; 6 slots: 3x SSD)
Integrated Functions					
Monitoring functions					
• Temperature monitoring	Yes		Yes	Yes	Yes
• Watchdog	Yes		Yes	Yes	Yes
• Fan	No		Yes	Yes	Yes
• Monitoring function via network	Optional		Optional	Optional	Optional
EMC					
Interference immunity against discharge of static electricity					
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact; ±8 kV air (to IEC 61000-4-2, ESD)	±6 kV contact; ±8 kV air (to IEC 1000-4-2; ESD)

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Technical specifications (continued)

Article number	6AG4142-.....-....	6AG4025-0...0-...0	6AG4131-3....-....	6AG4132-0....-....	6AG4133-0....-....
	SIMATIC IPC BX-39A	SIMATIC IPC527G (Box PC)	SIMATIC IPC627E (Box PC)	SIMATIC IPC BX-56A (Box PC)	SIMATIC IPC BX-59A (Box PC)
Interference immunity against high-frequency electromagnetic fields					
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6		10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m, 80 MHz to 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2.7 GHz to 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference					
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge		±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	burst: ±2 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable ≥ 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m	burst: ±2 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable ≥ 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst		±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	burst: ±1 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable < 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m	burst: ±1 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable < 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m
Interference immunity against voltage surge					
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-5, surge asymmetric		
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric		±1 kV acc. to IEC 61000-4-5, surge symmetric		
Interference immunity to magnetic fields					
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8		100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference					
• Interference emission via line/AC current cables	IEC 61000-6-3, IEC 61000-6-4, CAN/CSA CISPR 32 Class B, FCC Class A		EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Compliance with line harmonic distortion limits					
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3				Yes; EN 61000-3-2 Class D; EN 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection					
IP degree of protection	IP20		IP20	IP20 with fan or extension modules, IP40 without fan	IP20 with fan or extension modules, IP40 without fan
IP (at the front)		IP20			

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Technical specifications (continued)

Article number	6AG4142-.....-....	6AG4025-0...0-...0	6AG4131-3....-....	6AG4132-0....-....	6AG4133-0....-....
	SIMATIC IPC BX-39A	SIMATIC IPC527G (Box PC)	SIMATIC IPC627E (Box PC)	SIMATIC IPC BX-56A (Box PC)	SIMATIC IPC BX-59A (Box PC)
IP (rear)		IP20			
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes; also UKCA	Yes; also UKCA
UKCA mark	Yes				
CSA approval	Yes	Yes; No. 61010-1-12, No. 61010-2-201			
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972	Yes	Yes		
• UL 508	No				
cULus	Yes	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes		
EAC (formerly Gost-R)	Yes	Yes	Yes		
FCC	Yes	Yes	Yes	Yes	Yes
BSMI	No; in preparation		Yes		
BIS	Yes			Yes; 400 W DC power supply configuration only (base module, base module + extension module 1/2 slot)	Yes; 400 W DC power supply configuration only (base module, base module + extension module 1/2 slot)
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B, FCC Class A, KN32		CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005	EMC EN 61000-6-1, EN IEC 61000-6-1, EN 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4	EMC EN 61000-6-1, EN IEC 61000-6-1, EN 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4
Use in hazardous areas					
• cULus Class I Zone 2, Division 2			Yes; Optional		
Marine approval					
• Germanischer Lloyd (GL)	Yes				
• American Bureau of Shipping (ABS)	Yes		Yes; Only with SSD		
• Bureau Veritas (BV)	Yes		Yes; Only with SSD		
• Det Norske Veritas (DNV)	Yes		Yes; Only with SSD		
• Korean Register of Shipping (KRS)	Yes		Yes; Only with SSD		
• Lloyds Register of Shipping (LRS)	Yes		Yes; Only with SSD		
• Nippon Kaiji Kyokai (Class NK)	Yes		Yes; Only with SSD		
• Chinese Classification Society (CCS)			Yes; Only with SSD		
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	5 °C	0 °C	0 °C
• max.	55 °C	45 °C	55 °C	55 °C; base module only: 40 °C at fanless and 2.5" non power loss protection SSD configuration; 50 °C at fanless and M.2 SSD configuration; with exenstion module: 40°C	55 °C; base module only: 40 °C at fanless and 2.5" non power loss protection SSD configuration; 50 °C at fanless and M.2 SSD configuration; with exenstion module: 40°C
Altitude during operation relating to sea level					
• Installation altitude above sea level, max.	3 000 m				
Relative humidity					

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Technical specifications (continued)

Article number	6AG4142-.....-....	6AG4025-0...0-...0	6AG4131-3....-....	6AG4132-0....-....	6AG4133-0....-....
	SIMATIC IPC BX-39A	SIMATIC IPC527G (Box PC)	SIMATIC IPC627E (Box PC)	SIMATIC IPC BX-56A (Box PC)	SIMATIC IPC BX-59A (Box PC)
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%	8 ... 85 % at 30 °C, no condensation	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 5 % to 85 % at 30 °C (no condensation) storage: 5 % to 95 % at 25 °C / 55 °C (no condensation)	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 5 % to 85 % at 30 °C (no condensation) storage: 5 % to 95 % at 25 °C / 55 °C (no condensation)
• Operation, max.	85 %				
Vibrations					
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s²	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)	tested in accordance with IEC 60068-2-6; operation - base module (5 to 8.4 Hz: 3.5 mm; 8.4 to 200 Hz: 9.8 m/s²); extension module w/o storages (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); extension module with SSD (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); storage / transport - 5 to 8.4 Hz: 3.5 mm; 8.4 to 500 Hz: 9.8 m/s²	tested in accordance with IEC 60068-2-6; operation - base module (5 to 8.4 Hz: 3.5 mm; 8.4 to 200 Hz: 9.8 m/s²); extension module w/o storages (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); extension module with SSD (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); storage / transport - 5 to 8.4 Hz: 3.5 mm; 8.4 to 500 Hz: 9.8 m/s²
Shock testing					
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	Tested in accordance with IEC 60068-2-27: With SSD: 150 m/s², 11 ms; with HDD: 9.8 m/s², 20 ms	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks	tested in accordance with IEC 60068-2-27; operation - base module (150 m/s², 11 ms); extesion module (10 m/s², 20 ms); storage / transport - 250 m/s², 6 ms	tested in accordance with IEC 60068-2-27; operation - base module (150 m/s², 11 ms); extesion module (10 m/s², 20 ms); storage / transport - 250 m/s², 6 ms
Operating systems					
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS	Windows 7 Ultimate (Multi-Language) 32-bit / 64-bit; Windows 10 Enterprise 2016 LTSB	Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC
Additional info on operating system		Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)			
without operating system	Yes; Optional	Yes	Yes; Optional	Yes; Optional	Yes; Optional
Software					
SIMATIC Software	Optional package with SIMATIC WinCC				optionally with pre-installed Industrial Edge - SIMATIC
Mechanics/material					
Enclosure material (front)	Continuous-cast aluminum				
Dimensions					
Width	262 mm	260 mm	314 mm	79 mm	79 mm; 116 mm with extension module 1 slot, 138 mm with extension module 2 slots, 225 mm with extension module 4 slots, 280 mm with extension module 6 slots
Height	139.7 mm	135 mm	93 mm; For variant 5x PCI(e): 155 mm	194 mm	194 mm

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Technical specifications (continued)

Article number	6AG4142-.....-....	6AG4025-0...0-...0	6AG4131-3....-....	6AG4132-0....-....	6AG4133-0....-....
	SIMATIC IPC BX-39A	SIMATIC IPC527G (Box PC)	SIMATIC IPC627E (Box PC)	SIMATIC IPC BX-56A (Box PC)	SIMATIC IPC BX-59A (Box PC)
Depth	62.6 mm	225 mm	301 mm; incl. mounting rail	237 mm	237 mm; 237 mm base module without fan module and with / without extension module 1 slot, 307 mm base module with fan module and with / without extension module 1/2 slots, 402 mm with extension module 4/6 slots

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Overview



The SIMATIC IOT2050 is the reliable, open platform designed for the acquisition, processing and transfer of data directly in the production environment.
It is ideally suited for use as a gateway between the cloud or company IT level and production.

The openness of the system in supporting numerous communication protocols and programming in high-level languages enables tailored solutions.

Openness for industrial IOT applications

- Wide range of options for programming in high-level languages
- Implementation of flexible communication solutions with different protocols, from Modbus RTU, OPC UA, all the way to cloud protocols such as MQTT/AMQP
- Use of open source application examples and libraries
- SIMATIC Industrial OS, via OSD + free "ISAR" Debian via download

More information is available on the internet at this link

Selection and ordering data

SIMATIC IOT2050	
2 x GB Ethernet RJ45; DisplayPort; 2x USB 2.0, 24 V DC industrial power supply	
• Hard disk: 1x microSD card slot; memory: DDR4-SDRAM 1 GB	**6ES7647-0BA00-0YA2**
• Hard disk: 16 GB eMMc 1x microSD card slot; memory: DDR4-SDRAM 2 GB	**6ES7647-0BA00-1YA2**
• Hard disk: 16 GB eMMc, 1x M.2, SD card slot	**6ES7647-0BB00-1YA2**
• Hard disk: 1x USB2.0; 4 GB DDR, 16 GB eMMc; SD card slot; 24 V DC industrial power supply	**6ES7647-0BB00-1YA2**

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Technical specifications

Article number	6ES7647-0BA00-0-YA2	6ES7647-0BA00-1-YA2	6ES7647-0BW00-1-YA2	6ES7647-0BB00-1-YA2	6ES7647-0CA00-1-AA2	6ES7647-0CW00-1-AA2
	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050
General information						
Product type designation	IOT2050	IOT2050	IOT2050	IOT2050	IOT2050 SM	IOT2050 SM
Installation type/mounting						
Design	IoT Gateway, built-in unit	IoT Gateway, built-in unit	IoT Gateway, built-in unit	IoT Gateway, built-in unit	IoT Gateway, built-in unit	IoT Gateway, built-in unit
Supply voltage						
Type of supply voltage	12/24 V DC	12/24 V DC	12/24 V DC	12/24 V DC	24 V DC	24 V DC
Mains buffering						
• Mains/voltage failure stored energy time	5 ms	5 ms	5 ms	5 ms	5 ms	5 ms
Processor						
Processor type	ARM TI AM6528 GP	ARM TI AM6548 HS	ARM TI AM6548 HS	ARM TI AM6548 HS	ARM TI AM6548 HS	ARM TI AM6548 HS
Graphic						
Graphics controller	Integrated	Integrated		Integrated	Integrated	Integrated
Graphics card	Yes	Yes	Yes			
Drives						
Slot for drives	1x microSD card slot	1x microSD card slot	1x microSD card slot	1x microSD card slot	1x microSD card slot	1x microSD card slot
Storage						
Type of memory	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4
Main memory	1 GB RAM	2 GB RAM	2 GB RAM	2 GB RAM	4 GB RAM	4 GB RAM
Digital inputs						
Number of digital inputs	20	20		20		
Input voltage						
• Type of input voltage	DC	DC		DC		
Digital outputs						
Number of digital outputs	20	20				
Output voltage						
• Type of output voltage	DC	DC				
• permissible voltage at output, min.	3.3 V	3.3 V				
• permissible voltage at output, max.	5 V	5 V				
Analog inputs						
Number of analog inputs		6				
Input ranges						
• Voltage		Yes; 0 ... 5 V		Yes; 0 ... 5 V		
Interfaces						
Interfaces/bus type					1x S7 1200 SM with plug-in connector	1x S7 1200 SM with plug-in connector
Number of industrial Ethernet interfaces	2	2	2		2	2
Number of PROFINET interfaces	2	2	2	2		
serial interface	1x COM (1x RS 232 / 422 / 485)	1x COM (1x RS 232 / 422 / 485)	1x COM (1x RS 232 / 422 / 485)	1x COM (1x RS 232 / 422 / 485)	1x COM (1x RS 232 / 422 / 485)	1x COM (1x RS 232 / 422 / 485)
Video interfaces						
• Graphics interface	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort		
Industrial Ethernet						
• Industrial Ethernet interface						
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information						
LED status display	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Functions						
Monitoring functions						
• Temperature monitoring	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6ES7647-0BA00-0-YA2	6ES7647-0BA00-1-YA2	6ES7647-0BW00-1-YA2	6ES7647-0BB00-1-YA2	6ES7647-0CA00-1-AA2	6ES7647-0CW00-1-AA2
	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050	SIMATIC IoT2050
• Fan					No	No
Degree and class of protection						
IP degree of protection	IP20	IP20	IP20	IP20	IP20	IP20
IP (all-round)	IP20	IP20	IP20	IP20	IP20	IP20
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes		Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes		
FCC	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	-20 °C	-20 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity						
• Operation, max.	85 %	85 %	85 %	85 %	85 %	85 %
Vibrations						
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s²	tested according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s²	Tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (0.25 g)	tested according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s²	tested in accordance with IEC 60068-2-6 operation: vibration load 1 g, 10 cycles per axle: • 5 to 8.4 Hz, deflection 3.5 mm • 8.4 to 200 Hz, acceleration 9.8 m/s² storage / transport : • 5 to 8.4 Hz: deflection 3.5 mm • 8.4 Hz to 500 Hz: acceleration 9.8 m/s²	tested in accordance with IEC 60068-2-6 operation: vibration load 1 g, 10 cycles per axle: • 5 to 8.4 Hz, deflection 3.5 mm • 8.4 to 200 Hz, acceleration 9.8 m/s² storage / transport : • 5 to 8.4 Hz: deflection 3.5 mm • 8.4 Hz to 500 Hz: acceleration 9.8 m/s²
Operating systems						
pre-installed operating system	No	SIMATIC Industrial OS	Edge OS	SIMATIC Industrial OS	SIMATIC Industrial OS	SIMATIC Industrial Edge Device OS
without operating system	Yes	No	No	No		
Mechanics/material						
Enclosure material (front)	plastic	plastic	plastic	plastic	plastic	plastic
• plastic	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	No	No	No	No		
Dimensions						
Width	37 mm	37 mm	37 mm	37 mm	37 mm	37 mm
Height	142 mm	142 mm	142 mm	142 mm	142 mm	142 mm
Depth	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm

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Overview



SIMATIC IPC BX-21A:
Ultra-compact IoT gateway for data collection, preprocessing and forwarding of data. Due to the ultra-compact enclosure, which has a volume of just 0.4 liters, the SIMATIC IPC BX-21A can be easily – even subsequently – integrated into the control cabinet or directly on the machine with minimal space requirements.

The enclosed all-metal enclosure enables the new industrial PC to be used flexibly and maintenance-free even under harsh conditions. Thus the SIMATIC IPC BX-21A makes it possible to reliably record / collect / process / transfer data directly in the production environment and can be flexibly used as an IoT gateway between the cloud or the corporate IT level and production.

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Selection and ordering data

SIMATIC IPC BX-21A (Box PC) [1]	6AG4021-0B	❑	0	0	-	❑	A	❑	❑
Processor / RAM									
• Atom X6413E (2-core) / 4 GB RAM (available soon)		A							
• Atom X6413E (2-core) / 8 GB RAM (available soon)		B							
• Atom X6413E (4-core) / 8 GB RAM		C							
• Atom X6413E (4-core) / 16 GB RAM		D							
Drives									
• 128 GB Eco SSD						1			
• 256 GB Eco SSD						2			
• 512 GB Eco SSD (available soon)						3			
• 1 TB Eco SSD (available soon)						4			
Operating system									
• None								A	
• Windows 10 IoT Enterprise 2021 LTSC, MUI (en, de, es, fr, it)								B	
• SIMATIC Industrial OS (available soon)								E	
• Industrial Edge – SIMATIC (available soon)								W	
USB flash drive									
• Without USB flash drive (restore image; D&D)									1
• With USB flash drive (restore image; D&D)									2

1) For an up-to-date overview, see the SIMATIC PC Online Configurator: http://www.siemens.com/ipc-configurators

Note:

Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

Note:

All configurations of the SIMATIC IPC BX-21A do not include any mounting accessories. They must be ordered separately.

Mounting accessories	
DIN rail	**6AG4021-0AA20-0AA1**
Wall mounting	**6AG4021-0AA20-0AA2**
Portrait mounting	**6AG4021-0AA20-0AA4**
Portrait mounting DIN rail	**6AG4021-0AA20-0AA5**
VESA mounting	**6AG4021-0AA20-0AA6**

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Technical specifications

Article number	6AG4021-0B.00-.A.. SIMATIC IPC BX-21A
General information	
Product type designation	IPC BX-21A
Installation type/mounting	
Mounting	DIN rail, wall mounting, book mounting, VESA mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Processor	
Processor type	Intel Atom X6413E
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 128 GB
Storage	
Type of memory	LPDDR4 onboard
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Watchdog	Yes
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m for 2.7 - 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV according to IEC 61000-4-4, burst
• Interference immunity on signal cables >30m	±2 kV according to IEC 61000-4-4, burst
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, line to earth
• symmetric interference	±1 kV acc. to IEC 61000-4-5, line to line
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-3 + A1/ CISPR 32 + A1
Degree and class of protection	
IP degree of protection	IP40

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Technical specifications (continued)

Article number	6AG4021-0B.00-.A.. SIMATIC IPC BX-21A
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C
• max.	50 °C
Relative humidity	
• Relative humidity	max. 85% at 30 °C, no condensation, gradient <= 10 °C/h
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2021 LTSC, 64-bit, MUI
without operating system	Yes; Optional
Dimensions	
Width	85 mm
Height	104 mm
Depth	45 mm

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Overview



SIMATIC IPC127E:
Ultra-compact IoT gateway for data collection, preprocessing, and forwarding of data

Thanks to the ultra-compact enclosure, which has a volume of just 0.3 liters, the SIMATIC IPC127E can be easily – even subsequently – integrated into the control cabinet or directly on the machine with minimal space requirements.

The enclosed all-metal enclosure enables the new industrial PC to be used flexibly and maintenance-free even under harsh conditions. Thus the SIMATIC IPC127E makes it possible to reliably record / collect / process / transfer data directly in the production environment and can be flexibly used as an IoT gateway between the cloud or the corporate IT level and production. Thanks to pre-configured versions, the right product is available to users in a very short time.

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Selection and ordering data

SIMATIC IPC127E	6AG4021-0A	❑	1	❑	-	❑	❑	❑	0
Processor / RAM / TPM									
• Atom E3930 (2C/2T) / 2 GB RAM		A							
• Atom E3940 (4C/4T) / 4 GB RAM		B							
• Atom E3930 (2C/2T) / 2 GB RAM / TPM		C							
• Atom E3940 (4C/4T) / 4 GB RAM / TPM		D							
Box type									
• Basic version; 2x Ethernet RJ45, 2x USB 3.0				1					
• Extended version; 3x Ethernet RJ45, 4x USB 3.0				2					
Operating system									
• None						0			
• Windows 10 IoT Enterprise 2016 LTSC, 64-bit, MUI (en, de, fr, it, es)						1			
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)						2			
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)						3			
Drives									
• 32 GB SSD							A		
• 64 GB SSD							B		
• 128 GB SSD							C		
SIMATIC Software									
• Without SIMATIC Software								A	
• Industrial Edge - SIMATIC								B	
• Industrial Edge - SINUMERIK								C	

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

SIMATIC IPC127E	
Configuration 1 • Processor / RAM: 2 core / 2 GB RAM • Box type: Base • Operating system: None • Drive: 32 GB SSD	**6AG4021-0AA11-0AA0**
Configuration 2 • Processor / RAM: 2 core / 2 GB RAM • Box type: Extended • Operating system: None • Drive: 64 GB SSD	**6AG4021-0AA12-0BA0**
Configuration 3 • Processor / RAM: 4 core / 4 GB RAM • Box type: Base • Operating system: None • Drive: 64 GB SSD	**6AG4021-0AB11-0BA0**
Configuration 4 • Processor / RAM: 4 core / 4 GB RAM • Box type: Extended • Operating system: None • Drive: 128 GB SSD	**6AG4021-0AB12-0CA0**
Configuration 5 • Processor / RAM: 2 core / 2 GB RAM • Box type: Base • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 64 GB SSD	**6AG4021-0AA11-1BA0**

SIMATIC IPC127E	
Configuration 6 • Processor / RAM: 4 core / 4 GB RAM • Box type: Base • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 64 GB SSD	**6AG4021-0AB11-1BA0**
Configuration 7 • Processor / RAM: 4 core / 4 GB RAM • Box type: Base • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 128 GB SSD	**6AG4021-0AB11-1CA0**
Configuration 8 • Processor / RAM: 4 core / 4 GB RAM • Box type: Extended • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 64 GB SSD	**6AG4021-0AB12-1BA0**
Configuration 9 • Processor / RAM: 4 core / 4 GB RAM • Box type: Extended • Operating system: Windows 10 Enterprise 2016 LTSB, 64-bit, MUI • Drive: 128 GB SSD	**6AG4021-0AB12-1CA0**

Note:
All configurations of the SIMATIC IPC127E do not include any mounting accessories. They must be ordered separately.

Mounting accessories	
DIN rail	**6AG4021-0AA20-0AA1**
Wall-mount	**6AG4021-0AA20-0AA2**
Book-mount Base	**6AG4021-0AA20-0AA3**
Book-mount Extended	**6AG4021-0AA20-0AA4**
Book-mount DIN-Rail	**6AG4021-0AA20-0AA5**

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Technical specifications

Article number	6AG4021-0A.1.-..A0 SIMATIC IPC127E
General information	
Product type designation	IPC127E
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Processor	
Processor type	Intel Atom E3930 / E3940
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 32 / 64 / 128 GB
Storage	
Type of memory	DDR4 onboard
Main memory	2 / 4 GB RAM
Interfaces	
Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45)
USB port	2x USB 3.0 / 4x USB 3.0
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	2x / 3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to 2.7 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4; burst); ±0,5 kV (according to IEC 61000-4-5; surge pulse/line to line); ±1 kV (according to IEC 61000-4-5; surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric

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Technical specifications (continued)

Article number	6AG4021-0A.1.-..A0 SIMATIC IPC127E
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-4:2007 +A1:2011 (industrial environments), EN 61000-6-3:2007 +A1:2011 (residential environments), CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Relative humidity	5 ... 85 % at 30 °C, no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI
without operating system	Yes; Optional

Article number	6AG4021-0AA11-0AA0 SIMATIC IPC127E	6AG4021-0AA12-0BA0 SIMATIC IPC127E	6AG4021-0AB11-0BA0 SIMATIC IPC127E	6AG4021-0AB12-0CA0 SIMATIC IPC127E
General information				
Product type designation	IPC127E	IPC127E	IPC127E	IPC127E
Installation type/mounting				
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage				
Type of supply voltage	24 V DC	24 V DC	24 V DC	24 V DC
Mains buffering				
• Mains/voltage failure stored energy time	5 ms	5 ms	5 ms	5 ms
Processor				
Processor type	Intel Atom E3930, 1.3 GHz, 2 cores	Intel Atom E3930, 1.3 GHz, 2 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores
Graphic				
Graphics card	Yes	Yes	Yes	Yes
Drives				
SSD	Yes; 32 GB	Yes; 64 GB	Yes; 64 GB	Yes; 128 GB
Storage				
Type of memory	DDR4	DDR4	DDR4	DDR4
Main memory	2 GB RAM	2 GB RAM	4 GB RAM	4 GB RAM
Interfaces				
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)	3; 3x Ethernet (RJ45)	2; 2x RJ45 (independent)	3; 3x Ethernet (RJ45)
Number of PROFINET interfaces	2	3	2	3
Video interfaces				
• Graphics interface	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort

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Technical specifications (continued)

Article number	6AG4021-0AA11-0AA0 SIMATIC IPC127E	6AG4021-0AA12-0BA0 SIMATIC IPC127E	6AG4021-0AB11-0BA0 SIMATIC IPC127E	6AG4021-0AB12-0CA0 SIMATIC IPC127E
Industrial Ethernet				
• Industrial Ethernet interface				
- 100 Mbps	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes
Protocols				
Protocols (Ethernet)				
• TCP/IP	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information				
LED status display	1x power, 3x user	1x power, 3x user	1x power, 3x user	1x power, 3x user
Integrated Functions				
Monitoring functions				
• Temperature monitoring	Yes	Yes	Yes	Yes
• Fan	No	No	No	No
Degree and class of protection				
IP degree of protection	IP40	IP40	IP40	IP40
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
Dust protection	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Vibrations				
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s^2
Operating systems				
pre-installed operating system	No	No	No	No
Dimensions				
Width	85 mm	85 mm	85 mm	85 mm
Height	85 mm	104 mm	85 mm	104 mm
Depth	41 mm	41 mm	41 mm	41 mm

Article number	6AG4021-0AA11-1BA0 SIMATIC IPC127E	6AG4021-0AB11-1BA0 SIMATIC IPC127E	6AG4021-0AB11-1CA0 SIMATIC IPC127E	6AG4021-0AB12-1BA0 SIMATIC IPC127E	6AG4021-0AB12-1CA0 SIMATIC IPC127E
General information					
Product type designation	IPC127E	IPC127E	IPC127E	IPC127E	IPC127E
Installation type/mounting					
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage					
Type of supply voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Mains buffering					
• Mains/voltage failure stored energy time	5 ms	5 ms	5 ms	5 ms	5 ms
Processor					
Processor type	Intel Atom E3930, 1.3 GHz, 2 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores	Intel Atom E3940, 1.6 GHz, 4 cores
Graphic					
Graphics card	Yes	Yes	Yes	Yes	Yes
Drives					
SSD	Yes; 64 GB	Yes; 64 GB	Yes; 128 GB	Yes; 64 GB	Yes; 128 GB
Storage					
Type of memory	DDR4	DDR4	DDR4	DDR4	DDR4

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Technical specifications (continued)

Article number	6AG4021-0AA11-1BA0	6AG4021-0AB11-1BA0	6AG4021-0AB11-1CA0	6AG4021-0AB12-1BA0	6AG4021-0AB12-1CA0
	SIMATIC IPC127E	SIMATIC IPC127E	SIMATIC IPC127E	SIMATIC IPC127E	SIMATIC IPC127E
Main memory	2 GB RAM	4 GB RAM	4 GB RAM	4 GB RAM	4 GB RAM
Interfaces					
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)
Number of PROFINET interfaces	2	2	2	3	3
Video interfaces					
• Graphics interface	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort
Industrial Ethernet					
• Industrial Ethernet interface					
- 100 Mbps	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes
Protocols					
Protocols (Ethernet)					
• TCP/IP	Yes	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information					
LED status display	1x power, 3x user	1x power, 3x user	1x power, 3x user	1x power, 3x user	1x power, 3x user
Integrated Functions					
Monitoring functions					
• Temperature monitoring	Yes	Yes	Yes	Yes	Yes
• Fan	No	No	No	No	No
Degree and class of protection					
IP degree of protection	IP40	IP40	IP40	IP40	IP40
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes
Dust protection	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C	55 °C
Vibrations					
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²
Operating systems					
pre-installed operating system	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Dimensions					
Width	85 mm	85 mm	85 mm	85 mm	85 mm
Height	85 mm	85 mm	85 mm	104 mm	104 mm
Depth	41 mm	41 mm	41 mm	41 mm	41 mm

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Overview



SIMATIC IPC227G (Nanobox PC): The Box PC with optimized performance in compact design – maintenance-free, rugged and expandable

The SIMATIC IPC227G Nanobox PC is an extremely compact and flexible embedded industrial PC.
Due to its closed, dust-protected all-metal enclosure, the IPC227G offers maximum industrial functionality for flexible use under harsh conditions – while remaining maintenance-free.
Modern interfaces and the option of two M.2 slots allow this Box PC to be easily integrated into the automation system and expanded.
The latest Intel Dual-Core and Quad-Core processors ensure excellent performance here in an ultra-compact design.

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Selection and ordering data

SIMATIC IPC227G	6ES7647-8C	❑	❑	❑	-	❑	❑	❑	❑
Processor									
• Atom X6211E (2-core)		A							
• Atom X6413E (4-core)		B							
• Atom X6414RE (4-core)		C							
• Atom X6211E (2-core)/TPM		D							
• Atom X6413E (4-core)/TPM		E							
• Atom X6414RE (4-core)/TPM		F							
Work memory									
• 4 GB			1						
• 8 GB			2						
• 16 GB			3						
Hardware configuration									
• Without COM				1					
• 1x COM				2					
• 2x COM				3					
Mass storage									
• Without mass storage						1			
• 256 GB Eco SSD						2			
• 240 GB SSD						3			
• 480 GB SSD						4			
Hardware extension									
• None							A		
• NVRAM							B		
• AI accelerator							C		
Software									
• Without software								A	
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)								B	
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)								C	
• Industrial Edge - SIMATIC								W	
Mounting accessories									
• None									0
• DIN rail									1
• Wall mounting									2
• Portrait mounting									3
• DIN rail mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									4
• Wall mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									5
• Portrait mounting with ATEX/IECEx Cat 3G Zone 2/cULus Class I Div. 2									6

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

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Technical specifications

Article number	6ES7647-8C...-.... SIMATIC IPC227G
General information	
Product type designation	IPC227G
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption, max.	1.9 A
Inrush current, max.	2.5 A
Processor	
Processor type	Intel Atom X6413E
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco
Storage	
Type of memory	DDR4 SO-DIMM
Hardware configuration	
Slots	
• free slots	2x M.2
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	

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Technical specifications (continued)

Article number	6ES7647-8C...-.... SIMATIC IPC227G
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BIS	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Dust protection	Protection against foreign bodies > 1 mm
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Chinese Classification Society (CCS)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional
Dimensions	
Width	191 mm
Height	100 mm
Depth	64 mm

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Overview



SIMATIC IPC327G

The new SIMATIC IPC327G is a cost-optimized platform with the most up-to-date Intel® Atom processor technology. The design with multiple interfaces can be used for different applications, for example, logistics, electronics, etc.
It is characterized in particular by a large number of interfaces for easy connection to existing and new systems, fast availability from stock, as well as a fanless industrial design.

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Selection and ordering data

SIMATIC IPC327G	6AG4022-0B	❑	❑	❑	-	❑	❑	❑	❑
2x DisplayPort graphics interface 2x 10/100/1 000 Mbps Ethernet RJ45 4 x USB 3.0; 3 x USB 2.0; 4 x serial ports (COM)									
Processor									
• Intel Atomx6413E (4-core) / audio		A							
• Intel Atomx6413E (4-core) / TPM / audio		B							
• Intel Atomx6413E (4-core)		C							
• Intel Atomx6413E (4-core) audio		D							
Work memory									
• 4 GB RAM			2						
• 8 GB RAM			3						
• 16 GB RAM			4						
Expansions/interfaces									
• 2x COM				1					
• 4x COM				2					
Operating system									
• None						0			
• Windows 10 IOT Enterprise LTSC 2019, 64-bit MUI (en, de, fr, it, es)						2			
Drives									
• None							A		
• 256G Eco SSD							B		
• 512G Eco SSD							C		
Power supply									
• 24 V DC								A	
Mounting accessories									
• Standard									1
• DIN rail									2

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

For an up-to-date overview, see the SIMATIC IPC online configurator at this link.

Preferred variants (available ex stock) SIMATIC IPC327G	
Configuration 1 Processor: Intel Atomx6413E (up to 3.0 GHz)/ without audio Drives (SATA): without mass storage, Main memory: 4 GB DRAM (1x 4 GB), Without operating system	**6AG4022-0BC21-0AA1**
Configuration 2 Processor: Intel Atomx6413E (up to 3.0 GHz)/ without audio Drives (SATA): 256G Eco SSD, Main memory: 4 GB DRAM (1x 4 GB) Windows 10 Enterprise LTSC 2019, 64-bit, MUI (en, de, fr, it, es)	**6AG4022-0BC21-2BA1**
Configuration 3 Processor: Intel Atomx6413E (up to 3.0 GHz)/ without audio Drives (SATA): without mass storage, Main memory: 8 GB DRAM (1x 8 GB); Without operating system	**6AG4022-0BC31-0AA1**

Preferred variants (available ex stock) SIMATIC IPC327G	
Configuration 4 Processor: Intel Atomx6413E (up to 3.0 GHz)/ without audio Drives (SATA): 256G Eco SSD, Main memory: 8 GB DRAM (1x 8 GB) Windows 10 Enterprise LTSC 2019, 64-bit, MUI (en, de, fr, it, es)	**6AG4022-0BC31-2BA1**

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Technical specifications

Article number	6AG4022-0B...-.... SIMATIC IPC327G
General information	
Product type designation	IPC327G
Installation type/mounting	
Mounting	Rail or wall mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Atom X6413E
Drives	
SSD	Yes; 256 GB SSD/512 GB SSD
Storage	
Type of memory	DDR4
Main memory	4 GB, 8 GB,16 GB
Hardware configuration	
Slots	
• free slots	2x M.2
Interfaces	
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
USB port	4x USB 3.1; 3x USB 2.0
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes

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Technical specifications (continued)

Article number	6AG4022-0B...-.... SIMATIC IPC327G
BSMI	Yes
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C; without M.2 module
Relative humidity	
• Relative humidity	5 ... 85 % at 30 °C, no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	58 Hz to 200 Hz: 4.9 m/s²; tested according to IEC 60068-2-6
Shock testing	
• Shock load during operation	with SSD: 150 m/s², 11 ms, 5 g, 30 ms, tested accordance with IEC 60068-2-27
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional
Dimensions	
Width	254 mm
Height	132 mm
Depth	73 mm

Article number	6AG4022-0BC21-0AA1 SIMATIC IPC327G	6AG4022-0BC21-2BA1 SIMATIC IPC327G	6AG4022-0BC31-2BA1 SIMATIC IPC327G
General information			
Product type designation	IPC327G	IPC327G	IPC327G
Installation type/mounting			
Mounting	Rail or wall mounting	Rail or wall mounting	Rail or wall mounting
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage			
Type of supply voltage	24 V	24 V	24 V
Mains buffering			
• Mains/voltage failure stored energy time	20 ms	20 ms	20 ms
Processor			
Processor type	Intel Atom X6413E	Intel Atom X6413E	Intel Atom X6413E
Drives			
SSD	Yes; 256 GB SSD/512 GB SSD	Yes; 256 GB SSD/512 GB SSD	Yes; 256 GB SSD/512 GB SSD
Storage			
Type of memory	DDR4	DDR4	DDR4
Main memory	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB
Interfaces			
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)
Video interfaces			
• Graphics interface	2x DisplayPort	2x DisplayPort	2x DisplayPort
Industrial Ethernet			
• Industrial Ethernet interface			
- 100 Mbps	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes
Protocols			
Protocols (Ethernet)			
• TCP/IP	Yes	Yes	Yes
Interrupts/diagnostics/status information			
LED status display	POWER, HDD	POWER, HDD	POWER, HDD
Integrated Functions			
Monitoring functions			
• Temperature monitoring	Yes	Yes	Yes
• Fan	No	No	No

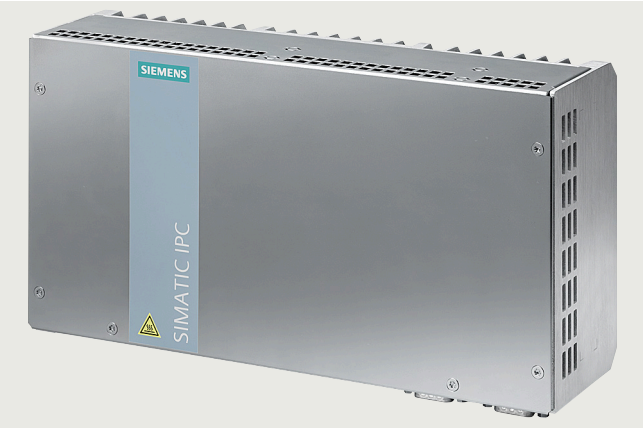
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Technical specifications (continued)

Article number	6AG4022-0BC21-0AA1 SIMATIC IPC327G	6AG4022-0BC21-2BA1 SIMATIC IPC327G	6AG4022-0BC31-2BA1 SIMATIC IPC327G
Degree and class of protection			
IP degree of protection	IP40	IP40	IP40
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
CSA approval	Yes	Yes	Yes
UL approval	Yes	Yes	Yes
KC approval	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes
FCC	Yes	Yes	Yes
BSMI	Yes	Yes	Yes
Dust protection	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	55 °C; without M.2 module	55 °C; without M.2 module	55 °C; without M.2 module
Vibrations			
• Vibration resistance during operation acc. to IEC 60068-2-6	58 Hz to 200 Hz: 4.9 m/s²; tested according to IEC 60068-2-6	58 Hz to 200 Hz: 4.9 m/s²; tested according to IEC 60068-2-6	58 Hz to 200 Hz: 4.9 m/s²; tested according to IEC 60068-2-6
Operating systems			
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional	Yes; Optional	Yes; Optional
Dimensions			
Width	254 mm	254 mm	254 mm
Height	132 mm	132 mm	132 mm
Depth	73 mm	73 mm	73 mm

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Overview



SIMATIC IPC BX-32A

SIMATIC IPC BX-32A: The cost and function-optimized alternative to SIMATIC IPC BX-39A
Turnkey overall solution:

- Ultra-compact
- Maintenance-free
- Intel CPU technology of the 11th generation

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Selection and ordering data

SIMATIC IPC BX-32A (Box PC)	6AG4152-	❑	❑	❑	-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Standard device															
Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T)															
Without mounting accessories															
4 GB															
M.2 SSD 256 GB Eco															
Without SSD2															
Windows 10 IoT Enterprise 2021 LTSC															
Without option 1															
With USB flash drive (restore image; D&D)															
9-36 V DC industry power supply (wide range)															
Processor															
• Intel Celeron 6600HLE (2.1 GHz, 2C/2T)						1									
• Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T)						3									
Mounting/extension															
• Without mounting accessories							A								
• DIN rail							B								
• Wall mounting							C								
• Portrait mounting							D								
• DIN rail and 1 x PCIe							F								
• Wall mounting and 1 x PCIe							G								
• Portrait mounting and 1 x PCIe							H								
Work memory															
• 4 GB								A							
• 8 GB								B							
• 16 GB								C							
• 32 GB								D							
SSD1 (with operating system)															
• Without SSD1									0						
• M.2 SSD 256 GB Eco									1						
• M.2 SSD 512 GB Eco									2						
SSD2															
• Without SSD2										0					
Software configuration															
• Without operating system												0			
• Windows 10 IoT Enterprise 2021 LTSC												1			
Option 1															
• Without option 1													A		
• Additive 1 x Com (RS232/485/422) (3 in total)													B		
• Additive 1 x Com (RS232/485/422) (4 in total)													C		
Option 2															
• With USB flash drive (restore image; D&D)														B	
Power supply															
• 9-36 V DC industry power supply (wide range)															1

1) For an up-to-date overview, see the SIMATIC IPC online configurator at this link
2) TPM = Trusted Platform Module

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

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Technical specifications

Article number	6AG4152-.....-.... SIMATIC IPC BX-32A
General information	
Product type designation	BX-32A
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	9 - 36 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD ≥ 240 GB
SSD	Yes
Storage	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Gigabit Ethernet (IE/PN), RJ45
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	No
• Watchdog	No
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric

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Technical specifications (continued)

Article number	6AG4152-.....-.... SIMATIC IPC BX-32A
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-3, IEC 61000-6-4, CAN/CSA CISPR 32 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E472609
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	No
FCC	Yes
BSMI	No; in preparation
BIS	Yes
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B, FCC Class A, KN32
Use in hazardous areas	
• ATEX Zone 2	No
• IECEx Zone 2	No
• cULus Class I Zone 2, Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	No
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Korean Register of Shipping (KRS)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 000 m
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms

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Technical specifications (continued)

Article number	6AG4152-.....-.... SIMATIC IPC BX-32A
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Industrial OS
without operating system	Yes; Optional
Mechanics/material	
Enclosure material (front)	Continuous-cast aluminum
Dimensions	
Width	255 mm
Height	133 mm
Depth	75 mm

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Overview



The new SIMATIC IPC BX-35A with integrated GPU in a compact industrial design is specially designed for AI-based applications in industrial environments. SIMATIC Industrial OS with Linux-based OS is also available.

With the innovative NVIDIA® Jetson Orin™ NX processor, the theoretical AI performance of the IPC BX-35A is significantly better than that of its predecessor IPC520A.

The IPC BX-35A is characterized by high CPU and GPU computing power in combination with a compact design without fan for industrial applications. A large number of interfaces have been implemented to adapt to industrial applications.

Selection and ordering data

SIMATIC IPC BX-35A (Box PC)	6ES7	6	4	7	-	0	J	C	❑	❑	-	0	J	❑	2
Standard device															
4x Gbe RJ45 with PoE, 3x USB 3.1 type A, 1x USB 2.0 micro USB, 1x DP1.4 1x RS232/RS422/RS485, 4x DI 4x DO, 1x CAN FD 3x M.2 expansion slot															
SOM															
• Nvidia Orin NX 8 GB 50 TOPS (INT8)									1						
• Nvidia Orin NX 8 GB 50 TOPS (INT8)									2						
Memory															
• Without memory										0					
• M.2 SSD 256 GB										1					
• M.2 SSD 512 GB										2					
• M.2 SSD 1 TB										3					
Operating system															
• Without operating system														A	
• SIMATIC Industrial OS														B	

Note:

Select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

The SIMATIC IPC online configurator offers a current overview at this link

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Technical specifications

Article number	6ES7647-0JC..-.... SIMATIC IPC BX-35A
General information	
Product type designation	IPC BX-35A
Installation type/mounting	
Mounting	rail mounting, wall mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	rated 12 to 24 V DC, range 9 to 36 V DC
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Graphic	
Graphics controller	1024 core NVIDIA Ampere GPU with 32 Tensor Core
Drives	
SSD	Yes
Storage	
Type of memory	LPDDR5
Hardware configuration	
Slots	
• free slots	1x nano SIM card slot
Digital inputs	
Number of digital inputs	4
Input voltage	
• Type of input voltage	24 V DC
• for signal "0"	< 5 V DC
• for signal "1"	> 12 V DC
Input current	
• for signal "0", max. (permissible quiescent current)	1 mA
• for signal "1", typ.	2.5 mA
Digital outputs	
Type of digital output	transistor
Number of digital outputs	4
Short-circuit protection	No
Output voltage	
• Type of output voltage	DC
• permissible voltage at output, min.	20.4 V
• permissible voltage at output, max.	28.8 V
Output current	
• for signal "1" rated value	0.5 A
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	0.5 Hz
• mechanical, max.	10 Hz
Interfaces	
Number of industrial Ethernet interfaces	4; 4x RJ45 (4x support PoE PSE IEEE 802.3af 30 W total)
USB port	3x USB 3.1 Gen1 5 GB/s + 1x USB 2.0
Connection for keyboard/mouse	USB / USB
serial interface	1x COM (1x RS 232 / 422 / 485)
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	4x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes

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Technical specifications (continued)

Article number	6ES7647-0JC..-.... SIMATIC IPC BX-35A
Interrupts/diagnostics/status information	
LED status display	1x Power, 1x User, 8x DIO
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	burst: ±2 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable ≥ 30 m
• Interference immunity on signal cables < 30m	burst: ±1 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable < 30 m
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-4, CAN/CSA CISPR 32 class A, FCC class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	No
UL approval	Yes; UL 61010-2-201, UL 61010-1
• UL 508	No
cULus	Yes; UL 61010-1, UL 61010-2-201
FM approval	No
RCM (formerly C-TICK)	Yes; C-Tick
KC approval	No; in preparation
EAC (formerly Gost-R)	No
CCC	No
FCC	Yes
BSMI	No; in preparation
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; 15 W CPU, 30 W PoE, 3 W M.2 M-KEY, 3 W M.2 B-KEY or 2.5 W M.2 E-KEY, USB
• max.	50 °C; 15 W CPU, 30 W PoE, 3 W M.2 M-KEY, 3 W M.2 B-KEY or 2.5 W M.2 E-KEY, USB
Relative humidity	
• Relative humidity	5 ... 85 % at 30 °C, no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	SIMATIC Industrial OS optional

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Technical specifications (continued)

Article number	6ES7647-0JC..-.... SIMATIC IPC BX-35A
Additional info on operating system	in preparation
without operating system	Yes
Dimensions	
Width	196 mm
Height	131 mm
Depth	70 mm

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Overview



SIMATIC IPC BX-39A

SIMATIC IPC BX-39A (Microbox PC): The powerful embedded IPC – maintenance-free with versatile configuration
The overall turnkey solution:

- Ultra-compact
- Maintenance-free
- Intel CPU technology of the 11th generation

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Selection and ordering data

SIMATIC IPC BX-39A (Box PC) [1]	6AG4142-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processor											
• Intel® Celeron® 6600HLE 2 cores/2 threads, 2.1 GHz, 8 MB cache, TCC		1									
• Intel® Xeon® W-11155MLE 4 cores/8 threads, 1.8 (3.1) GHz, 8 MB cache, ECC, TCC		3									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		5									
• Intel® Xeon® W-11865MLE 8 cores/16 threads, 1.5 (4.5) GHz, 24 MB cache, vPro, ECC, TCC		7									
Mounting accessories/extension											
• Without mounting accessories			A								
• DIN rail			B								
• Wall mounting			C								
• Portrait mounting			D								
• 1 x PCIe and DIN rail mounting			F								
• 1 x PCIe and wall mounting			G								
• 1 x PCIe and portrait mounting			H								
• 2 x PCIe and DIN rail mounting			J								
• 2 x PCIe and wall mounting			K								
• 2 x PCIe and portrait mounting			L								
Work memory/ECC											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 32 GB				D							
• 16 GB with ECC				E							
• 32 GB with ECC				F							
• 8 GB and NVRAM (M.2 module)				G							
• 16 GB and NVRAM (M.2 module)				H							
• 32 GB and NVRAM (M.2 module)				J							
• 16 GB with ECC and NVRAM (M.2 module)				K							
• 32 GB with ECC and NVRAM (M.2 module)				L							
1st mass storage in SIMATIC Slider (incl. OS)											
• Without 1st mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
• M.2 SSD 240 GB					4						
• M.2 SSD 480 GB					5						
• M.2 SSD 960 GB					6						
• RAID1 with SSD 512 GB Eco (SSD 2 with 512 GB Eco required)					8						
2nd mass storage in SIMATIC Slider											
• Without 2nd mass storage						0					
• M.2 SSD 256 GB Eco						1					
• M.2 SSD 512 GB Eco						2					
• M.2 SSD 240 GB						4					
• M.2 SSD 480 GB						5					
• M.2 SSD 960 GB						6					
Operating system											
• Without operating system (Edge option with operating system)							0				
• Windows 10 Enterprise 2021 LTSC with Celeron, Xeon W-11155MLE, Xeon W-11555MLE processors							1				
• Windows 10 Enterprise 2021 LTSC with W-11865MLE processor							2				
• SIMATIC Industrial OS							7				
Option 1											
• Without option 1								A			
• With 1 x Com (RS232/485/422)								B			
Option 2											
• Restore stick image with D&D and software image (if selected) Only via OSD (Online Portal)										A	
• USB Restore stick image with D&D and software image (if selected)										B	
Power supply											

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Selection and ordering data (continued)

SIMATIC IPC BX-39A (Box PC) [1]	6AG4142-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• 24 V DC industry power supply (Premium, NAU, isolated, "bridging time")											0
• 24 V DC industry power supply (Premium, NAU, isolated, "bridging time") with ATEX											7

1) For an up-to-date overview, see the SIMATIC IPC online configurator at this link

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

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Technical specifications

Article number	6AG4142-.....-.... SIMATIC IPC BX-39A
General information	
Product type designation	BX-39A
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption (rated value)	5 A; at 24 V DC and without load
Current consumption, max.	5 A; At 24 V DC
Inrush current, max.	75 A
Processor	
Processor type	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD 256 GB Eco
SSD	Yes
Storage	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	1x / 2x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	4x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	

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Technical specifications (continued)

Article number	6AG4142-.....-.... SIMATIC IPC BX-39A
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-3, IEC 61000-6-4, CAN/CSA CISPR 32 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	No; in preparation
BIS	Yes
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B, FCC Class A, KN32
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 000 m
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²
Shock testing	

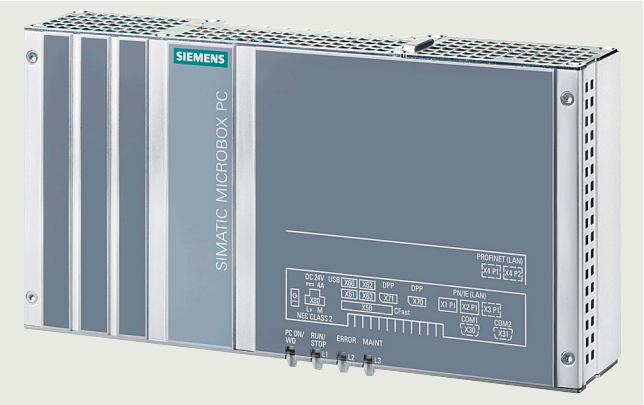
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Technical specifications (continued)

Article number	6AG4142-.....-.... SIMATIC IPC BX-39A
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS
without operating system	Yes; Optional
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Mechanics/material	
Enclosure material (front)	Continuous-cast aluminum
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	62.6 mm

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Overview



SIMATIC IPC427E (Microbox PC): The powerful embedded IPC – maintenance-free with versatile configuration

Ready-to-run, complete solution:

- Ultra-compact
- Maintenance-free
- 6th Generation Intel Core i technology

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Selection and ordering data

SIMATIC IPC427E (Box PC) [1]	6AG4141-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processor and fieldbus											
• Celeron G3902E; 2 x Gigabit Ethernet (IE/PN)		0									
• Celeron G3902E; 3 x Gigabit Ethernet (IE/PN)		1									
• Core i3-6102E; 3 x Gigabit Ethernet (IE/PN)		3									
• Core i5-6442EQ; 3 x Gigabit Ethernet (IE/PN)		5									
• Xeon E3-1505L; 3 x Gigabit Ethernet (IE/PN)		7									
Mounting accessories/ATEX											
• Without mounting accessories			A								
• DIN rail mounting			B								
• Wall mounting			C								
• Portrait mounting			D								
• DIN rail mounting with ATEX/IECEx/UL HazLoc			F								
• Wall mounting with ATEX/IECEx/UL HazLoc			G								
• Portrait mounting with ATEX/IECEx/UL HazLoc			H								
Work memory/NVRAM/ECC											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 8 GB with ECC				D							
• 16 GB with ECC				E							
• 4 GB and NVRAM				F							
• 8 GB and NVRAM				G							
• 16 GB and NVRAM				H							
• 8 GB with ECC and NVRAM				J							
• 16 GB with ECC and NVRAM				K							
Expansions/interfaces											
• No RS232/RS485, without PCIe					0						
• No RS232/RS485 and one PCIe					1						
• No RS232/RS485 and two PCIe					2						
• Two RS232/RS485, without PCIe					3						
• Two RS232/RS485 and one PCIe					4						
• Two RS232/RS485 and two PCIe					5						
• Two RS232/RS485 and two PCIe (x4 and x1), PCI x4 occupied with AI Accelerator					6						
Operating system											
• Without operating system						0					
• Windows Embedded Standard 7 SP1, English, 32-bit						1					
• Windows Embedded Standard 7 SP1, English, 64-bit						2					
• Windows Embedded Standard 7 SP1, English, 64-bit, multi-touch						3					
• Windows 7 Ultimate SP1, 64-bit, MUI (en, de, fr, it, es)						4					
• Windows 10 IoT Enterprise 2019 LTSC (64-bit) for Celeron, Core i3 and Core i5 processors						5					
• Windows 10 IoT Enterprise 2019 LTSC (64-bit) for Xeon processor						6					
• Windows 10 Enterprise 2016 LTSB (64-bit) for Celeron, Core i3 and Core i5 processors						7					
• Windows 10 Enterprise 2016 LTSB (64-bit) for Xeon processor						8					
Mass storage, externally accessible											
• Without external mass storage								0			
• CFast 2 GB without operating system								1			
• CFast 4 GB without operating system								2			
• CFast 8 GB (only optionally with operating system/software if no internal mass storage or HDD)								3			
• CFast 16 GB (only optionally with operating system/software if no internal mass storage or HDD)								4			
• CFast 128 GB (only optionally with operating system/software if no internal mass storage or HDD)								5			
Mass storage, internal											
• Without internal mass storage									A		
• 256 GB Eco solid-state drive									D		
• 240 GB solid-state drive SATA									F		

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Selection and ordering data (continued)

SIMATIC IPC427E (Box PC) [1]	6AG4141-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• 480 GB solid-state drive SATA									G		
• 320 GB HDD									J		
SIMATIC Software											
• Without SIMATIC Software										A	
• SIMATIC Industrial OS V2										N	
• Industrial Edge - SINUMERIK										V	
• SINUMERIK PCU Base V14.0 on IPC										X	
Power supply											
• 24 V DC industrial power supply											0
• 24 V DC and TPM [2]											8

1) For an up-to-date overview, see the SIMATIC IPC online configurator at this link
2) TPM = Trusted Platform Module

Preferred versions	
SIMATIC IPC427E (Microbox PC), Celeron G3902E; work memory 4 GB; Windows 7 Ultimate SP1, 64-bit, MUI (en, de, es, fr, it); HD graphics onboard, 4x USB V3.0 (High Current), PCIE (optional), 3x Gbit Ethernet (IE/PN) without mounting accessories; without RS232/485; 1x PCIe (x4); without removable mass storage; internal mass storage: SATA 240 GB solid-state drive; without SIMATIC Software; 24 V DC industrial power supply	**6AG4141-1AA14-0FA0**
SIMATIC IPC427E (Microbox PC), Celeron G3902E; work memory 4 GB; Windows 10 IoT Enterprise 2016 LTSB (64-bit) f. Celeron I3/I5; HD graphics onboard, 4x USB V3.0 (High Current), PCIE (optional), 3x Gbit Ethernet (IE/PN) without mounting accessories; without RS232/485; 1x PCIe (x4); without removable mass storage; internal mass storage: SATA 240 GB solid-state drive; without SIMATIC Software; 24 V DC industrial power supply	**6AG4141-1AA17-0FA0**
SIMATIC IPC427E (Microbox PC), Core i5-6442EQ; work memory 8 GB; Windows 7 Ultimate SP1, 64-bit, MUI (en, de, es, fr, it); HD graphics onboard, 4x USB V3.0 (High Current), PCIE (optional), 3x Gbit Ethernet (IE/PN) without mounting accessories; without RS232/485; 1x PCIe (x4); without removable mass storage; internal mass storage: SATA 240 GB solid-state drive; without SIMATIC Software; 24 V DC industrial power supply	**6AG4141-5AB14-0FA0**

Preferred versions	
SIMATIC IPC427E (Microbox PC), Core i5-6442EQ; work memory 8 GB; Windows 10 IoT Enterprise 2016 LTSB (64-bit) f. Celeron I3/I5; HD graphics onboard, 4x USB V3.0 (High Current), PCIE (optional), 3x Gbit Ethernet (IE/PN) without mounting accessories; without RS232/485; 1x PCIe (x4); without removable mass storage; internal mass storage: SATA 240 GB solid-state drive; without SIMATIC Software; 24 V DC industrial power supply	**6AG4141-5AB17-0FA0**
SIMATIC IPC427E (Microbox PC), Core i5-6442EQ; DIN rail mounting; 16 GB; Industrial Edge – SIMATIC; without PCIe; without operating system; HD graphics onboard, 4x USB V3.0 (High Current), PCIE (optional), 3x Gbit Ethernet (IE/PN); 2x RS232/485; without removable mass storage; SATA 240 GB solid-state drive; 24 V DC industrial power supply and TPM	**6AG4141-5BC30-0FW8**

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

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Technical specifications

Article number	6AG4141-.....-.... SIMATIC IPC427E (MicroBOX PC)
General information	
Product type designation	IPC427E
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V; PELV / SELV floating
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots	2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer
Interfaces	
Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 485 / 422; switchable)
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6

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Technical specifications (continued)

Article number	6AG4141-.....-.... SIMATIC IPC427E (MicroBOX PC)
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 55022A, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas	
• ATEX Zone 2	Yes; for inscription on device rating plate
• ATEX Zone 22	No
• IECEx Zone 2	Yes; for inscription on device rating plate
• IECEx Zone 22	No
• CCC Ex	Yes; for inscription on device rating plate
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate
• cULus Class II Division 2	No
• FM Class I Division 2	No
• FM Class II Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
• Shock load during operation	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks

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Technical specifications (continued)

Article number	6AG4141-.....-....
	SIMATIC IPC427E (MicroBOX PC)
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional
Software	
Pre-installed software	Edge SW (Simatic, Sinumerik), optional
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	55.5 mm; without PCIe

Article number	6AG4141-1AA17-0FA0	6AG4141-5AB17-0FA0	6AG4141-5BC30-0FW8
	SIMATIC IPC427E (MicroBOX PC)	SIMATIC IPC427E (MicroBOX PC)	SIMATIC IPC427E (MicroBOX PC)
General information			
Product type designation	IPC427E	IPC427E	IPC427E
Installation type/mounting			
Mounting			standard rail
Design			Box PC, built-in unit
Supply voltage			
Type of supply voltage	24 V DC	24 V DC	24 V DC
Mains buffering			
• Mains/voltage failure stored energy time			20 ms
Processor			
Processor type	Celeron G3902E	Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB cache)	Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB cache)
Chipset			Intel C236 / Intel H110
Graphic			
Graphics controller			Intel HD graphics controller
Graphics card	Yes	Yes	
Drives			
SSD			Yes; ≥ 240 GB optional
Storage			
Type of memory			DDR4-2400 SO-DIMM
Interfaces			
Number of industrial Ethernet interfaces	3	3	3; Ethernet (2x RJ45, optional 3x RJ45)
Number of PROFINET interfaces	3	3	
serial interface			2x COM (1x RS 232; 1x RS 232 / 422 / 485)
Video interfaces			
• Graphics interface			2x DisplayPort
Industrial Ethernet			
• Industrial Ethernet interface			
- 100 Mbps			Yes
- 1000 Mbps			Yes
Interrupts/diagnostics/status information			
LED status display			1x power, 3x user
Integrated Functions			
Monitoring functions			
• Temperature monitoring			Yes
• Fan			No
• Monitoring function via network			Optional
Degree and class of protection			
IP degree of protection	IP20	IP20	IP20

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Technical specifications (continued)

Article number	6AG4141-1AA17-0FA0 SIMATIC IPC427E (MicroBOX PC)	6AG4141-5AB17-0FA0 SIMATIC IPC427E (MicroBOX PC)	6AG4141-5BC30-0FW8 SIMATIC IPC427E (MicroBOX PC)
Standards, approvals, certificates			
CE mark			Yes
UL approval			Yes
• UL 508			Yes
cULus			Yes
RCM (formerly C-TICK)			Yes
KC approval			Yes
EAC (formerly Gost-R)			Yes
FCC			Yes
Use in hazardous areas			
• ATEX Zone 2			Yes; Optional
• IECEx Zone 2			Yes; Optional
• cULus Class I Zone 2, Division 2			Yes; Optional
Marine approval			
• Germanischer Lloyd (GL)			Yes
• American Bureau of Shipping (ABS)			Yes
• Bureau Veritas (BV)			Yes
• Det Norske Veritas (DNV)			Yes
• Korean Register of Shipping (KRS)			Yes
• Lloyds Register of Shipping (LRS)			Yes
• Nippon Kaiji Kyokai (Class NK)			Yes
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	55 °C
Vibrations			
• Vibration resistance during operation acc. to IEC 60068-2-6			tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Operating systems			
pre-installed operating system	Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI	Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI	SIMATIC Industrial OS
Dimensions			
Width	262 mm	262 mm	262 mm
Height	133 mm	133 mm	139.69999 mm
Depth	55.5 mm	55.5 mm	55.5 mm; without PCIe

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Overview

The SIMATIC IPC BX-53A is an industrial BOX PC.
It offers:

- Optimized price
- High performance
- Intel Core i technology of the 10th generation

Selection and ordering data

SIMATIC IPC BX-53A	6AG4026 -	0	❑	❑	❑	❑	-	1	❑	❑	1
Full metal enclosure for high electromagnetic compatibility and mechanical ruggedness, 7 expansion slots for PC cards, dust protection through overpressure ventilation, front LEDs: POWER											
Processor											
• Intel Pentium G6400 (2C/4T, 4.0 GHz, 4 MB cache)			A								
• Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB cache)			B								
• Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB cache)			C								
• Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB cache)			D								
Memory											
• 1 TB HDD				A							
• 2x1 TB HDD				B							
• 256 GB SSD				C							
• 512 GB SSD				D							
• 1 TB HDD + 256 GB SSD				E							
RAM											
• 4 GB DDR4 RAM					0						
• 8 GB DDR4 RAM					1						
• 16 GB DDR4 RAM					2						
• 32 GB DDR4 RAM					3						
• 64 GB DDR4 SDRAM (2 x 32 GB DDR4 SDRAM)					4						
• 128 GB DDR4 SDRAM (4 x 32 GB DDR4 SDRAM)					5						
Type of enclosure											
• Compact enclosure, 350 W						3					
• Compact enclosure, 650 W						4					
Operating system											
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit; [for Pentium/Core i3/i5 processors]									A		
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit; [for Core i7/i9 processor]									B		
• None									X		
USB flash drive											
• Standard - without USB flash drive (D&D)										A	
• With USB flash drive (D&D)										B	

Note:
Select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

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Technical specifications

Article number	6AG4026-0....-...0 SIMATIC IPC BX-53A SMART
General information	
Product type designation	BX-53A SMART
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Supply voltage	
Type of supply voltage	100 - 240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Pentium 6400 (2C/4T, 4.0 GHz, 4 MB Cache) / Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) / Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache) / Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache) / Intel Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache)
Chipset	Intel Q470
Drives	
Hard disk	HDD & SSD
Storage	
Type of memory	4x non-ECC UDIMM slots for DDR4
Main memory	4 GB to 128 GB DDR4 2666 SDRAM DIMM, ECC optional
Hardware configuration	
Slots	
• free slots	2x PCI, 3x PCIe*4, 2x PCIe*16
Interfaces	
Connection for keyboard/mouse	PS/2 or USB; PS/2 or USB
serial interface	1x RS232 on I/O shield, 2x RS232 on rear panel, 1x RS232 pin header and 1x RS232 / 422 / 485 pin header on mainboard
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	1x VGA, 1x DVI-D, 1x HDMI
Industrial Ethernet	
• Industrial Ethernet interface	
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference	

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Technical specifications (continued)

Article number	6AG4026-0....-...0 SIMATIC IPC BX-53A SMART
• Interference emission via line/AC current cables	IEC 61000-6-4, CISPR 22, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	20
IP (rear)	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	40 °C
Operating systems	
without operating system	Yes
Dimensions	
Width	316 mm
Height	164 mm
Depth	380 mm

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Overview

The SIMATIC IPC BX-53B is an industrial BOX PC.
It offers:

- Optimized price
- High performance
- Intel Core i technology of the12th Generation

Selection and ordering data

SIMATIC IPC BX-53B	6AG4062 - 1	❑	❑	❑	❑	-	❑	❑	❑	❑
All-metal housing for high EM compatibility and mechanical robustness,7 expansion slot for PC cards, dust protection by overpressure ventilation, front LEDs: POWER										
Processor										
• Intel Core i3-12100E (4C/8T, 4.2 GHz, 12 MB Cache), H 610 M/B		C								
• Intel Core i5-12500E (6C/12T, 4.5 GHz, 18 MB Cache), H 610 M/B		D								
• Intel Core i7-12700E (12C/20T,4.8 GHz, 25 MB Cache), H 610 M/B		F								
• Intel Core i3-12100E (4C/8T, 4.2 GHz, 12 MB Cache), Q670 M/B		J								
• Intel Core i5-12500E (6C/12T, 4.5 GHz, 18 MB Cache), Q670 M/B		K								
• Intel Core i7-12700E (12C/20T,4.8 GHz, 25 MB Cache), Q670 M/B		M								
• Intel Core i9-12900E (16C/24T, 5 GHz, 30 MB Cache), Q670 M/B		N								
Drives										
• 1 TByte HDD			A							
• 2x1TByte HDD			B							
• 2256 GByte SSD			C							
• 512GByte SSD			D							
• 1TB SSD			E							
• 1TB HDD+256G SSD			F							
• RAID 2X 512G SSD 2.5"			G							
• RAID 2X1TB SSD 2.5"			H							
• RAID 2X 2TB HDD 3.5"			J							
RAM										
• 4 GB DDR4 RAM				0						
• 8 GB DDR4 RAM				1						
• 16 GB DDR4 RAM				2						
• 32 GB DDR4 RAM				3						
• 64GB DDR4 SDRAM(2x32GB DDR4 SDRAM)				4						
• 128GB DDR4 SDRAM(4x32GB DDR4 SDRAM)(only for Q670 M/B)				5						
Type of housing										
• Compact chassis, 350W					3					
• Compact chassis, 650W					4					
Extension										
• 2 additional COM and 2 additional USB H610 chipset M/B							0			
• 2 additional COM and 4 additional USB Q670 chipset M/B							1			
Operating System										
• Windows 10 IoT Enterprise 2021 LTSC,64 bit;[for processors Petium/Core i3 / i5]								A		
• Windows 10 IoT Enterprise 2021 LTSC, 64 bit;[for processor Core i7/i9]								B		
• W/O operating system								X		
USB Stick										
• Default - without USB-Stick(D&D)									A	
• With USB Stick(D&D)									B	
Power code										
• China Power code										0
• Without Power code										1

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Overview



SIMATIC IPC BX-54A features a unique "Small while Powerful" DNA, impressing customers with its compact industrial design and outstanding performance.

Three product variants are offered to meet various customer scenarios

- Compact variant
- Flexible variant
- AI variant

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Selection and ordering data

SIMATIC IPC BX-54A [1]	6AG4134-1	❑	❑	❑	❑	-	❑	❑	❑	❑
SIMATIC IPC BX-54A (box PC); Intel Gen 13 CPU 65W; NVIDIA MXM GPU 60W; min. 4x Gigabit Ethernet; min. 4x USB 3.2 Gen 2; min. 2x DP; 9-36 V PSU; options: Raid, flex module, PoE;										
Processor										
• Intel Core i3-13100E		A								
• Intel Core i5-13500E		B								
• Intel Core i7-13700E		C								
• Intel Core i9-13900E		D								
SSD 1 (incl. OS)										
• 512 GB SSD [Eco] M.2 NVMe			A							
• 1 TB SSD [Eco] M.2 NVMe			B							
• 480 GB SSD [Enterprise] M.2 NVMe			E							
• 960 GB SSD [Enterprise] M.2 NVMe			F							
• RAID1 2x 512 GB SSD [Eco] M.2 NVMe (SSD 2 with 512 GB SSD [Eco] M.2 NVMe)			N							
• RAID1 2x 1 TB SSD [Eco] M.2 NVMe (SSD 2 with 1 TB SSD [Eco] M.2 NVMe)			P							
SSD 2										
• Without SSD 2				0						
• 512 GB SSD [Eco] M.2 NVMe				1						
• 1 TB SSD [Eco] M.2 NVMe				2						
RAM										
• 8 GB DDR5 SO-DIMM (1x 8GB)					0					
• 16 GB DDR5 SO-DIMM (1x 16GB)					1					
• 32 GB DDR5 SO-DIMM (1x 32GB)					2					
• 16 GB DDR5 SO-DIMM (2x 8GB)					3					
• 32 GB DDR5 SO-DIMM (2x 16GB)					4					
• 64 GB DDR5 SO-DIMM (2x 32GB)					5					
• 16 GB DDR5 SO-DIMM (1x 16GB), ECC					6					
• 32 GB DDR5 SO-DIMM (1x 32GB), ECC					7					
• 64 GB DDR5 SO-DIMM (2x 32GB), ECC					8					
Device variant										
• Compact variant: 3x 2.5GB LAN (2x PoE); 1x 1GB LAN; 4x USB 3.2; 2x Display port							0			
• Flexible variant: 3x 2.5GB LAN (2x PoE); 1x 1GB LAN; 4x USB 3.2; 2x Display port; 2x Flexmodule-slots							1			
• AI variant: 7x 2.5GB LAN (6x PoE); 1x 1GB LAN; 7x USB 3.2; 6x Display port; 1x Flexmodule-slot; without GPU card							2			
• AI variant: 7x 2.5GB LAN (6x PoE); 1x 1GB LAN; 7x USB 3.2; 6x Display port; 1x Flexmodule-slot; NVIDIA-MXM-GPU-Card-A2000							3			
Hardware extension										
• Without extension								A		
• 1x M.2 NVRAM								B		
Software configuration										
• Without operating system, without USB-Stick (Restore-Image; D&D)									A	
• Windows 11 IoT Enterprise 2024 LTSC Value (Core i3 or Core i5) with USB-Stick (Restore-Image; D&D)									B	
• Windows 11 IoT Enterprise 2024 LTSC High End (Core i7 or Core i9) with USB-Stick (Restore-Image; D&D)									C	
• Windows 11 IoT Enterprise 2024 LTSC Value (Core i3 or Core i5) without USB-Stick (Restore-Image; D&D)									F	
• Windows 11 IoT Enterprise 2024 LTSC High End (Core i7 or Core i9) without USB-Stick (Restore-Image; D&D)									G	
Mounting										
• Without mounting material										0
• DIN-rail-horizontal mount										1
• DIN-rail-vertical mount										2
• Wall mount										3
• Book mount										4

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Technical specifications

Article number	6AG4134-1....-.... SIMATIC IPC BX-54A (Box PC)
General information	
Product type designation	BX-54A
Installation type/mounting	
Mounting	DIN rail vertical mounting, DIN rail horizontal mounting, Book mounting, Wall mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	9 - 36 V DC
Rated value (DC)	24 V; 12 V DC 220 W, 24 V DC 320 W
Mains buffering	
• Mains/voltage failure stored energy time	20 ms; 20 ms for compact and flexible variants. 10 ms for AI variant.
Processor	
Processor type	Intel® Core® i3-13100E, 60 W, 4 Cores (4P+0E) /8 Threads, 3.3 (4.4) GHz, 12 MB Cache, vPro, ECC, TCC; Intel® Core® i5-13500E, 65 W, 14 Cores (6P+8E) /20 Threads, 2.4 (4.6) GHz, 24 MB Cache, vPro, ECC, TCC; Intel® Core® i7-13700E, 65 W, 16 Cores (8P+8E) /24 Threads, 1.9 (5.1) GHz, 30 MB Cache, vPro, ECC, TCC; Intel® Core® i9-13900E, 65 W, 24 Cores (8P+16E) /32 Threads, 1.8 (5.2) GHz, 36 MB Cache, vPro, ECC, TCC
Chipset	Intel R680E
Graphic	
Graphics controller	Intel® UHD Graphics 730 for i3, 770 for i5/i7/i9. 2x DisplayPort 1.4, max. resolution 4096 x 2160 @60 Hz; NVIDIA® Ampere RTX A2000. 4x DisplayPort 1.4, max. resolution 7680 x4320 @60 Hz DSC
design of the graphics card	Embedded MXM GPU Module with NVIDIA RTX™ A2000
Graphics card	Yes; Optional
Drives	
SSD	Yes; 2 x M.2 NVME onboard SSD, Key M, 512/1024 GB, 480/960 GB PLP
Storage	
Type of memory	DDR5-5200 SO-DIMM
Main memory	8 / 16 / 32 / 64 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
• free slots	2 x M.2 (optional)
Interfaces	
Number of industrial Ethernet interfaces	4; additional 4 for AI variant
USB port	4 × USB 3.2 Gen 2 for compact, flexible and AI variants. Additional 3 × USB 3.2 Gen 1 for AI variant.
Connection for keyboard/mouse	USB / USB
Multimedia	
• Audio In/Out	No
• Microphone In	No
Video interfaces	
• Graphics interface	2 x DisplayPort, lockable for compact, flexible and AI variants. Additional 4 x DisplayPort for AI variant, signal from MXM GPU card
Industrial Ethernet	
• Industrial Ethernet interface	4 x Ethernet interface (RJ45) for compact, flexible and AI variants: X1P1-X2P1, 10/100/1000/2500 Mbps, non-isolated PoE, TSN, i226; X3P1, 10/100/1000 Mbps, i210; X4P1, 10/100/1000/2500 Mbps, TSN, i226; additional 4 x Ethernet interface (RJ45) for AI variant: X5P1-X8P1,10/100/1000/2500 Mbps, isolated PoE, TSN, i226
- 100 Mbps	Yes
- 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	1

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Technical specifications (continued)

Article number	6AG4134-1....-.... SIMATIC IPC BX-54A (Box PC)
• number of interfaces (2 500 Mbps)	3; additional 4 for AI variant
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user, 1x SSD
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m for 2.7 - 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4; burst); ±0,5 kV (according to IEC 61000-4-5; surge pulse/line to line); ±1 kV (according to IEC 61000-4-5; surge pulse/line to ground)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	± 1 kV; in accordance with IEC 61000-4-4; burst; length < 30 m
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	RE: 30 to 230 MHz: 40 dB (µV/m) Quasi-peak (3 m distance); 230 to 1 000 MHz: 47 dB (µV/m) Quasi-peak (3 m distance); equivalent of 10 m distance in actual usage. 1 to 3 GHz: 70 dB (µV/m) Peak; 50 dB (µV/m) Average (3 m distance); 3 to 6 GHz: 74 dB (µV/m) Peak; 54 dB (µV/m) Average (3 m distance). CE (Low voltage DC mains port) 0.15 to 0.5 MHz / 79 dB (µV) Q, 66 dB (µV) M; 0.5 to 30 MHz / 73 dB (µV) Q, 60 dB (µV) M; (Telecommunications / Network Port) 0.15 to 0.5 MHz: 84 dB (µV) to 74 dB (µV) Q; 74 dB (µV) to 64 dB (µV) M; 0.5 MHz to 30 MHz: 74 dB (µV) Q / 64 dB (µV) M. acc. to IEC 61000-6-3 + A1
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes; CE marking / EC Declaration of Conformity
UKCA mark	Yes
UL approval	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Relative humidity	
• Relative humidity	max. 85% at 30 °C, no condensation, gradient <= 10 °C/h
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	DIN rail: 10 to 58 Hz: 0.0375 mm 58 to 200 Hz: 4.9 m/s² Non DIN rail 5 to 8.4 Hz: 3.5 mm 8.4 to 500 Hz: 9.8 m/s² Random vibration : only book mounting Vertical: 10-500 Hz, 1.04 g Transverse:10-500 Hz, 0.2 g Longitudinal:10-500 Hz, 0.74 g
Shock testing	
• Shock load during operation	15 g,11 ms: all mounting 20 g, 11 ms: only book mounting

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Technical specifications (continued)

Article number	6AG4134-1....-.... SIMATIC IPC BX-54A (Box PC)
Operating systems	
pre-installed operating system	Windows 11 IoT Enterprise LTSC 2024
without operating system	Yes; Optional
Dimensions	
Width	185 mm
Height	159 mm
Depth	51 mm; compact variant: 51 mm flexible variant: 75 mm AI variant: 99 mm

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Overview



SIMATIC BX-56A (modular box PC): The high-end IPC with high performance, functionality and expansion capability

Industrial PC platform with extremely high industrial compatibility for demanding tasks in the field of PC-based automation.

Rugged construction: The IPC is resistant to even the harshest mechanical stress and extremely reliable in operation.

- Modular design
- High degree of investment security
- High degree of expandability
- High performance with flexibility and scalability
- Intel Core i technology

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Selection and ordering data

SIMATIC IPC BX-56A (Modular Box PC) [1]	6AG4132-0	❑	❑	❑	❑	-	❑	❑	❑	❑
Mainboard (chipset H610E); 2x DP; 1x DVI-D; 2x Gigabit Ethernet (IE/PN) RJ45; 4x USB 3.2 Gen. 2; 2x serial (COM1); watchdog, temperature/fan monitoring										
Processor and power supply:										
• Intel Pentium G7400E, 65 W; 2C/4T, 3.6 GHz, with 9-36 V DC, 220 W power supply		A								
• Intel Core i3-13100TE, 35 W; 4C/8T, 2.4 (4.1) GHz, with 9-36 V DC, 220 W power supply		B								
• Intel Core i5-13500E 14C/20T, 2.4 (4.6) GHz, with 9-36 V DC, 220 W power supply		C								
• Intel Pentium G7400E, 65 W; 2C/4T, 3.6 GHz, with 24 V DC, 400 W power supply		D								
• Intel Core i3-13100TE, 35 W; 4C/8T, 2.4 (4.1) GHz, with 24 V DC, 400 W power supply		E								
• Intel Core i3-13100TE, 35 W; 4C/8T, 2.4 (4.1) GHz, with 9-36 V DC, 400 W power supply (operation without fan possible)		N								
• Intel Core i3-13100TE, 35 W; 4C/8T, 2.4 (4.1) GHz, with 24 V DC, 220 W power supply (operation without fan possible)		P								
• No basic unit, no CPU, no power supply in the basic unit		X								
Drives in the basic unit:										
• Basic unit without drives			A							
• SSD 2.5" SATA 512 GB internal			B							
• SSD 2.5" SATA 1 TB internal			C							
• No basic unit, no drive			X							
Memory configuration:										
• 8 GB DDR5-4800 (1x 8 GB)				0						
• 16 GB DDR5-4800 (1x 16 GB)				2						
• 32 GB DDR5-4800 (1x 32 GB)				4						
• 64 GB DDR5-4800 (2x 32 GB)				6						
• No basic unit, no RAM				8						
Hardware extension (M.2 Flex modules in the basic unit):										
• Without hardware extension (M.2)					0					
• NVRAM (M.2)					1					
Power supply unit cable:										
• No power supply unit cable							0			
Additional software:										
• Basic unit without operating system (without USB flash drive D&D)								A		
• Basic unit without operating system (with USB flash drive D&D)								B		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Pentium, Core i3, Core i5 (without USB flash drive, restore image, D&D)								C		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Pentium, Core i3, Core i5 (without USB flash drive, restore image, D&D)								D		
Expandability of the basic unit (expansion module):										
• EM2: PCIe x 16 gen4 and PCIe x 4									B	
• No expansion module									X	
Additional memory in the expansion module:										
• Expansion module without memory										0
• No expansion module, no EM memory										7

Note:

Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

Accessories

Memory expansion	
• 8 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN70-0SA0**
• 16 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN80-0SA0**
• 32 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN81-0SA0**
Mounting kit for portrait or wall mounting plate	
• Interface outlet to the right	**6ES7648-1AA10-3YB0**

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Technical specifications

Article number	6AG4132-0....-.... SIMATIC IPC BX-56A (Box PC)
General information	
Product type designation	BX-56A
Installation type/mounting	
Mounting	Wall mounting, book mounting, desk mounting, tower mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	400 W / 24 V / 19.2 - 28.8 VDC; 220 W / 12-24 V / 9 - 36 VDC
Rated value (DC)	24 V; 12...24 V DC on 220 W
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Chipset	Intel H610E
Drives	
SSD	Yes
Storage	
Type of memory	DDR5-4800 SO-DIMM
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Gigabit Ethernet (RJ45)
USB port	2x USB 3.2 GEN2 10G Type A, 2x USB 3.2 GEN1 5G Type A
Connection for keyboard/mouse	USB / USB
serial interface	2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)
Multimedia	
• Audio In/Out	Yes
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	2x Gigabit Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	base module (1x power, 3x user, 1x HDD)
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact; ±8 kV air (to IEC 61000-4-2, ESD)
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	burst: ±2 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable ≥ 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m
• Interference immunity on signal cables < 30m	burst: ±1 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable < 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m

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Technical specifications (continued)

Article number	6AG4132-0....-.... SIMATIC IPC BX-56A (Box PC)
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP degree of protection	IP20 with fan or extension modules, IP40 without fan
Standards, approvals, certificates	
CE mark	Yes; also UKCA
cULus	Yes
RCM (formerly C-TICK)	Yes
FCC	Yes
BIS	Yes; 400 W DC power supply configuration only (base module, base module + extension module 1/2 slot)
EMC	EMC EN 61000-6-1, EN IEC 61000-6-1, EN 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C; base module only: 40 °C at fanless and 2.5" non power loss protection SSD configuration; 50 °C at fanless and M.2 SSD configuration; with exenstion module: 40°C
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 5 % to 85 % at 30 °C (no condensation) storage: 5 % to 95 % at 25 °C / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested in accordance with IEC 60068-2-6; operation - base module (5 to 8.4 Hz: 3.5 mm; 8.4 to 200 Hz: 9.8 m/s²); extension module w/o storages (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); extension module with SSD (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); storage / transport - 5 to 8.4 Hz: 3.5 mm; 8.4 to 500 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	tested in accordance with IEC 60068-2-27; operation - base module (150 m/s², 11 ms); extesion module (10 m/s², 20 ms); storage / transport - 250 m/s², 6 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC
without operating system	Yes; Optional
Dimensions	
Width	79 mm
Height	194 mm
Depth	237 mm

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Overview



The SIMATIC IPC527G Box PC is a new product in the SIMATIC Industrial PC portfolio, which is characterized by high performance and flexibility at an extremely attractive price.

Powerful processors (Intel Core i Desktop CPUs), numerous interfaces, and the support of existing systems make the SIMATIC IPC527G a robust and low-cost platform for a wide range of industrial applications.

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Selection and ordering data

SIMATIC IPC527G	6AG4025-0	❑	❑	❑	0	-	❑	❑	❑	0
All-metal enclosure for high EMC and mechanical ruggedness, flexible installation: Desktop, wall, portrait and tower mounting, opening of the enclosure cover for expansion and replacement of PC components (e.g. PC cards or HDD) without a tool, dust protection through overpressure ventilation, front LEDs: POWER, HDD										
Processor										
• Pentium G4400 ((2C/2T) 3.3 GHz, 3 MB cache)		A								
• Core i5-6500 ((4C/4T) 3.2 (3.6) GHz, 6 MB cache)		C								
• Core i7-6700 ((4C/4T) 3.4 (4.0) GHz, 8 MB cache)		D								
Drives										
• 1 TB HDD			B							
• 256 GB SSD			E							
• 512 GB SSD			F							
• Without drive, prepared for 1x 2.5" SATA			L							
Work memory										
• 4 GB DDR4 RAM				1						
• 8 GB DDR4 RAM				2						
• 16 GB DDR4 RAM				3						
Operating system										
• Without operating system							0			
• Windows Ultimate SP1, 32-bit MUI (en, de, fr, es, it)							1			
• Windows Ultimate SP1, 64-bit MUI (en, de, fr, es, it)							2			
• Windows 10 Enterprise LTSB 2016, 64-bit MUI (en, de, fr, es, it) for Pentium, Core i5							3			
• Windows 10 Enterprise LTSB 2016, 64-bit MUI (en, de, fr, es, it) for Pentium Core i7							4			
• Windows 10 Enterprise LTSC 2019, 64-bit MUI (de, en, fr, sp, it) for Pentium, Core i5							5			
• Windows 10 Enterprise LTSC 2019, 64-bit, MUI (de, en, fr, it, es) for Core i7							6			
Expansion										
• 1x PCIe x16								A		
• 1x PCIe x16; 1x PCIe x1; 2x PCI								B		
• 1x PCIe x 16; 1x PCIe x4, 2x PCIe x1								C		
Specific expansions:										
• None									A	
• 2x RS232, 2x USB2.0 additionally									B	
• 1x Gbit LAN additionally (1 PCIe slot occupied)									C	
• 1 x Gbit LAN (1x PCIe slot occupied) and 2x RS232; 2x USB2.0 additionally									D	

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link

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Selection and ordering data (continued)

SIMATIC IPC527G	
All-metal enclosure for high EMC and mechanical ruggedness, flexible installation: Desktop, wall, portrait and tower mounting, opening of the enclosure cover for expansion and replacement of PC components (e.g. PC cards or HDD) without a tool, dust protection through overpressure ventilation, front LEDs: POWER, HDD; slots: 1 x PCIe x16, 1 x PCIe x1, 2 x PCI or 1 x PCIe x16, 1 x PCIe x4, 2 x PCIe x1 interfaces: 4 x USB 3.0, 3 x USB 2.0 (2 x front, 1 x internal), 2 x GB Ethernet, 2x RS232/485/422 selectable, 2x RS232, 1x 8-bit DIO, 1x DP, 1x VGA, audio	
• Intel Pentium G4400, 4 GB RAM, 1 TB HDD mass storage	**6AG4025-0AB10-0BB0**
• Intel Core i5-6500, 8 GB RAM, 1 TB HDD mass storage	**6AG4025-0CB20-0BB0**
• Intel Core i5-6500, 8 GB RAM, 1 TB HDD mass storage, Windows 7 Ultimate	**6AG4025-0CB20-2BB0**
• Intel Core i5-6500, 8 GB RAM, 256 GB SSD mass storage, Windows 7 Ultimate	**6AG4025-0CE20-2BB0**
• Intel Core i5-6500, 8 GB RAM, 256 GB SSD mass storage, Windows 10 Enterprise LTSB 2016	**6AG4025-0CE20-3BB0**
• Intel Core i7-6700, 8 GB RAM, 512 GB SSD mass storage, Windows 7 Ultimate	**6AG4025-0DF20-2BB0**
• Intel Core i7-6700, 8 GB RAM, 512 GB SSD mass storage, Windows 10 Enterprise LTSB 2016	**6AG4025-0DF20-4BB0**
• Intel Core i5-6500, 8 GB RAM, 256 GB SSD mass storage, Windows 10 Enterprise LTSB 2019	**6AG4025-0CE20-5CA0**

SIMATIC IPC527G	
• Intel Core i7-6700, 8 GB RAM, 256 GB SSD mass storage, Windows 10 Enterprise LTSB 2019	**6AG4025-0DE20-6CA0**

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Technical specifications

Article number	6AG4025-0...0-...0 SIMATIC IPC527G (Box PC)
General information	
Product type designation	IPC527G
Installation type/mounting	
Mounting	Wall mounting, portrait mounting, desktop mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100/240V AC (autorange) 50/60 Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Core i7-6700 (4C/8T, 3.4 (4.0) GHz, 8 MB cache); Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache); Pentium G4400 (2C/2T, 3.3 GHz, 3 MB cache)
Chipset	Intel H110
Graphic	
Graphics controller	Onboard Intel HD graphics 530/510 integrated in processor
Drives	
Hard disk	1 TB HDD
SSD	Yes; Optional
Storage	
Type of memory	DDR4-2133 SO-DIMM
Main memory	4 / 8 / 16 GB, supports up to 32 GB
Hardware configuration	
Slots	
• free slots	1x PCIe (x16), optional 1x PCIe (x1), 2x PCI additionally
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Gigabit Ethernet (IE/PN), RJ45 optional; 2x Gigabit Ethernet (IE/PN), RJ45 basic configuration
Number of PROFINET interfaces	3; 2 ports base configuration, 3 ports optional
USB port	4x USB 3.0, 1x USB 2.0 internal, 2x USB 2.0 optional
Connection for keyboard/mouse	USB / USB
serial interface	2x RS 232 / 485 / 422 combined, 2x RS 232 optional
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	1x DisplayPort, 1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45), 1x Ethernet (RJ45) additional option
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes; No. 61010-1-12, No. 61010-2-201
UL approval	Yes
cULus	Yes; UL 61010-1, UL 61010-2-201
RCM (formerly C-TICK)	Yes

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Technical specifications (continued)

Article number	6AG4025-0...0-...0 SIMATIC IPC527G (Box PC)
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Relative humidity	
• Relative humidity	8 ... 85 % at 30 °C, no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s²
Shock testing	
• Shock load during operation	Tested in accordance with IEC 60068-2-27: With SSD: 150 m/s², 11 ms; with HDD: 9.8 m/s², 20 ms
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 32-bit / 64-bit; Windows 10 Enterprise 2016 LTSB
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Dimensions	
Width	260 mm
Height	135 mm
Depth	225 mm

Article number	6AG4025-0AB10-0BB0 SIMATIC IPC527G (Box PC)
General information	
Product type designation	IPC527G
Installation type/mounting	
Mounting	Wall mounting, portrait mounting, desktop mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100/240V AC (autorange) 50/60 Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Pentium G4400 (2C/2T, 3.3 GHz, 3 MB Cache)
Chipset	Intel H110
Graphic	
Graphics controller	Onboard Intel HD graphics 530/510 integrated in processor
Graphics card	Yes
Drives	
Hard disk	1 TB HDD
Storage	
Type of memory	DDR4-2666 SO-DIMM
Main memory	4 GB RAM
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Gigabit Ethernet (IE/PN), RJ45
Number of PROFINET interfaces	2
serial interface	2x RS 232 / 485 / 422, 2x RS 232
Video interfaces	
• Graphics interface	1x DisplayPort, 1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	

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Technical specifications (continued)

Article number	6AG4025-0AB10-0BB0 SIMATIC IPC527G (Box PC)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
Degree and class of protection	
IP degree of protection	IP20
IP (at the front)	IP20
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes; No. 61010-1-12, No. 61010-2-201
UL approval	Yes
cULus	Yes; UL 61010-1, UL 61010-2-201
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	40 °C
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	IEC 60068-2-6; 10 Hz to 58 Hz 0.015 mm; 58 Hz to 200Hz 1.96 m/s2
Operating systems	
pre-installed operating system	without operating system
without operating system	Yes
Dimensions	
Width	260 mm
Height	135 mm
Depth	225 mm

Article number	6AG4025-0CB20-0BB0 SIMATIC IPC527G (Box PC)	6AG4025-0CB20-2BB0 SIMATIC IPC527G (Box PC)	6AG4025-0CE20-2BB0 SIMATIC IPC527G (Box PC)	6AG4025-0CE20-3BB0 SIMATIC IPC527G (Box PC)	6AG4025-0CE20-5CA0 SIMATIC IPC527G (Box PC)
General information					
Product type designation	IPC527G	IPC527G	IPC527G	IPC527G	IPC527G
Installation type/mounting					
Mounting	Wall mounting, portrait mounting, desktop mounting	Wall mounting, portrait mounting, desktop mounting	Wall mounting, portrait mounting, desktop mounting	Wall mounting, portrait mounting, desktop mounting	Wall mounting, portrait mounting, desktop mounting
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage					
Type of supply voltage	100/240V AC (autorange) 50/60 Hz	100/240V AC (autorange) 50/60 Hz	100/240V AC (autorange) 50/60 Hz	100/240V AC (autorange) 50/60 Hz	100/240V AC (autorange) 50/60 Hz
Line frequency					
• Rated value 50 Hz	Yes	Yes	Yes	Yes	Yes
• Rated value 60 Hz	Yes	Yes	Yes	Yes	Yes
Processor					
Processor type	Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache)	Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache)	Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache)	Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache)	Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache)
Chipset	Intel H110	Intel H110	Intel H110	Intel H110	Intel H110
Graphic					
Graphics controller	Onboard Intel HD graphics 530/510 integrated in processor	Onboard Intel HD graphics 530/510 integrated in processor	Onboard Intel HD graphics 530/510 integrated in processor	Onboard Intel HD graphics 530/510 integrated in processor	Onboard Intel HD graphics 530/510 integrated in processor
Graphics card	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AG4025-0CB20-0BB0	6AG4025-0CB20-2BB0	6AG4025-0CE20-2BB0	6AG4025-0CE20-3BB0	6AG4025-0CE20-5CA0
	SIMATIC IPC527G (Box PC)	SIMATIC IPC527G (Box PC)	SIMATIC IPC527G (Box PC)	SIMATIC IPC527G (Box PC)	SIMATIC IPC527G (Box PC)
Drives					
Hard disk	1 TB HDD	1 TB HDD	1 TB HDD	1 TB HDD	
SSD					Yes; 256 GB SSD
Storage					
Type of memory	DDR4-2666 SO-DIMM	DDR4-2666 SO-DIMM	DDR4-2666 SO-DIMM	DDR4-2666 SO-DIMM	DDR4-2666 SO-DIMM
Main memory	8 GB RAM	8 GB RAM	8 GB RAM	8 GB RAM	8 GB RAM
Interfaces					
Number of industrial Ethernet interfaces	2; 2x Gigabit Ethernet (IE/PN), RJ45	2; 2x Gigabit Ethernet (IE/PN), RJ45	2; 2x Gigabit Ethernet (IE/PN), RJ45	2; 2x Gigabit Ethernet (IE/PN), RJ45	2; 2x Gigabit Ethernet (IE/PN), RJ45
Number of PROFINET interfaces	2	2	2	2	2
serial interface	2x RS 232 / 485 / 422, 2x RS 232	2x RS 232 / 485 / 422, 2x RS 232	2x RS 232 / 485 / 422, 2x RS 232	2x RS 232 / 485 / 422, 2x RS 232	2x RS 232 / 485 / 422, 2x RS 232
Video interfaces					
• Graphics interface	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA
Industrial Ethernet					
• Industrial Ethernet interface					
- 100 Mbps	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information					
LED status display	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD
Degree and class of protection					
IP degree of protection	IP20	IP20	IP20	IP20	IP20
IP (at the front)	IP20	IP20	IP20	IP20	IP20
IP (rear)	IP20	IP20	IP20	IP20	IP20
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
CSA approval	Yes; No. 61010-1-12, No. 61010-2-201	Yes; No. 61010-1-12, No. 61010-2-201	Yes; No. 61010-1-12, No. 61010-2-201	Yes; No. 61010-1-12, No. 61010-2-201	Yes; No. 61010-1-12, No. 61010-2-201
UL approval	Yes	Yes	Yes	Yes	Yes
cULus	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes
FCC	Yes	Yes	Yes	Yes	Yes
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	40 °C	40 °C	45 °C	45 °C	45 °C
Vibrations					
• Vibration resistance during operation acc. to IEC 60068-2-6	IEC 60068-2-6; 10 Hz to 58 Hz 0.015 mm; 58 Hz to 200Hz 1.96 m/s2	IEC 60068-2-6; 10 Hz to 58 Hz 0.015 mm; 58 Hz to 200Hz 1.96 m/s2	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s^2	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s^2	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s^2
Operating systems					
pre-installed operating system	without operating system	Windows 7 Ultimate (Multi-Language) 64-bit	Windows 7 Ultimate (Multi-Language) 64-bit	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes				
Dimensions					
Width	260 mm	260 mm	260 mm	260 mm	260 mm
Height	135 mm	135 mm	135 mm	135 mm	135 mm
Depth	225 mm	225 mm	225 mm	225 mm	225 mm

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Technical specifications (continued)

Article number	6AG4025-0DF20-2BB0 SIMATIC IPC527G (Box PC)	6AG4025-0DF20-4BB0 SIMATIC IPC527G (Box PC)	6AG4025-0DE20-6CA0 SIMATIC IPC527G (Box PC)
General information			
Product type designation	IPC527G	IPC527G	IPC527G
Installation type/mounting			
Mounting	Wall mounting, portrait mounting, desktop mounting	Wall mounting, portrait mounting, desktop mounting	Wall mounting, portrait mounting, desktop mounting
Design	Box PC, built-in unit	Box PC, built-in unit	Box PC, built-in unit
Supply voltage			
Type of supply voltage	100/240V AC (autorange) 50/60 Hz	100/240V AC (autorange) 50/60 Hz	100/240V AC (autorange) 50/60 Hz
Line frequency			
• Rated value 50 Hz	Yes	Yes	Yes
• Rated value 60 Hz	Yes	Yes	Yes
Processor			
Processor type	Core i7-6700 (4C/4T, 3.6 (4.0) GHz, 8 MB Cache)	Core i7-6700 (4C/4T, 3.6 (4.0) GHz, 8 MB Cache)	Core i7-6700 (4C/4T, 3.6 (4.0) GHz, 8 MB Cache)
Chipset	Intel H110	Intel H110	Intel H110
Graphic			
Graphics controller	Onboard Intel HD graphics 530/510 integrated in processor	Onboard Intel HD graphics 530/510 integrated in processor	Onboard Intel HD graphics 530/510 integrated in processor
Graphics card	Yes	Yes	Yes
Drives			
Hard disk	1 TB HDD	1 TB HDD	
SSD			Yes; 256 GB SSD
Storage			
Type of memory	DDR4-2666 SO-DIMM	DDR4-2666 SO-DIMM	DDR4-2666 SO-DIMM
Main memory	8 GB RAM	8 GB RAM	8 GB RAM
Interfaces			
Number of industrial Ethernet interfaces	2; 2x Gigabit Ethernet (IE/PN), RJ45	2; 2x Gigabit Ethernet (IE/PN), RJ45	2; 2x Gigabit Ethernet (IE/PN), RJ45
Number of PROFINET interfaces	2	2	2
serial interface	2x RS 232 / 485 / 422, 2x RS 232	2x RS 232 / 485 / 422, 2x RS 232	2x RS 232 / 485 / 422, 2x RS 232
Video interfaces			
• Graphics interface	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA	1x DisplayPort, 1x VGA
Industrial Ethernet			
• Industrial Ethernet interface			
- 100 Mbps	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes
Interrupts/diagnostics/status information			
LED status display	POWER, HDD	POWER, HDD	POWER, HDD
Degree and class of protection			
IP degree of protection	IP20	IP20	IP20
IP (at the front)	IP20	IP20	IP20
IP (rear)	IP20	IP20	IP20
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
CSA approval	Yes; No. 61010-1-12, No. 61010-2-201	Yes; No. 61010-1-12, No. 61010-2-201	Yes; No. 61010-1-12, No. 61010-2-201
UL approval	Yes	Yes	Yes
cULus	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201
RCM (formerly C-TICK)	Yes	Yes	Yes
KC approval	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes
FCC	Yes	Yes	Yes
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C

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Technical specifications (continued)

Article number	6AG4025-0DF20-2BB0 SIMATIC IPC527G (Box PC)	6AG4025-0DF20-4BB0 SIMATIC IPC527G (Box PC)	6AG4025-0DE20-6CA0 SIMATIC IPC527G (Box PC)
Vibrations			
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s²	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s²	tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 4.9 m/s²
Operating systems			
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit	Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
Dimensions			
Width	260 mm	260 mm	260 mm
Height	135 mm	135 mm	135 mm
Depth	225 mm	225 mm	225 mm

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Overview



SIMATIC BX-59A (modular box PC): The high-end IPC with high performance, functionality and expansion capability

It offers:

- High performance with flexibility and scalability
- Intel Core i technology

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Selection and ordering data

SIMATIC IPC BX-59A (modular box PC) [1]	6AG4132-2	❑	❑	❑	❑	-	❑	❑	❑	❑
UHD graphics onboard; 2x DP; 4x Gigabit Ethernet (IE/PN) RJ45; 6x USB 3.2 Gen. 2; 2x serial (COM1); RAID controller onboard; watchdog, temperature/fan monitoring										
Processor and power supply:										
• Intel Core i5-13500E, 65 W; 14C/20T, 2.4 (4.6) GHz, with 24 V DC, 400 W power supply		A								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 24 V DC, 400 W power supply		B								
• Intel Core i7-13700E 16C/24T, 1.9 (5.1) GHz, with 24 V DC, 400 W power supply		C								
• Intel Core i9-13900E, 65W; 24C/32T, 1.8 (5.2) GHz, with 24 V DC, 400 W power supply		D								
• Intel Core i5-13500E, 65 W; 14C/20T, 2.4 (4.6) GHz, with 9-36 V DC, 220 W power supply		E								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 9-36 V DC, 220 W power supply		F								
• Intel Core i7-13700E 16C/24T, 1.9 (5.1) GHz, with 9-36 V DC, 220 W power supply		G								
• Intel Core i9-13900E, 65 W; 24C/32T, 1.8 (5.2) GHz, with 9-36 V DC, 220 W power supply		H								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 24 V DC, 400 W power supply (operation without fan possible)		N								
• Intel Core i7-13700TE, 35 W; 16C/24T, 1.1 (4.8) GHz, with 9-36 V DC, 220 W power supply (operation without fan possible)		P								
• No basic unit, no CPU, no power supply in the basic unit		X								
Drives in the basic unit:										
• Basic unit without drives			A							
• SSD 2.5" SATA 512 GB internal			B							
• SSD 2.5" SATA 1 TB internal			C							
• SSD M.2 NVME onboard 512 GB			D							
• SSD M.2 NVME onboard 1 TB			E							
• SSD M.2 NVME onboard 512 GB + 1x 512 GB M.2 NVME SSD in SIMATIC IPC Slider			F							
• SSD M.2 NVME onboard 512 GB + 1x 1TB M.2 NVME SSD in SIMATIC IPC Slider			G							
• SSD 2.5" SATA 480 GB (PLP) internal			K							
• SSD 2.5" SATA 1 GB (PLP) internal			L							
• No basic unit, no drive			X							
Memory configuration:										
• 8 GB DDR5-4800 (1x 8 GB)				0						
• 16 GB DDR5-4800 (1x 16 GB) with ECC				1						
• 16 GB DDR5-4800 (1x 16 GB)				2						
• 32 GB DDR5-4800 (1x 32 GB) with ECC				3						
• 32 GB DDR5-4800 (1x 32 GB)				4						
• 64 GB DDR5-4800 (2x 32 GB) with ECC				5						
• 64 GB DDR5-4800 (2x 32 GB)				6						
• No basic unit, no RAM				8						
Hardware extension (M.2 Flex modules in the basic unit):										
• Without hardware extension (M.2)					0					
• NVRAM (M.2)					1					
Power supply unit cable:										
• No power supply unit cable							0			
Additional software:										
• Basic unit without operating system (without USB flash drive D&D)								A		
• Basic unit without operating system (with USB flash drive D&D)								B		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i5 (without USB flash drive, restore image, D&D)								C		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i5 (with USB flash drive, restore image, D&D)								D		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i7, for Core i9 (without USB flash drive, restore image, D&D)								E		
• Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Core i7, for Core i9 (with USB flash drive, restore image, D&D)								F		
• Industrial Edge -SIMATIC								W		
• No basic unit, no software								X		
Expandability of the basic unit (expansion module):										

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Selection and ordering data (continued)

SIMATIC IPC BX-59A (modular box PC) [1]	6AG4132-2	❑	❑	❑	❑	-	❑	❑	❑	❑
• EM2: PCIe x 16 gen4 + graphics card NVIDIA L4 and PCIe x 4									B	
• EM2: PCIe x 16 + graphics card NVIDIA L4 and PCIe x 4 + 1 dual-port 10 GB fiber card; with 1 SFP+ transceiver									N	
• No expansion module									X	
Additional memory in the expansion module:										
• Expansion module without memory										0
• No expansion module, no EM memory										7

Note:

1) For an up-to-date overview, see the SIMATIC PC online configurator at: http://www.siemens.com/ipc-configurators

2) TPM = Trusted Platform Module

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

Accessories	
Memory expansion	
• 8 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN70-0SA0**
• 16 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN80-0SA0**
• 32 GB DDR5 4800 SDRAM, SO-DIMM	**6ES7648-2AN81-0SA0**
Mounting kit for portrait or wall mounting	
• Interface outlet to the right	**6ES7648-1AA10-3YB0**

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Technical specifications

Article number	6AG4133-0....-.... SIMATIC IPC BX-59A (Box PC)
General information	
Product type designation	BX-59A
Installation type/mounting	
Mounting	Wall mounting, book mounting, desk mounting, tower mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100 / 240 V AC (autorange); 24 V DC(220 W / 9~36 V DC, 400 W / 19.2~28.8 V DC, 800 W / 19.2~28.8 V DC)
Rated value (DC)	24 V; 12...24 V DC on 220 W
Rated value (AC)	240 V; 100 - 240V, 50/60Hz
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Core i9-13900E 24C (8P+16E)/32T, 1.8 (5.2) GHz, 36 MB cache; Core i7-13700E 16C (8P+8E)/24T, 1.9 (5.1) GHz, 30 MB cache; Core i7-13700TE 16C (8P+8E)/24T, 1.1 (4.8) GHz, 30 MB cache; Core i5-13500E 14C (6P+8E)/20T, 2.4 (4.6) GHz, 24 MB cache
Chipset	Intel R680E
Graphic	
Graphics controller	Intel UHD Graphics 770 (Core i5, Core i7, Core i9)
Graphics card	Yes; Optional
Drives	
SSD	Yes; base module: 480 GB 2.5" SATA SSD (PLP); 960 GB 2.5" SATA SSD (PLP); 512 GB 2.5" SATA SSD; 1 TB 2.5" SATA SSD; 512 GB M.2 NVME onboard SSD; 1 TB M.2 NVME onboard SSD; 512 GB M.2 NVME onboard SSD with 1* 512 GB M.2 NVME on 1 exchangeable SSD slider; 512 GB M.2 NVME onboard SSD with 1* 1 TB M.2 NVME on 1 exchangeable SSD slider; RAID1 2* 512 GB M.2 NVME on 2 exchangeable SSD slider; RAID1 2* 1 TB M.2 NVME on 2 exchangeable SSD slider; 512 GB M.2 NVME onboard SSD with RAID1 2* 512 GB M.2 NVME on 2 exchangeable SSD slider
expansion for storage medium	extension module 4 slots: 1 TB 2.5" SATA SSD; 2* 1 TB 2.5" SATA SSD RAID1, extension module 6 slots: 1 TB 2.5" SATA SSD; 2* 1 TB 2.5" SATA SSD RAID1; 3* 1TB 2.5" SATA SSD RAID5
Storage	
Type of memory	DDR5-4800 SO-DIMM
Main memory	8 / 16 / 32 / 64 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
• free slots	1 slot: 1x PCI Express (x16) gen 4 (16 lanes); 2 slots: 1x PCI Express (x16) gen 4 (16 lanes) and 1x PCI Express (x4) gen 3 (4 lanes); 4 slots: 1x PCI Express (x16) gen 4 (16 lanes) and 2x PCI Express gen 4 (4 lanes) and 1x PCI Express gen 3 (4 lanes); 6 slots: 2x PCI Express (x16) gen 4 (8 lanes) and 2 x PCI Express (x4) gen 4 (4 lanes)
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (RJ45)
USB port	1x USB 3.2 Gen2 10G Type C, 6x USB 3.2 Gen 2 10G Type A
Connection for keyboard/mouse	USB / USB
serial interface	2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)
Multimedia	
• Audio In/Out	Yes
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	

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Technical specifications (continued)

Article number	6AG4133-0....-.... SIMATIC IPC BX-59A (Box PC)
• Industrial Ethernet interface	4x Gigabit Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	base module (1x power, 3x user, 1x SSD), extension module (4 slots: 2x SSD; 6 slots: 3x SSD)
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact; ±8 kV air (to IEC 1000-4-2; ESD)
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 MHz to 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2.7 GHz to 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables >30m	burst: ±2 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable ≥ 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m
• Interference immunity on signal cables < 30m	burst: ±1 kV (5 kHz / 100 kHz) in accordance with IEC 61000-4-4; length of signal port extension cable < 30 m; surge: ±2 kV line-to-earth in accordance with IEC 61000-4-5; length of signal port extension cable ≥ 10 m
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP degree of protection	IP20 with fan or extension modules, IP40 without fan
Standards, approvals, certificates	
CE mark	Yes; also UKCA
cULus	Yes
RCM (formerly C-TICK)	Yes
FCC	Yes
BIS	Yes; 400 W DC power supply configuration only (base module, base module + extension module 1/2 slot)
EMC	EMC EN 61000-6-1, EN IEC 61000-6-1, EN 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C; base module only: 40 °C at fanless and 2.5" non power loss protection SSD configuration; 50 °C at fanless and M.2 SSD configuration; with exenstion module: 40°C
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: 5 % to 85 % at 30 °C (no condensation) storage: 5 % to 95 % at 25 °C / 55 °C (no condensation)
Vibrations	

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Technical specifications (continued)

Article number	6AG4133-0....-.... SIMATIC IPC BX-59A (Box PC)
• Vibration resistance during operation acc. to IEC 60068-2-6	tested in accordance with IEC 60068-2-6; operation - base module (5 to 8.4 Hz: 3.5 mm; 8.4 to 200 Hz: 9.8 m/s²); extension module w/o storages (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); extension module with SSD (10 to 58 Hz: 0.0375 mm; 58 to 200 Hz: 4.9 m/s²); storage / transport - 5 to 8.4 Hz: 3.5 mm; 8.4 to 500 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	tested in accordance with IEC 60068-2-27; operation - base module (150 m/s², 11 ms); extesion module (10 m/s², 20 ms); storage / transport - 250 m/s², 6 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC
without operating system	Yes; Optional
Software	
SIMATIC Software	optionally with pre-installed Industrial Edge - SIMATIC
Dimensions	
Width	79 mm; 116 mm with extension module 1 slot, 138 mm with extension module 2 slots, 225 mm with extension module 4 slots, 280 mm with extension module 6 slots
Height	194 mm
Depth	237 mm; 237 mm base module without fan module and with / without extension module 1 slot, 307 mm base module with fan module and with / without extension module 1/2 slots, 402 mm with extension module 4/6 slots

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Overview



SIMATIC IPC627E (Box PC): The high-end IPC with maximum performance, functional scope, and expansion capability
It offers:

- Maximum performance in the smallest space
- Intel Core i technology
- Removable hard disks (RAID1)

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Selection and ordering data

SIMATIC IPC627E (Box PC) [1]	6AG4131-3	❑	❑	❑	❑	-	❑	❑	❑	❑
UHD graphics onboard; 2x DP; 1x DVI-D; 3x Gigabit Ethernet (IE/PN) RJ45; 6x USB 3.1 Gen. 2; 1x serial (COM1); RAID controller onboard; watchdog, temperature/fan monitoring										
Processor:										
• Intel Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d)		A								
• Intel Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); NVRAM		B								
• Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d)		C								
• Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); NVRAM		D								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)		G								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT); NVRAM		H								
Drives:										
• HDD 2.5" SATA 320 GB internal			A							
• SSD 2.5" SATA 480 GB internal			C							
• SSD 2.5" SATA 960 GB internal			D							
• RAID1 2x SSD 2.5" SATA 480 GB internal			E							
• RAID1 2x SSD 2.5" SATA 480 GB in removable drive bay			G							
• RAID1 2x SSD 2.5" SATA 960 GB in removable drive bay			H							
• M.2 SSD NVMe 512 GB			J							
• M.2 SSD NVMe 512 GB; HDD 2.5" SATA 320 GB internal			K							
• M.2 SSD NVMe 512 GB; SSD 2.5" SATA 480 GB internal			L							
• M.2 SSD NVMe 512 GB; SSD 2.5" SATA 960 GB internal			M							
• M.2 SSD NVMe 512 GB; RAID1 2x SSD 2.5" SATA 480 GB in removable drive bay			Q							
• M.2 SSD NVMe 512 GB; 2 removable drive bays without media			S							
Memory configuration:										
• 4 GB DDR4-2666 (1x 4 GB)				0						
• 8 GB DDR4-2666 (2x 4 GB)				1						
• 16 GB DDR4-2666 (2x 8 GB)				2						
• 32 GB DDR4-2666 (2x 16 GB)				3						
• 64 GB DDR4-2666 (4x 16 GB)				4						
Power supply:										
• 24 V DC industrial power supply					0					
• 110/230 V AC industrial power supply unit with NAMUR; without power cable					1					
• 110/230 V AC industrial power supply unit with NAMUR; power supply cord Europe					2					
• 110/230 V AC industrial power supply unit with NAMUR; power supply cord USA					3					
• 110/230 V AC industrial power supply unit with NAMUR; power supply cord China					4					
• 24 V DC industrial power supply; UL HazLoc device certification					**5**					
Operating system:										
• Windows 10 Enterprise 2016 LTSB, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3						0				
• Windows 10 Enterprise 2016 LTSB, 64-bit, MUI (en, de, fr, it, es), for Core i7						1				
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3						2				
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, sp), for Core i7						3				
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3						**4**				
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3						**5**				
• Without operating system						8				
Expansion (SW):										
• Without expansion							A			
• SIMATIC IPC DiagMonitor included							B			
• SIMATIC IPC Image & Partition Creator included							C			
• SIMATIC IPC DiagMonitor, Image & Partition Creator included							D			
• TPM [2] (not for Russia)							X			
Expansion (HW):										
• Without expansion (HW)									A	

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Selection and ordering data (continued)

SIMATIC IPC627E (Box PC) [1]	6AG4131-3 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• 2 x USB in addition (1 slot occupied)	B
• Device without CMOS battery (CR2450N)	C
2nd expansion (HW):	
• 2 x PCI	0
• 1 x PCIe (x16); 1 x PCI	1
• 1 x PCIe (x16); 1 x PCIe (x4)	2
• 3 x PCI, 2 x PCIe (x16, x4)	3
• 5 x PCIe (1 x16, 1 x4, 3 x1)	4
• 2 x PCI; enclosure painted	5
• 1 x PCIe (x16), 1 x PCI; enclosure painted	6
• 2 x PCIe (x16, x4); enclosure painted	7

1) For an up-to-date overview, see the SIMATIC PC online configurator
2) TPM = Trusted Platform Module

Note:
Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

Accessories	
Memory expansion	
• 4 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL60-0QA0**
• 8 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL70-0QA0**
• 16 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL80-0QA0**
Assembly kit for portrait mounting	
• Upward or downward interface outlet (2-slot design)	**6ES7648-1AA10-2YA0**
• Interface outlet on the front (2-slot design)	**6ES7648-1AA10-2YB0**
• Upward or downward interface outlet (5-slot design)	**6ES7648-1AA30-2YA0**
• Interface outlet on the front (5-slot design)	**6ES7648-1AA30-2YB0**
SIMATIC PC power cable	
For Box PC and Panel PC, 230 V AC, angled, 3 m	
• For Germany, France, Spain, the Netherlands, Belgium, Sweden, Austria, Finland	**6ES7900-1AA00-0XA0**
• For United Kingdom	**6ES7900-1BA00-0XA0**
• For Switzerland	**6ES7900-1CA00-0XA0**
• For the USA	**6ES7900-1DA00-0XA0**
• For Italy	**6ES7900-1EA00-0XA0**
• For China	**6ES7900-1FA00-0XA0**

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Technical specifications

Article number	6AG4131-3....-.... SIMATIC IPC627E (Box PC)
General information	
Product type designation	IPC627E
Installation type/mounting	
Mounting	Wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)
Chipset	Intel C246
Graphic	
Graphics controller	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay
Storage	
Type of memory	DDR4-2666 DIMM
Main memory	4 / 8 / 16 / 32 / 64 GB
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
• free slots	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	6x USB 3.1 Gen. 2 (2x type C)
Connection for keyboard/mouse	USB / USB
serial interface	1x COM
Video interfaces	
• Graphics interface	2x DisplayPort; 1x DVI-D
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2

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Technical specifications (continued)

Article number	6AG4131-3....-.... SIMATIC IPC627E (Box PC)
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	Yes
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Use in hazardous areas	
• cULus Class I Zone 2, Division 2	Yes; Optional
Marine approval	
• American Bureau of Shipping (ABS)	Yes; Only with SSD
• Bureau Veritas (BV)	Yes; Only with SSD
• Det Norske Veritas (DNV)	Yes; Only with SSD
• Korean Register of Shipping (KRS)	Yes; Only with SSD
• Lloyds Register of Shipping (LRS)	Yes; Only with SSD
• Nippon Kaiji Kyokai (Class NK)	Yes; Only with SSD
• Chinese Classification Society (CCS)	Yes; Only with SSD
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C
• max.	55 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)
Shock testing	
• Shock load during operation	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI
without operating system	Yes; Optional

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Technical specifications (continued)

Article number	6AG4131-3....-.... SIMATIC IPC627E (Box PC)
Dimensions	
Width	314 mm
Height	93 mm; For variant 5x PCI(e): 155 mm
Depth	301 mm; incl. mounting rail

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Overview



SIMATIC Panel PCs are suitable thanks to their high industrial compatibility for use in control cabinets, consoles and control panels, as well as directly on the machine. Typical areas of application can be found in both factory and process automation.

There is a broad range of robust, high-performance SIMATIC Panel PCs available for different requirements.

Shared industrial functionality

- High-quality components and modules with a high MTBF (mean time between failure), which also ensure 24-hour operation in the extended temperature range
- High swing/shock capacity of the devices through special hard-disk suspensions, locked connectors and card retainers
- Rugged housing model with high electromagnetic compatibility (EMC) and integrated industrial power supplies (also in accordance with NAMUR)
- Service-friendly device design
- Bright, brilliant displays in different sizes from 7" to 22"
- Rugged fronts protected from dust, humidity and chemical substances (front-side IP65 degree of protection)

SIMATIC IPC277: The Panel PC with optimized performance – maintenance-free and compact with displays from 7"

- High degree of flexibility for selecting rugged widescreen fronts from 7" to 19" for a more freely configurable display area
- High resolution, large viewing angle, and up to 100% dimmable backlighting for a brilliant display with optimized power consumption
- Absolutely maintenance-free due to the use of CompactFlash/CFast or SSD as mass storage and fanless operation up to 50 °C ambient temperature
- Maximum industrial functionality due to non-volatile retentive memory (option)
- Ready-to-use embedded bundles with visualization and/or control software

Overview (continued)

SIMATIC IPC377: the industrial Basic Panel PC at an appealing price

- Low-cost platform for visualization in the industrial and industry-oriented field
- Flexible installation in the control cabinet or via VESA, as well as simple connection of I/O devices due to a large number of interfaces
- Fanless industrial design
- Available directly ex stock

SIMATIC IPC PX-32: Panel PC without fan with attractive price/performance ratio

- Single-touch
- Compact design
- High performance with highly compact design and ruggedness
- No rotating parts (without fan and hard disk)
- Ready-to-use devices with optionally preinstalled software

SIMATIC IPC PX-39: The powerful embedded Panel PC – maintenance-free with versatile configuration

- Multi-touch
- Compact design
- High performance with highly compact design and ruggedness
- Flexible expansion using a PCIe I/O card (optional)
- No rotating parts (without fan and hard disk)
- High security due to use of the operating system
- Retentive memory (NV-RAM, can be used with Software Controller)
- Available as PRO version (fully-enclosed IP65 degree of protection) with multi-touch

SIMATIC IPC677: The high-end Panel PC – with maximum performance, functional scope and expansion capability

- Rugged, expandable industrial PC with choice of operating units (front panels)
- Rugged design for industrial use
- Complete PC openness
- Optional PROFIBUS or PROFINET onboard
- All processors with Dual-Core

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Technical specifications

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
General information							
Product type designation	IPC277G	IPC277E	IPC377G	PX-32A	PX-39A	IPC477E	IPC677E
Installation type/mounting							
Mounting	For horizontal and vertical mounting		Panel mount and VESA, horizontal and vertical	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit
maximum permissible installation angle +/-	45°	45°					
Supply voltage							
Type of supply voltage	24 V DC	24 V DC	24 V DC	9 - 36 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange); 24 V DC
Rated value (DC)	24 V				24 V	24 V; PELV / SELV floating	
Rated value (AC)					240 V		
Line frequency							
• Rated value 50 Hz					Yes	Yes	Yes
• Rated value 60 Hz					Yes	Yes	Yes
Mains buffering							
• Mains/voltage failure stored energy time	20 ms	20 ms	10 ms	20 ms	20 ms	20 ms	20 ms
Input current							
Current consumption (rated value)					5 A; at 24 V DC and without load		
Current consumption, max.					5 A; At 24 V DC		
Inrush current, max.					75 A		
Processor							
Processor type	Intel Atom X6211E / X6413E / X6414RE	Intel Celeron N2807 / N2930	Intel Atom X6413E	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)
Chipset	SoC	SoC		Intel® RM590E	Intel® RM590E	Intel C236 / Intel H110	Intel C246
Graphic							
Graphics controller	Integrated	Integrated		Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)	Intel HD graphics controller	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)
Drives							
Hard disk				M.2 SSD ≥ 240 GB	M.2 SSD ≥ 240 GB	2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB
SSD	Yes; 256 Eco / 240 / 480 GB	Yes; 256 Eco / 240 / 480 GB		Yes; ≥ 240 GB optional	Yes; ≥ 240 GB optional, RAID1 optional	Yes; 128 / 240 / 480 GB	Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay
Storage							
Type of memory	DDR4 SO-DIMM	DDR3L SO-DIMM	DDR4	DDR4-3200 SO-DIMM	DDR4-3200 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2666 DIMM
Main memory	4 / 8 / 16 GB; inband ECC optional	2 / 4 / 8 GB	4 GB, 8 GB,16 GB	4 / 8 / 16 / 32 GB	4 / 8 / 16 / 32 GB; ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 / 32 / 64 GB

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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
Data areas and their retentivity							
Retentive data area (incl. timers, counters, flags), max.		512 kbyte; 128 KB can be stored in the buffer time; optional			512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration							
Slots							
• free slots	2x M.2		2x M.2		1x PCIe; optional: 1x PCIe (x4), with card retainer	1x PCIe (slot with card retainer), 1x slot for CFAST card	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
Interfaces							
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)	2; 2x Ethernet (RJ45)	2; 2x RJ45 (independent)	2; 2x Gigabit Ethernet (IE/PN), RJ45	4; 4x Gigabit Ethernet (IE/PN)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2 10 GB/s + 2x USB 2.0 pin header	1x USB 3.0 / 3x USB 2.0 (7" / 9": 2x USB 2.0)		4x USB 3.2 Gen2	4x USB 3.2 Gen2	4x USB 3.0	6x USB 3.1 Gen. 2 (2x type C)
Connection for keyboard/mouse	USB / USB	USB / USB		USB / USB	USB / USB	USB / USB	USB / USB
serial interface	without / 1x / 2x COM (RS 232 / 485 / 422; selectable)	1x COM (1x RS 232 / 422 / 485), selectable in the BIOS		2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)	1x / 2x (optional) COM (RS 232 / 485 / 422; selectable)	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	1x COM
Video interfaces							
• Graphics interface	2x DisplayPort	1x DisplayPort	2x DisplayPort	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit	2x DisplayPort	2x DisplayPort; 1x DVI-D
Industrial Ethernet							
• Industrial Ethernet interface	3x Ethernet (RJ45)	2x Ethernet (RJ45)	2x Ethernet (RJ45)	2x Ethernet (RJ45)	4x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protocols							
Protocols (Ethernet)							
• TCP/IP			Yes				
• DHCP	Yes						
Interrupts/diagnostics/status information							
LED status display	No	No	POWER, HDD	No	No		1x power, 3x user
Integrated Functions							
Monitoring functions							
• Temperature monitoring	Yes	Yes	Yes	No	Yes	Yes	Yes
• Watchdog	Yes	Yes	Yes	No	Yes	Yes	Yes
• Fan	No	No	No	No	No	No	Yes
• Monitoring function via network	Optional	Optional		Optional	Optional	Optional	Optional
EMC							
Interference immunity against discharge of static electricity							
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields							
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to 2.7 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6	10 V/m for 80 ... 1 000 MHz, 80 % AM according to IEC 61000-4-3; 3 V/m for 1.4 ... 6 GHz, 80 % AM according to IEC 61000-4-3	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference							

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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m		±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m		±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4, Burst	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge							
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric		±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields							
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8		100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference							
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	Noise emission: EN 61000-6-4:2007 +A1:2011 (industrial environments), CISPR 22 Class B, FCC Class A		IEC 61000-6-4, CAN/CSA CISPR 32 class B, FCC class A	IEC 61000-6-4, CAN/CSA CISPR 32 class B, FCC class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection							
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	20	IP20	IP40	IP20	IP20	IP20	IP20
Standards, approvals, certificates							
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UKCA mark				Yes	Yes		
CSA approval			Yes	Yes	Yes	Yes	
UL approval		Yes	Yes	Yes; UL 61010-2-201 Second Edition, File E472609	Yes; UL 61010-2-201 Second Edition, File E85972	Yes	Yes
• UL 508		Yes		No	No	Yes	
cULus	Yes	Yes		Yes	Yes	Yes	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	No; in preparation	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes		Yes	No	Yes	Yes	Yes
FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BSMI			Yes	No; in preparation	No; in preparation		
BIS				Yes	Yes		
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005	CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005		CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	EN 61000-6-1, EN 61000-6-2, EN 61000-6-4, CAN/CSA CISPR 32 class A, EN 55032 class B, FCC class A, KN32	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Dust protection			Protection against foreign bodies > 1 mm				
Use in hazardous areas							

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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
• ATEX Zone 2				No		Yes; for inscription on device rating plate	Yes; Optional
• ATEX Zone 22						Yes; for inscription on device rating plate	Yes; Optional
• IECEx Zone 2				No		Yes; for inscription on device rating plate	Yes; Optional
• IECEx Zone 22						Yes; for inscription on device rating plate	Yes; Optional
• CCC Ex						Yes; for inscription on device rating plate	Yes; Optional
• cULus Class I Zone 2, Division 2				No		Yes; for inscription on device rating plate	Yes; Optional
• cULus Class II Division 2						Yes; for inscription on device rating plate	Yes; Optional
• FM Class I Division 2						No	
• FM Class II Division 2						No	
Marine approval							
• Germanischer Lloyd (GL)		Yes; 7", 9", 12" single-touch		No	Yes	Yes	
• American Bureau of Shipping (ABS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Bureau Veritas (BV)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Det Norske Veritas (DNV)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Korean Register of Shipping (KRS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Lloyds Register of Shipping (LRS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Nippon Kaiji Kyokai (Class NK)		Yes; 7", 9", 12" ST; 12", 15", 19" MT		No	Yes	Yes	Yes; Only with SSD
• Chinese Classification Society (CCS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT					Yes; Only with SSD
Ambient conditions							
Ambient temperature during operation							
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	5 °C
• max.	50 °C; from 19", 22", 24": max. 45 °C	50 °C; 19": max. 45 °C	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C	50 °C	45 °C	45 °C
Relative humidity							
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	max. 85% at 30 °C, no condensation, gradient <= 10 °C/h	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
• Operation, max.	85 %		85 %	85 %	85 %		
Vibrations							

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Technical specifications (continued)

Article number	6AV7886-0....-....	6AV7882-0...0-..-.0	6AV7231-0....-...-0	6AV7272-.....-....	6AV7242-.....-....	6AV7241-.....-....	6AV7261-.....-....
	SIMATIC IPC277G	SIMATIC IPC277E	SIMATIC IPC377G	SIMATIC IPC PX-32A	SIMATIC IPC PX-39A	SIMATIC IPC 477E	SIMATIC IPC677E (Panel PC)
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)
Shock testing							
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	Tested according to IEC 60068-2-27: 50 m/s², 30 ms	tested according to IEC 60068-2-27: 150 m/s², 11 ms; 5 g, 30 ms	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	Tested according to IEC 60068-2-27: 150 m/s², 11 ms	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks
Operating systems							
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 E/P, 32-bit / 64-bit		Windows 10 IoT Enterprise 2021 LTSC, Industrial OS	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI
Additional info on operating system		optional: SIMATIC Industrial OS					
without operating system	Yes; Optional	Yes; Optional	Yes	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional
Software							
SIMATIC Software	Optional package with SIMATIC WinCC	Optional package with SIMATIC WinCC or WinAC RTX			Optional package with SIMATIC WinCC	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	
Dimensions							
Width			652 mm				
Height			443 mm				
Depth			209 mm				

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Overview



SIMATIC IPC277G: The Panel PC with optimized performance – flexible in respect of interfaces and expansions with multi-touch displays from 7" to 24"

SIMATIC IPC277G is based on the Nanobox PC IPC227G and is characterized by its robust design and maintenance-free operation.

With its integrated interfaces, expansion options and the large range of multi-touch fronts from 7" to 24", the Nanopanel PC is intended for a broad range of applications.

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Selection and ordering data

SIMATIC IPC277G (Nanopanel PC)	6AV7886-0	❑	❑	❑	❑	-	❑	❑	❑	0
Operating unit										
• 7" multi-touch (800 x 480)		A								
• 10" multi-touch (1280 x 800)		B								
• 12" multi-touch (1280 x 800)		C								
• 15" multi-touch (1920 x 1080)		D								
• 19" multi-touch (1920 x 1080)		E								
• 22" multi-touch (1920 x 1080)		F								
• 24" multi-touch (1920 x 1080)		G								
• 7" multi-touch (800 x 480) ATEX/IECEx/UL HazLoc		H								
• 10" multi-touch (1280 x 800) ATEX/IECEx/UL HazLoc		J								
• 12" multi-touch (1280 x 800) ATEX/IECEx/UL HazLoc		K								
• 15" multi-touch (1920 x 1080) ATEX/IECEx/UL HazLoc		L								
• 19" multi-touch (1920 x 1080) ATEX/IECEx/UL HazLoc		M								
• 22" multi-touch (1920 x 1080) ATEX/IECEx/UL HazLoc		N								
• 24" multi-touch (1920 x 1080) ATEX/IECEx/UL HazLoc		P								
• 7" (800 x 480) multi-touch neutral front		Q								
• 10" (1280 x 800) multi-touch neutral front		R								
• 12" (1280 x 800) multi-touch neutral front		S								
• 15" (1920 x 1080) multi-touch neutral front		T								
• 19" (1920 x 1080) multi-touch neutral front		U								
• 22" (1920 x 1080) multi-touch neutral front		V								
• 24" (1920 x 1080) multi-touch neutral front		W								
Processor										
• Atom X6413E (2-core)			A							
• Atom X6413E (4-core)			B							
• Atom X6414RE (4-core)			C							
• Atom X6413E (2-core)/TPM			D							
• Atom X6413E (4-core)/TPM			E							
• Atom X6414RE (4-core)/TPM			F							
Work memory										
• 4 GB				1						
• 8 GB				2						
• 16 GB				3						
Hardware configuration										
• Without COM					1					
• 1x COM					2					
• 2x COM					3					
• Slim enclosure - without COM					**4**					
Mass storage										
• None							1			
• 256 GB Eco SSD							2			
• 240 GB SSD							3			
• 480 GB SSD							4			
Hardware extension										
• Without hardware extension								A		
• NVRAM								B		
Software										
• Without software									A	
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)									B	
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)									C	

Note:
Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

For an up-to-date overview, see the SIMATIC IPC online configurator at:
http://www.siemens.com/ipc-configurators

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Technical specifications

Article number	6AV7886-0....-.... SIMATIC IPC277G
General information	
Product type designation	IPC277G
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
maximum permissible installation angle +/-	45°
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Atom X6211E / X6413E / X6414RE
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco / 240 / 480 GB
Storage	
Type of memory	DDR4 SO-DIMM
Main memory	4 / 8 / 16 GB; inband ECC optional
Hardware configuration	
Slots	
• free slots	2x M.2
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2 10 GB/s + 2x USB 2.0 pin header
Connection for keyboard/mouse	USB / USB
serial interface	without / 1x / 2x COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• DHCP	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	

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Technical specifications (continued)

Article number	6AV7886-0....-.... SIMATIC IPC277G
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	20
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C; from 19", 22", 24": max. 45 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional
Software	
SIMATIC Software	Optional package with SIMATIC WinCC

Article number	6AV7886-0A...-..-..	6AV7886-0B...-..-..	6AV7886-0C...-..-..	6AV7886-0D...-..-..	6AV7886-0E...-..-..	6AV7886-0F...-....-..	6AV7886-0G...-..-..
	SIMATIC IPC277G, 7" Multitouch	SIMATIC IPC277G, 10" Multitouch	SIMATIC IPC277G, 12" Multitouch	SIMATIC IPC277G, 15" Multitouch	SIMATIC IPC277G, 19" Multitouch	SIMATIC IPC277G, 22" Multitouch	SIMATIC IPC277G, 24" Multitouch
General information							
Product type designation				IPC277G			
Display							
Design of display	7" TFT multi-touch	10" TFT multi-touch	12" TFT multi-touch	15" TFT multi-touch	19" TFT multi-touch	22" TFT multi-touch	24" TFT multi-touch
Screen diagonal	7 in	10 in	12 in		19 in	22 in	24 in
Resolution (pixels)							
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 920 pixel	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	1 080 pixel	1 080 pixel	1 080 pixel	1 080 pixel

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Technical specifications (continued)

Article number	6AV7886-0A...-..-.. SIMATIC IPC277G, 7" Multitouch	6AV7886-0B...-..-.. SIMATIC IPC277G, 10" Multitouch	6AV7886-0C...-..-.. SIMATIC IPC277G, 12" Multitouch	6AV7886-0D...-..-.. SIMATIC IPC277G, 15" Multitouch	6AV7886-0E...-..-.. SIMATIC IPC277G, 19" Multitouch	6AV7886-0F...-.... SIMATIC IPC277G, 22" Multitouch	6AV7886-0G...-..-.. SIMATIC IPC277G, 24" Multitouch
Backlighting							
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	70 000 h	50 000 h	50 000 h	30 000 h	30 000 h
Control elements							
Touch operation							
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive		Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting							
Mounting				For horizontal and vertical mounting			
Design				Panel PC, built-in unit			
central design	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mounting in portrait format possible	Yes	Yes	Yes		Yes	Yes	Yes
maximum permissible installation angle +/-				45°			
Supply voltage							
Type of supply voltage				24 V DC			
Rated value (DC)				24 V			
Mains buffering							
• Mains/voltage failure stored energy time				20 ms			
Power loss							
In full configuration	30 W	30 W	80 W		80 W	80 W	80 W
Processor							
Processor type				Intel Atom X6413E			
Chipset				SoC			
Graphic							
Graphics controller				Integrated			
Drives							
SSD				Yes			
Storage							
Type of memory				DDR4 SO-DIMM			
Main memory				8 GB RAM			
Hardware configuration							
Slots							
• free slots				2x M.2			
Interfaces							
Number of industrial Ethernet interfaces				3; 3x Ethernet (RJ45)			
USB port				4x USB 3.1 Gen2 10 GB/s + 2x USB 2.0 pin header			
Connection for keyboard/mouse				USB / USB			
Video interfaces							
• Graphics interface				2x DisplayPort			
Industrial Ethernet							
• Industrial Ethernet interface				3x Ethernet (RJ45)			
- 100 Mbps				Yes			
- 1000 Mbps				Yes			
Protocols							
Protocols (Ethernet)							
• DHCP				Yes			
Integrated Functions							
Monitoring functions							
• Temperature monitoring				Yes			
• Watchdog				Yes			
• Fan				No			
• Monitoring function via network				Optional			

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Technical specifications (continued)

Article number	6AV7886-0A...-..-.. SIMATIC IPC277G, 7" Multitouch	6AV7886-0B...-..-.. SIMATIC IPC277G, 10" Multitouch	6AV7886-0C...-..-.. SIMATIC IPC277G, 12" Multitouch	6AV7886-0D...-..-.. SIMATIC IPC277G, 15" Multitouch	6AV7886-0E...-..-.. SIMATIC IPC277G, 19" Multitouch	6AV7886-0F...-.... SIMATIC IPC277G, 22" Multitouch	6AV7886-0G...-..-.. SIMATIC IPC277G, 24" Multitouch
EMC							
Interference immunity against discharge of static electricity							
• Interference immunity against discharge of static electricity				±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2			
Degree and class of protection							
IP (at the front)				IP65			
IP (rear)				20			
Standards, approvals, certificates							
CE mark				Yes			
UKCA mark				Yes			
cULus				Yes			
RCM (formerly C-TICK)				Yes			
KC approval				Yes			
EAC (formerly Gost-R)				Yes			
FCC				Yes			
Marine approval							
• Germanischer Lloyd (GL)				Yes			
• American Bureau of Shipping (ABS)				Yes			
• Bureau Veritas (BV)				Yes			
• Det Norske Veritas (DNV)				Yes			
• Korean Register of Shipping (KRS)				Yes			
• Lloyds Register of Shipping (LRS)				Yes			
• Nippon Kaiji Kyokai (Class NK)				Yes			
Ambient conditions							
Ambient temperature during operation							
• min.				0 °C			
• max.				50 °C			
Relative humidity							
• Relative humidity				Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)			
• Operation, max.				85 %			
Shock testing							
• Shock load during operation				Tested according to IEC 60068-2-27: 150 m/s², 11 ms			
Operating systems							
without operating system				Yes			
Dimensions							
Width of the housing front	214 mm	280 mm	326 mm		464 mm	529 mm	585 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm	363 mm
Weights							
Weight, approx.	2.5 kg	3.2 kg	5.1 kg	5.3 kg	6.7 kg	8.1 kg	9.6 kg

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Overview



SIMATIC IPC277G PRO

The SIMATIC IPC277G PRO with fully-enclosed IP65 degree of protection in 12", 15" and 19" diagonal versions extends the portfolio of PRO devices.

The robust aluminum enclosure allows it to be used directly on the machine even in harsh ambient conditions.

The operating unit can either be mounted on a pedestal or connected to a support arm system.

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Selection and ordering data

SIMATIC IPC277G PRO (Nanopanel PC)	6AV7886-1	❑	❑	❑	❑	-	❑	❑	❑	O
Operating unit										
• 12" multi-touch (1280 x 800), for support arm (not expandable, flange on top)		A								
• 12" multi-touch (1280 x 800), for pedestal (expandable, flange at bottom)		B								
• 12" multi-touch (1280 x 800), for support arm (expandable, round tube)		C								
• 15" multi-touch (1920 x 1080), for support arm (not expandable, flange on top)		D								
• 15" multi-touch (1920 x 1080), for pedestal (expandable, flange at bottom)		E								
• 15" multi-touch (1920 x 1080), for support arm (expandable, round tube)		F								
• 19" multi-touch (1920 x 1080), for support arm (not expandable, flange on top)		G								
• 19" multi-touch (1920 x 1080), for pedestal (expandable, flange at bottom)		H								
• 19" multi-touch (1920 x 1080), for support arm (expandable, round tube)		J								
• 12" multi-touch neutral (1280 x 800), for support arm (not expandable, flange on top)		K								
• 12" multi-touch neutral (1280 x 800), for pedestal (expandable, flange at bottom)		L								
• 12" multi-touch neutral (1280 x 800), for support arm (expandable, round tube)		M								
• 15" multi-touch neutral (1920 x 1080), for support arm (not expandable, flange on top)		N								
• 15" multi-touch neutral (1920 x 1080), for pedestal (expandable, flange at bottom)		P								
• 15" multi-touch neutral (1920 x 1080), for support arm (expandable, round tube)		Q								
• 19" multi-touch neutral (1920 x 1080), for support arm (not expandable, flange on top)		R								
• 19" multi-touch neutral (1920 x 1080), for pedestal (expandable, flange at bottom)		S								
• 19" multi-touch neutral (1920 x 1080), for support arm (expandable, round tube)		T								
Processor										
• Atom X6413E (2-core)			A							
• Atom X6413E (4-core)			B							
• Atom X6414RE (4-core)			C							
• Atom X6413E (2-core) / TPM [1]			D							
• Atom X6413E (4-core) / TPM [1]			E							
• Atom X6414RE (4-core) / TPM [1]			F							
Work memory										
• 4 GB				1						
• 8 GB				2						
• 16 GB				3						
Hardware configuration										
• Without COM					1					
• 1x COM					2					
Mass storage										
• None							1			
• 256 GB Eco SSD							2			
• 240 GB SSD							3			
• 480 GB SSD							4			
Hardware extension										
• None								A		
• NVRAM								B		
Software										
• Without software									A	
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)									B	
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)									C	

[1] TPM = Trusted Platform Module

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

The SIMATIC IPC online configurator offers a current overview at this link.

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Technical specifications

Article number	6AV7886-1....-.... SIMATIC IPC277G PRO
Installation type/mounting	
Design	Panel PC, PRO
maximum permissible installation angle +/-	45°
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Atom X6211E / X6413E / X6414RE
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco / 240 / 480 GB
Storage	
Type of memory	DDR4 SO-DIMM
Main memory	4 / 8 / 16 GB; inband ECC optional
Hardware configuration	
Slots	
• free slots	1x M.2
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2 10 GB/s + 2x USB 2.0 pin header
Connection for keyboard/mouse	USB / USB
serial interface	without / 1x COM (RS 232 / 422 / 485; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-6-2; 3 V/m, 2 GHz to 6 GHz 80 % AM acc. to IEC 61000-6-2; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m
Interference immunity against voltage surge	

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Technical specifications (continued)

Article number	6AV7886-1....-.... SIMATIC IPC277G PRO
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (all-round)	IP65
IP (at the front)	IP65
IP (rear)	IP65
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C; 12": 40 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional
Software	
SIMATIC Software	Optional package with SIMATIC WinCC

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Overview

The SIMATIC IPC277G HYG devices offer a robust device front for use in the food and beverage industry as well as in the pharmaceutical industry.

- Display sizes 12", 15", 19" or 22"
- Rugged front panel with stainless steel frame, anti-shatter film and minimized grooves and gaps in compliance with Hygienic Design Guideline DIN EN 1672-2
- Optimized frame design with minimized protrusions to the control cabinet and for automatic runoff of liquids
- Stainless steel surface polished with grain size 240
- Degree of protection, front: IP66K 1, IP69 1 (IP69 is comparable to the former IP69K rating)
- Display and touch screen behind hardened glass with anti-shatter film
- Chemical resistance to cleaning and disinfecting
- Replaceable, foodstuff-compatible mounting gasket
- Rear clamping frame for even application of pressure on the mounting gasket
- Mounting cutout, interfaces and functionality correspond to that of the standard device

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Selection and ordering data

SIMATIC IPC277G HYG (Nanopanel PC)	6AV7886-2	❑	❑	❑	❑	-	❑	❑	❑	0
Operating unit										
• 7" multi-touch (800 x 480)		H								
• 10" multi-touch (1280 x 800)		J								
• 12" multi-touch (1280 x 800)		K								
• 15" multi-touch (1920 x 1080)		L								
• 19" multi-touch (1920 x 1080)		M								
• 22" multi-touch (1920 x 1080)		N								
Processor										
• Atom X6413E (2-core)			A							
• Atom X6413E (4-core)			B							
• Atom X6414RE (4-core)			C							
• Atom X6413E (2-core)/TPM			D							
• Atom X6413E (4-core)/TPM			E							
• Atom X6414RE (4-core)/TPM			F							
Work memory										
• 4 GB				1						
• 8 GB				2						
• 16 GB				3						
Hardware configuration										
• Without COM					1					
• 1x COM					2					
• 2x COM					3					
• Slim enclosure - without COM					**4**					
Mass storage										
• None							1			
• 256 GB Eco SSD							2			
• 240 GB SSD							3			
• 480 GB SSD							4			
Hardware extension										
• Without hardware extension								A		
• NVRAM								B		
Software										
• Without software									A	
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)									B	
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)									C	

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

For an up-to-date overview, see the SIMATIC IPC online configurator at this link

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Overview



SIMATIC IPC377G

Based on Intel Atom processor technology, the SIMATIC IPC377G Panel PC represents a new IPC platform which has been specifically developed for cost-optimized, PC-based applications in industrial and industry-oriented environments.

The SIMATIC IPC377G Panel PC is characterized by a large number of interfaces.

Fast availability ex stock as well as the fanless industrial design complete the concept.

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Selection and ordering data

SIMATIC IPC377G	6 A V 7 2 3 1 -0 ❑ ❑ ❑ ❑ - ❑ ❑ ❑ 0
2x DisplayPort graphics; 2x 10/100/1000 Mbps, Ethernet RJ45; 4x USB 3.0; 3x USB 2.0; 4x serial ports (COM)	
Operating unit	
• 12" touch (1 280 x 800)	C
• 15" touch (1 366 x 768)	D
• 19" touch (1 366 x 768)	E
• 22" touch (1 920 x 1 080)	F
Processor	
• Intel Atomx6413E Processor (4-core)/audio	A
• Intel Atomx6413E Processor (4-core)/TPM/audio	B
• Intel Atomx6413E Processor (4-core)	C
• Intel Atomx6413E Processor (4-core) audio	D
Work memory	
• 4 GB RAM	2
• 8 GB RAM	3
• 16 GB RAM	4
Expansions/interfaces	
• 2x COM	1
• 4x COM	2
Operating system	
• Without operating system	0
• Windows 10 IOT Enterprise LTSC 2019, 64-bit MUI (en, de, fr, it, es)	2
Drives	
• None	A
• 256 GB SSD	B
• 512 SSD	C
Power supply	
• 24 V DC	A

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

For an up-to-date overview, see the SIMATIC IPC online configurator at this link

Preferred variants (available directly ex stock)	
SIMATIC IPC377G	
12" 12" touch (1 280 x 800); Processor: Intel Atomx6413E (up to 3.0 GHz); Drives: SATA/NvME; without mass storage; Main memory: 4 GB RAM (1x 4 GB); Without operating system	**6AV7231-0CC21-0AA0**
12" 12" touch (1 280 x 800); Processor: Intel Atomx6413E (up to 3.0 GHz); Drives: SATA/NvME; 256G SSD; Main memory: 4 GB DRAM (1x 4 GB); Windows 10 Enterprise LTSC 2019, 64-bit, MUI (de, en, fr, it, es)	**6AV7231-0CC21-2BA0**
15" 15" touch (1 366 x 768); Processor: Intel Atomx6413E (up to 3.0 GHz); Drives: SATA/NvME; without mass storage; Main memory: 4 GB DRAM (1x 4 GB); Without operating system	**6AV7231-0DC21-0AA0**
15" 15" touch (1 366 x 768); Processor: Intel Atomx6413E (up to 3.0 GHz); Drives: SATA/NvME; 256G SSD; Main memory: 4 GB DRAM (1x 4 GB); Windows 10 Enterprise LTSC 2019, 64-bit, MUI (de, en, fr, it, es)	**6AV7231-0DC21-2BA0**
19" 19" touch (1 366 x 768); Processor: Intel Atomx6413E (up to 3.0 GHz); Drives: SATA/NvME; 256G SSD; Main memory: 4 GB DRAM (1x 4 GB); Windows 10 Enterprise LTSC 2019, 64-bit, MUI (de, en, fr, it, es)	**6AV7231-0EC21-2BA0**
22" 22" touch (1 920 x 1 080); built-in unit; Atom x6413E (up to 3.9 GHz); 4 GB RAM; 4x USB+2x COM; Windows10 Enterprise 2019 LTSC; 64-bit; MUI (en, de, fr, it, es); 256 GB SSD; 2x DisplayPort graphics; without audio; 2x 10/100/1000 Mbps Ethernet RJ45; 4x USB 3.1; 3x USB 2.0; 4x serial ports (COM); 2x M.2 modules; 24 V DC power supply	**6AV7231-0FC21-2BA0**

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Selection and ordering data (continued)

22" 22" touch (1 920 x 1 080); built-in unit; Atom x6413E (up to 3.9 GHz); 8 GB RAM; 4x USB+2x COM; Windows10 Enterprise 2019 LTSC; 64-bit; MUI (en, de, fr, it, es); 256 GB SSD; 2x DisplayPort graphics; without audio; 2x 10/100/1000 Mbps Ethernet RJ45; 4x USB 3.1; 3x USB 2.0; 4x serial ports (COM); 2x M.2 modules; 24 V DC power supply	**6AV7231-0FC31-2BA0**

Technical specifications

Article number	6AV7231-0....-...0 SIMATIC IPC377G
General information	
Product type designation	IPC377G
Installation type/mounting	
Mounting	Panel mount and VESA, horizontal and vertical
Design	Panel PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	10 ms
Processor	
Processor type	Intel Atom X6413E
Storage	
Type of memory	DDR4
Main memory	4 GB, 8 GB,16 GB
Hardware configuration	
Slots	
• free slots	2x M.2
Interfaces	
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	

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Technical specifications (continued)

Article number	6AV7231-0....-...0 SIMATIC IPC377G
• Interference immunity against high frequency radiation	10 V/m for 80 ... 1 000 MHz, 80 % AM according to IEC 61000-4-3; 3 V/m for 1.4 ... 6 GHz, 80 % AM according to IEC 61000-4-3
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP40
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	Yes
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format
Relative humidity	
• Relative humidity	max. 85% at 30 °C, no condensation, gradient <= 10 °C/h
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	tested according to IEC 60068-2-27: 150 m/s², 11 ms; 5 g, 30 ms
Operating systems	
without operating system	Yes
Dimensions	
Width	652 mm
Height	443 mm
Depth	209 mm

Article number	6AV7231-0CC21--0AA0 SIMATIC IPC377G, 12" Touch	6AV7231-0CC21--2BA0 SIMATIC IPC377G, 12" Touch	6AV7231-0DC21--0AA0 SIMATIC IPC377G, 15" Touch	6AV7231-0DC21--2BA0 SIMATIC IPC377G, 15" Touch	6AV7231-0EC21--2BA0 SIMATIC IPC377G, 19" Touch	6AV7231-0FC21--2BA0 SIMATIC IPC377G, 22" Touch	6AV7231-0FC31--2BA0 SIMATIC IPC377G, 22" Touch
General information							
Product type designation	IPC377G	IPC377G	IPC377G	IPC377G	IPC377G	IPC377G	IPC377G
Display							
Design of display	12" TFT touch	12" TFT touch	15" TFT touch	15" TFT touch	19" TFT touch	22" TFT touch	22" TFT touch
Screen diagonal	12 in	12 in	15 in	15 in	19 in	22 in	22 in
Resolution (pixels)							
• Horizontal image resolution	1 280 pixel	1 280 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	800 pixel	800 pixel	768 pixel	768 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting							
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h
Control elements							
Touch operation							
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive
Installation type/mounting							
Mounting	Panel mount and VESA, horizontal and vertical	Panel mount and VESA, horizontal and vertical	Panel mount and VESA, horizontal and vertical	Panel mount and VESA, horizontal and vertical	Panel mount and VESA, horizontal and vertical	Panel mount and VESA, horizontal and vertical	Panel mount and VESA, horizontal and vertical

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Technical specifications (continued)

Article number	6AV7231-0CC21--0AA0	6AV7231-0CC21--2BA0	6AV7231-0DC21--0AA0	6AV7231-0DC21--2BA0	6AV7231-0EC21--2BA0	6AV7231-0FC21--2BA0	6AV7231-0FC31--2BA0
	SIMATIC IPC377G, 12" Touch	SIMATIC IPC377G, 12" Touch	SIMATIC IPC377G, 15" Touch	SIMATIC IPC377G, 15" Touch	SIMATIC IPC377G, 19" Touch	SIMATIC IPC377G, 22" Touch	SIMATIC IPC377G, 22" Touch
Design	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit
central design	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage							
Type of supply voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Mains buffering							
• Mains/voltage failure stored energy time	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms
Processor							
Processor type	Intel Atom X6413E	Intel Atom X6413E	Intel Atom X6413E	Intel Atom X6413E	Intel Atom X6413E	Intel Atom X6413E	Intel Atom X6413E
Storage							
Type of memory	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4
Main memory	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB	4 GB, 8 GB,16 GB
Interfaces							
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)	2; 2x RJ45 (independent)
Video interfaces							
• Graphics interface	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort
Industrial Ethernet							
• Industrial Ethernet interface							
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protocols							
Protocols (Ethernet)							
• TCP/IP	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interrupts/diagnostics/status information							
LED status display	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD	POWER, HDD
Integrated Functions							
Monitoring functions							
• Temperature monitoring	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Fan	No	No	No	No	No	No	No
Degree and class of protection							
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP40	IP40	IP40	IP40	IP40	IP40	IP40
Standards, approvals, certificates							
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CSA approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BSMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dust protection	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm	Protection against foreign bodies > 1 mm
Ambient conditions							
Ambient temperature during operation							
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format
Relative humidity							

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Technical specifications (continued)

Article number	6AV7231-0CC21--0AA0	6AV7231-0CC21--2BA0	6AV7231-0DC21--0AA0	6AV7231-0DC21--2BA0	6AV7231-0EC21--2BA0	6AV7231-0FC21--2BA0	6AV7231-0FC31--2BA0
	SIMATIC IPC377G, 12" Touch	SIMATIC IPC377G, 12" Touch	SIMATIC IPC377G, 15" Touch	SIMATIC IPC377G, 15" Touch	SIMATIC IPC377G, 19" Touch	SIMATIC IPC377G, 22" Touch	SIMATIC IPC377G, 22" Touch
• Operation, max.	85 %	85 %	85 %	85 %	85 %	85 %	85 %
Vibrations							
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²
Operating systems							
without operating system	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions							
Width	652 mm	652 mm	652 mm	652 mm	652 mm	652 mm	652 mm
Height	443 mm	443 mm	443 mm	443 mm	443 mm	443 mm	443 mm
Depth	209 mm	209 mm	209 mm	209 mm	209 mm	209 mm	209 mm
Width of the housing front	319.6 mm	319.6 mm	406 mm	406 mm	472.6 mm	539.79999 mm	539.79999 mm
Height of housing front	225.59999 mm	225.59999 mm	258.1 mm	258.1 mm	296.8 mm	334.39999 mm	334.39999 mm
Weights							
Weight, approx.	3.4 kg	3.4 kg	4.8 kg	4.8 kg	5.7 kg	7.1 kg	7.1 kg

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Overview

SIMATIC IPC PX-32A



SIMATIC IPC PX-32A: The cost and function-optimized alternative to SIMATIC IPC PX-39A.
Ready-to-run, complete solution:

- Ultra-compact
- Maintenance-free
- Intel CPU technology of the 11th generation.

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Selection and ordering data

SIMATIC IPC PX-32A (Panel PC)	6AV7272-	❑	❑	❑	-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Standard device															
• Intel Celeron 6600HLE (2.1 GHz, 2C/2T)															
• 15" single-touch															
• 4 GB															
• M.2 SSD 256 GB Eco															
• Without SSD 2															
• Without operating system															
• Without option 1															
• With USB flash drive (restore image; D&D)															
• 9-36 V DC industry power supply (wide range)															
Processor															
• Intel Celeron 6600HLE (2.1 GHz, 2C/2T)						1									
• Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T)						3									
Front															
• 12" single-touch							A								
• 15" single-touch							B								
• 19" single-touch							C								
• 22" single-touch							D								
Work memory															
• 4 GB								A							
• 8 GB								B							
• 16 GB								C							
• 32 GB								D							
SSD 1 (incl. OS)															
• Without SSD 1									0						
• M.2 SSD 256 GB Eco									1						
• M.2 SSD 512 GB Eco									2						
SSD 2															
• Without SSD 2										0					
Software configuration															
• Without operating system												0			
• Windows 10 IoT Enterprise 2021 LTSC												1			
Option 1															
• Without option 1													A		
• Additive 1 x Com (RS232/485/422) (3 in total)													C		
• Additive 2 x Com (RS232/485/422) (4 in total)													D		
Option 2															
• With USB flash drive (restore image; D&D)														B	
Power supply															
• 9-36 V DC industry power supply (wide range)															1

1) For an up-to-date overview, see the SIMATIC PC online configurator: http://www.siemens.com/ipc-configurators
2) TPM = Trusted Platform Module

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview.

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Technical specifications

Article number	6AV7272-.....-.... SIMATIC IPC PX-32A
General information	
Product type designation	PX-32A
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
Supply voltage	
Type of supply voltage	9 - 36 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD ≥ 240 GB
SSD	Yes; ≥ 240 GB optional
Storage	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Gigabit Ethernet (IE/PN), RJ45
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	2x / 4x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	No
• Watchdog	No
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric

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Technical specifications (continued)

Article number	6AV7272-.....-.... SIMATIC IPC PX-32A
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-4, CAN/CSA CISPR 32 class B, FCC class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E472609
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No; in preparation
EAC (formerly Gost-R)	No
FCC	Yes
BSMI	No; in preparation
BIS	Yes
EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A
Use in hazardous areas	
• ATEX Zone 2	No
• IECEx Zone 2	No
• cULus Class I Zone 2, Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	No
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Korean Register of Shipping (KRS)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Industrial OS
without operating system	Yes; Optional

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Overview



SIMATIC IPC PX-39A

SIMATIC IPC PX-39A (Micropanel PC): The powerful Panel IPC – maintenance-free with versatile configuration.

Ready-to-run, complete solution:

- Ultra-compact
- Maintenance-free
- Intel CPU technology of the 11th generation.

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Selection and ordering data

SIMATIC IPC PX-39A (Panel PC)	6AV7242	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processor											
• Intel® Celeron® 6600HLE 2 cores/2 threads, 2.1 GHz, 8 MB cache, TCC		1									
• Intel® Xeon® W-11155MLE 4 cores/8 threads, 1.8 (3.1) GHz, 8 MB cache, ECC, TCC		3									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		5									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		7									
Front Panel											
• 15" multi-touch (1920 x 1080)			A								
• 19" multi-touch (1920 x 1080)			B								
• 22" multi-touch (1920 x 1080)			C								
• 24" multi-touch (1920 x 1080)			D								
• 12" multi-touch (1280 x 800)			E								
• 15" multi-touch neutral (1920 x 1080)			L								
• 19" multi-touch neutral (1920 x 1080)			M								
• 22" multi-touch neutral (1920 x 1080)			N								
• 24" multi-touch neutral (1920 x 1080)			P								
Work memory/ECC											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 32 GB				D							
• 16 GB with ECC				E							
• 32 GB with ECC				F							
• 8 GB and NVRAM (M.2 module)				G							
• 16 GB and NVRAM (M.2 module)				H							
• 32 GB and NVRAM (M.2 module)				J							
• 16 GB with ECC and NVRAM (M.2 module)				K							
• 32 GB with ECC and NVRAM (M.2 module)				L							
1st mass storage in SIMATIC Slider (incl. OS)											
• Without 1st mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
• M.2 SSD 240 GB					4						
• M.2 SSD 480 GB					5						
• M.2 SSD 960 GB					6						
• RAID1 with SSD 512 GB Eco (SSD 2 with 512 GB Eco required)					8						
2nd mass storage in SIMATIC Slider											
• Without 2nd mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
• M.2 SSD 240 GB					4						
• M.2 SSD 480 GB					5						
• M.2 SSD 960 GB					6						
• Without 2nd mass storage						0					
• M.2 SSD 256 GB Eco						1					
• M.2 SSD 512 GB Eco						2					
Operating systems											
• Without operating system								0			
• Windows 10 Enterprise 2021 LTSC with Celeron, W-11155MLE processors								1			
• W-11555MLE, Windows 10 Enterprise 2021 LTSC with W-11865MLE processor								2			
• SIMATIC Industrial OS								7			
Option 1											
• Without option 1									A		
• With 1 x PCIe slot									B		
• Additionally 1 x Com									C		
• With 1 x PCIe slot and additionally 1 x Com (RS232/485/422)									D		
Option 2											

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Selection and ordering data (continued)

SIMATIC IPC PX-39A (Panel PC)	6AV7242	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• Without USB flash drive (restore image; D&D)										A	
• With USB flash drive (restore image; D&D)										B	
Power supply											
• 24 V DC industry power supply (Premium, NAU, isolated, "bridging time")											0
• 110/230 V AC industrial PS with Namur; without power cable											2
• 110/230 V AC industrial PS with Namur; with power cable Europe											3
• 24 V DC industry power supply (Premium, NAU, isolated, "bridging time") with ATEX											7

1) For an up-to-date overview, see the SIMATIC IPC online configurator: http://www.siemens.com/ipc-configurators
2) TPM = Trusted Platform Module

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview:
http://www.siemens.com/ipc-configurators

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Technical specifications

Article number	6AV7242-.....-.... SIMATIC IPC PX-39A
General information	
Product type designation	PX-39A
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Rated value (DC)	24 V
Rated value (AC)	240 V
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption (rated value)	5 A; at 24 V DC and without load
Current consumption, max.	5 A; At 24 V DC
Inrush current, max.	75 A
Processor	
Processor type	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD ≥ 240 GB
SSD	Yes; ≥ 240 GB optional, RAID1 optional
Storage	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots	1x PCIe; optional: 1x PCIe (x4), with card retainer
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	1x / 2x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	4x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes

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Technical specifications (continued)

Article number	6AV7242-.....-.... SIMATIC IPC PX-39A
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-4, CAN/CSA CISPR 32 class B, FCC class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	No; in preparation
BIS	Yes
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-4, CAN/CSA CISPR 32 class A, EN 55032 class B, FCC class A, KN32
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Relative humidity	

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Technical specifications (continued)

Article number	6AV7242-.....-.... SIMATIC IPC PX-39A
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS
without operating system	Yes; Optional
Software	
SIMATIC Software	Optional package with SIMATIC WinCC

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Overview



SIMATIC IPC PX-39A PRO

The SIMATIC IPC PX-39A PRO in 15", 19", 22" and 24" design with fully-enclosed IP65 degree of protection expands the portfolio of PRO devices.

The robust aluminum enclosure allows it to be used directly on the machine even in harsh ambient conditions.
The operating units can either be mounted on a pedestal or connected to a support arm system from above.

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Selection and ordering data

SIMATIC IPC PX-39A PRO [1]	6AV7252-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processors and fieldbus											
• Intel® Celeron® 6600HLE 2 cores/2 threads, 2.1 GHz, 8 MB cache, TCC		1									
• Intel® Xeon® W-11155MLE 4 cores/8 threads, 1.8 (3.1) GHz, 8 MB cache, ECC, TCC		3									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		5									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		7									
Operating unit											
• 15" multi-touch (1920 x 1080)			A								
• 19" multi-touch (1920 x 1080)			C								
• 22" multi-touch (1920 x 1080)			E								
• 24" multi-touch (1920 x 1080)			G								
• 15" multi-touch neutral (1920 x 1080)			K								
• 19" multi-touch neutral (1920 x 1080)			M								
• 22" multi-touch neutral (1920 x 1080)			P								
• 24" multi-touch neutral (1920 x 1080)			R								
Work memory/NVRAM											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 32 GB				D							
• 16 GB with ECC				E							
• 32 GB with ECC				F							
• 8 GB and NVRAM (M.2 module)				G							
• 16 GB and NVRAM (M.2 module)				H							
• 32 GB and NVRAM (M.2 module)				J							
• 16 GB with ECC and NVRAM (M.2 module)				K							
• 32 GB with ECC and NVRAM (M.2 module)				L							
1st mass storage											
• Without 1st mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
2nd mass storage in SIMATIC Slider (only with operating system, if without SSD1)/COM											
• Without 2nd mass storage						0					
• M.2 SSD 256 GB Eco						1					
• M.2 SSD 512 GB Eco						2					
• 1 x COM (RS232/485/422)						3					
Software configuration											
• Without operating system							0				
• Windows 10 Enterprise 2021 LTSC with Celeron, W-11155MLE, W-11555MLE processors							1				
• Windows 10 Enterprise 2021 LTSC with W-11865MLE processor							2				
Option 1											
• Pedestal (extendable, flange below)								A			
• Support arm (extendable, round tube).								B			
• Support arm (not extendable, flange on top)								C			
Option 2											
• Without USB flash drive (restore image; D&D)									A		
• With USB flash drive (restore image; D&D)									B		
Power supply											
• 24V DC industrial power supply (premium, NAU, isolated)											0

[1] IPC PX-39A PRO as "built to order" variants (max. delivery time 15 working days).

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

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Technical specifications

Article number	6AV7252-.....-.... SIMATIC IPC PX-39A PRO
General information	
Product type designation	PX-39A PRO
Installation type/mounting	
Mounting	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm
maximum permissible installation angle +/-	±45 °
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Celeron 6600HLE (2.1 GHz, 2C/2T) Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/6T) Intel Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD ≥ 240 GB
SSD	Yes; ≥ 240 GB optional
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	1x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	4x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	

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Technical specifications (continued)

Article number	6AV7252-.....-.... SIMATIC IPC PX-39A PRO
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-4, CAN/CSA CISPR22 class A; KS C 9832, FCC class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP65
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	No; in preparation
BIS	Yes
EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	2 000 m
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz up to 200 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 50 m/s², 30 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS

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Technical specifications (continued)

Article number	6AV7252-.....-.... SIMATIC IPC PX-39A PRO
without operating system	Yes; Optional

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Overview

The SIMATIC IPC PX-39A HYG devices (Micropanel PC) offer a robust front for use in the food and beverage industry as well as in the pharmaceutical industry.

- Rugged front panel with stainless steel frame, anti-shatter film and minimized grooves and gaps in compliance with Hygienic Design Guideline DIN EN 1672-2
- Optimized frame design with minimized protrusions to the control cabinet and for automatic runoff of liquids
- Stainless steel surface polished with grain size 240
- Degree of protection, front: IP66K 1, IP69 1 2 (IP69 is comparable to the former IP69K rating)
- Display and touch screen behind hardened glass with anti-shatter film
- Chemical resistance to cleaning and disinfecting agents
- Replaceable, food-safe mounting gasket
- Rear clamping frame for even application of pressure on the mounting gasket
- Mounting cutout, interfaces and functionality correspond to that of the standard device

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Selection and ordering data

SIMATIC IPC PX-39A HYG (Panel PC)	6AV72842	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processor											
• Intel® Celeron® 6600HLE 2 cores/2 threads, 2.1 GHz, 8 MB cache, TCC		1									
• Intel® Xeon® W-11155MLE 4 cores/8 threads, 1.8 (3.1) GHz, 8 MB cache, ECC, TCC		3									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		5									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		7									
Front Panel											
• 15" multi-touch (1920 x 1080)			A								
• 19" multi-touch (1920 x 1080)			B								
• 22" multi-touch (1920 x 1080)			C								
Work memory/ECC											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 32 GB				D							
• 16 GB with ECC				E							
• 32 GB with ECC				F							
• 8 GB and NVRAM (M.2 module)				G							
• 16 GB and NVRAM (M.2 module)				H							
• 32 GB and NVRAM (M.2 module)				J							
• 16 GB with ECC and NVRAM (M.2 module)				K							
• 32 GB with ECC and NVRAM (M.2 module)				L							
1st mass storage in SIMATIC Slider (incl. OS)											
• Without 1st mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
• M.2 SSD 240 GB					4						
• M.2 SSD 480 GB					5						
• M.2 SSD 960 GB					6						
• RAID1 with SSD 512 GB Eco (SSD 2 with 512 GB Eco required)					8						
2nd mass storage in SIMATIC Slider											
• Without 2nd mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
• M.2 SSD 240 GB					4						
• M.2 SSD 480 GB					5						
• M.2 SSD 960 GB					6						
• Without 2nd mass storage						0					
• M.2 SSD 256 GB Eco						1					
• M.2 SSD 512 GB Eco						2					
Operating systems											
• Without operating system								0			
• Windows 10 IoT Enterprise 2021 LTSC with Celeron, W-11155MLE processors, W-11555MLE								1			
• Windows 10 IoT Enterprise 2021 LTSC with W-11865MLE								2			
• Windows 11 IoT Enterprise 2021 LTSC with Celeron, W-11155MLE, W-11555MLE								3			
• Windows 11 Enterprise 2024 LTSC with W-11865MLE								4			
• SIMATIC Industrial OS								7			
Option 1											
• Without option 1									A		
• With 1 x PCIe slot									B		
• Additionally 1 x Com									C		
• With 1 x PCIe slot and additionally 1 x Com (RS232/485/422)									D		
Option 2											
• Without USB flash drive (restore image; D&D)										A	
• With USB flash drive (restore image; D&D)										B	
Power supply											
• 110/230 V AC industrial PS with Namur; without power cable											2

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Selection and ordering data (continued)

SIMATIC IPC PX-39A HYG (Panel PC)	6AV72842	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• 110/230 V AC industrial PS with Namur; with power cable Europe											3
• 24 V DC industry power supply (Premium, NAU, isolated, "bridging time") with ATEX											7

[1] For an up-to-date overview, see the SIMATIC IPC online configurator: http://www.siemens.com/ipc-configurators
[2] TPM = Trusted Platform Module

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview:
http://www.siemens.com/ipc-configurators

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Overview



SIMATIC IPC477E: The powerful embedded Panel PC – maintenance-free with versatile configuration

- Embedded PC platform with extremely high industrial compatibility for demanding tasks in the field of PC-based automation
- Maintenance-free (no rotating components such as fan and hard disk)
- Rugged construction: The PC is resistant to even the harshest mechanical stress and extremely reliable in operation
- Compact design
- Battery-independent retentive memory onboard
- High degree of investment security
- Fast integration capability
- Built-in versions
  - 15" TFT touch
  - 19" TFT touch
  - 22" TFT touch
  - 15" TFT multi-touch
  - 19" TFT multi-touch
  - 22" TFT multi-touch
  - 24" TFT multi-touch

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Selection and ordering data

SIMATIC IPC477E [1]	6AV7241-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processor and fieldbus											
• Celeron G3902E; 3 x Gigabit Ethernet (IE/PN)		1									
• Core i3-6102E; 3 x Gigabit Ethernet (IE/PN)		3									
• Core i5-6442EQ; 3 x Gigabit Ethernet (IE/PN)		5									
• Xeon E3-1505L; 3 x Gigabit Ethernet (IE/PN)		7									
Operating unit											
• 15" single-touch (1 280 x 800) with front USB			B								
• 19" single-touch (1 366 x 768) with front USB			D								
• 22" single-touch (1 920 x 1 080) with front USB			E								
• 19" multi-touch (1 920 x 1 080), single-touch mode only with WES7-E			G								
• 15" multi-touch (1 366 x 768), single-touch mode only with WES7-E			J								
• 19" multi-touch (1 366 x 768), single-touch mode only with WES7-E			K								
• 22" multi-touch (1 920 x 1 080), single-touch mode only with WES7-E			L								
• 24" multi-touch (1 920 x 1 080), single-touch mode only with WES7-E			R								
Work memory/NVRAM											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 8 GB with ECC				D							
• 16 GB with ECC				E							
• 4 GB and NVRAM				F							
• 8 GB and NVRAM				G							
• 16 GB and NVRAM				H							
• 8 GB with ECC and NVRAM				J							
• 16 GB with ECC and NVRAM				K							
Expansions/interfaces											
• No RS232/RS485, without PCIe					0						
• No RS232/RS485 and one PCIe					1						
• Second RS232/RS485, without PCIe					3						
• Second RS232/RS485 and one PCIe					4						
• No RS232, without PCIe with ATEX/IECEx Cat 3G Zone 2					5						
• No RS232 and one PCIe with ATEX/IECEx Cat 3G Zone 2					6						
• Two RS232 without PCIe with ATEX/IECEx Cat 3G Zone 2					7						
• Two RS232 and one PCIe with ATEX/IECEx Cat 3G Zone 2					8						
Operating system											
• Without operating system						0					
• Windows Embedded Standard 7 SP1, English, 32-bit						1					
• Windows Embedded Standard 7 SP1, English, 64-bit						2					
• Windows Embedded Standard 7 P SP1, English, 64-bit, multi-touch						3					
• Windows 7 Ultimate SP1, 64-bit, MUI (en, de, fr, it, es)						4					
• Windows 10 IoT Enterprise 2019 LTSC (64-bit) for Celeron, Core i3 and Core i5 processors						5					
• Windows 10 IoT Enterprise 2019 LTSC (64-bit) for Xeon processor						6					
• Windows 10 Enterprise 2016 LTSB (64-bit) for Celeron, Core i3 and Core i5 processors						7					
• Windows 10 Enterprise 2016 LTSB (64-bit) for Xeon processor						8					
Mass storage, externally accessible											
• Without external mass storage								0			
• CFast 2 GB, without operating system								1			
• CFast 4 GB, without operating system								2			
• CFast 8 GB (only optionally with operating system/software if no internal mass storage or HDD)								3			
• CFast 16 GB (only optionally with operating system/software if no internal mass storage or HDD)								4			
• CFast 128 GB (only optionally with operating system/software if no internal mass storage or HDD)								5			
Mass storage, internal											
• Without internal mass storage									A		
• 256 GB Eco solid-state drive									D		
• 240 GB solid-state drive SATA									F		

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Selection and ordering data (continued)

SIMATIC IPC477E [1]	6 A V 7 2 4 1 - ❑ ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• 480 GB solid-state drive SATA	G
• 320 GB HDD	J
SIMATIC Software	
• Without SIMATIC Software	A
Power supply:	
• 24 V DC industrial power supply	0
• 110/230 V AC industrial power supply unit with NAMUR; without power cable	1
• 110/230 V AC industrial power supply unit with NAMUR; European power supply cord	2
• 110/230 V AC industrial power supply unit with TPM NAMUR; without power cable	6
• 110/230 V AC industrial power supply unit with TPM NAMUR; European power supply cord	7
• 24 V DC industrial power supply and TPM [2]	8

1) For an up-to-date overview, see the SIMATIC PC online configurator: http://www.siemens.com/ipc-configurators
2) TPM = Trusted Platform Module

Note:
Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

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Technical specifications

Article number	6AV7241-.....-.... SIMATIC IPC 477E
General information	
Product type designation	IPC477E
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Rated value (DC)	24 V; PELV / SELV floating
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6

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Technical specifications (continued)

Article number	6AV7241-.....-.... SIMATIC IPC 477E
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A
Use in hazardous areas	
• ATEX Zone 2	Yes; for inscription on device rating plate
• ATEX Zone 22	Yes; for inscription on device rating plate
• IECEx Zone 2	Yes; for inscription on device rating plate
• IECEx Zone 22	Yes; for inscription on device rating plate
• CCC Ex	Yes; for inscription on device rating plate
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate
• cULus Class II Division 2	Yes; for inscription on device rating plate
• FM Class I Division 2	No
• FM Class II Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s^2 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s^2 (hard disk)

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Technical specifications (continued)

Article number	6AV7241-.....-....
	SIMATIC IPC 477E
Shock testing	
• Shock load during operation	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional
Software	
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle

Article number	6AV7241-.B...-....	6AV7241-.D...-....	6AV7241-.E...-....	6AV7241-.G...-....	6AV7241-.J...-....	6AV7241-.K...-....	6AV7241-.L...-....	6AV7241-.R...-....	6AV7241-.S...-....
	SIMATIC IPC477E 15" ST (1280 x 800)	SIMATIC IPC477E 19" ST (1366 x 768)	SIMATIC IPC477E 22" ST (1920 x 1080)	SIMATIC IPC 477E 19" MT (1920 x 1080)	SIMATIC IPC477E 15" MT (1366 x 768)	SIMATIC IPC477E 19" MT (1366 x 768)	SIMATIC IPC477E 22" MT (1920 x 1080)	SIMATIC IPC477E 24" MT (1920 x 1080)	SIMATIC IPC477E 24" MT (1920x1080) neutr
General information									
Product type designation	IPC477E	IPC477E	IPC477E		IPC477E	IPC477E	IPC477E	IPC477E	IPC477E
Display									
Design of display	15" TFT touch	19" TFT touch	22" TFT touch	19" TFT multi-touch	15" TFT multi-touch	19" TFT multi-touch	22" TFT multi-touch	24" TFT multi-touch	24" TFT multi-touch
Screen diagonal	15.6 in	18.5 in	21.5 in	18.5 in	15.6 in	18.5 in	21.5 in	23.8 in	23.8 in
Resolution (pixels)									
• Horizontal image resolution	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel	1 366 pixel	1 366 pixel	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	800 pixel	768 pixel	1 080 pixel	1 080 pixel	768 pixel	768 pixel	1 080 pixel	1 080 pixel	1 080 pixel
Backlighting									
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	30 000 h	50 000 h	50 000 h	50 000 h	30 000 h	30 000 h	30 000 h
Control elements									
Input device									
• Mouse, at front	Front USB 2.0 (500mA)	No	No	No	No	No	No	No	No
Keyboard									
• Function keys	No	No	No	No	No	No	No	No	No
• alphanumeric keyboard	No	No	No	No	No	No	No	No	No
Touch operation									
• Design as touch screen	Yes; analog, resistive	Yes; analog, resistive	Yes; analog, resistive						
• Design as multi-touch screen				Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting									
Mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting		For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit		Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit	Panel PC, built-in unit
central design	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
distributed design	No	No	No	No	No	No	No	No	No
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage									
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC		100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating		24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Line frequency									
• Rated value 50 Hz	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Rated value 60 Hz	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Mains buffering									

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Technical specifications (continued)

Article number	6AV7241-.B...-.... SIMATIC IPC477E 15" ST (1280 x 800)	6AV7241-.D...-.... SIMATIC IPC477E 19" ST (1366 x 768)	6AV7241-.E...-.... SIMATIC IPC477E 22" ST (1920 x 1080)	6AV7241-.G...-.... SIMATIC IPC 477E 19" MT (1920 x 1080)	6AV7241-.J...-.... SIMATIC IPC477E 15" MT (1366 x 768)	6AV7241-.K...-.... SIMATIC IPC477E 19" MT (1366 x 768)	6AV7241-.L...-.... SIMATIC IPC477E 22" MT (1920 x 1080)	6AV7241-.R...-.... SIMATIC IPC477E 24" MT (1920 x 1080)	6AV7241-.S...-.... SIMATIC IPC477E 24" MT (1920x1080) neutr
• Mains/voltage failure stored energy time	20 ms	20 ms	20 ms		20 ms	20 ms	20 ms	20 ms	20 ms
Power loss									
In full configuration	24 V DC: max. 65 W, PCIe APCB additionally 5 W	24 V DC: max. 65 W, PCIe APCB additionally 5 W	24 V DC: max. 74 W, PCIe APCB additionally 5 W	24 V DC: max. 82 W, 110 ... 230 V AC	24 V DC: max. 88 W, 110 ... 230 V AC	24 V DC: max. 82 W, 110 ... 230 V AC	24 V DC: max. 88 W, 110 ... 230 V AC	24 V DC: max. 88 W, 110 ... 230 V AC	24 V DC: max. 88 W, 110 ... 230 V AC
Processor									
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)		Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110		Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110
Graphic									
Graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller		Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller
Drives									
Hard disk	2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB		2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB	Yes; 128 / 240 / 480 GB	Yes; 128 / 240 / 480 GB		Yes; 128 / 240 / 480 GB	Yes; 128 / 240 / 480 GB	Yes; 128 / 240 / 480 GB	Yes; 128 / 240 / 480 GB	Yes; 128 / 240 / 480 GB
Storage									
Type of memory	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM		DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional		4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity									
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional		512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration									
Slots									
• free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card	1x PCIe (slot with card retainer), 1x slot for CFAST card	1x PCIe (slot with card retainer), 1x slot for CFAST card		1x PCIe (slot with card retainer), 1x slot for CFAST card	1x PCIe (slot with card retainer), 1x slot for CFAST card	1x PCIe (slot with card retainer), 1x slot for CFAST card	1x PCIe (slot with card retainer), 1x slot for CFAST card	1x PCIe (slot with card retainer), 1x slot for CFAST card
Interfaces									
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)		3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0	4x USB 3.0	4x USB 3.0		4x USB 3.0	4x USB 3.0	4x USB 3.0	4x USB 3.0	4x USB 3.0
Connection for keyboard/mouse	USB / USB	USB / USB	USB / USB		USB / USB	USB / USB	USB / USB	USB / USB	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS		Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces									
• Graphics interface	2x DisplayPort	2x DisplayPort	2x DisplayPort		2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort
Industrial Ethernet									
• Industrial Ethernet interface	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)		3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Integrated Functions									
Monitoring functions									

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Technical specifications (continued)

Article number	6AV7241-.B...-.... SIMATIC IPC477E 15" ST (1280 x 800)	6AV7241-.D...-.... SIMATIC IPC477E 19" ST (1366 x 768)	6AV7241-.E...-.... SIMATIC IPC477E 22" ST (1920 x 1080)	6AV7241-.G...-.... SIMATIC IPC 477E 19" MT (1920 x 1080)	6AV7241-.J...-.... SIMATIC IPC477E 15" MT (1366 x 768)	6AV7241-.K...-.... SIMATIC IPC477E 19" MT (1366 x 768)	6AV7241-.L...-.... SIMATIC IPC477E 22" MT (1920 x 1080)	6AV7241-.R...-.... SIMATIC IPC477E 24" MT (1920 x 1080)	6AV7241-.S...-.... SIMATIC IPC477E 24" MT (1920x1080) neutr
• Temperature monitoring	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Watchdog	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Fan	No	No	No		No	No	No	No	No
• Monitoring function via network	Optional	Optional	Optional		Optional	Optional	Optional	Optional	Optional
EMC									
Interference immunity against discharge of static electricity									
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2		±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields									
• Interference immunity against high frequency radiation	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6		10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6
Interference immunity to cable-borne interference									
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m		±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m		±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge									
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric		±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric		±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields									
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8		100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference									
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A		EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A

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Technical specifications (continued)

Article number	6AV7241-.B...-....	6AV7241-.D...-....	6AV7241-.E...-....	6AV7241-.G...-....	6AV7241-.J...-....	6AV7241-.K...-....	6AV7241-.L...-....	6AV7241-.R...-....	6AV7241-.S...-....
	SIMATIC IPC477E 15" ST (1280 x 800)	SIMATIC IPC477E 19" ST (1366 x 768)	SIMATIC IPC477E 22" ST (1920 x 1080)	SIMATIC IPC 477E 19" MT (1920 x 1080)	SIMATIC IPC477E 15" MT (1366 x 768)	SIMATIC IPC477E 19" MT (1366 x 768)	SIMATIC IPC477E 22" MT (1920 x 1080)	SIMATIC IPC477E 24" MT (1920 x 1080)	SIMATIC IPC477E 24" MT (1920x1080) neutr
Degree and class of protection									
IP (at the front)	IP65	IP65	IP65		IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20		IP20	IP20	IP20	IP20	IP20
Standards, approvals, certificates									
CE mark	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
CSA approval	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• UL 508	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
FCC	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A		CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A
Use in hazardous areas									
• ATEX Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate		Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• ATEX Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate		Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate		Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate		Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• CCC Ex	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate		Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate		Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• cULus Class II Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate		Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• FM Class I Division 2	No	No	No		No	No	No	No	No
• FM Class II Division 2	No	No	No		No	No	No	No	No
Marine approval									
• Germanischer Lloyd (GL)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• American Bureau of Shipping (ABS)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes
Ambient conditions									
Ambient temperature during operation									

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Technical specifications (continued)

Article number	6AV7241-.B...-....	6AV7241-.D...-....	6AV7241-.E...-....	6AV7241-.G...-....	6AV7241-.J...-....	6AV7241-.K...-....	6AV7241-.L...-....	6AV7241-.R...-....	6AV7241-.S...-....
	SIMATIC IPC477E 15" ST (1280 x 800)	SIMATIC IPC477E 19" ST (1366 x 768)	SIMATIC IPC477E 22" ST (1920 x 1080)	SIMATIC IPC 477E 19" MT (1920 x 1080)	SIMATIC IPC477E 15" MT (1366 x 768)	SIMATIC IPC477E 19" MT (1366 x 768)	SIMATIC IPC477E 22" MT (1920 x 1080)	SIMATIC IPC477E 24" MT (1920 x 1080)	SIMATIC IPC477E 24" MT (1920x1080) neutr
• min.	0 °C	0 °C	0 °C		0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C		45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity									
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)		Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
Vibrations									
• Vibration resistance during operation acc. to IEC 60068-2-6	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)		IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)
Shock testing									
• Shock load during operation	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)		IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)
Operating systems									
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10		Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional	Yes; Optional	Yes; Optional		Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional
Software									
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle		Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
Dimensions									
Width of the housing front	415 mm	483 mm	560 mm	464 mm	398 mm	464 mm	529 mm	585 mm	585 mm
Height of housing front	310 mm	337 mm	380 mm	294 mm	257 mm	294 mm	331 mm	363 mm	363 mm
Weights									
Weight, approx.	6.8 kg	8.4 kg	9.5 kg	7.9 kg	5.2 kg	6.6 kg	7.9 kg	9 kg	9 kg

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Overview



SIMATIC IPC477E PRO

The SIMATIC IPC477E PRO with fully-enclosed IP65 degree of protection in 15", 19" and 22" versions extends the portfolio of PRO devices.

The robust aluminum enclosure allows it to be used directly on the machine even in harsh ambient conditions.
The operating unit can either be mounted on a pedestal or connected to a support arm system from above.

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Selection and ordering data

SIMATIC IPC477E PRO [1]	6AV7251-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
CPUs and fieldbus											
• Celeron G3902E; 3x Gigabit Ethernet (IE/PN)		1									
• Core i3-6102E; 3x Gigabit Ethernet (IE/PN)		3									
• Core i5-6442EQ; 3x Gigabit Ethernet (IE/PN)		5									
• XEON E3-1505L; 3x Gigabit Ethernet (IE/PN)		7									
Operating unit											
• 15" multi-touch (1 366 x 768), for support arm (not expandable, flange on top)			B								
• 15" multi-touch (1 366 x 768), for pedestal (expandable, flange below)			C								
• 15" multi-touch (1 366 x 768), for support arm (expandable, round tube)			D								
• 19" multi-touch (1 366 x 768), for support arm (not expandable, flange on top)			E								
• 19" multi-touch (1 366 x 768), for pedestal (expandable, flange below)			F								
• 19" multi-touch (1 366 x 768), for support arm (expandable, round tube)			G								
• 22" multi-touch (1 920 x 1 080), for support arm (not expandable, flange on top)			H								
• 22" multi-touch (1 920 x 1 080), for pedestal (expandable, flange below)			J								
• 22" multi-touch (1 920 x 1 080), for support arm (expandable, round tube)			K								
• 19" multi-touch (1 920 x 1 080), for pedestal (expandable, flange below)			V								
• 19" multi-touch (1 920 x 1 080), for support arm (expandable, round tube)			W								
• 24" multi-touch (1 920 x 1 080), for pedestal (expandable, flange below)			X								
• 24" multi-touch (1 920 x 1 080), for support arm (expandable, round tube)			Y								
Work memory/NVRAM											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 8 GB with ECC				D							
• 16 GB with ECC				E							
• 4 GB and NVRAM				F							
• 8 GB and NVRAM				G							
• 16 GB and NVRAM				H							
• 8 GB with ECC and NVRAM				J							
• 16 GB with ECC and NVRAM				K							
Expansions/interfaces											
• No RS232/485, without PCIe					0						
• Two RS232/RS485, without PCIe					3						
• No RS232 without PCIe with ATEX/IECEx Cat 3G Zone 2 / cULus Class I Div. 2					5						
• Two RS232 without PCIe with ATEX/IECEx Cat 3G Zone 2 / cULus Class I Div. 2					6						
Operating system											
• Without operating system						0					
• Windows Embedded Standard 7 SP1, English, 32-bit						1					
• Windows Embedded Standard 7 SP1, English, 64-bit						2					
• Windows Embedded Standard 7 P SP1, MUI, 64-bit, multi-touch						3					
• Windows 7 Ultimate SP1, 64-bit, MUI (en, de, fr, it, es)						4					
• Windows 10 Enterprise 2019 LTSC (64-bit) for Celeron, I3 and I5						5					
• Windows 10 Enterprise 2019 LTSC (64-bit) for Xeon						6					
• Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Celeron, I3 and I5						7					
• Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Xeon						8					
Mass storage, external											
• Without external mass storage								0			
• CFast 2 GB, without operating system								1			
• CFast 4 GB, without operating system								2			
• CFast 8 GB (only optionally with operating system/software if no internal mass storage or HDD)								3			
• CFast 16 GB (only optionally with operating system/software if no internal mass storage or HDD)								4			
• CFast 128 GB (only optionally with operating system/software if no internal mass storage or HDD)								5			
Mass storage, internal											
• Without internal mass storage										A	

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Selection and ordering data (continued)

SIMATIC IPC477E PRO [1]	6AV7251-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• 128 GB solid-state drive SATA									D		
• 240 GB solid-state drive SATA									F		
• 480 GB solid-state drive SATA									G		
SIMATIC Software											
• Without SIMATIC Software										A	
Power supply											
• 24 V DC industrial power supply											0
• 24 V DC industrial power supply and TPM [2] (not for China or Russia)											8

[1] IPC477E PRO as "built to order" versions (max. delivery time 15 working days).
[2] TPM = Trusted Platform Module

Note:
As with the existing 4:3 IPC477C/D PRO devices, adaptation to different support arm/pedestal systems is by means of the basic adapter. The basic adapter is included in the scope of supply (except in the case of the "prepared for support arm and extension components" version, as the connection is made via a round tube).

For the version "prepared for support arm and extension components", installation can alternatively take place with the Siemens round tube adapter or with a standard 48 mm diameter round tube. The round tube adapter enables the transition from a round tube connection to the familiar mechanical interface of the basic adapter. This means you can combine different versions of the PRO devices with the same support arm or pedestal system.

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Technical specifications

Article number	6AV7251-.....-.... SIMATIC IPC477E PRO
General information	
Product type designation	IPC477E
Installation type/mounting	
Mounting	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm
maximum permissible installation angle +/-	±45 °
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
SSD	Yes; ≥ 128 GB optional
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0 onboard (rear)
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	

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Technical specifications (continued)

Article number	6AV7251-.....-.... SIMATIC IPC477E PRO
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP65
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
Use in hazardous areas	
• ATEX Zone 2	Yes; for inscription on device rating plate
• ATEX Zone 22	Yes; for inscription on device rating plate
• IECEx Zone 2	Yes; for inscription on device rating plate
• IECEx Zone 22	Yes; for inscription on device rating plate
• CCC Ex	Yes; for inscription on device rating plate
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate
• cULus Class II Division 2	Yes; for inscription on device rating plate
• FM Class I Division 2	No
• FM Class II Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional

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Technical specifications (continued)

Article number	6AV7251-.B...-....	6AV7251-.C...-....	6AV7251-.D...-....	6AV7251-.E...-....	6AV7251-.F...-....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J...-....	6AV7251-.K...-....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
General information									
Product type designation	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E
Display									
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	15 in	15 in	15 in	19 in	19 in	19 in	22 in	22 in	22 in
Resolution (pixels)									
• Horizontal image resolution	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel	1 080 pixel	1 080 pixel	1 080 pixel
Control elements									
Touch operation									
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting									
Mounting	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm
Support arm mounting	Yes; Suitable for support arm without extension components	No	Yes; Suitable for support arm and extension components (please refer to manual)	Yes; Suitable for support arm without extension components	No	Yes; Suitable for support arm and extension components (please refer to manual)	Yes; Suitable for support arm without extension components	No	Yes; Suitable for support arm and extension components (please refer to manual)
Stand mounting	No	Yes; Prepared for pedestal and extension components	No	No	Yes; Prepared for pedestal and extension components	No	No	Yes; Prepared for pedestal and extension components	No
Mounting in portrait format possible	No	No	No	No	No	No	No	No	No
maximum permissible installation angle +/-	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °
Supply voltage									
Type of supply voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Mains buffering									
• Mains/voltage failure stored energy time	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms
Processor									
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110
Graphic									
Graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller
Drives									
SSD	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional
Storage									
Type of memory	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM

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Technical specifications (continued)

Article number	6AV7251-.B...-.... SIMATIC IPC477E PRO, 15 MTouch	6AV7251-.C...-.... SIMATIC IPC477E PRO, 15 MTouch	6AV7251-.D...-.... SIMATIC IPC477E PRO, 15 MTouch	6AV7251-.E...-.... SIMATIC IPC477E PRO, 19 MTouch	6AV7251-.F...-.... SIMATIC IPC477E PRO, 19 MTouch	6AV7251-.G...-.... SIMATIC IPC477E PRO, 19 MTouch	6AV7251-.H...-.... SIMATIC IPC477E PRO, 22 MTouch	6AV7251-.J...-.... SIMATIC IPC477E PRO, 22 MTouch	6AV7251-.K...-.... SIMATIC IPC477E PRO, 22 MTouch
Main memory	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity									
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time
Interfaces									
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)
Connection for keyboard/mouse	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces									
• Graphics interface	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort
Industrial Ethernet									
• Industrial Ethernet interface	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Functions									
Monitoring functions									
• Temperature monitoring	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Watchdog	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Fan	No	No	No	No	No	No	No	No	No
• Monitoring function via network	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
EMC									
Interference immunity against discharge of static electricity									
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields									
• Interference immunity against high frequency radiation	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6
Interference immunity to cable-borne interference									
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric

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Technical specifications (continued)

Article number	6AV7251-.B...-....	6AV7251-.C...-....	6AV7251-.D...-....	6AV7251-.E...-....	6AV7251-.F...-....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J...-....	6AV7251-.K...-....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge									
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields									
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference									
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection									
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Standards, approvals, certificates									
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CSA approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• UL 508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
Use in hazardous areas									
• ATEX Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• ATEX Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• CCC Ex	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate

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Technical specifications (continued)

Article number	6AV7251-.B...-....	6AV7251-.C...-....	6AV7251-.D...-....	6AV7251-.E...-....	6AV7251-.F...-....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J...-....	6AV7251-.K...-....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• cULus Class II Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• FM Class I Division 2	No	No	No	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No	No	No	No
Marine approval									
• Germanischer Lloyd (GL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions									
Ambient temperature during operation									
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity									
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations									
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing									
• Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis
Operating systems									
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional
Accessories									
Accessory components			6AV7674-1KF0-0-0AA0 - Flange mount for installation (refer to manual)		Basic adapter for mounting (MLFB: 6AV7674-1KA0-0-0AA0)	6AV7674-1KF0-0-0AA0 - Flange mount for installation (refer to manual)			6AV7674-1KF0-0-0AA0 - Flange mount for installation (refer to manual)

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Technical specifications (continued)

Article number	6AV7251-.B... -....	6AV7251-.C... -....	6AV7251-.D...-....	6AV7251-.E... -....	6AV7251-.F... -....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J... -....	6AV7251-.K... -....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
Dimensions									
Width of the housing front	396 mm	396 mm	396 mm	462 mm	462 mm	462 mm	527 mm	527 mm	527 mm
Height of housing front	255 mm; Without basic adapter	255 mm; Without basic adapter	255 mm	292 mm; Without basic adapter	292 mm; Without basic adapter	292 mm	329 mm; Without basic adapter	329 mm; Without basic adapter	329 mm
Weights									
Weight, approx.	6.8 kg	6.8 kg	7.5 kg	8.2 kg	8.2 kg	8.8 kg	9.3 kg	9.3 kg	9.9 kg

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Overview

SIMATIC IPC677E: The high-end Panel PC – with maximum performance, functional scope and expansion capability

Industrial PC platform with extremely high industrial compatibility for demanding tasks in the field of PC-based automation.

Rugged construction: The IPC is resistant to even the harshest mechanical stress and extremely reliable in operation.

- Compact design
- High degree of investment security
- High degree of expandability

The following widescreen front variants are available:

- 19", 22" or 24" capacitive multi-touch color display

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Selection and ordering data

SIMATIC IPC677E [1]	6AV7261	-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
UHD graphics onboard; 2x DP; 1x DVI-D; 3x Gigabit Ethernet (IE/PN) RJ45; 6x USB 3.1 Gen. 2; 1x serial (COM1); RAID controller onboard; watchdog, temperature/fan monitoring												
Operating unit												
• 19" multi-touch (1 920 x 1 080)			0									
• 22" multi-touch (1 920 x 1 080)			1									
• 24" multi-touch (1 920 x 1 080)			2									
Processor												
• Intel Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d);				A								
• Intel Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); NVRAM				B								
• Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d)				C								
• Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); NVRAM				D								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)				G								
• Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT); NVRAM				H								
Drives												
• HDD 2.5" SATA 320 GB internal					A							
• SSD 2.5" SATA 480 GB internal					B							
• SSD 2.5" SATA 960 GB internal					D							
• RAID1 2x SSD 2.5" SATA 480 GB internal					E							
• RAID1 2x SSD 2.5" SATA 480 GB in removable drive bay					G							
• RAID1 2x SSD 2.5" SATA 960 GB in removable drive bay					H							
• M.2 SSD NVMe 512 GB					J							
• M.2 SSD NVMe 512 GB; HDD 2.5" SATA 320 GB internal					K							
• M.2 SSD NVMe 512 GB; SSD 2.5" SATA 480 GB internal					L							
• M.2 SSD NVMe 512 GB; SSD 2.5" SATA 960 GB internal					M							
• M.2 SSD NVMe 512 GB; RAID1 2x SSD 2.5" SATA 480 GB in removable drive bay					Q							
• M.2 SSD NVMe 512 GB; 2 removable drive bays without media					S							
Memory configuration												
• 4 GB DDR4-2666 (1x 4 GB)						0						
• 8 GB DDR4-2666 (2x 4 GB)						1						
• 16 GB DDR4-2666 (2x 8 GB)						2						
• 32 GB DDR4-2666 (2x 16 GB)						3						
• 64 GB DDR4-2666 (4x 16 GB)						4						
Power supply												
• 24 V DC industrial power supply							0					
• 110/230 V AC industrial power supply unit with NAMUR; without power cable							1					
• 110/230 V AC industrial power supply unit with NAMUR; power supply cord Europe							2					
• 110/230 V AC industrial power supply unit with NAMUR; power supply cord USA							3					
• 110/230 V AC industrial power supply unit with NAMUR; power supply cord China							4					
• 24 V DC industrial power supply; ATEX/IECEx/UL HazLoc device certification							6					
Operating system												
• Windows 10 Enterprise 2016 LTSB, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3								0				
• Windows 10 Enterprise 2016 LTSB, 64-bit, MUI (en, de, fr, it, es), for Core i7								1				
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3								2				
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, sp), for Core i7								3				
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3								**4**				
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es); for Celeron and i3								**5**				
• Without operating system								8				
Expansion (SW)												
• Without expansion										A		

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Selection and ordering data (continued)

SIMATIC IPC677E [1]	6AV7261	- ❑ ❑ ❑ ❑ ❑ - ❑ ❑ ❑ ❑
• SIMATIC IPC DiagMonitor included		B
• SIMATIC IPC Image & Partition Creator included		C
• SIMATIC IPC DiagMonitor, Image & Partition Creator included		D
• TPM [2]		X
Expansion 1 (HW)		
• Without expansion (HW)		A
• 2x USB 2.0 (1 slot occupied)		B
• Device without CMOS battery (CR2450N)		C
Expansion 2 (HW)		
• 2 x PCI		0
• 1 x PCIe (x16); 1 x PCI		1
• 1 x PCIe (x16); 1 x PCIe (x4)		2

1) Production and delivery as per order
2) TPM = Trusted Platform Module

Note:

Please assemble the required IPC configuration using the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

For an up-to-date overview, see the SIMATIC IPC online configurator

Accessories	
Memory expansion	
• 4 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL60-0QA0**
• 8 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL70-0QA0**
• 16 GB DDR4 2666 SDRAM, DIMM	**6ES7648-2AL80-0QA0**
Non-heating apparatus cable for SIMATIC Box and Panel PC	
SIMATIC PC power cable, 230 V AC, angled, 3 m, for:	
• Germany	**6ES7900-1AA00-0XA0**
• United Kingdom	**6ES7900-1BA00-0XA0**
• Switzerland	**6ES7900-1CA00-0XA0**
• USA	**6ES7900-1DA00-0XA0**
• Italy	**6ES7900-1EA00-0XA0**
• China	**6ES7900-1FA00-0XA0**
Touch pen	See "SIMATIC HMI accessories -> Input tools"
Expansion components	See Expansion components
Communication components	See Expansion components

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Technical specifications

Article number	6AV7261-.....-.... SIMATIC IPC677E (Panel PC)
General information	
Product type designation	IPC677E
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)
Chipset	Intel C246
Graphic	
Graphics controller	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay
Storage	
Type of memory	DDR4-2666 DIMM
Main memory	4 / 8 / 16 / 32 / 64 GB
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
• free slots	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	6x USB 3.1 Gen. 2 (2x type C)
Connection for keyboard/mouse	USB / USB
serial interface	1x COM
Video interfaces	
• Graphics interface	2x DisplayPort; 1x DVI-D
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	

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Technical specifications (continued)

Article number	6AV7261-.....-.... SIMATIC IPC677E (Panel PC)
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Use in hazardous areas	
• ATEX Zone 2	Yes; Optional
• ATEX Zone 22	Yes; Optional
• IECEx Zone 2	Yes; Optional
• IECEx Zone 22	Yes; Optional
• CCC Ex	Yes; Optional
• cULus Class I Zone 2, Division 2	Yes; Optional
• cULus Class II Division 2	Yes; Optional
Marine approval	
• American Bureau of Shipping (ABS)	Yes; Only with SSD
• Bureau Veritas (BV)	Yes; Only with SSD
• Det Norske Veritas (DNV)	Yes; Only with SSD
• Korean Register of Shipping (KRS)	Yes; Only with SSD
• Lloyds Register of Shipping (LRS)	Yes; Only with SSD
• Nippon Kaiji Kyokai (Class NK)	Yes; Only with SSD
• Chinese Classification Society (CCS)	Yes; Only with SSD
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C
• max.	45 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)
Shock testing	

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Technical specifications (continued)

Article number	6AV7261-.....-....
	SIMATIC IPC677E (Panel PC)
• Shock load during operation	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI
without operating system	Yes; Optional

Article number	6AV7261-0....-....	6AV7261-1....-....	6AV7261-2....-....
	SIMATIC IPC677E, 19" Multitouch	SIMATIC IPC677E, 22" Multitouch	SIMATIC IPC677E, 24" Multitouch
Display			
Design of display	19" TFT multi-touch	22" TFT multi-touch	24" TFT multi-touch
Screen diagonal	19 in	22 in	24 in
Resolution (pixels)			
• Horizontal image resolution	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	1 080 pixel	1 080 pixel	1 080 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	50 000 h	30 000 h	30 000 h
Control elements			
Touch operation			
• Design as touch screen	Yes	Yes	Yes
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting			
central design	Yes	Yes	Yes
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible		Yes	Yes
Power loss			
In full configuration	150 W	150 W	150 W
Dimensions			
Width of the housing front	464 mm	529 mm	585 mm
Height of housing front	294 mm	331 mm	363 mm
Weights			
Weight, approx.	9.5 kg	10.5 kg	12.5 kg

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Overview



SIMATIC mobile devices are built for the toughest job, designed to optimize mobile productivity. We deliver the solution for real-time data entry and accessibility anytime and anywhere, from indoor to outdoor, from one production line to the whole fields. Ideal for manufacturing, field services, logistics and stock-keeping, utilities, and public safety.

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Overview



SIMATIC Industrial Tablet PC SIMATIC IPC MD-34A opens up new possibilities and concepts as a component of Industry 4.0.
With its numerous functionalities and high performance, it meets the diverse requirements of users from different industries and fields of activity.

Selection and ordering data

SIMATIC Tablet PC Entry 10.1" multi-touch, 256 GB SSD, 8 GB RAM, Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1280 x 800 pixels Brightness: 350 cd/m², Wi-Fi, Bluetooth, with 3500 mAh battery; Suitable power supply cable must be selected	**6AV7880-4AA01-0AA1**
SIMATIC Tablet PC Entry Plus 10.1" multi-touch, 256 GB SSD, 8 GB RAM Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1280 x 800 pixels Brightness: 350 cd/m², Wi-Fi, Bluetooth, 1D/2D bar code reader, built-in global 4G/LTE module, with 3500 mAh battery; Suitable power supply cable must be selected	**6AV7880-4BA01-0AA1**
SIMATIC Tablet PC High End 10.1" multi-touch, 512 GB SSD, 32 GB RAM, Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1920 x 1200 pixels, Brightness: 800 cd/m², Wi-Fi, Bluetooth, 1D/2D bar code reader, built-in HF RFID read module, built-in global 4G/LTE module, GPS & GLONASS integrated, with 3500 mAh battery; Suitable power supply cable must be selected	**6AV7880-4CB01-1AA1**
SIMATIC Tablet PC Automation 10.1" multi-touch, 256 GB SSD, 16 GB RAM Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1280 x 800 pixels Brightness: 350 cd/m², Wi-Fi, Bluetooth, built-in HF RFID read module, with 3500 mAh battery; Suitable power supply cable must be selected	**6AV7880-4DB01-1AA1**
SIMATIC Tablet PC Outdoor 10.1" multi-touch, 256 GB SSD, 8 GB RAM, Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1920 x 1200 pixels, Brightness: 800 cd/m², Wi-Fi, Bluetooth, built-in global 4G/LTE module, GPS & GLONASS integrated, with 3500 mAh battery; Suitable power supply cable must be selected	**6AV7880-4EB01-1AA1**
Accessories	
SIMATIC IPC MD-34A Desk Docking Accessory, for all configurations of the MD-34A, 1 x LAN 10/100 Mbps, 2 x USB 2.0 1 x RS232, 1 x VGA, input 19 V DC, 2 x USB 2.0 on the side; Suitable power supply cable to be selected	**6AV7676-1AC00-0AA0**
SIMATIC IPC MD-34A Vehicle Dock Accessory, for all configurations of the MD-34A, 1 x LAN 10/100 Mbps, 2 x USB 2.0 1 x RS232, 1 x VGA, input 9-36 V DC, 2 x USB 2.0 on the side; Suitable power supply cable to be selected	**6AV7676-1AC10-0AA0**
SIMATIC IPC MD-34A battery charging unit With 2 charging stations; Suitable power supply cable must be selected	**6AV7676-3AC00-0AA0**

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Selection and ordering data (continued)

SIMATIC MD-34A rechargeable battery kit Lithium-ion, approx. 3500 mAh, including mounting accessories, 6 months warranty, spare part	**6AV7676-3AC10-0AA0**
SIMATIC IPC MD-34A shoulder strap Accessory, for all configurations of the MD-34A	**6AV7676-4AC00-0AA0**
SIMATIC IPC MD-34A hand strap Accessory, for all configurations of the MD-34A	**6AV7676-4AC10-0AA0**

Technical specifications

Article number	6AV7880-4BA-01-0AA1	6AV7880-4DB-01-1AA1	6AV7880-4EB-01-1AA1	6AV7880-4AA-01-0AA2	6AV7880-4BA-01-0AA2	6AV7880-4CB-01-1AA2	6AV7880-4DB-01-1AA2	6AV7880-4EB-01-1AA2
	SIMATIC IPC MD-34A Entry Plus	SIMATIC IPC MD-34A Automation	SIMATIC IPC MD-34A Outdoor	SIMATIC IPC MD-34A Entry w/ Type C PD	SIMATIC IPC MD-34A Entry Plus w/ PD	SIMATIC IPC MD-34A High End w/ PD	SIMATIC IPC MD-34A Automation w/PD	SIMATIC IPC MD-34A Outdoor w/PD
General information								
Design of the programming device	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer
Display								
Design of display	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch
Screen diagonal	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting
Resolution (pixels)								
• Horizontal image resolution	1 280 pixel	1 280 pixel	1 920 pixel	1 280 pixel	1 280 pixel	1 920 pixel	1 280 pixel	1 920 pixel
• Vertical image resolution	800 pixel	800 pixel	1 200 pixel	800 pixel	800 pixel	1 200 pixel	800 pixel	1 200 pixel
General features								
• Non-reflecting	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass
• Luminance	350 cd/m²	350 cd/m²	800 cd/m²	350 cd/m²	350 cd/m²	800 cd/m²	350 cd/m²	800 cd/m²
Backlighting								
• Type of backlighting	LED	LED	LED	LED	LED	LED	LED	LED
Control elements								
Keyboard								
• Design	Touch	Touch	Touch	Touch	Touch	Touch	Touch	Touch
Touch operation								
• Integrated touch pad				No	No	No	No	No
Supply voltage								
Design of the power supply	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole
Rated value (DC)	19 V	19 V	19 V	19 V	19 V	19 V	19 V	19 V
Processor								
Processor type	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz
Chipset	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH
Hyper-threading	No	No	No	No	No	No	No	No
Turbo Boost Technology 2.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graphic								
Graphics controller	Intel® Iris® Xe Integrated Graphics Controller	Intel® Iris® Xe Integrated Graphics Controller	Intel® Iris® Xe Integrated Graphics Controller	Intel® Iris® Xe Integrated Graphics Controller	Intel® Iris® Xe Integrated Graphics Controller	Intel® Iris® Xe Integrated Graphics Controller	Intel® Iris® Xe Integrated Graphics Controller	Intel® Iris® Xe Integrated Graphics Controller
Drives								
CD-RW	No	No	No	No	No	No	No	No
DVD-ROM	No	No	No	No	No	No	No	No
DVD-RW	No	No	No	No	No	No	No	No
Hard disk	No	No	No	No	No	No	No	No
• Memory capacity	8 Gbyte	16 Gbyte	16 Gbyte	8 Gbyte	8 Gbyte	32 Gbyte	16 Gbyte	16 Gbyte
SSD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7880-4BA-01-0AA1	6AV7880-4DB-01-1AA1	6AV7880-4EB-01-1AA1	6AV7880-4AA-01-0AA2	6AV7880-4BA-01-0AA2	6AV7880-4CB-01-1AA2	6AV7880-4DB-01-1AA2	6AV7880-4EB-01-1AA2
	SIMATIC IPC MD-34A Entry Plus	SIMATIC IPC MD-34A Automation	SIMATIC IPC MD-34A Outdoor	SIMATIC IPC MD-34A Entry w/ Type C PD	SIMATIC IPC MD-34A Entry Plus w/ PD	SIMATIC IPC MD-34A High End w/ PD	SIMATIC IPC MD-34A Automation w/PD	SIMATIC IPC MD-34A Outdoor w/PD
• Memory capacity	256 Gbyte	256 Gbyte	512 Gbyte	256 Gbyte	256 Gbyte	512 Gbyte	256 Gbyte	512 Gbyte
TPM Security Chip	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)
Storage								
Type of memory	DDR4 SO-DIMM	DDR4 SDRAM	DDR4 SDRAM	DDR4 SO-DIMM	DDR4 SO-DIMM	DDR4 SO-DIMM	DDR4 SO-DIMM	DDR4 SO-DIMM
Work memory								
• Integrated	8 Gbyte	16 Gbyte	16 Gbyte	8 Gbyte	8 Gbyte	32 Gbyte	16 Gbyte	16 Gbyte
• Number of slots	1	1	1	1	1	1	1	1
Accumulator								
Replaceable	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery
Capacity	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h
Battery runtime, min.	6 h	6 h	6 h	6 h	6 h	6 h	6 h	6 h
Hardware configuration								
Slots								
• Number of ExpressCard slots	0	0	0	0	0	0	0	0
Interfaces								
Number of industrial Ethernet interfaces	1	1	1	1	1	1	1	1
Number of interfaces PROFIBUS DP	0	0	0	0	0	0	0	0
Number of RS 232 interfaces	0	0	0	0	0	0	0	0
Number of USB interfaces	2	2	2	2	2	2	2	2
• Type A	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0
• type C	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0
MPI	No	No	No	No	No	No	No	No
Bluetooth radio standard	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3
Universal Audio Jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack
Video interfaces								
• analog video signal (VGA)	No	No	No	No	No	No	No	No
• DVI-I	No	No	No	No	No	No	No	No
• DisplayPort	No	No	No	No	No	No	No	No
• Micro HDMI	Yes	Yes	Yes; combo audio socket for 3.5 mm jack	Yes	Yes	Yes	Yes	Yes
Industrial Ethernet								
• Industrial Ethernet interface								
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Wake on LAN	No	No	No	No	No	No	No	No
• IAMT (Intel Active Management Technology)	No	No	No	No	No	No	No	No
WLAN								
• Type	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax and global 4G LTE module
Wireless transmission								
• Protocol for wireless transmission			Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B			Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B		Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B
• Operating frequency (rated value)			13.56 MHz			13.56 MHz		13.56 MHz
• Range, max.			30 mm			30 mm		30 mm
• Multitag capability			Yes			Yes	No	Yes

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Technical specifications (continued)

Article number	6AV7880-4BA-01-0AA1	6AV7880-4DB-01-1AA1	6AV7880-4EB-01-1AA1	6AV7880-4AA-01-0AA2	6AV7880-4BA-01-0AA2	6AV7880-4CB-01-1AA2	6AV7880-4DB-01-1AA2	6AV7880-4EB-01-1AA2
	SIMATIC IPC MD-34A Entry Plus	SIMATIC IPC MD-34A Automation	SIMATIC IPC MD-34A Outdoor	SIMATIC IPC MD-34A Entry w/ Type C PD	SIMATIC IPC MD-34A Entry Plus w/ PD	SIMATIC IPC MD-34A High End w/ PD	SIMATIC IPC MD-34A Automation w/PD	SIMATIC IPC MD-34A Outdoor w/PD
Interrupts/diagnostics/status information								
LED status display	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery
EMC								
Interference immunity against discharge of static electricity								
• Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD
Interference immunity to cable-borne interference								
• Interference immunity on supply lines acc. to IEC 61000-4-4	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst
• Interference immunity on signal cables acc. to IEC 61000-4-4	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m
Emission of radio interference acc. to EN 55 022								
• Interference emission acc. to EN 55022, class B	Yes; CISPR 32 Class B	Yes; CISPR 32 Class B	Yes; CISPR 32 Class B	Yes; CISPR 32 Class B	Yes; CISPR 32 Class B	Yes; CISPR 32 Class B	Yes; CISPR 32 Class B	Yes; CISPR 32 Class B
Degree and class of protection								
IP degree of protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Standards, approvals, certificates								
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CSA approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	No	Yes	No	No	No	No	No
FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Military use								
• Conforms to MIL-STD-810G	No	No	No	No	No	No	Yes; MIL-STD-810H Method 514.8 Procedure I; MIL-STD-810H Method 516.8 Procedure I	No
Ambient conditions								
Ambient temperature during operation								
• min.	0 °C; AC mode	0 °C; AC mode	0 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode
• max.	45 °C; AC mode	0 °C; AC mode	0 °C; AC mode	60 °C; AC mode	60 °C; AC mode	60 °C; AC mode	60 °C; AC mode	60 °C; AC mode
Operating systems								
Local language of operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
pre-installed operating system								
• Windows 10	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC
Software								
Preinstalled								
• STEP 7 Professional 2010	No	No	No	No	No	No	No	No
• STEP 7 Professional (TIA Portal)	No	No	No	No	No	No	No	No

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Technical specifications (continued)

Article number	6AV7880-4BA-01-0AA1	6AV7880-4DB-01-1AA1	6AV7880-4EB-01-1AA1	6AV7880-4AA-01-0AA2	6AV7880-4BA-01-0AA2	6AV7880-4CB-01-1AA2	6AV7880-4DB-01-1AA2	6AV7880-4EB-01-1AA2
	SIMATIC IPC MD-34A Entry Plus	SIMATIC IPC MD-34A Automation	SIMATIC IPC MD-34A Outdoor	SIMATIC IPC MD-34A Entry w/ Type C PD	SIMATIC IPC MD-34A Entry Plus w/ PD	SIMATIC IPC MD-34A High End w/ PD	SIMATIC IPC MD-34A Automation w/PD	SIMATIC IPC MD-34A Outdoor w/PD
• STEP 7	No	No	No	No	No	No	No	No
• WinCC flexible Advanced 2008	No	No	No	No	No	No	No	No
• WinCC Advanced (TIA Portal)	No	No	No	No	No	No	No	No
• STEP 5	No	No	No	No	No	No	No	No
Mechanics/material								
Material of housing	plastic	plastic	plastic	plastic	plastic	plastic	plastic	plastic
Handle	No	No	No	No	No	No	No	No
Socket for Kensington lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rubber corner guards	Yes; 4 corners covered by rubber bumpers as protectors	Yes	Yes	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors
Dimensions								
Width	272 mm	272 mm	272 mm	272 mm	272 mm	272 mm	272 mm	272 mm
Height	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm
Depth	192 mm	192 mm	192 mm	192 mm	192 mm	192 mm	192 mm	192 mm
Weights								
Weight, approx.	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg
Scope of supply								
Accumulator	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power supply unit	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Backpack	No	No	No	No	No	No	No	No
SIMATIC Software	No	No	No	No	No	No	No	No
Recovery media	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery

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Overview



SIMATIC IPC MD-57A

SIMATIC IPC MD-57A: Robust, ready-to-use device for configuration and simulation

- TIA Portal preinstalled
- SIMATIC interface integrated
- Rugged design

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Selection and ordering data

SIMATIC IPC MD-57A	6ES7730- ❑ A ❑ ❑ ❑ - ❑ ❑ ❑ 0
15.6" Full HD display (1920x 1080); Wi-Fi 6E Bluetooth V5.3 2x USB-C Gen 4; 3x USB-A Gen 3.2 x 2 1x USB-A Gen 2 2x RJ45 1GbE 1x HDMI 1.4b	
Processor	**0**
• Intel® Core™ i5-12600HE processor (16 threads, 18M cache, up to 4.50 GHz)	**1**
• Intel® Core™ i7-12800HE processor (20 threads, 24 MB cache, up to 4.60 GHz)	
RAM	
• 16 GB DDR5 SDRAM SO-DIMM	**A**
• 32 GB DDR5 SDRAM SO-DIMM	**B**
• 64 GB DDR5 SDRAM SO-DIMM	**C**
Internal M.2 NVME hard drive	
• 512 GB	**0**
• 1 TB	**1**
• 2 TB	**2**
Power plug and keyboard	
• Supply cable with power plug: Europe; Keyboard: QWERTY	**0**
• Supply cable with power plug: Europe; Keyboard: AZERTY (France)	**1**
• Supply cable with power plug: Italy; Keyboard: QWERTY	**2**
• Supply cable with power plug: Switzerland; Keyboard: QWERTY	**3**
• Supply cable with power plug: USA; Keyboard: QWERTY	**4**
• Supply cable with power plug: UK; Keyboard: QWERTY	**5**
• Without supply cable; QWERTY keyboard	**7**
Slider / NVME	
• Without slider	**0**
• 512 GB NVMe SSD slider	**1**
• 1 TB NVMe SSD slider	**2**
• 2 TB NVMe SSD slider	**3**
Operating system	
• Windows 11 IoT Enterprise (version 22H2) 64-bit	**A**
• Windows 11 IoT Enterprise (version 22H2) 64-bit; with recovery USB flash drive	**B**
• Without operating system (without USB flash drive)	**N**
SIMATIC Software licenses	
• Trial: STEP 7 Prof. Combo (V19 & 2021 SR2), WinCC Adv. V19, Safety Adv. (V19 & Distr. Safety 5.4 SP5)	**A**
• STEP 7 & WinCC & Safety in the TIA Portal: STEP 7 Prof. V19, WinCC Adv. V19, Safety Adv. V19	**B**
• STEP 7 & WinCC & Safety Combo: STEP 7 Prof. Combo (V19 & 2021 SR2), WinCC Adv. V19 &, Safety Adv. Combo (V19 & Distr. V5.4 SP5)	**C**
Accessories	
Memory expansion	
SIMATIC IPC memory expansion memory module 16 GB (1x 16 GB) DDR5 SDRAM, SO-DIMM, for IPC BX-56A, IPC BX-59A, IPC MD-57A	**6ES7648-2AN80-0SA0**
SIMATIC IPC memory expansion memory module 32 GB (1x 32 GB) DDR5 SDRAM, SO-DIMM, for IPC BX-56A, IPC BX-59A, IPC MD-57A	**6ES7648-2AN81-0SA0**

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Selection and ordering data (continued)

SIMATIC IPC MD-57A	6ES7730- ❑ A ❑ ❑ ❑ - ❑ ❑ ❑ 0
Slider	
For IPC MD-57A, IPC BX-39A and IPC PX-39A	
SIMATIC IPC Slider M.2 SSD, without SSD	**6ES7648-0EK00-0GA1**
SIMATIC IPC Slider M.2 SSD, 512 GB Eco	**6ES7648-0EK20-0GA3**
SIMATIC IPC Slider M.2 SSD, 1 TB Eco	**6ES7648-0EK30-0GA3**
SIMATIC IPC Slider M.2 SSD, 2TB Eco	**6ES7648-0EK40-0GA3**
External power supply unit	
SIMATIC PG, AC/DC power supply unit IPC MD-57A	**6ES7798-0GA05-0XA1**
Without power supply cord	
Power supply cord	
AC IEC cable, Germany and others	**6ES7900-0AA00-0XA0**
90° male to 180° female (3-pin, C13) for Germany; France; Spain; the Netherlands; Belgium; Sweden; Austria; Finland for devices with corresponding interface; scope of supply: 1 IEC cable	
AC IEC cable, United Kingdom	**6ES7900-0BA00-0XA0**
90° male BS 1363 to 180° female (3-pin, C13) for United Kingdom, for devices with corresponding interface, scope of supply: 1 IEC cable	
AC IEC cable, Switzerland	**6ES7900-0CA00-0XA0**
180° male SEV 1011 to 180° female (3-pin, C13) for Switzerland SEV 1011, for devices with corresponding interface, scope of supply: 1 IEC cable	
AC IEC cable, USA, Canada, and others	**6ES7900-0DA00-0XA0**
180° male to 180° female (3-pin, C13) for USA, Canada, NEMA-5, for devices with corresponding interface, scope of supply: 1 IEC cable	
AC IEC cable, Italy type L and others	**6ES7900-0EA00-0XA0**
180° male to 180° female (3-pin, C13) for Italy, parts of Africa, for devices with corresponding interface, scope of supply: 1 IEC cable	
SIMATIC IPC, replacement battery for IPC MD-57A	**6ES7798-0AA11-0XA0**
Warranty: 6 months	
SIMATIC S7, MPI cable	**6ES7901-0BF00-0AA0**
For connecting SIMATIC S7 and PG / IPC MD-57A via MPI; 5 m	
SIMATIC PG, backpack	**6ES7798-0DA02-0XA0**
For IPC MD-57A, Field PG M6/M5/M4 (included in the scope of supply of the Field PG M6/M5)	
Software Update Service (Standard Edition)[1]	
The delivery is implemented according to the number of ordered SUS products (e.g. 10 upgrade packages with 10 DVDs, 10 USB flash drives, etc.)	
• STEP 7 Professional V1x	**6ES7822-1AA00-0YL5**
• STEP 7 Professional Combo (STEP 7 Prof. V1x (TIA Portal) and STEP 7 Prof.)	**6ES7810-5CC04-0YE2**
• SIMATIC WinCC Advanced	**6AV6613-0AA00-0AL0**
• SIMATIC STEP 7 Safety Advanced	**6ES7833-1FC00-0YX2**
Software Update Service (Download)[1]	
The upgrades and Service Packs are available for download. Email address required for delivery	
• STEP 7 Professional V1x	**6ES7822-1AE00-0YY0**
• STEP 7 Professional Combo (STEP 7 Prof. V1x (TIA Portal) and STEP 7 Prof.)	**6ES7810-5CC04-0YY2**
• SIMATIC WinCC Advanced	**6AV6613-0AA00-0AY0**
• SIMATIC STEP 7 Safety Advanced	**6ES7833-1FC00-0YY0**

[1] For more information see Software Update Service.

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Technical specifications

Article number	6ES7730-.....-.... SIMATIC IPC MD-57A
General information	
Design of the programming device	Mobile computer
Display	
Design of display	15.6" full HD display in 16:9 format
Screen diagonal	15.6 in
Resolution (pixels)	
• Horizontal image resolution	1 920 pixel
• Vertical image resolution	1 080 pixel
General features	
• Non-reflecting	Yes
• Luminance	300 cd/m²
Backlighting	
• Type of backlighting	LED
Control elements	
Keyboard	
• Design	QWERTZ
Touch operation	
• Integrated touch pad	Yes; Touch pad
Supply voltage	
Design of the power supply	External wide-range power supply, lithium ion battery
Rated value (DC)	19 V
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Processor	
Processor type	i7-12800HE (2.4 to 4.6 GHz; 14 cores (6 performance cores; 8 efficient cores); 24 MB Smart Cache
Chipset	integrated at CPU
Hyper-threading	Yes
Turbo Boost Technology 2.0	Yes
Graphic	
Graphics controller	Intel® Iris® X Integrated Graphics Controller
Drives	
CD-RW	No
DVD-ROM	No
DVD-RW	No
Hard disk	No
SSD	Yes; M.2
• Memory capacity	1 Tbyte; ...
TPM Security Chip	Yes; 2.0_
Storage	
Type of memory	DDR5 SO-DIMM
Work memory	
• Number of slots	2; _
Accumulator	
Replaceable	Yes; lithium polymer
Capacity	8 A·h
Interfaces	
Number of interfaces PROFIBUS DP	1; 1x PROFIBUS DP / MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 MBaud
Number of RS 232 interfaces	1; 1x COM
Number of USB interfaces	6
• Type A	4; 2x USB-A 3.2 Gen1 and 2x USB-A 3.2 Gen2x1
• type C	2; USB-C 4.0
Number of chip-card readers	1; Smart Card Reader (ISO/IEC 7816)
MPI	Yes

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Technical specifications (continued)

Article number	6ES7730-.....-.... SIMATIC IPC MD-57A
Bluetooth radio standard	Yes; V5.3
Multimedia card/SD card slot	2 in 1 (SDHC UHS-II, MMC)
Card reader for SIMATIC memory cards	SIMATIC memory cards (for S7-300/400), SMC (for S7-1x00), SIMATIC micro memory card (for S7-300/C7/ET 200) - including programming interfaces
Universal Audio Jack	No
Video interfaces	
• analog video signal (VGA)	Yes; via adapter from HDMI to VGA
• DVI-I	Yes; via adapter from HDMI to DVI
• DisplayPort	Yes; via adapter from HDMI to DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes; Gigabit Ethernet; 2x RJ45 with 2 independent MAC/IP addresses
• Wake on LAN	Yes
• IAMT (Intel Active Management Technology)	Yes
WLAN	
• Type	IEEE802.a/b/g/n/ac R2/ax R2(PreStandard)
Interrupts/diagnostics/status information	
LED status display	4 status LEDs
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	Yes; ±4 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
• Interference immunity on signal cables	±1 kV (according to IEC 61000-4-4, burst, length < 30 m); ±2 kV (according to IEC 61000-4-4, burst, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m)
Degree and class of protection	
IP degree of protection	IP30
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
DIN/ISO 9001	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C; Max. 10 °C/h (no condensation)
• max.	40 °C; Max. 10 °C/h (no condensation)
Operating systems	
Local language of operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
pre-installed operating system	
• Windows 11	Yes; Windows 11 IoT Enterprise (version 22H2)
Software	
Preinstalled	
• STEP 7 Professional (TIA Portal)	Yes; software version: V19
• STEP 7	Yes; Professional 2021 SR2
• WinCC flexible Advanced 2008	No
• WinCC Advanced (TIA Portal)	Yes; software version: V19
• STEP 5	No
Mechanics/material	
Material of housing	metal

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Technical specifications (continued)

Article number	6ES7730-.....-.... SIMATIC IPC MD-57A
Handle	Yes; retractable
Socket for Kensington lock	Yes
rubber corner guards	Yes
Dimensions	
Width	386 mm
Height	41 mm
Depth	281 mm
Weights	
Weight, approx.	2.8 kg; incl. rechargeable battery
Scope of supply	
Accumulator	Yes
Power supply unit	Yes
Backpack	Yes
SIMATIC Software	Yes
Recovery media	Yes; Restore & Recovery

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Overview



SIMATIC IFP Basic

With the SIMATIC IFP Basic product series, the range of industrial touch monitors in the SIMATIC IFP product family has been extended by cost-effective versions.

SIMATIC IFP Basic devices feature touch operation and are available in 4 display sizes: 12", 15", 19" and 22".

Selection and ordering data

SIMATIC IFP Basic	
SIMATIC IFP1200 Basic Flat Panel with 12" display (16:10); Touch, 1 280 x 800 pixels Standard up to 5 m; for 24 V DC; DisplayPort / VGA interface	**6AV7862-2BC00-0AA0**
SIMATIC IFP1200 Basic Covered Flat Panel with 12" display (16:10); degree of protection IP65 (front and rear), Touch, 1 280 x 800 pixels Standard up to 5 m; for 24 V DC; DisplayPort interface (on the rear)	**6AV7862-2BC10-0AA0**
SIMATIC IFP1500 Basic Flat Panel with 15" display (16:9); Touch, 1 366 x 768 pixels Standard up to 5 m; for 24 V DC; DisplayPort / VGA interface	**6AV7862-2BD00-0AA0**
SIMATIC IFP1900 Basic Flat Panel with 19" display (16:9); Touch, 1 366 x 768 pixels Standard up to 5 m; for 24 V DC; DisplayPort / VGA interface	**6AV7862-2BE00-0AA0**
SIMATIC IFP2200 Basic Flat Panel with 22" display (16:9); Touch, 1 920 x 1080 pixels Standard up to 5 m; for 24 V DC; DisplayPort / VGA interface	**6AV7862-2BF00-0AA0**

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Technical specifications

Article number	6AV7862-2BC00-0AA0	6AV7862-2BC10-0AA0	6AV7862-2BD00-0AA0	6AV7862-2BE00-0AA0	6AV7862-2BF00-0AA0
	SIMATIC IFP1200 Basic	SIMATIC IFP1200 Basic Covered	SIMATIC IFP1500 Basic	SIMATIC IFP1900 Basic	SIMATIC IFP2200 Basic
General information					
Product type designation	IFP1200 Basic	IFP1200 Basic C	IFP1500 Basic	IFP1900 Basic	IFP2200 Basic
Short designation	Basic Flat Panel 12" Touch	Basic Flat Panel 12" Touch	Basic Flat Panel 15" Touch	Basic Flat Panel 19" Touch	Basic Flat Panel 22" Touch
Display					
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in; 12"	12.1 in; 12"	15.6 in; 15"	18.5 in; 19"	21.5 in; 22"
Screen diagonal [cm]		30.7 cm			
On Screen Display (OSD) configuration	No	No	No	No	No
Number of colors	16 000 000; 16 million	16 000 000; 16.2 million	16 000 000; 16 million	16 000 000; 16 million	16 000 000; 16 million
Resolution (pixels)					
• Image resolution	1 280 x 800	1 280 x 800	1 366 x 768	1 366 x 768	1 920 x 1 080
General features					
• Brightness/contrast		400 cd/m² / 1 000:1			
• Detachable from computer unit	5 m	5 m	5 m	5 m	5 m
Backlighting					
• Type of backlighting	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h	30 000 h
Control elements					
Control elements	single-touch screen	single-touch screen	single-touch screen	single-touch screen	single-touch screen
Input device					
• Integrated mouse cursor control	No	No	No	No	No
Touch operation					
• Design as touch screen	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive	Yes; Analog-resistive
Installation type/mounting					
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes		Yes	Yes	Yes
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Interfaces					
Number of USB interfaces	2; USB 2.0 (downstream)	1; USB 2.0 (downstream)	2; USB 2.0 (downstream)	2; USB 2.0 (downstream)	2; USB 2.0 (downstream)
USB on the rear	Yes; 2x onboard	Yes; 1x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Video interfaces					
• DisplayPort	Yes	Yes	Yes	Yes	Yes
Touch interfaces					
• USB	Yes; USB 2.0 Type B	Yes; USB 2.0 type B	Yes; USB Type A	Yes; USB Type A	Yes; USB Type A
Degree and class of protection					
IP (at the front)	IP65	IP65	IP65	IP65	IP65
IP (rear)		IP65			
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
cULus	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201	Yes; UL 61010-1, UL 61010-2-201
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	No	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes
FCC	Yes	Yes	Yes	Yes	Yes
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	60 °C	45 °C	45 °C	40 °C

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Technical specifications (continued)

Article number	6AV7862-2BC00-0AA0	6AV7862-2BC10-0AA0	6AV7862-2BD00-0AA0	6AV7862-2BE00-0AA0	6AV7862-2BF00-0AA0
	SIMATIC IFP1200 Basic	SIMATIC IFP1200 Basic Covered	SIMATIC IFP1500 Basic	SIMATIC IFP1900 Basic	SIMATIC IFP2200 Basic
Relative humidity					
• Operation, max.	85 %	85 %	85 %	85 %	85 %
Vibrations					
• Vibration load in operation	5 m/s²	30 m/s²	5 m/s²	5 m/s²	5 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²	10 m/s²	10 m/s²
Shock testing					
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	150 m/s²	250 m/s²	250 m/s²	250 m/s²	250 m/s²
Mechanics/material					
Enclosure material (front)					
• Aluminum	Yes	Yes	Yes	Yes	Yes
Dimensions					
Width of the housing front	319.6 mm	319.6 mm	406 mm	473 mm	540 mm
Height of housing front	225.6 mm	225.6 mm	258 mm	297 mm	334 mm
Mounting cutout, width	302 mm	302 mm	388.4 mm	455 mm	522.2 mm
Mounting cutout, height	208 mm	208 mm	240.5 mm	279.2 mm	316.8 mm
mounting depth	50.1 mm	49 mm	59 mm	59 mm	59 mm
Weights					
Weight (without packaging)	2.7 kg	2.8 kg	4.1 kg	5.1 kg	6.5 kg

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Overview



Industrial Flat Panels are rugged industrial monitors.

The devices are suitable as built-in devices and, in the PRO variant, for direct mounting on a support arm/pedestal. Various display sizes of 12", 15", 19", 22" and 24" are available.

Depending on requirements, the monitors can be installed up to 100 m away from the IPC. Convenient operation of modern user interfaces is possible thanks to multi-touch.

Selection and ordering data

Industrial Flat Panel monitors	
SIMATIC IFP1200 V2	
12" multi-touch 1 280 x 800	
• Standard design, up to 5 m	**6AV7863-1MA00-2AA0**
• Neutral design	**6AV7863-1MA00-2NA0**
12" multi-touch 1 280 x 800, extended HDBase T up to 100 m	
• Standard design	**6AV7863-1MA10-2AA0**
• Neutral design	**6AV7863-1MA10-2NA0**
SIMATIC IFP1500 V2	
15" multi-touch, 1 920 x 1 080 pixels	
• Standard up to 5 m, incl. DP/USB cable 1.8 m	**6AV7863-5MA00-2AA0**
• Extended version HdBaseT up to 100 m	**6AV7863-5MA10-2AA0**
• Standard up to 5 m, neutral design	**6AV7863-5MA00-2NA0**
• Extended version, neutral design	**6AV7863-5MA10-2NA0**
SIMATIC IFP1900 V2	
19" multi-touch, 1 920 x 1 080 pixels	
• Standard up to 5 m, incl. DP/USB cable 1.8 m	**6AV7863-6MA00-2AA0**
• Extended version HdBaseT up to 100 m	**6AV7863-6MA10-2AA0**
• Standard up to 5 m, neutral design	**6AV7863-6MA00-2NA0**
• Extended version, neutral design	**6AV7863-6MA10-2NA0**
SIMATIC IFP2200 V2	
22" multi-touch, 1 920 x 1 080 pixels	
• Standard up to 5 m, incl. DP/USB cable 1.8 m	**6AV7863-4MA00-2AA0**
• Extended version HdBaseT up to 100 m	**6AV7863-4MA10-2AA0**
• Standard up to 5 m, neutral design	**6AV7863-4MA00-2NA0**
• Extended version, neutral design	**6AV7863-4MA10-2NA0**
SIMATIC IFP2400 V2	
24" multi-touch, 1 920 x 1 080 pixels	
• Standard up to 5 m, incl. DP/USB cable 1.8 m	**6AV7863-7MA00-2AA0**
• Extended version HdBaseT up to 100 m	**6AV7863-7MA10-2AA0**
• Standard up to 5 m, neutral design	**6AV7863-7MA00-2NA0**
• Extended version, neutral design	**6AV7863-7MA10-2NA0**

Accessories	
Set with steel mounting clips	**6AV6671-8XK00-0AX3**
DisplayPort cable (industrial quality)	
• 3 m	**6AV7860-0DH30-0AA0**
• 5 m	**6AV7860-0DH50-0AA0**
DVI-D cable (industrial quality)	
• 3 m	**6AV7860-0BH30-0AA0**
• 5 m	**6AV7860-0BH50-0AA0**
USB cable (industrial quality)	
• 3 m	**6AV7860-0CH30-0AA0**
• 5 m	**6AV7860-0CH50-0AA0**
Accessories for HDBaseT variants	
Cable set, consisting of:	
Transceiver Unit with	
• Two ferrites	
• USB cable, length 0.5 m	
• Connector type A	
• Connector type A	

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Selection and ordering data (continued)

• DisplayPort cable, length 0.5 m	
• Cat. 6A Ethernet cable, length see "Specification"	
• 10 m	**6AV7860-1EX21-0AB1**
• 15 m	**6AV7860-1EX21-5AB1**
• 20 m	**6AV7860-1EX22-0AB1**
• 30 m	**6AV7860-1EX23-0AB1**
Cat. 6A Ethernet cable	
• 10 m	**6AV7860-0EH01-0AA0**
• 15 m	**6AV7860-0EH01-5AA0**
• 20 m	**6AV7860-0EH02-0AA0**
• 30 m	**6AV7860-0EH03-0AA0**

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Technical specifications

Article number	6AV7863-5MA00-2AA0	6AV7863-5MA10-2AA0	6AV7863-5MA00-2NA0	6AV7863-5MA10-2NA0
	SIMATIC Flat Panel 15" MT V2	SIMATIC Flat Panel 15 MT V2 Extended	SIMATIC Flat Panel 15" MT V2	SIMATIC Flat Panel 15" MT V2 Extended
General information				
Product type designation	IFP1500 V2	IFP1500 V2	IFP1500 V2	IFP1500 V2
Short designation	SIMATIC IFP1500 V2	Flat Panel 15" multi-touch ext.	Flat Panel 15" multi-touch	SIMATIC IFP1500 V2 ext.
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	15.6 in; 15"	15.6 in; 15"	15.6 in; 15"	15.6 in; 15"
Screen diagonal [cm]	40 cm	40 cm	40 cm	40 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)				
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features				
• Brightness/contrast	400 cd/m² / 700:1	400 cd/m² / 700:1	400 cd/m² / 700:1	400 cd/m² / 700:1
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes	Yes
• Detachable from computer unit	5 m	100 m; HDBaseT protocol	5 m	100 m; HDBaseT protocol
Backlighting				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements				
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device				
• Integrated mouse cursor control	Yes	Yes	Yes	Yes
Touch operation				
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system
Installation type/mounting				
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current				
Current consumption (rated value)	1 A	1 A	1 A	1 A
Current consumption, max.	1.3 A	1.3 A	1.3 A	1.3 A
Interfaces				
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB
Video interfaces				
• DVI-D	Yes	No	Yes	No
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces				
• USB	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7863-5MA00-2AA0	6AV7863-5MA10-2AA0	6AV7863-5MA00-2NA0	6AV7863-5MA10-2NA0
	SIMATIC Flat Panel 15" MT V2	SIMATIC Flat Panel 15 MT V2 Extended	SIMATIC Flat Panel 15" MT V2	SIMATIC Flat Panel 15" MT V2 Extended
Standards, approvals, certificates				
Certificate of suitability	hazardous zone 2/22; shipbuilding		hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes	Yes	Yes	Yes
FM approval	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas				
• ATEX Zone 2	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes
• FM Class I Division 2	Yes	Yes	No	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Vibrations				
• Vibration load in operation	10 m/s²	10 m/s²	10 m/s²	10 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²	10 m/s²
Shock testing				
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	250 m/s²	250 m/s²	250 m/s²	250 m/s²
Mechanics/material				
Enclosure material (front)			With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum
Dimensions				
Width of the housing front	398 mm	398 mm	398 mm	398 mm
Height of housing front	257 mm	257 mm	257 mm	257 mm
Mounting cutout, width	382 mm; Tolerance: +1 mm	382 mm; Tolerance: +1 mm	382 mm; Tolerance: +1 mm	382 mm; Tolerance: +1 mm
Mounting cutout, height	241 mm; Tolerance: +1 mm	241 mm; Tolerance: +1 mm	241 mm; Tolerance: +1 mm	241 mm; Tolerance: +1 mm
mounting depth	63.4 mm	63.4 mm	63.4 mm	63.4 mm
Weights				
Weight (without packaging)	4 kg	4 kg	4 kg	4 kg

Article number	6AV7863-6MA00-2AA0	6AV7863-6MA10-2AA0	6AV7863-6MA00-2NA0	6AV7863-6MA10-2NA0
	SIMATIC Flat Panel 19" MT V2	SIMATIC Flat Panel 19 MT V2 Extended	SIMATIC Flat Panel 19" MT V2	SIMATIC Flat Panel 19 MT V2 Extended
General information				
Product type designation	IFP1900 V2	IFP1900 V2	IFP1900 V2	IFP1900 V2
Short designation	SIMATIC IFP1900 V2	SIMATIC IFP1900 V2 ext.	SIMATIC IFP1900 V2	SIMATIC IFP1900 V2 ext.
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting

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Technical specifications (continued)

Article number	6AV7863-6MA00-2AA0	6AV7863-6MA10-2AA0	6AV7863-6MA00-2NA0	6AV7863-6MA10-2NA0
	SIMATIC Flat Panel 19" MT V2	SIMATIC Flat Panel 19 MT V2 Extended	SIMATIC Flat Panel 19" MT V2	SIMATIC Flat Panel 19 MT V2 Extended
Screen diagonal	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"
Screen diagonal [cm]	47 cm	47 cm	47 cm	47 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)				
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features				
• Brightness/contrast	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes	Yes
• Detachable from computer unit	5 m	100 m; HDBaseT protocol	5 m	100 m; HDBaseT protocol
Backlighting				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements				
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device				
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation				
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system
Installation type/mounting				
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current				
Current consumption (rated value)	1.2 A	1.2 A	1.2 A	1.2 A
Current consumption, max.	1.5 A	1.5 A	1.5 A	1.5 A
Interfaces				
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB
Video interfaces				
• DVI-D	Yes	No	Yes	No
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces				
• USB	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes	Yes	Yes	Yes
FM approval	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7863-6MA00-2AA0 SIMATIC Flat Panel 19" MT V2	6AV7863-6MA10-2AA0 SIMATIC Flat Panel 19 MT V2 Extended	6AV7863-6MA00-2NA0 SIMATIC Flat Panel 19" MT V2	6AV7863-6MA10-2NA0 SIMATIC Flat Panel 19 MT V2 Extended
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas				
• ATEX Zone 2	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	Yes	No	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Vibrations				
• Vibration load in operation	10 m/s²	10 m/s²	10 m/s²	10 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²	10 m/s²
Shock testing				
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	250 m/s²	250 m/s²	250 m/s²	250 m/s²
Mechanics/material				
Enclosure material (front)			With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum
Dimensions				
Width of the housing front	464 mm	464 mm	464 mm	464 mm
Height of housing front	294 mm	294 mm	294 mm	294 mm
Mounting cutout, width	448.6 mm; Tolerance: +1 mm	448.6 mm; Tolerance: +1 mm	448.6 mm; Tolerance: +1 mm	448.6 mm; Tolerance: +1 mm
Mounting cutout, height	278.6 mm; Tolerance: +1 mm	278.6 mm; Tolerance: +1 mm	278.6 mm; Tolerance: +1 mm	278.6 mm; Tolerance: +1 mm
mounting depth	63.4 mm	63.4 mm	63.4 mm	63.4 mm
Weights				
Weight (without packaging)	5 kg	5 kg	5 kg	5 kg

Article number	6AV7863-7MA00-2AA0 SIMATIC Flat Panel 24" MT V2	6AV7863-7MA10-2AA0 SIMATIC Flat Panel 24 MT V2 Extended	6AV7863-7MA00-2NA0 SIMATIC Flat Panel 24" MT V2	6AV7863-7MA10-2NA0 SIMATIC Flat Panel 24 MT V2 Extended
General information				
Product type designation	IFP2400 V2	IFP2400 V2	IFP2400 V2	IFP2400 V2
Short designation	SIMATIC IFP2400 V2	SIMATIC IFP2400 V2	SIMATIC IFP2400 V2	SIMATIC IFP2400 V2
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	23.8 in; 24"	23.8 in; 24"	23.8 in; 24"	23.8 in; 24"
Screen diagonal [cm]	60.47 cm	60.47 cm	60.47 cm	60.47 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°

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Technical specifications (continued)

Article number	6AV7863-7MA00-2AA0	6AV7863-7MA10-2AA0	6AV7863-7MA00-2NA0	6AV7863-7MA10-2NA0
	SIMATIC Flat Panel 24" MT V2	SIMATIC Flat Panel 24 MT V2 Extended	SIMATIC Flat Panel 24" MT V2	SIMATIC Flat Panel 24 MT V2 Extended
Resolution (pixels)				
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features				
• Brightness/contrast	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1
• non-reflective and tempered mineral glass screen	Yes		Yes	Yes
• Detachable from computer unit	5 m	100 m; HDBaseT protocol	5 m	100 m; HDBaseT protocol
Backlighting				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements				
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device				
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation				
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system
Installation type/mounting				
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V; PELV / SELV floating	24 V	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current				
Current consumption (rated value)	1.5 A	1.5 A	1.5 A	1.5 A
Current consumption, max.	1.9 A	1.9 A	1.9 A	1.9 A
Interfaces				
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB		USB	USB
Video interfaces				
• DVI-D	Yes		Yes	
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces				
• USB	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes	Yes	Yes	Yes
FM approval	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas				
• ATEX Zone 2	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7863-7MA00-2AA0 SIMATIC Flat Panel 24" MT V2	6AV7863-7MA10-2AA0 SIMATIC Flat Panel 24 MT V2 Extended	6AV7863-7MA00-2NA0 SIMATIC Flat Panel 24" MT V2	6AV7863-7MA10-2NA0 SIMATIC Flat Panel 24 MT V2 Extended
• IECEx Zone 2	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	Yes	No	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Vibrations				
• Vibration load in operation	10 m/s²	10 m/s²	10 m/s²	10 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²	10 m/s²
Shock testing				
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	250 m/s²	250 m/s²	250 m/s²	250 m/s²
Mechanics/material				
Enclosure material (front)				
• Aluminum	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum
Dimensions				
Width of the housing front	585 mm	585 mm	585 mm	585 mm
Height of housing front	363 mm	363 mm	363 mm	363 mm
Mounting cutout, width	569.6 mm; Tolerance: +1 mm	569.6 mm; Tolerance: +1 mm	569.6 mm; Tolerance: +1 mm	569.6 mm; Tolerance: +1 mm
Mounting cutout, height	347.6 mm; Tolerance: +1 mm	347.6 mm; Tolerance: +1 mm	347.6 mm; Tolerance: +1 mm	347.6 mm; Tolerance: +1 mm
mounting depth	63.4 mm	63.4 mm	63.4 mm	63.4 mm
Weights				
Weight (without packaging)	7.9 kg	7.9 kg	7.9 kg	7.9 kg

Article number	6AV7863-1MA00-2AA0 SIMATIC Flat Panel 12" MT V2	6AV7863-1MA00-2NA0 SIMATIC Flat Panel 12" MT V2	6AV7863-1MA10-2AA0 SIMATIC Flat Panel 12" MT V2 Extended	6AV7863-1MA10-2NA0 SIMATIC Flat Panel 12" MT V2 Extended
General information				
Product type designation	IFP1200 V2	IFP1200 V2	IFP1200 V2	IFP1200 V2
Short designation	Flat Panel 12" multi-touch	Flat Panel 12" multi-touch	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in	12.1 in	12.1 in	12.1 in
Screen diagonal [cm]	30.7 cm	30.7 cm	30.7 cm	30.7 cm
On Screen Display (OSD) configuration	No	No	No	No
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	176° x 176°	176° x 176°	176° x 176°	176° x 176°
Resolution (pixels)				
• Image resolution	1 280 x 800	1 280 x 800	1 280 x 800	1 280 x 800
General features				
• Brightness/contrast	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1
• Detachable from computer unit	5 m	5 m	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting				

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Technical specifications (continued)

Article number	6AV7863-1MA00-2AA0	6AV7863-1MA00-2NA0	6AV7863-1MA10-2AA0	6AV7863-1MA10-2NA0
	SIMATIC Flat Panel 12" MT V2	SIMATIC Flat Panel 12" MT V2	SIMATIC Flat Panel 12" MT V2 Extended	SIMATIC Flat Panel 12" MT V2 Extended
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C
Control elements				
Input device				
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation				
• Design as touch screen	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes
Installation type/mounting				
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current				
Current consumption (rated value)	0.65 A	0.65 A	0.65 A	0.65 A
Current consumption, max.	1 A	1 A	1 A	1 A
Interfaces				
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB
Video interfaces				
• DVI-D	Yes			
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces				
• USB	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
FM approval	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas				
• ATEX Zone 2	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
• ATEX Zone 22	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
• IECEx Zone 2	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
• IECEx Zone 22	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
• FM Class I Division 2	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m

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Technical specifications (continued)

Article number	6AV7863-1MA00-2AA0	6AV7863-1MA00-2NA0	6AV7863-1MA10-2AA0	6AV7863-1MA10-2NA0
	SIMATIC Flat Panel 12" MT V2	SIMATIC Flat Panel 12" MT V2	SIMATIC Flat Panel 12" MT V2 Extended	SIMATIC Flat Panel 12" MT V2 Extended
Relative humidity				
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations				
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn
Shock testing				
• Shock load during operation	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn
Mechanics/material				
Enclosure material (front)	In standard design	With neutral design	In standard design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum
Dimensions				
Width of the housing front	326 mm	326 mm	326 mm	326 mm
Height of housing front	237 mm	237 mm	237 mm	237 mm
Mounting cutout, width	310 mm; Tolerance: +1 mm	310 mm; Tolerance: +1 mm	310 mm; Tolerance: +1 mm	310 mm; Tolerance: +1 mm
Mounting cutout, height	221 mm; Tolerance: +1 mm	221 mm; Tolerance: +1 mm	221 mm; Tolerance: +1 mm	221 mm; Tolerance: +1 mm
mounting depth	62.5 mm	62.5 mm	62.5 mm	62.5 mm
Weights				
Weight (without packaging)	3 kg	3 kg	3 kg	3 kg

Article number	6AV7863-4MA00-2AA0	6AV7863-4MA10-2AA0	6AV7863-4MA00-2NA0	6AV7863-4MA10-2NA0
	SIMATIC Flat Panel 22" MT V2	SIMATIC Flat Panel 22 MT V2 Extended	SIMATIC Flat Panel 22" MT V2	SIMATIC Flat Panel 22" MT V2 Extended
General information				
Product type designation	IFP2200 V2	IFP2200 V2	IFP2200 V2	IFP2200 V2
Short designation	SIMATIC IFP2200 V2	SIMATIC IFP2200 V2 ext.	SIMATIC IFP2200 V2	SIMATIC IFP2200 V2
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"
Screen diagonal [cm]	56 cm	56 cm	56 cm	56 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	170° x 170°	170° x 170°	170° x 170°	170° x 170°
Resolution (pixels)				
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features				
• Brightness/contrast	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1
• Detachable from computer unit	5 m	100 m; HDBaseT protocol	5 m	100 m; HDBaseT protocol
Backlighting				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements				
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device				
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation				
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system

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Technical specifications (continued)

Article number	6AV7863-4MA00-2AA0	6AV7863-4MA10-2AA0	6AV7863-4MA00-2NA0	6AV7863-4MA10-2NA0
	SIMATIC Flat Panel 22" MT V2	SIMATIC Flat Panel 22 MT V2 Extended	SIMATIC Flat Panel 22" MT V2	SIMATIC Flat Panel 22" MT V2 Extended
Installation type/mounting				
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Input current				
Current consumption (rated value)	1 A	1 A	1 A	1 A
Current consumption, max.	1.3 A	1.3 A	1.3 A	1.3 A
Interfaces				
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Video interfaces				
• DVI-D	Yes	No	Yes	No
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces				
• USB	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus				Yes
FM approval	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2	Yes; Class I Div. 2
RCM (formerly C-TICK)				Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas				
• ATEX Zone 2	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	Yes	No	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Vibrations				
• Vibration load in operation	10 m/s²	10 m/s²	10 m/s²	10 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²	10 m/s²
Shock testing				
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	250 m/s²	250 m/s²	250 m/s²	250 m/s²

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Technical specifications (continued)

Article number	6AV7863-4MA00-2AA0	6AV7863-4MA10-2AA0	6AV7863-4MA00-2NA0	6AV7863-4MA10-2NA0
	SIMATIC Flat Panel 22" MT V2	SIMATIC Flat Panel 22 MT V2 Extended	SIMATIC Flat Panel 22" MT V2	SIMATIC Flat Panel 22" MT V2 Extended
Mechanics/material				
Enclosure material (front)			With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum
Dimensions				
Width of the housing front	529 mm	529 mm	529 mm	529 mm
Height of housing front	331 mm	331 mm	331 mm	331 mm
Mounting cutout, width	513 mm; Tolerance: +1 mm	513 mm; Tolerance: +1 mm	513 mm; Tolerance: +1 mm	513 mm; Tolerance: +1 mm
Mounting cutout, height	315 mm; Tolerance: +1 mm	315 mm; Tolerance: +1 mm	315 mm; Tolerance: +1 mm	315 mm; Tolerance: +1 mm
mounting depth	63.4 mm	63.4 mm	63.4 mm	63.4 mm
Weights				
Weight (without packaging)	6.4 kg	6.4 kg	6.4 kg	6.4 kg

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Overview



SIMATIC IFP2400 V2 PRO, standard design, front view



SIMATIC IFP PRO and SIMATIC IFP PRO ETH:
The new Industrial Flat Panels with fully-enclosed IP65 degree of protection – the industrial widescreen monitors for harsh ambient conditions that can be installed directly on the machine

SIMATIC IFP1200 PRO

The SIMATIC IFP1200 PRO supplements the current product range of the new Industrial Flat Panels. Equipped with innovative, projected capacitive touchscreen technology for the detection of multi-touch gestures with up to ten fingers and with a brilliant widescreen display and glass front.

The devices are connected to PCs, especially SIMATIC IPCs, via the DisplayPort interface or, over greater distances, via HDBaseT and USB.

The rugged aluminum enclosure of the monitor enables it to be used directly at the machine and ensures durability, even in harsh and extreme operating environments.

Overview (continued)

- IP65 degree of protection – fully-enclosed
- Can be located up to 100 m from the computing unit (IFP Extended version)
- Rugged, industrial 12", 15", 19", 22" and 24" widescreen displays (multi-touch)
- Slim, modern design
- Can be adapted to support arm system of various manufacturers
- Fast integration capability
- Low energy demand
- Small footprint and low weight
- Low wiring overhead and short maintenance times thanks to use of standard connecting cables
- Integration of operator controls in the new Extension Units
- Also available in neutral design

SIMATIC IFP PRO ETH

IFP1500 PRO ETH, IFP1900 PRO ETH and IFP2200 PRO ETH supplement the current product range of new Industrial Flat Panels with their Full HD resolution (1920 x 1080 pixels) and neutral design fronts. Equipped with innovative, projected capacitive touchscreen technology for the detection of multi-touch gestures with up to ten fingers and with a brilliant widescreen display and glass front. The devices are connected by means of a DisplayPort or Ethernet and USB to PCs, in particular SIMATIC IPCs. The rugged aluminum enclosure of the monitor enables it to be used directly at the machine and ensures durability, even in harsh and extreme operating environments.

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Selection and ordering data

SIMATIC IFP1200 V2 PRO	
12" (16:10) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 280 x 800 pixels, for 24 V DC DisplayPort fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-1MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-1MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-1MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-1MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-1MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-1MA16-2NA0**
SIMATIC IFP1500 V2 PRO	
15" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-5MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-5MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-5MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-5MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-5MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-5MA16-2NA0**
SIMATIC IFP1900 V2 PRO	
19" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort, fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-6MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-6MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-6MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-6MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-6MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-6MA16-2NA0**
SIMATIC IFP2200 V2 PRO	
22" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort, fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-4MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-4MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-4MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-4MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-4MA15-2NA0**

Selection and ordering data (continued)

• Prepared for support arm and extension components	**6AV7863-4MA16-2NA0**
SIMATIC IFP2400 V2 PRO	
24" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort, fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-7MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-7MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-7MA16-2AA0**
• Portrait Prepared for support arm and extension components	**6AV7863-7MA17-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-7MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-7MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-7MA16-2NA0**
• Portrait Prepared for support arm and extension components	**6AV7863-7MA17-2NA0**
SIMATIC IFP1500 PRO HD ETH	
15" (16:9) Flat Panel, multi-touch, Ethernet up to 100 m, 1 920 x 1 080 pixels, for 24 V DC DisplayPort/Ethernet interface, fully-enclosed IP65 protection, neutral design	
• Prepared for pedestal and extension components	**6AV7466-5MA01-0AA0**
• Prepared for support arm and extension components	**6AV7466-5MA02-0AA0**
SIMATIC IFP1900 PRO HD ETH	
19" (16:9) Flat Panel, multi-touch, Ethernet up to 100 m, 1 920 x 1 080 pixels, for 24 V DC DisplayPort/Ethernet interface, fully-enclosed IP65 protection, neutral design	
• Prepared for pedestal and extension components	**6AV7466-6MA01-0AA0**
• Prepared for support arm and extension components	**6AV7466-6MA02-0AA0**
SIMATIC IFP2200 PRO HD ETH	
22" (16:9) Flat Panel, multi-touch, Ethernet up to 100 m, 1 920 x 1 080 pixels, for 24 V DC DisplayPort/Ethernet interface, fully-enclosed IP65 protection, neutral design	
• Prepared for pedestal and extension components	**6AV7466-8MA01-0AA0**
• Prepared for support arm and extension components	**6AV7466-8MA02-0AA0**

Note:

As in the case of the Flat Panel PRO, adaptation to support arm/pedestal systems is possible using the basic adapter. This is included in the scope of supply (only in the case of the "prepared for support arm and extension components" version is the basic adapter not included, as the connection is made via a round tube).

For the version "prepared for support arm and extension components", installation can alternatively take place with the Siemens round tube adapter or with a standard 48 mm diameter round tube.
The round tube adapter enables the transition from a round tube connection to the familiar mechanical interface of the basic adapter. This means you can combine different versions of the PRO devices with the same support arm or pedestal system.

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Technical specifications

Article number	6AV7863-1MA14-2-AA0	6AV7863-1MA16-2-AA0	6AV7863-1MA15-2-AA0	6AV7863-1MA14-2-NA0	6AV7863-1MA15-2-NA0	6AV7863-1MA16-2-NA0
	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO
General information						
Product type designation	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO
Short designation	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.
Display						
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in
Screen diagonal [cm]	30.7 cm	30.7 cm	30.7 cm	30.7 cm	30.7 cm	30.7 cm
On Screen Display (OSD) configuration	No	No	No	No	No	No
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	176° x 176°	176° x 176°	176° x 176°	176° x 176°	176° x 176°	176° x 176°
Resolution (pixels)						
• Image resolution	1 280 x 800	1 280 x 800	1 280 x 800	1 280 x 800	1 280 x 800	1 280 x 800
General features						
• Brightness/contrast	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting						
• Type of backlighting	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C
Control elements						
Input device						
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting
Supply voltage						
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current						
Current consumption (rated value)	0.65 A	0.65 A	0.65 A	0.65 A	0.65 A	0.65 A
Current consumption, max.	1 A	1 A	1 A	1 A	1 A	1 A
Interfaces						
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB
Video interfaces						
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces						
• USB	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						

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Technical specifications (continued)

Article number	6AV7863-1MA14-2-AA0	6AV7863-1MA16-2-AA0	6AV7863-1MA15-2-AA0	6AV7863-1MA14-2-NA0	6AV7863-1MA15-2-NA0	6AV7863-1MA16-2-NA0
	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
FM approval	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity						
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations						
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing						
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material						
Enclosure material (front)	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions						
Width of the housing front	313 mm	313 mm	313 mm	313 mm	313 mm	313 mm
Height of housing front	225 mm	225 mm	225 mm	225 mm	225 mm	225 mm
Weights						
Weight (without packaging)	4 kg	4.4 kg	4 kg	4 kg	4 kg	4.4 kg

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Technical specifications (continued)

Article number	6AV7863-6MA14-2-AA0	6AV7863-6MA15-2-AA0	6AV7863-6MA16-2-AA0	6AV7863-6MA14-2-NA0	6AV7863-6MA15-2-NA0	6AV7863-6MA16-2-NA0
	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO
General information						
Product type designation	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO
Short designation	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.
Display						
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"
Screen diagonal [cm]	47 cm	47 cm	47 cm	47 cm	47 cm	47 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)						
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features						
• Brightness/contrast	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes	Yes	Yes	Yes
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting						
• Type of backlighting	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements						
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device						
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation						
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting
Supply voltage						
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current						
Current consumption (rated value)	1.2 A	1.2 A	1.2 A	1.2 A	1.2 A	1.2 A
Current consumption, max.	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A
Interfaces						
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB
Video interfaces						
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces						
• USB	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7863-6MA14-2-AA0	6AV7863-6MA15-2-AA0	6AV7863-6MA16-2-AA0	6AV7863-6MA14-2-NA0	6AV7863-6MA15-2-NA0	6AV7863-6MA16-2-NA0
	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
FM approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations						
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing						
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material						
Enclosure material (front)	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions						
Width of the housing front	462 mm	462 mm	462 mm	462 mm	462 mm	462 mm
Height of housing front	292 mm	292 mm	292 mm	292 mm	292 mm	292 mm
Weights						
Weight (without packaging)	6.3 kg	6.3 kg	6.9 kg	6.3 kg	6.3 kg	6.9 kg

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Technical specifications (continued)

Article number	6AV7863-4MA14-2-AA0	6AV7863-4MA15-2-AA0	6AV7863-4MA16-2-AA0	6AV7863-4MA14-2-NA0	6AV7863-4MA15-2-NA0	6AV7863-4MA16-2-NA0
	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO
General information						
Product type designation	IFP2200 PRO	IFP2200 V2 PRO	IFP2200 V2 PRO	IFP2200 PRO	IFP2200 V2 PRO	IFP2200 V2 PRO
Short designation	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.
Display						
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"
Screen diagonal [cm]	54.6 cm	54.6 cm	54.6 cm	54.6 cm	54.6 cm	54.6 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)						
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features						
• Brightness/contrast	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes	Yes	Yes	Yes
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting						
• Type of backlighting	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device						
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting
Supply voltage						
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current						
Current consumption (rated value)	1 A	1 A	1 A	1 A	1 A	1 A
Current consumption, max.	1.3 A	1.3 A	1.3 A	1.3 A	1.3 A	1.3 A
Interfaces						
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB
Video interfaces						
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces						
• USB	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7863-4MA14-2-AA0	6AV7863-4MA15-2-AA0	6AV7863-4MA16-2-AA0	6AV7863-4MA14-2-NA0	6AV7863-4MA15-2-NA0	6AV7863-4MA16-2-NA0
	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
Certificate of suitability	hazardous zone 2/22; shipbuilding		hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
FM approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity						
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations						
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing						
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material						
Enclosure material (front)	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions						
Width of the housing front	527 mm	527 mm	527 mm	527 mm	527 mm	527 mm
Height of housing front	329 mm	329 mm	329 mm	329 mm	329 mm	329 mm

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Technical specifications (continued)

Article number	6AV7863-4MA14-2-AA0	6AV7863-4MA15-2-AA0	6AV7863-4MA16-2-AA0	6AV7863-4MA14-2-NA0	6AV7863-4MA15-2-NA0	6AV7863-4MA16-2-NA0
	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO
Weights						
Weight (without packaging)	7.6 kg	7.6 kg	8.2 kg	7.6 kg	7.6 kg	8.2 kg

Article number	6AV7863-7MA-14-2AA0	6AV7863-7MA-15-2AA0	6AV7863-7MA-16-2AA0	6AV7863-7MA-17-2AA0	6AV7863-7MA-14-2NA0	6AV7863-7MA-15-2NA0	6AV7863-7MA-16-2NA0	6AV7863-7MA-17-2NA0
	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO
General information								
Product type designation	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO
Short designation	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.
Display								
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in
Screen diagonal [cm]	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)								
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 080 x 1 920	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 080 x 1 920
General features								
• Brightness/contrast	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting								
• Type of backlighting	LED	LED	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements								
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device								
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation								
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting								
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting	Support arm mounting
Supply voltage								
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current								
Current consumption (rated value)	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A
Current consumption, max.	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A
Interfaces								
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB	USB	USB
Video interfaces								
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2

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Technical specifications (continued)

Article number	6AV7863-7MA-14-2AA0	6AV7863-7MA-15-2AA0	6AV7863-7MA-16-2AA0	6AV7863-7MA-17-2AA0	6AV7863-7MA-14-2NA0	6AV7863-7MA-15-2NA0	6AV7863-7MA-16-2NA0	6AV7863-7MA-17-2NA0
	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO
Touch interfaces								
• USB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection								
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)								
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates								
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Marine approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
Use in hazardous areas								
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No	No	No
Ambient conditions								
Ambient temperature during operation								
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level								
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity								
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations								
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing								
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material								
Enclosure material (front)	In standard design	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions								
Width of the housing front	583 mm	583 mm	583 mm	361 mm	583 mm	583 mm	583 mm	361 mm
Height of housing front	361 mm	361 mm	361 mm	583 mm	361 mm	361 mm	361 mm	583 mm
Weights								
Weight (without packaging)	9.2 kg	9.2 kg	9.9 kg	9.2 kg	9.2 kg	9.2 kg	9.9 kg	9.2 kg

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Overview



Industrial Flat Panels Hygienic are rugged industrial monitors. The devices are suitable as built-in appliances.

Various display sizes of 12", 15", 19" and 22" are available.

The monitors can be installed up to 100 m away from the IPC. Convenient operation of modern user interfaces is possible thanks to multi-touch.

Selection and ordering data

Industrial Flat Panel monitors	
SIMATIC IFP1200 V2 Hygienic	
12" multi-touch 1 280 x 800, extended HDBaseT up to 100 m	
• Standard design	**6AV7285-6NH00-0AA0**
• Neutral design	**6AV7285-6NH00-0AB0**
SIMATIC IFP1500 V2 Hygienic	
15" multi-touch, 1 920 x 1 080 pixels	
• Extended version HdBaseT up to 100 m	**6AV7285-6HH00-0AA0**
• Extended version, neutral design	**6AV7285-6HH00-0AB0**
SIMATIC IFP1900 V2 Hygienic	
19" multi-touch, 1 920 x 1 080 pixels	
• Extended version HdBaseT up to 100 m	**6AV7285-6KH00-0AA0**
• Extended version, neutral design	**6AV7285-6KH00-0AB0**
SIMATIC IFP2200 V2 Hygienic	
22" multi-touch, 1 920 x 1 080 pixels	
• Extended version HdBaseT up to 100 m	**6AV7285-6LH00-0AA0**
• Extended version, neutral design	**6AV7285-6LH00-0AB0**

Accessories	
Set with steel mounting clips	**6AV6671-8XK00-0AX3**
DisplayPort cable (industrial quality)	
• 3 m	**6AV7860-0DH30-0AA0**
• 5 m	**6AV7860-0DH50-0AA0**
DVI-D cable (industrial quality)	
• 3 m	**6AV7860-0BH30-0AA0**
• 5 m	**6AV7860-0BH50-0AA0**
USB cable (industrial quality)	
• 3 m	**6AV7860-0CH30-0AA0**
• 5 m	**6AV7860-0CH50-0AA0**
Accessories for HDBaseT variants	
Cable set, consisting of:	
Transceiver Unit with • Two ferrites • USB cable, length 0.5 m • Connector type A • Connector type B DisplayPort cable, length 0.5 m • Cat. 6A Ethernet cable, length see "Specification"	
• 10 m	**6AV7860-1EX21-0AB1**
• 15 m	**6AV7860-1EX21-5AB1**
• 20 m	**6AV7860-1EX22-0AB1**
• 30 m	**6AV7860-1EX23-0AB1**
Cat. 6A Ethernet cable	
• 10 m	**6AV7860-0EH01-0AA0**
• 15 m	**6AV7860-0EH01-5AA0**
• 20 m	**6AV7860-0EH02-0AA0**
• 30 m	**6AV7860-0EH03-0AA0**

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Technical specifications

Article number	6AV7285-6NH00-0AA0 SIMATIC IFP1200 V2 ext Hygienic	6AV7285-6NH00-0AB0 SIMATIC IFP1200 V2 ext Hygienic Neutral	6AV7285-6HH00-0AA0 SIMATIC IFP1500 V2 ext Hygienic	6AV7285-6HH00-0AB0 SIMATIC IFP1500 V2 ext Hygienic Neutral
General information				
Product type designation	IFP1200 V2 ext. hyg.	IFP1200 V2 ext. hyg.	IFP1500 V2 ext. hyg.	IFP1500 V2 ext. hyg.
Short designation	Flat Panel 12" multi-touch ext. hygienic	Flat Panel 12" multi-touch ext. hygienic	Flat Panel 15" multi-touch ext. hygienic	Flat Panel 15" multi-touch ext. hygienic
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in; 12"	12.1 in; 12"	15.6 in; 15"	15.6 in; 15"
Screen diagonal [cm]	30.7 cm	30.7 cm	40 cm	40 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	176° x 176°	176° x 176°	178° x 178°	178° x 178°
Resolution (pixels)				
• Image resolution	1 280 x 800	1 280 x 800	1 920 x 1 080	1 920 x 1 080
General features				
• Brightness/contrast	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 700:1	400 cd/m² / 700:1
• non-reflective and tempered mineral glass screen	No; reinforced pane with shatter protection film	No; reinforced pane with shatter protection film	No; reinforced pane with shatter protection film	No; reinforced pane with shatter protection film
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	70 000 h; At 25°C	70 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements				
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device				
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation				
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system
Installation type/mounting				
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current				
Current consumption (rated value)	0.65 A	0.65 A	1 A	1 A
Current consumption, max.	1 A	1 A	1.3 A	1.3 A
Interfaces				
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB
Video interfaces				
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces				
• USB	Yes; (device)	Yes; (device)	Yes; (device)	Yes; (device)
Degree and class of protection				
IP (at the front)	IP66K, IP69	IP66K, IP69	IP66K, IP69	IP66K, IP69
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7285-6NH00-0AA0 SIMATIC IFP1200 V2 ext Hygienic	6AV7285-6NH00-0AB0 SIMATIC IFP1200 V2 ext Hygienic Neutral	6AV7285-6HH00-0AA0 SIMATIC IFP1500 V2 ext Hygienic	6AV7285-6HH00-0AB0 SIMATIC IFP1500 V2 ext Hygienic Neutral
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	No; in preparation	No; in preparation	No; in preparation	No; in preparation
CCC	No; in preparation	No; in preparation	No; in preparation	No; in preparation
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas				
• ATEX Zone 2	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Vibrations				
• Vibration load in operation	10 m/s²	10 m/s²	10 m/s²	10 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²	10 m/s²
Shock testing				
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	250 m/s²	250 m/s²	250 m/s²	250 m/s²
Mechanics/material				
Enclosure material (front)				
• plastic	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film
• Stainless steel	Yes	Yes	Yes	Yes
Enclosure material (rear)	stainless steel, aluminum	stainless steel, aluminum	stainless steel, aluminum	stainless steel, aluminum
Dimensions				
Width of the housing front	337.6 mm	337.6 mm	411.8 mm	411.8 mm
Height of housing front	248.4 mm	248.4 mm	272.2 mm	272.2 mm
Mounting cutout, width	310 mm; Tolerance: +1 mm	310 mm; Tolerance: +1 mm	382 mm; Tolerance: +1 mm	382 mm; Tolerance: +1 mm
Mounting cutout, height	221 mm; Tolerance: +1 mm	221 mm; Tolerance: +1 mm	241 mm; Tolerance: +1 mm	241 mm; Tolerance: +1 mm
mounting depth	65.7 mm	65.7 mm	67.7 mm	67.7 mm
Weights				
Weight (without packaging)	3.9 kg	3.9 kg	4.7 kg	4.7 kg

Article number	6AV7285-6KH00-0AA0 SIMATIC IFP1900 V2 ext Hygienic	6AV7285-6KH00-0AB0 SIMATIC IFP1900 V2 ext Hygienic Neutral	6AV7285-6LH00-0AA0 SIMATIC IFP2200 V2 ext Hygienic	6AV7285-6LH00-0AB0 SIMATIC IFP2200 V2 ext Hygienic Neutral
General information				
Product type designation	IFP1900 V2 ext. hyg.	IFP1900 V2 ext. hyg.	IFP2200 V2 ext. hyg.	IFP2200 V2 ext. hyg.
Short designation	Flat Panel 19" multi-touch ext. hygienic	Flat Panel 19" multi-touch ext. hygienic	Flat Panel 22" multi-touch ext. hygienic	Flat Panel 22" multi-touch ext. hygienic
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in; 19"	18.5 in; 19"	21.5 in; 22"	21.5 in; 22"
Screen diagonal [cm]	47 cm	47 cm	56 cm	56 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software

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Technical specifications (continued)

Article number	6AV7285-6KH00-0AA0 SIMATIC IFP1900 V2 ext Hygienic	6AV7285-6KH00-0AB0 SIMATIC IFP1900 V2 ext Hygienic Neutral	6AV7285-6LH00-0AA0 SIMATIC IFP2200 V2 ext Hygienic	6AV7285-6LH00-0AB0 SIMATIC IFP2200 V2 ext Hygienic Neutral
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	170° x 170°	170° x 170°
Resolution (pixels)				
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features				
• Brightness/contrast	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1
• non-reflective and tempered mineral glass screen	No; reinforced pane with shatter protection film	No; reinforced pane with shatter protection film	No; reinforced pane with shatter protection film	No; reinforced pane with shatter protection film
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements				
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device				
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation				
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system	Yes; If supported by operating system
Installation type/mounting				
Design	Built-in unit	Built-in unit	Built-in unit	Built-in unit
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current				
Current consumption (rated value)	1.2 A	1.2 A	1 A	1 A
Current consumption, max.	1.5 A	1.5 A	1.3 A	1.3 A
Interfaces				
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB
Video interfaces				
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces				
• USB	Yes; (device)	Yes; (device)	Yes; (device)	Yes; (device)
Degree and class of protection				
IP (at the front)	IP66K, IP69	IP66K, IP69	IP66K, IP69	IP66K, IP69
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)				
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	No; in preparation	No; in preparation	No; in preparation	No; in preparation
CCC	No; in preparation	No; in preparation	No; in preparation	No; in preparation
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas				
• ATEX Zone 2	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7285-6KH00-0AA0 SIMATIC IFP1900 V2 ext Hygienic	6AV7285-6KH00-0AB0 SIMATIC IFP1900 V2 ext Hygienic Neutral	6AV7285-6LH00-0AA0 SIMATIC IFP2200 V2 ext Hygienic	6AV7285-6LH00-0AB0 SIMATIC IFP2200 V2 ext Hygienic Neutral
• IECEx Zone 22	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	45 °C	45 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Vibrations				
• Vibration load in operation	10 m/s²	10 m/s²	10 m/s²	10 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²	10 m/s²
Shock testing				
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	250 m/s²	250 m/s²	250 m/s²	250 m/s²
Mechanics/material				
Enclosure material (front)				
• plastic	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film	Yes; shatter protection film
• Stainless steel	Yes	Yes	Yes	Yes
Enclosure material (rear)	stainless steel, aluminum	stainless steel, aluminum	stainless steel, aluminum	stainless steel, aluminum
Dimensions				
Width of the housing front	478.4 mm	478.4 mm	544.7 mm	544.7 mm
Height of housing front	308.2 mm	308.2 mm	346.2 mm	346.2 mm
Mounting cutout, width	448 mm; Tolerance: +1 mm	448 mm; Tolerance: +1 mm	513 mm; Tolerance: +1 mm	513 mm; Tolerance: +1 mm
Mounting cutout, height	278 mm; Tolerance: +1 mm	278 mm; Tolerance: +1 mm	315 mm; Tolerance: +1 mm	315 mm; Tolerance: +1 mm
mounting depth	67.7 mm	67.7 mm	67.7 mm	67.7 mm
Weights				
Weight (without packaging)	6.2 kg	6.2 kg	7.8 kg	7.8 kg

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Overview

As the successor to the SIMATIC IFP Basic product series, the range of industrial touch monitors in the SIMATIC HMI IM-3xxA product family has been expanded to include cost-effective variants. SIMATIC HMI IM-3xxA devices feature touch operation and are available in 4 display sizes: 12", 15", 19" and 22". 19" and 22" will be introduced later in FY25 (scheduled for July).

Selection and ordering data

SIMATIC IM-312A/315A	
SIMATIC HMI IM-312A • Multi-touch industrial monitor • 12" (resolution 1280 x 800) • Power supply; 12-24 V DC • 1 x DP, 1 x HDMI • 1 x USB (downstream) • 1 x USB type B for touch control	**6AV7862-2BC00-2AA0**
SIMATIC HMI IM-315A • Multi-touch industrial monitor • 15" (resolution 1920 x 1080) • Power supply; 12-24 V DC • 1 x DP, 1 x HDMI • 1 x USB (downstream); • 1 x USB type A downstream • 1 x USB type B for touch control	**6AV7862-2BD00-2AA0**

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Overview



SIMATIC ITC Industrial Thin Clients are powerful operating units for flexible use in distributed visualization applications. All devices are equipped with high-resolution, brilliant widescreen displays, and due to the diverse communication protocols they can be used both for challenging machine-level operator control & monitoring and for the connection to control systems, e.g. in the SCADA environment. They can be used as (additional) operator panels on a SIMATIC Industrial PC, Panel PC, or server, and on a SIMATIC Panel or SINUMERIK.

SIMATIC Industrial Thin Clients are also available as glass-front, capacitive multi-touch devices in display sizes 12", 15", 19", 22" and 24".

- SIMATIC ITC1200 V3 – 12" multi-touch 1 280 x 800
- SIMATIC ITC1200 V3 – 15" multi-touch 1 280 x 800
- SIMATIC ITC1500 V3 – 15" multi-touch 1 366 x 768
- SIMATIC ITC1200 V3 – 15" multi-touch 1 280 x 800
- SIMATIC ITC1900 V3 – 19" multi-touch 1 366 x 768
- SIMATIC ITC1500 V3 – 15" multi-touch 1 920 x 1080
- SIMATIC ITC1900 V3 – 19" multi-touch 1 920 x 1080
- SIMATIC ITC2200 V3 – 22" multi-touch 1 920 x 1 080
- SIMATIC ITC2400 V3 – 24" multi-touch 1 920 x 1 080

The following installation versions with resistive single-touch are still available:

- SIMATIC ITC1200 – 12" touch
- SIMATIC ITC1500 – 15" touch
- SIMATIC ITC1900 – 19" touch
- SIMATIC ITC2200 – 22" touch

The SIMATIC HMI Thin Client Ex is available for hazardous areas (Zone 1/11). This device differs technically from the devices mentioned above. For more details, refer to the SIMATIC Thin Client EX chapter.

Mode of operation

One or more SIMATIC ITCs are connected over Ethernet to a server (PC or panel). No local applications are executed on the devices themselves (apart from the integrated web browser). All thin clients are provided with the faceplate by the server over the network, and display this faceplate without applications being installed on the thin client. Inputs on the thin client are transferred to the server and processed there. The user operates the thin client as if working on the server itself. Touch operation or operation using a keyboard/mouse connected to the USB interfaces is possible.

Selection and ordering data

Industrial Thin Client with multi-touch	
SIMATIC Industrial Thin Client V3	
Capacitive touch sensor Protocols supported: RDP, VNC, SMARTSERVER HTML5, etc., standard design, built-in unit	
• SIMATIC ITC1200 V3 12" widescreen TFT display	**6AV6646-1BA12-0NA1**
• SIMATIC ITC1500 V3 15" widescreen TFT display	**6AV6646-1BA15-0AA1**
• SIMATIC ITC1500 V3 15" widescreen TFT display, neutral design	**6AV6646-1BA15-0NA1**
• SIMATIC ITC1500 V3 15" widescreen TFT display, Full HD	**6AV6646-1BA16-0AA1**
• SIMATIC ITC1500 V3 15" widescreen TFT display, Full HD, neutral design	**6AV6646-1BA16-0NA1**
• SIMATIC ITC1900 V3 19" widescreen TFT display	**6AV6646-1BA18-0AA1**
• SIMATIC ITC1900 V3 19" widescreen TFT display, neutral design	**6AV6646-1BA18-0NA1**
• SIMATIC ITC1900 V3 19" widescreen TFT display, Full HD	**6AV6646-1BA20-0AA1**
• SIMATIC ITC1900 V3 19" widescreen TFT display, Full HD, neutral design	**6AV6646-1BA20-0NA1**
• SIMATIC ITC2200 V3 22" widescreen TFT display	**6AV6646-1BA22-1AA1**
• SIMATIC ITC2200 V3 22" widescreen TFT display, neutral design	**6AV6646-1BA22-1NA1**
• SIMATIC ITC1200 V3 12" widescreen TFT display	**6AV6646-1BA12-0AA1**
• SIMATIC ITC2400 V3 24" widescreen TFT display	**6AV6646-1BA24-0AA1**
• SIMATIC ITC2400 V3 24" widescreen TFT display, neutral design	**6AV6646-1BA24-0NA1**

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Technical specifications

Article number	6AV6646-1BA22-1AA0 SIMATIC ITC2200 V3
General information	
Product type designation	ITC2200 V3
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	21.5 in; 22"
Number of colors	16 777 216
Resolution (pixels)	
• Image resolution	1 920 x 1 080
General features	
• non-reflective and tempered mineral glass screen	Yes
• Detachable from computer unit	100 m
Backlighting	
• Type of backlighting	LED, dimmable
• MTBF backlighting (at 25 °C)	30 000 h; At 25°C
Control elements	
Control elements	multi-touch screen
Touch operation	
• Design as touch screen	Yes
• Design as multi-touch screen	Yes; Projective-capacitive
• Monitor keyboard	Yes
Installation type/mounting	
Design	Built-in unit
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch)
Number of USB interfaces	4; on rear
USB on the rear	Yes; 2x onboard
Connection for keyboard/mouse	USB
Industrial Ethernet	
• Transmission rate, max.	1 000 Mbit/s
Degree and class of protection	
IP (at the front)	IP65
NEMA (front)	
• Enclosure Type 4x at the front	Yes
• Enclosure Type 12 at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX Zone 2	Yes
• ATEX Zone 22	Yes
• IECEx Zone 2	Yes
• IECEx Zone 22	Yes
• cULus Class I Zone 2, Division 2	Yes
• FM Class I Division 2	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C

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Technical specifications (continued)

Article number	6AV6646-1BA22-1AA0 SIMATIC ITC2200 V3
Relative humidity	
• Operation, max.	90 %; no condensation
Vibrations	
• Vibration load in operation	10 m/s²
• Vibration load during transport/storage	10 m/s²
Shock testing	
• Shock load during operation	150 m/s²
• shock acceleration during storage/transport	150 m/s²
Software	
Web browser	Yes; HTML5, CSS
PDF reader	Yes
Configuration	
Configuration	
• Local	Yes
• Remote	Yes; Via web page
Languages	
Online languages	
• Number of online/runtime languages	3; german / english
Peripherals/Options	
USB memory	Yes; USB storage medium can be connected
Mechanics/material	
Enclosure material (front)	
• Aluminum	Yes
Dimensions	
Width of the housing front	529 mm
Height of housing front	331 mm
Mounting cutout, width	513 mm
Mounting cutout, height	315 mm
mounting depth	73 mm
Weights	
Weight (without packaging)	7.2 kg

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Overview

Fully-enclosed IP65-protected devices

SIMATIC IPC in fully-enclosed IP65 degree of protection housing (SIMATIC IPC monitors and Panel PC) are specially designed for support arm/pedestal mounting. Thanks to their extremely rugged design, the devices are ideal for industrial applications in harsh environments. A wide variety of system components are available for this purpose, such as fixing elements, expansion modules and operator controls.

Devices with stainless steel fronts

SIMATIC IPC devices with stainless steel fronts (INOX) are designed for use in the food and beverages, pharmaceutical and fine chemicals industries and other hygienic applications for machine-level operator control and monitoring.

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Overview



Fully-enclosed IP65-protected devices

Fully-enclosed SIMATIC IP65-protected devices are specifically designed to be mounted to a support arm/pedestal.
Thanks to their extremely rugged design, the devices are ideal for industrial applications in harsh environments.

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Overview



SIMATIC IFP2400 V2 PRO, standard design, front view



SIMATIC IFP PRO and SIMATIC IFP PRO ETH:
The new Industrial Flat Panels with fully-enclosed IP65 degree of protection – the industrial widescreen monitors for harsh ambient conditions that can be installed directly on the machine

SIMATIC IFP1200 PRO

The SIMATIC IFP1200 PRO supplements the current product range of the new Industrial Flat Panels. Equipped with innovative, projected capacitive touchscreen technology for the detection of multi-touch gestures with up to ten fingers and with a brilliant widescreen display and glass front.

The devices are connected to PCs, especially SIMATIC IPCs, via the DisplayPort interface or, over greater distances, via HDBaseT and USB.

The rugged aluminum enclosure of the monitor enables it to be used directly at the machine and ensures durability, even in harsh and extreme operating environments.

Overview (continued)

- IP65 degree of protection – fully-enclosed
- Can be located up to 100 m from the computing unit (IFP Extended version)
- Rugged, industrial 12", 15", 19", 22" and 24" widescreen displays (multi-touch)
- Slim, modern design
- Can be adapted to support arm system of various manufacturers
- Fast integration capability
- Low energy demand
- Small footprint and low weight
- Low wiring overhead and short maintenance times thanks to use of standard connecting cables
- Integration of operator controls in the new Extension Units
- Also available in neutral design

SIMATIC IFP PRO ETH

IFP1500 PRO ETH, IFP1900 PRO ETH and IFP2200 PRO ETH supplement the current product range of new Industrial Flat Panels with their Full HD resolution (1920 x 1080 pixels) and neutral design fronts. Equipped with innovative, projected capacitive touchscreen technology for the detection of multi-touch gestures with up to ten fingers and with a brilliant widescreen display and glass front. The devices are connected by means of a DisplayPort or Ethernet and USB to PCs, in particular SIMATIC IPCs. The rugged aluminum enclosure of the monitor enables it to be used directly at the machine and ensures durability, even in harsh and extreme operating environments.

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Selection and ordering data

SIMATIC IFP1200 V2 PRO	
12" (16:10) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 280 x 800 pixels, for 24 V DC DisplayPort fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-1MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-1MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-1MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-1MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-1MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-1MA16-2NA0**
SIMATIC IFP1500 V2 PRO	
15" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-5MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-5MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-5MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-5MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-5MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-5MA16-2NA0**
SIMATIC IFP1900 V2 PRO	
19" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort, fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-6MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-6MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-6MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-6MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-6MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-6MA16-2NA0**
SIMATIC IFP2200 V2 PRO	
22" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort, fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-4MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-4MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-4MA16-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-4MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-4MA15-2NA0**

Selection and ordering data (continued)

• Prepared for support arm and extension components	**6AV7863-4MA16-2NA0**
SIMATIC IFP2400 V2 PRO	
24" (16:9) Flat Panel, multi-touch, extended version up to 100 m via HDBaseT, 1 920 x 1 080 pixels, for 24 V DC DisplayPort, fully-enclosed IP65 protection	
• Prepared for pedestal and extension components	**6AV7863-7MA14-2AA0**
• Prepared for support arm without extension components	**6AV7863-7MA15-2AA0**
• Prepared for support arm and extension components	**6AV7863-7MA16-2AA0**
• Portrait Prepared for support arm and extension components	**6AV7863-7MA17-2AA0**
Neutral design:	
• Prepared for pedestal and extension components	**6AV7863-7MA14-2NA0**
• Prepared for support arm without extension components	**6AV7863-7MA15-2NA0**
• Prepared for support arm and extension components	**6AV7863-7MA16-2NA0**
• Portrait Prepared for support arm and extension components	**6AV7863-7MA17-2NA0**
SIMATIC IFP1500 PRO HD ETH	
15" (16:9) Flat Panel, multi-touch, Ethernet up to 100 m, 1 920 x 1 080 pixels, for 24 V DC DisplayPort/Ethernet interface, fully-enclosed IP65 protection, neutral design	
• Prepared for pedestal and extension components	**6AV7466-5MA01-0AA0**
• Prepared for support arm and extension components	**6AV7466-5MA02-0AA0**
SIMATIC IFP1900 PRO HD ETH	
19" (16:9) Flat Panel, multi-touch, Ethernet up to 100 m, 1 920 x 1 080 pixels, for 24 V DC DisplayPort/Ethernet interface, fully-enclosed IP65 protection, neutral design	
• Prepared for pedestal and extension components	**6AV7466-6MA01-0AA0**
• Prepared for support arm and extension components	**6AV7466-6MA02-0AA0**
SIMATIC IFP2200 PRO HD ETH	
22" (16:9) Flat Panel, multi-touch, Ethernet up to 100 m, 1 920 x 1 080 pixels, for 24 V DC DisplayPort/Ethernet interface, fully-enclosed IP65 protection, neutral design	
• Prepared for pedestal and extension components	**6AV7466-8MA01-0AA0**
• Prepared for support arm and extension components	**6AV7466-8MA02-0AA0**

Note:

As in the case of the Flat Panel PRO, adaptation to support arm/pedestal systems is possible using the basic adapter. This is included in the scope of supply (only in the case of the "prepared for support arm and extension components" version is the basic adapter not included, as the connection is made via a round tube).

For the version "prepared for support arm and extension components", installation can alternatively take place with the Siemens round tube adapter or with a standard 48 mm diameter round tube.
The round tube adapter enables the transition from a round tube connection to the familiar mechanical interface of the basic adapter. This means you can combine different versions of the PRO devices with the same support arm or pedestal system.

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Technical specifications

Article number	6AV7863-1MA14-2-AA0	6AV7863-1MA16-2-AA0	6AV7863-1MA15-2-AA0	6AV7863-1MA14-2-NA0	6AV7863-1MA15-2-NA0	6AV7863-1MA16-2-NA0
	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO
General information						
Product type designation	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO	IFP1200 V2 PRO
Short designation	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.	Flat Panel 12" multi-touch ext.
Display						
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in	12.1 in
Screen diagonal [cm]	30.7 cm	30.7 cm	30.7 cm	30.7 cm	30.7 cm	30.7 cm
On Screen Display (OSD) configuration	No	No	No	No	No	No
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	176° x 176°	176° x 176°	176° x 176°	176° x 176°	176° x 176°	176° x 176°
Resolution (pixels)						
• Image resolution	1 280 x 800	1 280 x 800	1 280 x 800	1 280 x 800	1 280 x 800	1 280 x 800
General features						
• Brightness/contrast	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1	400 cd/m² / 800:1
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting						
• Type of backlighting	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C	70 000 h; At 25°C
Control elements						
Input device						
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting
Supply voltage						
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current						
Current consumption (rated value)	0.65 A	0.65 A	0.65 A	0.65 A	0.65 A	0.65 A
Current consumption, max.	1 A	1 A	1 A	1 A	1 A	1 A
Interfaces						
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB
Video interfaces						
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces						
• USB	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						

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Technical specifications (continued)

Article number	6AV7863-1MA14-2-AA0	6AV7863-1MA16-2-AA0	6AV7863-1MA15-2-AA0	6AV7863-1MA14-2-NA0	6AV7863-1MA15-2-NA0	6AV7863-1MA16-2-NA0
	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO	SIMATIC Flat Panel 12" MT V2 PRO
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
FM approval	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity						
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations						
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing						
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material						
Enclosure material (front)	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions						
Width of the housing front	313 mm	313 mm	313 mm	313 mm	313 mm	313 mm
Height of housing front	225 mm	225 mm	225 mm	225 mm	225 mm	225 mm
Weights						
Weight (without packaging)	4 kg	4.4 kg	4 kg	4 kg	4 kg	4.4 kg

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Technical specifications (continued)

Article number	6AV7863-6MA14-2-AA0	6AV7863-6MA15-2-AA0	6AV7863-6MA16-2-AA0	6AV7863-6MA14-2-NA0	6AV7863-6MA15-2-NA0	6AV7863-6MA16-2-NA0
	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO
General information						
Product type designation	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO	IFP1900 V2 PRO
Short designation	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.	Flat Panel 19" PRO multi-touch ext.
Display						
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"	18.5 in; 19"
Screen diagonal [cm]	47 cm	47 cm	47 cm	47 cm	47 cm	47 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)						
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features						
• Brightness/contrast	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1	350 cd/m² / 1 000:1
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes	Yes	Yes	Yes
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting						
• Type of backlighting	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements						
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device						
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation						
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting
Supply voltage						
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current						
Current consumption (rated value)	1.2 A	1.2 A	1.2 A	1.2 A	1.2 A	1.2 A
Current consumption, max.	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A
Interfaces						
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB
Video interfaces						
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces						
• USB	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7863-6MA14-2-AA0	6AV7863-6MA15-2-AA0	6AV7863-6MA16-2-AA0	6AV7863-6MA14-2-NA0	6AV7863-6MA15-2-NA0	6AV7863-6MA16-2-NA0
	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO	SIMATIC Flat Panel 19 MT V2 PRO
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
FM approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations						
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing						
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material						
Enclosure material (front)	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions						
Width of the housing front	462 mm	462 mm	462 mm	462 mm	462 mm	462 mm
Height of housing front	292 mm	292 mm	292 mm	292 mm	292 mm	292 mm
Weights						
Weight (without packaging)	6.3 kg	6.3 kg	6.9 kg	6.3 kg	6.3 kg	6.9 kg

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Technical specifications (continued)

Article number	6AV7863-4MA14-2-AA0	6AV7863-4MA15-2-AA0	6AV7863-4MA16-2-AA0	6AV7863-4MA14-2-NA0	6AV7863-4MA15-2-NA0	6AV7863-4MA16-2-NA0
	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO
General information						
Product type designation	IFP2200 PRO	IFP2200 V2 PRO	IFP2200 V2 PRO	IFP2200 PRO	IFP2200 V2 PRO	IFP2200 V2 PRO
Short designation	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.	Flat Panel 22" PRO multi-touch ext.
Display						
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"	21.5 in; 22"
Screen diagonal [cm]	54.6 cm	54.6 cm	54.6 cm	54.6 cm	54.6 cm	54.6 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)						
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080
General features						
• Brightness/contrast	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes	Yes	Yes	Yes
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting						
• Type of backlighting	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device						
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting
Supply voltage						
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current						
Current consumption (rated value)	1 A	1 A	1 A	1 A	1 A	1 A
Current consumption, max.	1.3 A	1.3 A	1.3 A	1.3 A	1.3 A	1.3 A
Interfaces						
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB
Video interfaces						
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2
Touch interfaces						
• USB	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV7863-4MA14-2-AA0	6AV7863-4MA15-2-AA0	6AV7863-4MA16-2-AA0	6AV7863-4MA14-2-NA0	6AV7863-4MA15-2-NA0	6AV7863-4MA16-2-NA0
	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
Certificate of suitability	hazardous zone 2/22; shipbuilding		hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
FM approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity						
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations						
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing						
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material						
Enclosure material (front)	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions						
Width of the housing front	527 mm	527 mm	527 mm	527 mm	527 mm	527 mm
Height of housing front	329 mm	329 mm	329 mm	329 mm	329 mm	329 mm

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Technical specifications (continued)

Article number	6AV7863-4MA14-2-AA0	6AV7863-4MA15-2-AA0	6AV7863-4MA16-2-AA0	6AV7863-4MA14-2-NA0	6AV7863-4MA15-2-NA0	6AV7863-4MA16-2-NA0
	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO	SIMATIC Flat Panel 22 MT V2 PRO
Weights						
Weight (without packaging)	7.6 kg	7.6 kg	8.2 kg	7.6 kg	7.6 kg	8.2 kg

Article number	6AV7863-7MA-14-2AA0	6AV7863-7MA-15-2AA0	6AV7863-7MA-16-2AA0	6AV7863-7MA-17-2AA0	6AV7863-7MA-14-2NA0	6AV7863-7MA-15-2NA0	6AV7863-7MA-16-2NA0	6AV7863-7MA-17-2NA0
	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO
General information								
Product type designation	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO	IFP2400 V2 PRO
Short designation	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.	Flat Panel 24" PRO multi-touch ext.
Display								
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in	23.8 in
Screen diagonal [cm]	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm	60.47 cm
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Viewing angle	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°	178° x 178°
Resolution (pixels)								
• Image resolution	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 080 x 1 920	1 920 x 1 080	1 920 x 1 080	1 920 x 1 080	1 080 x 1 920
General features								
• Brightness/contrast	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1	250 cd/m² / 1 000:1
• Detachable from computer unit	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol	100 m; HDBaseT protocol
Backlighting								
• Type of backlighting	LED	LED	LED	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements								
Control elements	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen	multi-touch screen
Input device								
• Integrated mouse cursor control	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB	Yes; Also externally via USB
Touch operation								
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting								
Design	Pedestal mounting	Support arm mounting	Support arm mounting	Support arm mounting	Pedestal mounting	Support arm mounting	Support arm mounting	Support arm mounting
Supply voltage								
Rated value (DC)	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating	24 V; PELV / SELV floating
Input current								
Current consumption (rated value)	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A	1.5 A
Current consumption, max.	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A	1.9 A
Interfaces								
Number of USB interfaces	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB	USB	USB	USB	USB	USB
Video interfaces								
• DisplayPort	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2	Yes; Display port V1.2

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Technical specifications (continued)

Article number	6AV7863-7MA-14-2AA0	6AV7863-7MA-15-2AA0	6AV7863-7MA-16-2AA0	6AV7863-7MA-17-2AA0	6AV7863-7MA-14-2NA0	6AV7863-7MA-15-2NA0	6AV7863-7MA-16-2NA0	6AV7863-7MA-17-2NA0
	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO	SIMATIC Flat Panel 24 MT V2 PRO
Touch interfaces								
• USB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection								
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)								
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates								
Certificate of suitability	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding	hazardous zone 2/22; shipbuilding
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL	Yes; cULus, cUL
cULus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FM approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Marine approval	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation	in preparation
Use in hazardous areas								
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No	No	No	No	No	No	No	No
Ambient conditions								
Ambient temperature during operation								
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Altitude during operation relating to sea level								
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity								
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations								
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn	1 gn
Shock testing								
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
• shock acceleration during storage/transport	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
Mechanics/material								
Enclosure material (front)	In standard design	In standard design	In standard design	In standard design	With neutral design	With neutral design	With neutral design	With neutral design
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Aluminum casting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Glass	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front	Yes; at front
Enclosure material (rear)	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Dimensions								
Width of the housing front	583 mm	583 mm	583 mm	361 mm	583 mm	583 mm	583 mm	361 mm
Height of housing front	361 mm	361 mm	361 mm	583 mm	361 mm	361 mm	361 mm	583 mm
Weights								
Weight (without packaging)	9.2 kg	9.2 kg	9.9 kg	9.2 kg	9.2 kg	9.2 kg	9.9 kg	9.2 kg

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Overview



SIMATIC Industrial Thin Client PRO

SIMATIC Industrial Thin Client PRO with capacitive multi-touch display is suitable for mounting directly on the support arm/pedestal.

Selection and ordering data

SIMATIC Industrial Thin Client PRO	
SIMATIC ITC1200 V3 PRO	
Industrial Thin Client 12" widescreen TFT display Capacitive touch sensor Supported protocols: RDP, VNC, SMARTSERVER HTML5, etc.	
Standard design	
• Pedestal mounting	**6AV6646-1BB12-0AA1**
• Prepared for support arm without extension components	**6AV6646-1BC12-0AA1**
• Prepared for support arm with extension components	**6AV6646-1BD12-0AA1**
Neutral design	
• Pedestal mounting	**6AV6646-1BB12-0NA1**
• Prepared for support arm without extension components	**6AV6646-1BC12-0NA1**
• Prepared for support arm with extension components	**6AV6646-1BD12-0NA1**
SIMATIC ITC1500 V3 PRO	
Industrial Thin Client 15" widescreen TFT display Capacitive touch sensor Supported protocols: RDP, VNC, SMARTSERVER HTML5, etc. Standard design	
• Pedestal mounting	**6AV6646-1BB15-0AA0**
• Prepared for support arm without extension components	**6AV6646-1BC15-0AA0**
• Prepared for support arm with extension components	**6AV6646-1BD15-0AA0**
Neutral design	
• Pedestal mounting	**6AV6646-1BB15-0NA0**
• Prepared for support arm without extension components	**6AV6646-1BC15-0NA0**
• Prepared for support arm with extension components	**6AV6646-1BD15-0NA0**
SIMATIC ITC1500 V3 PRO	
Industrial Thin Client 15" widescreen TFT display, Full HD Capacitive touch sensor Supported protocols: RDP, VNC, SMARTSERVER HTML5, etc.	
Standard design	
• Pedestal mounting	**6AV6646-1BB16-0AA1**
• Prepared for support arm without extension components	**6AV6646-1BC16-0AA1**
• Prepared for support arm with extension components	**6AV6646-1BD16-0AA1**
Neutral design	
• Pedestal mounting	**6AV6646-1BB16-0NA1**
• Prepared for support arm without extension components	**6AV6646-1BC16-0NA1**
• Prepared for support arm with extension components	**6AV6646-1BD16-0NA1**
SIMATIC ITC1900 V3 PRO	
Industrial Thin Client 19" widescreen TFT display Capacitive touch sensor Supported protocols: RDP, VNC, SMARTSERVER HTML5, etc.	
Standard design	
• Pedestal mounting	**6AV6646-1BB18-0AA1**
• Prepared for support arm without extension components	**6AV6646-1BC18-0AA1**
• Prepared for support arm with extension components	**6AV6646-1BD18-0AA1**
Neutral design	
• Pedestal mounting	**6AV6646-1BB18-0NA1**

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Selection and ordering data (continued)

• Prepared for support arm without extension components	**6AV6646-1BC18-0NA1**
• Prepared for support arm with extension components	**6AV6646-1BD18-0NA1**
SIMATIC ITC1900 V3 PRO	
Industrial Thin Client 19" widescreen TFT display, Full HD Capacitive touch sensor Supported protocols: RDP, VNC, SMARTSERVER HTML5, etc.	
Standard design	
• Pedestal mounting	**6AV6646-1BB20-0AA1**
• Prepared for support arm without extension components	**6AV6646-1BC20-0AA1**
• Prepared for support arm with extension components	**6AV6646-1BD20-0AA1**
Neutral design	
• Pedestal mounting	**6AV6646-1BB20-0NA1**
• Prepared for support arm without extension components	**6AV6646-1BC20-0NA1**
• Prepared for support arm with extension components	**6AV6646-1BD20-0NA1**
SIMATIC ITC2200 V3 PRO	
Industrial Thin Client 22" widescreen TFT display Capacitive touch sensor Supported protocols: RDP, VNC, SMARTSERVER HTML5, etc. Standard design	
Standard design	
• Pedestal mounting	**6AV6646-1BB22-1AA1**
• Prepared for support arm without extension components	**6AV6646-1BC22-1AA1**
• Prepared for support arm with extension components	**6AV6646-1BD22-1AA1**
Neutral design	
Pedestal mounting	**6AV6646-1BB22-1NA1**
Prepared for support arm without extension components	**6AV6646-1BC22-1NA1**
Prepared for support arm with extension components	**6AV6646-1BD22-1NA1**
SIMATIC ITC2400 V3 PRO	
Industrial Thin Client 24" widescreen TFT display Capacitive touch sensor Supported protocols: RDP, VNC, SMARTSERVER HTML5, etc.	
Standard design	
Pedestal mounting	**6AV6646-1BB24-0AA1**
Prepared for support arm without extension components	**6AV6646-1BC24-0AA1**
Prepared for support arm with extension components	**6AV6646-1BD24-0AA1**
Neutral design	
Pedestal mounting	**6AV6646-1BB24-0NA1**
Prepared for support arm without extension components	**6AV6646-1BC24-0NA1**
Prepared for support arm with extension components	**6AV6646-1BD24-0NA1**

Note:
An adapter plate is required for mounting on the support arm systems of well-known manufacturers; see "Accessories for fully-enclosed HMI devices".

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Technical specifications

Article number	6AV6646-1BB15-0AA0 SIMATIC ITC1500 V3 PRO	6AV6646-1BC15-0AA0 SIMATIC ITC1500 V3 PRO	6AV6646-1BD15-0AA0 SIMATIC ITC1500 V3 PRO
General information			
Product type designation	ITC1500 V3 PRO	ITC1500 V3 PRO	ITC1500 V3 PRO
Display			
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	15.6 in; 15"	15.6 in; 15"	15.6 in; 15"
Number of colors	16 777 216	16 777 216	16 777 216
Resolution (pixels)			
• Image resolution	1 366 x 768	1 366 x 768	1 366 x 768
General features			
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes
• Detachable from computer unit	100 m	100 m	100 m
Backlighting			
• Type of backlighting	LED, dimmable	LED, dimmable	LED, dimmable
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
Control elements			
Control elements	multi-touch screen	multi-touch screen	multi-touch screen
Touch operation			
• Design as touch screen	Yes	Yes	Yes
• Design as multi-touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
• Monitor keyboard	Yes	Yes	Yes
Installation type/mounting			
Design	Pedestal mounting	Support arm mounting	Support arm mounting
Supply voltage			
Type of supply voltage	DC	DC	DC
Rated value (DC)	24 V	24 V	24 V
Interfaces			
Number of industrial Ethernet interfaces	2; 2 ports (switch)	2; 2 ports (switch)	2; 2 ports (switch)
Number of USB interfaces	4; on rear	4; on rear	4; on rear
USB on the rear	Yes; 2x onboard	Yes; 2x onboard	Yes; 2x onboard
Connection for keyboard/mouse	USB	USB	USB
Industrial Ethernet			
• Transmission rate, max.	1 000 Mbit/s	1 000 Mbit/s	1 000 Mbit/s
Degree and class of protection			
IP (at the front)	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65
NEMA (front)			
• Enclosure Type 4x at the front	Yes	Yes	Yes
• Enclosure Type 12 at the front	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
cULus	Yes	Yes	Yes
FM approval	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes
KC approval	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes
Use in hazardous areas			
• ATEX Zone 2	No	No	No
• ATEX Zone 22	No	No	No
• IECEx Zone 2	No	No	No
• IECEx Zone 22	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No
• FM Class I Division 2	No	No	No
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C

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Technical specifications (continued)

Article number	6AV6646-1BB15-0AA0 SIMATIC ITC1500 V3 PRO	6AV6646-1BC15-0AA0 SIMATIC ITC1500 V3 PRO	6AV6646-1BD15-0AA0 SIMATIC ITC1500 V3 PRO
• max.	45 °C	45 °C	45 °C
Relative humidity			
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation
Vibrations			
• Vibration load in operation	10 m/s²	10 m/s²	10 m/s²
• Vibration load during transport/storage	10 m/s²	10 m/s²	10 m/s²
Shock testing			
• Shock load during operation	150 m/s²	150 m/s²	150 m/s²
• shock acceleration during storage/transport	150 m/s²	150 m/s²	150 m/s²
Software			
Web browser	Yes; HTML5, CSS	Yes; HTML5, CSS	Yes; HTML5, CSS
PDF reader	Yes	Yes	Yes
configuration / header			
Configuration			
• Local	Yes	Yes	Yes
• Remote	Yes; Via web page	Yes; Via web page	Yes; Via web page
Languages			
Online languages			
• Number of online/runtime languages	2; german / english	2; german / english	2; german / english
Peripherals/Options			
USB memory	Yes; USB storage medium can be connected	Yes; USB storage medium can be connected	Yes; USB storage medium can be connected
Mechanics/material			
Enclosure material (front)			
• Aluminum	Yes	Yes	Yes
Dimensions			
Width of the housing front	396 mm	396 mm	396 mm
Height of housing front	256 mm; Without basic adapter	256 mm; Without basic adapter	256 mm; Without basic adapter
Weights			
Weight (without packaging)	6.3 kg	6.3 kg	6.3 kg

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Overview



SIMATIC IPC277G PRO

The SIMATIC IPC277G PRO with fully-enclosed IP65 degree of protection in 12", 15" and 19" diagonal versions extends the portfolio of PRO devices.

The robust aluminum enclosure allows it to be used directly on the machine even in harsh ambient conditions.

The operating unit can either be mounted on a pedestal or connected to a support arm system.

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Selection and ordering data

SIMATIC IPC277G PRO (Nanopanel PC)	6AV7886-1	❑	❑	❑	❑	-	❑	❑	❑	O
Operating unit										
• 12" multi-touch (1280 x 800), for support arm (not expandable, flange on top)		A								
• 12" multi-touch (1280 x 800), for pedestal (expandable, flange at bottom)		B								
• 12" multi-touch (1280 x 800), for support arm (expandable, round tube)		C								
• 15" multi-touch (1920 x 1080), for support arm (not expandable, flange on top)		D								
• 15" multi-touch (1920 x 1080), for pedestal (expandable, flange at bottom)		E								
• 15" multi-touch (1920 x 1080), for support arm (expandable, round tube)		F								
• 19" multi-touch (1920 x 1080), for support arm (not expandable, flange on top)		G								
• 19" multi-touch (1920 x 1080), for pedestal (expandable, flange at bottom)		H								
• 19" multi-touch (1920 x 1080), for support arm (expandable, round tube)		J								
• 12" multi-touch neutral (1280 x 800), for support arm (not expandable, flange on top)		K								
• 12" multi-touch neutral (1280 x 800), for pedestal (expandable, flange at bottom)		L								
• 12" multi-touch neutral (1280 x 800), for support arm (expandable, round tube)		M								
• 15" multi-touch neutral (1920 x 1080), for support arm (not expandable, flange on top)		N								
• 15" multi-touch neutral (1920 x 1080), for pedestal (expandable, flange at bottom)		P								
• 15" multi-touch neutral (1920 x 1080), for support arm (expandable, round tube)		Q								
• 19" multi-touch neutral (1920 x 1080), for support arm (not expandable, flange on top)		R								
• 19" multi-touch neutral (1920 x 1080), for pedestal (expandable, flange at bottom)		S								
• 19" multi-touch neutral (1920 x 1080), for support arm (expandable, round tube)		T								
Processor										
• Atom X6413E (2-core)			A							
• Atom X6413E (4-core)			B							
• Atom X6414RE (4-core)			C							
• Atom X6413E (2-core) / TPM [1]			D							
• Atom X6413E (4-core) / TPM [1]			E							
• Atom X6414RE (4-core) / TPM [1]			F							
Work memory										
• 4 GB				1						
• 8 GB				2						
• 16 GB				3						
Hardware configuration										
• Without COM					1					
• 1x COM					2					
Mass storage										
• None							1			
• 256 GB Eco SSD							2			
• 240 GB SSD							3			
• 480 GB SSD							4			
Hardware extension										
• None								A		
• NVRAM								B		
Software										
• Without software									A	
• Windows 10 IoT Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es)									B	
• Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en, de, fr, it, es)									C	

[1] TPM = Trusted Platform Module

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.

The SIMATIC IPC online configurator offers a current overview at this link.

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Technical specifications

Article number	6AV7886-1....-.... SIMATIC IPC277G PRO
Installation type/mounting	
Design	Panel PC, PRO
maximum permissible installation angle +/-	45°
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Atom X6211E / X6413E / X6414RE
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco / 240 / 480 GB
Storage	
Type of memory	DDR4 SO-DIMM
Main memory	4 / 8 / 16 GB; inband ECC optional
Hardware configuration	
Slots	
• free slots	1x M.2
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2 10 GB/s + 2x USB 2.0 pin header
Connection for keyboard/mouse	USB / USB
serial interface	without / 1x COM (RS 232 / 422 / 485; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-6-2; 3 V/m, 2 GHz to 6 GHz 80 % AM acc. to IEC 61000-6-2; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length < 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length > 30 m
Interference immunity against voltage surge	

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Technical specifications (continued)

Article number	6AV7886-1....-.... SIMATIC IPC277G PRO
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (all-round)	IP65
IP (at the front)	IP65
IP (rear)	IP65
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C; 12": 40 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional
Software	
SIMATIC Software	Optional package with SIMATIC WinCC

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Overview



SIMATIC IPC PX-39A PRO

The SIMATIC IPC PX-39A PRO in 15", 19", 22" and 24" design with fully-enclosed IP65 degree of protection expands the portfolio of PRO devices.

The robust aluminum enclosure allows it to be used directly on the machine even in harsh ambient conditions.
The operating units can either be mounted on a pedestal or connected to a support arm system from above.

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Selection and ordering data

SIMATIC IPC PX-39A PRO [1]	6AV7252-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
Processors and fieldbus											
• Intel® Celeron® 6600HLE 2 cores/2 threads, 2.1 GHz, 8 MB cache, TCC		1									
• Intel® Xeon® W-11155MLE 4 cores/8 threads, 1.8 (3.1) GHz, 8 MB cache, ECC, TCC		3									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		5									
• Intel® Xeon® W-11555MLE 6 cores/12 threads, 1.9 (4.4) GHz, 12 MB cache, vPro, ECC, TCC		7									
Operating unit											
• 15" multi-touch (1920 x 1080)			A								
• 19" multi-touch (1920 x 1080)			C								
• 22" multi-touch (1920 x 1080)			E								
• 24" multi-touch (1920 x 1080)			G								
• 15" multi-touch neutral (1920 x 1080)			K								
• 19" multi-touch neutral (1920 x 1080)			M								
• 22" multi-touch neutral (1920 x 1080)			P								
• 24" multi-touch neutral (1920 x 1080)			R								
Work memory/NVRAM											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 32 GB				D							
• 16 GB with ECC				E							
• 32 GB with ECC				F							
• 8 GB and NVRAM (M.2 module)				G							
• 16 GB and NVRAM (M.2 module)				H							
• 32 GB and NVRAM (M.2 module)				J							
• 16 GB with ECC and NVRAM (M.2 module)				K							
• 32 GB with ECC and NVRAM (M.2 module)				L							
1st mass storage											
• Without 1st mass storage					0						
• M.2 SSD 256 GB Eco					1						
• M.2 SSD 512 GB Eco					2						
2nd mass storage in SIMATIC Slider (only with operating system, if without SSD1)/COM											
• Without 2nd mass storage						0					
• M.2 SSD 256 GB Eco						1					
• M.2 SSD 512 GB Eco						2					
• 1 x COM (RS232/485/422)						3					
Software configuration											
• Without operating system							0				
• Windows 10 Enterprise 2021 LTSC with Celeron, W-11155MLE, W-11555MLE processors							1				
• Windows 10 Enterprise 2021 LTSC with W-11865MLE processor							2				
Option 1											
• Pedestal (extendable, flange below)								A			
• Support arm (extendable, round tube).								B			
• Support arm (not extendable, flange on top)								C			
Option 2											
• Without USB flash drive (restore image; D&D)									A		
• With USB flash drive (restore image; D&D)									B		
Power supply											
• 24V DC industrial power supply (premium, NAU, isolated)											0

[1] IPC PX-39A PRO as "built to order" variants (max. delivery time 15 working days).

Note:
Please select the required IPC configuration via the TIA Selection Tool or configurator in the SiePortal in order to ensure availability; we do not accept any liability for configurations compiled by users themselves.
The SIMATIC IPC online configurator offers a current overview at this link.

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Technical specifications

Article number	6AV7252-.....-.... SIMATIC IPC PX-39A PRO
General information	
Product type designation	PX-39A PRO
Installation type/mounting	
Mounting	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm
maximum permissible installation angle +/-	±45 °
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Celeron 6600HLE (2.1 GHz, 2C/2T) Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/6T) Intel Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD ≥ 240 GB
SSD	Yes; ≥ 240 GB optional
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	1x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	4x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	

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Technical specifications (continued)

Article number	6AV7252-.....-.... SIMATIC IPC PX-39A PRO
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-4, CAN/CSA CISPR22 class A; KS C 9832, FCC class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP65
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	No; in preparation
BIS	Yes
EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	2 000 m
Relative humidity	
• Relative humidity	tested according to IEC 60068-2-78, IEC 60068-2-30: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%
• Operation, max.	85 %
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz up to 200 Hz: 9.8 m/s²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 50 m/s², 30 ms
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS

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Technical specifications (continued)

Article number	6AV7252-.....-.... SIMATIC IPC PX-39A PRO
without operating system	Yes; Optional

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Overview



SIMATIC IPC477E PRO

The SIMATIC IPC477E PRO with fully-enclosed IP65 degree of protection in 15", 19" and 22" versions extends the portfolio of PRO devices.

The robust aluminum enclosure allows it to be used directly on the machine even in harsh ambient conditions.
The operating unit can either be mounted on a pedestal or connected to a support arm system from above.

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Selection and ordering data

SIMATIC IPC477E PRO [1]	6AV7251-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
CPUs and fieldbus											
• Celeron G3902E; 3x Gigabit Ethernet (IE/PN)		1									
• Core i3-6102E; 3x Gigabit Ethernet (IE/PN)		3									
• Core i5-6442EQ; 3x Gigabit Ethernet (IE/PN)		5									
• XEON E3-1505L; 3x Gigabit Ethernet (IE/PN)		7									
Operating unit											
• 15" multi-touch (1 366 x 768), for support arm (not expandable, flange on top)			B								
• 15" multi-touch (1 366 x 768), for pedestal (expandable, flange below)			C								
• 15" multi-touch (1 366 x 768), for support arm (expandable, round tube)			D								
• 19" multi-touch (1 366 x 768), for support arm (not expandable, flange on top)			E								
• 19" multi-touch (1 366 x 768), for pedestal (expandable, flange below)			F								
• 19" multi-touch (1 366 x 768), for support arm (expandable, round tube)			G								
• 22" multi-touch (1 920 x 1 080), for support arm (not expandable, flange on top)			H								
• 22" multi-touch (1 920 x 1 080), for pedestal (expandable, flange below)			J								
• 22" multi-touch (1 920 x 1 080), for support arm (expandable, round tube)			K								
• 19" multi-touch (1 920 x 1 080), for pedestal (expandable, flange below)			V								
• 19" multi-touch (1 920 x 1 080), for support arm (expandable, round tube)			W								
• 24" multi-touch (1 920 x 1 080), for pedestal (expandable, flange below)			X								
• 24" multi-touch (1 920 x 1 080), for support arm (expandable, round tube)			Y								
Work memory/NVRAM											
• 4 GB				A							
• 8 GB				B							
• 16 GB				C							
• 8 GB with ECC				D							
• 16 GB with ECC				E							
• 4 GB and NVRAM				F							
• 8 GB and NVRAM				G							
• 16 GB and NVRAM				H							
• 8 GB with ECC and NVRAM				J							
• 16 GB with ECC and NVRAM				K							
Expansions/interfaces											
• No RS232/485, without PCIe					0						
• Two RS232/RS485, without PCIe					3						
• No RS232 without PCIe with ATEX/IECEx Cat 3G Zone 2 / cULus Class I Div. 2					5						
• Two RS232 without PCIe with ATEX/IECEx Cat 3G Zone 2 / cULus Class I Div. 2					6						
Operating system											
• Without operating system						0					
• Windows Embedded Standard 7 SP1, English, 32-bit						1					
• Windows Embedded Standard 7 SP1, English, 64-bit						2					
• Windows Embedded Standard 7 P SP1, MUI, 64-bit, multi-touch						3					
• Windows 7 Ultimate SP1, 64-bit, MUI (en, de, fr, it, es)						4					
• Windows 10 Enterprise 2019 LTSC (64-bit) for Celeron, I3 and I5						5					
• Windows 10 Enterprise 2019 LTSC (64-bit) for Xeon						6					
• Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Celeron, I3 and I5						7					
• Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Xeon						8					
Mass storage, external											
• Without external mass storage								0			
• CFast 2 GB, without operating system								1			
• CFast 4 GB, without operating system								2			
• CFast 8 GB (only optionally with operating system/software if no internal mass storage or HDD)								3			
• CFast 16 GB (only optionally with operating system/software if no internal mass storage or HDD)								4			
• CFast 128 GB (only optionally with operating system/software if no internal mass storage or HDD)								5			
Mass storage, internal											
• Without internal mass storage									A		

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Selection and ordering data (continued)

SIMATIC IPC477E PRO [1]	6AV7251-	❑	❑	❑	❑	❑	-	❑	❑	❑	❑
• 128 GB solid-state drive SATA									D		
• 240 GB solid-state drive SATA									F		
• 480 GB solid-state drive SATA									G		
SIMATIC Software											
• Without SIMATIC Software										A	
Power supply											
• 24 V DC industrial power supply											0
• 24 V DC industrial power supply and TPM [2] (not for China or Russia)											8

[1] IPC477E PRO as "built to order" versions (max. delivery time 15 working days).
[2] TPM = Trusted Platform Module

Note:
As with the existing 4:3 IPC477C/D PRO devices, adaptation to different support arm/pedestal systems is by means of the basic adapter. The basic adapter is included in the scope of supply (except in the case of the "prepared for support arm and extension components" version, as the connection is made via a round tube).

For the version "prepared for support arm and extension components", installation can alternatively take place with the Siemens round tube adapter or with a standard 48 mm diameter round tube. The round tube adapter enables the transition from a round tube connection to the familiar mechanical interface of the basic adapter. This means you can combine different versions of the PRO devices with the same support arm or pedestal system.

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Technical specifications

Article number	6AV7251-.....-.... SIMATIC IPC477E PRO
General information	
Product type designation	IPC477E
Installation type/mounting	
Mounting	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm
maximum permissible installation angle +/-	±45 °
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
SSD	Yes; ≥ 128 GB optional
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0 onboard (rear)
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	

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Technical specifications (continued)

Article number	6AV7251-.....-.... SIMATIC IPC477E PRO
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP65
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
Use in hazardous areas	
• ATEX Zone 2	Yes; for inscription on device rating plate
• ATEX Zone 22	Yes; for inscription on device rating plate
• IECEx Zone 2	Yes; for inscription on device rating plate
• IECEx Zone 22	Yes; for inscription on device rating plate
• CCC Ex	Yes; for inscription on device rating plate
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate
• cULus Class II Division 2	Yes; for inscription on device rating plate
• FM Class I Division 2	No
• FM Class II Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional

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Technical specifications (continued)

Article number	6AV7251-.B...-....	6AV7251-.C...-....	6AV7251-.D...-....	6AV7251-.E...-....	6AV7251-.F...-....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J...-....	6AV7251-.K...-....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
General information									
Product type designation	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E	IPC477E
Display									
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	15 in	15 in	15 in	19 in	19 in	19 in	22 in	22 in	22 in
Resolution (pixels)									
• Horizontal image resolution	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 366 pixel	1 920 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel	768 pixel	1 080 pixel	1 080 pixel	1 080 pixel
Control elements									
Touch operation									
• Design as touch screen	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive	Yes; Projective-capacitive
Installation type/mounting									
Mounting	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm	Panel PC on pedestal or supporting arm
Support arm mounting	Yes; Suitable for support arm without extension components	No	Yes; Suitable for support arm and extension components (please refer to manual)	Yes; Suitable for support arm without extension components	No	Yes; Suitable for support arm and extension components (please refer to manual)	Yes; Suitable for support arm without extension components	No	Yes; Suitable for support arm and extension components (please refer to manual)
Stand mounting	No	Yes; Prepared for pedestal and extension components	No	No	Yes; Prepared for pedestal and extension components	No	No	Yes; Prepared for pedestal and extension components	No
Mounting in portrait format possible	No	No	No	No	No	No	No	No	No
maximum permissible installation angle +/-	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °	±45 °
Supply voltage									
Type of supply voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Mains buffering									
• Mains/voltage failure stored energy time	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms	20 ms
Processor									
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110	Intel C236 / Intel H110
Graphic									
Graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller	Intel HD graphics controller
Drives									
SSD	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional	Yes; ≥ 128 GB optional
Storage									
Type of memory	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM	DDR4-2400 SO-DIMM

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Technical specifications (continued)

Article number	6AV7251-.B...-....	6AV7251-.C...-....	6AV7251-.D...-....	6AV7251-.E...-....	6AV7251-.F...-....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J...-....	6AV7251-.K...-....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
Main memory	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional	4 / 8 / 16 GB, ECC optional
Data areas and their retentivity									
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time	512 kbyte; 128 KB can be stored in the buffer time
Interfaces									
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)	4x USB 3.0 onboard (rear)
Connection for keyboard/mouse	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces									
• Graphics interface	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort	2x DisplayPort
Industrial Ethernet									
• Industrial Ethernet interface	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)	3x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Functions									
Monitoring functions									
• Temperature monitoring	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Watchdog	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Fan	No	No	No	No	No	No	No	No	No
• Monitoring function via network	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
EMC									
Interference immunity against discharge of static electricity									
• Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields									
• Interference immunity against high frequency radiation	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6	10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6
Interference immunity to cable-borne interference									
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric

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Technical specifications (continued)

Article number	6AV7251-.B...-....	6AV7251-.C...-....	6AV7251-.D...-....	6AV7251-.E...-....	6AV7251-.F...-....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J...-....	6AV7251-.K...-....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge									
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields									
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference									
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection									
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Standards, approvals, certificates									
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CSA approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• UL 508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
Use in hazardous areas									
• ATEX Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• ATEX Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• IECEx Zone 22	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• CCC Ex	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate

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Technical specifications (continued)

Article number	6AV7251-.B...-....	6AV7251-.C...-....	6AV7251-.D...-....	6AV7251-.E...-....	6AV7251-.F...-....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J...-....	6AV7251-.K...-....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
• cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• cULus Class II Division 2	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate	Yes; for inscription on device rating plate
• FM Class I Division 2	No	No	No	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No	No	No	No
Marine approval									
• Germanischer Lloyd (GL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions									
Ambient temperature during operation									
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity									
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations									
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing									
• Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis
Operating systems									
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional	Yes; Optional
Accessories									
Accessory components			6AV7674-1KF0-0-0AA0 - Flange mount for installation (refer to manual)		Basic adapter for mounting (MLFB: 6AV7674-1KA0-0-0AA0)	6AV7674-1KF0-0-0AA0 - Flange mount for installation (refer to manual)			6AV7674-1KF0-0-0AA0 - Flange mount for installation (refer to manual)

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Technical specifications (continued)

Article number	6AV7251-.B... -....	6AV7251-.C... -....	6AV7251-.D...-....	6AV7251-.E... -....	6AV7251-.F... -....	6AV7251-.G...-....	6AV7251-.H...-....	6AV7251-.J... -....	6AV7251-.K... -....
	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 15 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 19 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch	SIMATIC IPC477E PRO, 22 MTouch
Dimensions									
Width of the housing front	396 mm	396 mm	396 mm	462 mm	462 mm	462 mm	527 mm	527 mm	527 mm
Height of housing front	255 mm; Without basic adapter	255 mm; Without basic adapter	255 mm	292 mm; Without basic adapter	292 mm; Without basic adapter	292 mm	329 mm; Without basic adapter	329 mm; Without basic adapter	329 mm
Weights									
Weight, approx.	6.8 kg	6.8 kg	7.5 kg	8.2 kg	8.2 kg	8.8 kg	9.3 kg	9.3 kg	9.9 kg

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Overview

Fixing elements

Adapter sets, basic adapter, round tube adapter and round tube cap

The fixing elements are required for connecting the SIMATIC HMI PRO device with the support arm head of the respective support arm system.

Since the support arm head is connected directly to the device, there is complete flexibility in the choice of support arm components.

Adapter sets are available for the VESA 75 and VESA 100 systems.

Further adapter sets can be obtained directly from the respective support arm manufacturers:

- Bernstein
- Rittal
- Rose
- Haseke and
- Rolec

For the 4:3 and 16:9 variants, basic adapters are available according to design:

- The basic adapter is included in the scope of delivery of the device for 4:3 systems (dark gray)
- The basic adapter is included in the scope of delivery of the device for 16:9 systems (silver) (the basic adapter is included in the scope of delivery as a matter of principle. It is excluded only from the version "prepared for support arm and extension components", because connection is made via a round tube.)

For the version "prepared for support arm and extension components" of the 16:9 PRO devices, installation can alternatively take place with the Siemens round tube adapter or with a standard 48 mm diameter round tube. The round tube adapter enables the transition from a round tube connection to the familiar mechanical interface of the basic adapter. This means you can combine different versions of the PRO devices with the same support arm or pedestal system.

Selection and ordering data

VESA 100 adapter set[1)]	**6AV7674-0KD00-0AA0**
VESA 75 adapter set	**6AV7674-0KE00-0AA0**
Basic adapter for 16:9 systems Spare part (silver, included in the scope of delivery of the device)	**6AV7674-1KA00-0AA0**
Round tube adapter for 16:9 systems Suitable for 16:9 PRO devices of the type "prepared for support arm and extension components (round tube connection)"	**6AV7674-1KF00-0AA0**
VESA 100/75 round tube adapter For SIMATIC PRO devices. Can be mounted with a 100 mm (M6) or 75 mm (M6) VESA. IP20 cable entry directly in the round tube adapter. Suitable for all common support arm systems with corresponding VESA coupling, load capacity and hole spacing. More information is available in the technical specifications.	**6AV6881-0AD56-0AA0**
Round tube cap for PRO devices	**6AV7674-1LB40-0AA0**
Replacement adapter for PRO devices	**6AV7674-1LB50-0AA0**

1) The VESA 100 adapter set cannot be used in combination with the 19" Flat Panel PRO.

Note:

The 48 mm internal diameter of the support arm tubes is not suitable for feeding through the standard DVI-D cable.

Scope of delivery:

- One adapter set or basic adapter, round tube adapter
- Fittings for mounting

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Technical specifications

Article number	6AV7674-0KD00-0AA0 Adapter Set VESA 100 Fully enclosed HMI	6AV7674-0KE00-0AA0 Adapter Set VESA 75 f. Fully Enclose HMI
General information		
Product type designation	Adapter set VESA 100	Adapter set VESA 75
Degree and class of protection		
IP (all-round)	IP65	IP65
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	No	No
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	55 °C	55 °C
Relative humidity		
• Operation, max.	90 %	90 %
• Condensation permissible	No	No
Scope of supply		
Delivery quantity in pieces	1	1
Other		
Merchandise	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	Not suitable for 19" 4:3 devices	Not suitable for 19" 4:3 devices

Article number	6AV7674-1KA00-0AA0 Basic Adapter for HMI/IPC Pro (16:9)
General information	
Product type designation	Basic adapter
Other	
Merchandise	Yes
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany

Article number	6AV7674-1KF00-0AA0 Flange Mount for Pro Devices
General information	
Product type designation	Flange mount
Installation type/mounting	
Mounting	for the transition from a size 48 round tube to a flange plate (compatible with basic adapter interface)
Degree and class of protection	
IP (all-round)	IP65 when installed
Mechanics/material	
Material	Steel, powder coating in RAL 9006
Dimensions	
Width	76.3 mm; Width of flange plate, distance between holes 40 mm
Height	168 mm; Round tube and flange plate
Depth	80 mm; Depth of flange plate, distance between holes 63 mm
Enclosure diameter	48.3 mm; Round tube in interface area
Weights	
Weight (without packaging)	900 g
Scope of supply	
Delivery quantity in pieces	1
Other	
Target devices	Suitable for PRO devices, prepared for support arm and extension components (round tube connection)

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Technical specifications (continued)

Article number	6AV6881-0AD56-0AA0 Flange mount adapter VESA 100/75
General information	
Product type designation	VESA 100/75 flange adapter
Installation type/mounting	
Mounting	VESA 100 mm / 75 mm with M6 thread
Mounting type	Support arm with VESA 100 mm or 75 mm
Degree and class of protection	
IP (at the front)	IP20 (depending on mounting)
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	90 %
• Condensation permissible	No
Mechanics/material	
Material	steel
• Aluminum	No
• Sheet metal	Yes; 11SMnPb30 + C
• PET	No
Enclosure material (rear)	sheet metal S235 powder-coated
Dimensions	
Width	135 mm
Height	120 mm
Depth	67.5 mm
Scope of supply	
Delivery quantity in pieces	1; VESA round tube adapter 100/75 suitable for PRO devices, max. IP20 attainable
Components included	Without additional accessories
Other	
Merchandise	Yes; VESA 100/75 PRO adapter
Manufacturer name	QUERUM products UG
Manufacturer's address	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer	email: querumproducts@web.de
Target devices	Not suitable for 19" 4:3 devices
Note:	Max. load 35 kg, for expandable support arm mounting

Article number	6AV7674-1LB40-0AA0 Round tube plug for PRO devices	6AV7674-1LB50-0AA0 Exchange adapter for PRO devices
General information		
Product type designation	round tube cap	replacement adapter
Degree and class of protection		
IP (all-round)	IP65 when installed	IP65 when installed
NEMA (front)		
• Enclosure Type 4 at the front	Yes; When installed	Yes; When installed
Mechanics/material		
Material		
• Aluminum	Yes; Powder-coated, RAL 9006	Yes; Powder-coated, RAL 9006
Weights		
Weight (without packaging)	0.24 kg	0.34 kg
Scope of supply		
Delivery quantity in pieces	1	1
Components included	Round tube plug for PRO devices	Screws for attachment

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Technical specifications (continued)

Article number	6AV7674-1LB40-0AA0 Round tube plug for PRO devices	6AV7674-1LB50-0AA0 Exchange adapter for PRO devices
Other		
Target devices	PRO devices for support arm (extendable, round tube)	PRO devices for support arm (extendable, round tube) and pedestal (extendable, flange below)

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Overview

Extension Units

Extension Units with 12" to 22", as well as a 24" portrait version for SIMATIC HMI PRO devices, are part of the system components for fully-enclosed IP65-protected devices.
They enable the expansion of the operating options on site by the installation of various operator controls. Communication can take place via PROFINET, PROFIsafe or conventional wiring.

SIMATIC Extension Unit (BTO & Advanced)

With Customized Automation, Extension Units are built to specific customer requirements and given their own customer MLFB. BTO (built to order).

Extension Units for 16:9 PRO devices





Extension Units for the 16:9 PRO devices are suitable for the flexible installation of various operator controls that extend the operating options on site easily and on an individual basis. They are coordinated with the design of the 16:9 PRO devices and can easily be mounted below the device by the customers themselves.

Additionally, the Extension Unit box is available for the flexible installation of lower operator controls.

Selection and ordering data

Extension Units for 16:9 PRO devices	
Extension Unit Hardwired	
• 12"	**6AV7674-1LA31-0AA0**
• 15"	**6AV7674-1LA41-0AA0**
• 19"	**6AV7674-1LA51-0AA0**
• 22"	**6AV7674-1LA61-0AA0**
• 24"	**6AV7674-1LA71-0AA0**
• 24" portrait	**6AV7674-1LA81-0AA0**
Extension Unit PROFINET	
• 12"	**6AV7674-1LA32-0AA0**
• 15"	**6AV7674-1LA42-0AA0**
• 19"	**6AV7674-1LA52-0AA0**
• 22"	**6AV7674-1LA62-0AA0**
• 24"	**6AV7674-1LA72-0AA0**
• 24" portrait	**6AV7674-1LA82-0AA0**
Extension Unit PROFIsafe	
• 12"	**6AV7674-1LA33-0AA0**
• 15"	**6AV7674-1LA43-0AA0**
• 19"	**6AV7674-1LA53-0AA0**
• 22"	**6AV7674-1LA63-0AA0**
• 24"	**6AV7674-1LA73-0AA0**
• 24" portrait	**6AV7674-1LA83-0AA0**
Extension Unit box	
• 12"	**6AV7674-1LA30-0AA0**
• 15"	**6AV7674-1LA40-0AA0**
• 19"	**6AV7674-1LA50-0AA0**
• 22"	**6AV7674-1LA60-0AA0**
• 24"	**6AV7674-1LA70-0AA0**
• 24" portrait	**6AV7674-1LA80-0AA0**
Extension Unit Advanced PROFINET [1]	
• 12" KP12 PN	**6AV2185-8CE01-0AA0**
• 15" KP12 PN	**6AV2185-8DE01-0AA0**
• 19" KP12 PN	**6AV2185-8EE01-0AA0**
• 22" KP12 PN	**6AV2185-8FE01-0AA0**
• 12" KP24 PN	**6AV2185-8CE08-0AA0**
• 15" KP36 PN	**6AV2185-8DE08-0AA0**
• 19" KP36 PN	**6AV2185-8EE08-0AA0**
• 22" KP48 PN	**6AV2185-8FE08-0AA0**
Extension Unit Advanced PROFIsafe [1]	
• 12" KP12F PN	**6AV2185-8CF01-0AA0**
• 15" KP12F PN	**6AV2185-8DF01-0AA0**
• 19" KP12F PN	**6AV2185-8EF01-0AA0**
• 22" KP12F PN	**6AV2185-8FF01-0AA0**

1) Max. two Extension Units possible as extension

Scope of delivery

Extension Units Hardwired:

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Selection and ordering data (continued)

- 1 Extension Unit
- 1 plug connector, 16-pin, for interface X12
- 1 plug connector, 12-pin, for interface X11
- 1 plug connector, 8-pin, for interface X10
- 1 power supply terminal for 24 V DC
- 4 bolts M4x20 for mounting the Extension Unit on the SIMATIC PRO device

PROFINET Extension Units:

- 1 Extension Unit
- 1 plug connector, 8-pin, for interface X10
- 1 power supply connector for 24 V DC
- 4 bolts M4x20 for mounting the Extension Unit on the SIMATIC PRO device

Operator controls	
EMERGENCY STOP button	**6AV7674-1MA00-0AA0**
Illuminated pushbutton	
• One NO contact	**6AV7674-1MB00-0AA0**
• One NO contact and one NC contact	**6AV7674-1MG00-0AA0**
Pushbutton Safety	**6AV7674-1MG50-0AA0**
Indicator light	**6AV7674-1MC00-0AA0**
Selector switch	**6AV7674-1MD00-0AA0**
Keyswitch	**6AV7674-1ME00-0AA0**
Keyswitch Safety	**6AV7674-1ME50-0AA0**
Accessories	
USB interface for front mounting in Extension Unit USB 2.0 type A, IP65 degree of protection with closed protective cover, cable and plug	**6AV7674-1MF00-0AA0**
Insert labels for self-inscription	**6AV7674-1LB30-0AA0**
Label holders for self-inscription	**6AV7674-1LB20-0AA0**

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Technical specifications

Article number	6AV7674-1LA31-0-AA0	6AV7674-1LA41-0-AA0	6AV7674-1LA51-0-AA0	6AV7674-1LA61-0-AA0	6AV7674-1LA71-0-AA0	6AV7674-1LA81-0-AA0
	Extension Unit 12" hardwired	Extension Unit 15" hardwired	Extension Unit 19" hardwired	Extension Unit 22" hardwired	Extension Unit 24" hardwired	Extension Unit 24" Portrait hardwired
General information						
Product type designation	Extension Unit 12" Hardwired	Extension Unit 15" hardwired	Extension Unit 19" hardwired	Extension Unit 22" hardwired	Extension Unit 24" hardwired	Extension Unit 24" Portrait hardwired
Control elements						
Connection type						
• Connection type of the LED module	12-pin connector	12-pin connector	12-pin connector	12-pin connector	12-pin connector	
• Connection type of the contacts of the control elements	16-pin connector	16-pin connector	16-pin connector	16-pin connector	16-pin connector	
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector	8-pin connector	
Installation type/mounting						
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No	No	No
Front mounting	No	No	No	No	No	No
Number of slots for command devices and signaling units	6	8	10; Max. 8 control elements + 1 emergency stop button can be mounted (refer to manual)	10; Max. 8 control elements + 1 emergency stop button can be mounted (refer to manual)	12; Max. 8 control elements + 1 emergency stop button can be mounted (refer to manual)	6
RFID reader can be installed						Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Degree and class of protection						
IP (all-round)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4 at the front	Yes	Yes	Yes	Yes	Yes	
• Enclosure Type 4x at the front						Yes; All-round
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables						
Cable length	30 m	30 m	30 m	30 m	30 m	

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Technical specifications (continued)

Article number	6AV7674-1LA31-0-AA0	6AV7674-1LA41-0-AA0	6AV7674-1LA51-0-AA0	6AV7674-1LA61-0-AA0	6AV7674-1LA71-0-AA0	6AV7674-1LA81-0-AA0
	Extension Unit 12" hardwired	Extension Unit 15" hardwired	Extension Unit 19" hardwired	Extension Unit 22" hardwired	Extension Unit 24" hardwired	Extension Unit 24" Portrait hardwired
Mechanics/material						
Material						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Enclosure material (front)						
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions						
Width	313 mm	396 mm	462 mm	527 mm	583 mm	361 mm
Height	99 mm	99 mm	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm					100.65 mm
Thickness		100.65 mm	100.65 mm	100.65 mm	100.65 mm	
Weights						
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg	2.6 kg	2.2 kg
Scope of supply						
Delivery quantity in pieces	1	1	1	1	1	1
Components included	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces	all connectors required for customer interfaces

Article number	6AV7674-1LA32-0-AA0	6AV7674-1LA42-0-AA0	6AV7674-1LA52-0-AA0	6AV7674-1LA62-0-AA0	6AV7674-1LA72-0-AA0	6AV7674-1LA82-0-AA0
	Extension Unit 12" PROFINET	Extension Unit 15" PROFINET	Extension Unit 19" PROFINET	Extension Unit 22" PROFINET	Extension Unit 24" PROFINET	Extension Unit 24" Portrait PROFINET
General information						
Product type designation	Extension Unit 12" PROFINET	Extension Unit 15" PROFINET	Extension Unit 19" PROFINET	Extension Unit 22" PROFINET	Extension Unit 24" PROFINET	Extension Unit 24" Portrait PROFINET
Control elements						
With parameterizable keys	Yes	Yes	Yes	Yes		
Connection type						
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector	8-pin connector	
Installation type/mounting						
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No	No	No
Front mounting	No	No	No	No	No	No
Number of slots for command devices and signaling units	6	8	10	12	12	6
RFID reader can be installed		Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Interfaces						
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
- Media redundancy						

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Technical specifications (continued)

Article number	6AV7674-1LA32-0-AA0	6AV7674-1LA42-0-AA0	6AV7674-1LA52-0-AA0	6AV7674-1LA62-0-AA0	6AV7674-1LA72-0-AA0	6AV7674-1LA82-0-AA0
	Extension Unit 12" PROFINET	Extension Unit 15" PROFINET	Extension Unit 19" PROFINET	Extension Unit 22" PROFINET	Extension Unit 24" PROFINET	Extension Unit 24" Portrait PROFINET
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Test commissioning functions						
Key and signal lamp test	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on		Yes; automatically when switching on
Degree and class of protection						
IP (all-round)	IP65	IP65	IP65	IP65	IP65	IP65
NEMA (front)						
• Enclosure Type 4 at the front					Yes	
• Enclosure Type 4x at the front	Yes; All-round	Yes; All-round	Yes; All-round	Yes; All-round		Yes; All-round
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Ambient temperature during operation						
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level						
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables						
Cable length	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m	
Mechanics/material						
Material						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Enclosure material (front)						
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions						
Width	313 mm	396 mm	462 mm	527 mm	583 mm	361 mm
Height	99 mm	99 mm	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights						
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg	2.6 kg	2.2 kg
Scope of supply						
Delivery quantity in pieces	1	1	1	1	1	1
Components included	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs

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Technical specifications (continued)

Article number	6AV7674-1LA33-0AA0	6AV7674-1LA43-0AA0	6AV7674-1LA53-0AA0	6AV7674-1LA63-0AA0	6AV7674-1LA73-0AA0
	Extension Unit 12" PROFISAFE	Extension Unit 15" PROFISAFE	Extension Unit 19" PROFISAFE	Extension Unit 22" PROFISAFE	Extension Unit 24" PROFISAFE
General information					
Product type designation	Extension Unit 12" PROFIsafe	Extension Unit 15" PROFIsafe	Extension Unit 19" PROFIsafe	Extension Unit 22" PROFIsafe	Extension Unit 24" PROFIsafe
Control elements					
With parameterizable keys	Yes	Yes	Yes	Yes	
Installation type/mounting					
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No	No
Front mounting	No	No	No	No	No
Number of slots for command devices and signaling units	6	8	10	12	12
RFID reader can be installed	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Interfaces					
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols					
PROFIsafe	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor
Redundancy mode					
- Media redundancy					
- MRP	Yes	Yes			Yes
Test commissioning functions					
Key and signal lamp test	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on	Yes; automatically when switching on	
Degree and class of protection					
IP (all-round)	IP65	IP65	IP65	IP65	IP65
NEMA (front)					
• Enclosure Type 4 at the front					Yes
• Enclosure Type 4x at the front	Yes; All-round	Yes; All-round	Yes; All-round	Yes; All-round	
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level					
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity					
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables					
Cable length					30 m

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Technical specifications (continued)

Article number	6AV7674-1LA33-0AA0	6AV7674-1LA43-0AA0	6AV7674-1LA53-0AA0	6AV7674-1LA63-0AA0	6AV7674-1LA73-0AA0
	Extension Unit 12" PROFISAFE	Extension Unit 15" PROFISAFE	Extension Unit 19" PROFISAFE	Extension Unit 22" PROFISAFE	Extension Unit 24" PROFISAFE
Mechanics/material					
Material					
• Aluminum	Yes	Yes	Yes	Yes	Yes
Enclosure material (front)					
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions					
Width	313 mm	396 mm	462 mm	527 mm	583 mm
Height	99 mm	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights					
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg	2.6 kg
Scope of supply					
Delivery quantity in pieces	1	1	1	1	1
Components included	Power supply connector	Power supply connector	Power supply connector	Power supply connector	Power supply connector

Article number	6AV2185-8CE01-0AA0	6AV2185-8DE01-0AA0	6AV2185-8EE01-0AA0	6AV2185-8FE01-0AA0
	Extension Unit 12" KP12 PN	Extension Unit 15" KP12 PN	Extension Unit 19" KP12 PN	Extension Unit 22" KP12 PN
General information				
Product type designation	Extension Unit 12" KP12 PN	Extension Unit 15" KP12 PN	Extension Unit 19" KP12 PN	Extension Unit 22" KP12 PN
Control elements				
Version of actuating element	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12
Operating principle of the actuating element	Tactile feedback	Tactile feedback	Tactile feedback	Tactile feedback
Functional lighting	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow
With parameterizable keys	Yes	Yes	Yes	Yes
Connection type				
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector
Installation type/mounting				
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No
Front mounting	No	No	No	No
Number of slots for command devices and signaling units	3	5	6	8
RFID reader can be installed	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Interfaces				
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols				
PROFINET	Yes	Yes	Yes	Yes
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (all-round)	IP65	IP65	IP65	IP65
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2185-8CE01-0AA0 Extension Unit 12" KP12 PN	6AV2185-8DE01-0AA0 Extension Unit 15" KP12 PN	6AV2185-8EE01-0AA0 Extension Unit 19" KP12 PN	6AV2185-8FE01-0AA0 Extension Unit 22" KP12 PN
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes; EAC	Yes; EAC	Yes; EAC	Yes; EAC
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables				
Cable length	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop
Mechanics/material				
Material				
• Aluminum	Yes	Yes	Yes	Yes
Enclosure material (front)				
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions				
Width	313 mm	396 mm	462 mm	527 mm
Height	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights				
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Components included	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs

Article number	6AV2185-8CE08-0AA0 Extension Unit 12" KP24 PN	6AV2185-8DE08-0AA0 Extension Unit 15" KP36 PN	6AV2185-8EE08-0AA0 Extension Unit 19" KP36 PN	6AV2185-8FE08-0AA0 Extension Unit 22" KP48 PN
General information				
Product type designation	Extension Unit 12" KP24 PN	Extension Unit 15" KP36 PN	Extension Unit 19" KP36 PN	Extension Unit 22" KP48 PN
Control elements				
Version of actuating element	2x Key Panel 12	3x Key Panel 12	3x Key Panel 12	4x Key Panel 12
Operating principle of the actuating element	Tactile feedback	Tactile feedback	Tactile feedback	Tactile feedback
Functional lighting	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow
With parameterizable keys	Yes	Yes	Yes	Yes
Connection type				
• Connection type of the safety-related contacts (emergency stop)	8-pin connector	8-pin connector	8-pin connector	8-pin connector
Installation type/mounting				
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No
Front mounting	No	No	No	No

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Technical specifications (continued)

Article number	6AV2185-8CE08-0AA0 Extension Unit 12" KP24 PN	6AV2185-8DE08-0AA0 Extension Unit 15" KP36 PN	6AV2185-8EE08-0AA0 Extension Unit 19" KP36 PN	6AV2185-8FE08-0AA0 Extension Unit 22" KP48 PN
Number of slots for command devices and signaling units	0	0	0	0
RFID reader can be installed	No	No	No	No
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Interfaces				
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols				
PROFINET	Yes	Yes	Yes	Yes
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (all-round)	IP65	IP65	IP65	IP65
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
CSA approval			Yes	
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes		Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes; EAC	Yes; EAC	Yes; EAC	Yes; EAC
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Cables				
Cable length	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop	30 m; Max. for emergency stop
Mechanics/material				
Material				
• Aluminum	Yes	Yes	Yes	Yes
Enclosure material (front)				
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film
Dimensions				
Width	313 mm	396 mm	462 mm	527 mm
Height	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights				
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Components included	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs	Power supply connectors and 8-pole plug-in connectors for safety-related inputs

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Technical specifications (continued)

Article number	6AV2185-8CF01-0AA0 Extension Unit 12" KP12F PN	6AV2185-8DF01-0AA0 Extension Unit 15" KP12F PN	6AV2185-8EF01-0AA0 Extension Unit 19" KP12F PN	6AV2185-8FF01-0AA0 Extension Unit 22" KP12F PN
General information				
Product type designation	Extension Unit 12" KP12F PN	Extension Unit 15" KP12F PN	Extension Unit 19" KP12F PN	Extension Unit 22" KP12F PN
Control elements				
Version of actuating element	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12	1x Key Panel 12
Operating principle of the actuating element	Tactile feedback	Tactile feedback	Tactile feedback	Tactile feedback
Functional lighting	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow	Yes; Freely configurable colors: Red, green, blue, white, yellow
With parameterizable keys	Yes	Yes	Yes	Yes
Installation type/mounting				
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint	Screwed joint	Screwed joint	Screwed joint
Rack mounting	No	No	No	No
Front mounting	No	No	No	No
Number of slots for command devices and signaling units	3	5	6	8
RFID reader can be installed	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R	Yes; SIMATIC RF200 Access Control Reader RF1060R
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Interfaces				
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch	2; Incl. switch	2; Incl. switch
Protocols				
PROFIsafe	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor
Redundancy mode				
- Media redundancy				
- MRP	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (all-round)	IP65	IP65	IP65	IP65
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes; EAC	Yes; EAC	Yes; EAC	Yes; EAC
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	2 000 m	2 000 m	2 000 m	2 000 m
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Mechanics/material				
Material				
• Aluminum	Yes	Yes	Yes	Yes
Enclosure material (front)				
• Aluminum	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film	Yes; Knockout covered with black film

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Technical specifications (continued)

Article number	6AV2185-8CF01-0AA0 Extension Unit 12" KP12F PN	6AV2185-8DF01-0AA0 Extension Unit 15" KP12F PN	6AV2185-8EF01-0AA0 Extension Unit 19" KP12F PN	6AV2185-8FF01-0AA0 Extension Unit 22" KP12F PN
Dimensions				
Width	313 mm	396 mm	462 mm	527 mm
Height	99 mm	99 mm	99 mm	99 mm
Depth	100.65 mm	100.65 mm	100.65 mm	100.65 mm
Weights				
Weight (without packaging)	2.2 kg	2.5 kg	2.7 kg	2.8 kg
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Components included	Power supply connector	Power supply connector	Power supply connector	Power supply connector

Article number	6AV7674-1MA00-0AA-0 E-Stop Pushbutton for Ext. Unit	6AV7674-1MB00-0AA-0 Illuminated Pushbutton for Ext. Unit	6AV7674-1MG00-0AA-0 Illum. pushbutton for ext.unit (1NO+1NC)	6AV7674-1MG50-0AA-0 Pushbutton Safety for Ext. Unit	6AV7674-1MC00-0AA-0 Indicator Light for Ext. Unit
General information					
Product type designation	EMERGENCY STOP mushroom pushbutton for Extension Unit	Illuminated pushbutton for Extension Unit	Illuminated pushbutton for Extension Unit (1 NC contact / 1 NO contact)	Safety pushbutton for Extension Unit (2 NO contacts)	Indicator light for Extension Unit
Control elements					
Version of actuating element	Conical mushroom pushbutton	Pushbutton with flat button	Pushbutton with flat button	Pushbutton with flat button	Flat lens
Operating principle of the actuating element	Latching, rotate to unlatch	Momentary contact	Momentary contact	Momentary contact	
Shape of actuating element	Round	Round	Round	Round	Round
Illuminant	No; Cannot be illuminated	Yes; Can be illuminated	Yes; Can be illuminated	No; Cannot be illuminated	Yes; Can be illuminated
• Type of light source					SMT LED
• Color of light source		Translucent white (different colors are created using the colored disk supplied)	Translucent white (different colors are created using the colored disk supplied)	Translucent white (different colors are created using the colored disk supplied)	Translucent white (different colors are created using the colored disk supplied)
Contact configuration	2 NC contacts	1 NO contact	1 NC contact, 1 NO contact	2 NO contacts	
Installation type/mounting					
Mounting type	Threaded ring	Threaded ring	Threaded ring	Threaded ring	Threaded ring
Front mounting	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Degree and class of protection					
IP (at the front)	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes	Yes
UL approval	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit
cULus	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit
RCM (formerly C-TICK)	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C

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Technical specifications (continued)

Article number	6AV7674-1MA00-0AA-0 E-Stop Pushbutton for Ext. Unit	6AV7674-1MB00-0AA-0 Illuminated Pushbutton for Ext. Unit	6AV7674-1MG00-0AA-0 Illum. pushbutton for ext.unit (1NO+1NC)	6AV7674-1MG50-0AA-0 Pushbutton Safety for Ext. Unit	6AV7674-1MC00-0AA-0 Indicator Light for Ext. Unit
• max.	50 °C	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level					
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity					
• Operation, max.	90 %	90 %	90 %	90 %	90 %
• Condensation permissible	No	No	No	No	No
Mechanics/material					
Material					
• plastic	Yes	Yes	Yes	Yes	Yes
Material of the actuating element	plastic	plastic	plastic	plastic	plastic
Material of the front ring	plastic	plastic	plastic	plastic	plastic
Enclosure color (front)	red	Colorless	Colorless	Colorless	Colorless
Color of the front ring	Yellow	Silver metallic	Silver metallic	Silver metallic	Silver metallic
Service life					
• Number of operating cycles, keys	50 000	1 000 000	1 000 000	1 000 000	
Dimensions					
Height of housing front	33.2 mm	9.85 mm	9.85 mm	9.85 mm	9.85 mm
Mounting diameter	22.3 mm	22.3 mm	22.3 mm	22.3 mm	22.3 mm
Weights					
Weight (without packaging)	50 g	50 g	50 g	50 g	50 g
Scope of supply					
Delivery quantity in pieces	1	1	1	1	1
Components included					
• Number of colored lenses		5; colorless, red, yellow, green, blue	5; colorless, red, yellow, green, blue	6; colorless, red, yellow, green, blue, black	5; colorless, red, yellow, green, blue
Other					
Target devices	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	suitable for Extension Units of the 16:9 HMI/IPC PRO devices as of TIA Portal V16 (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)
Note:				configurable as of TIA Portal V16	

Article number	6AV7674-1MD00-0AA0 Selector Switch for Ext. Unit	6AV7674-1ME00-0AA0 Key-operated Switch for Ext. Unit	6AV7674-1ME50-0AA0 Key-operated Switch Safety for Ext. Unit	6AV7674-1MF00-0AA0 USB interface for extension unit
General information				
Product type designation	Selector switch for Extension Unit	Key-operated switch for Extension Unit	Safety keyswitch for Extension Unit	USB interface for Extension Unit
Control elements				
Version of actuating element	Rotary handle, 3 switch positions	3 switch positions (withdrawal positions)	2 switch positions (pos. 0 removal position)	
Operating principle of the actuating element	Latching	Latching	Latching	
Shape of actuating element	Round	Round	Round	
Illuminant	Yes; Can be illuminated	No; Cannot be illuminated	No; Cannot be illuminated	
• Type of light source	SMT LED			
• Color of light source	Translucent white			
Contact configuration	2 NO contacts	2 NO contacts	2 NO contacts	
Connection type				
• USB				Yes; USB 2.0 type A
• Cable length				0.7 m

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Technical specifications (continued)

Article number	6AV7674-1MD00-0AA0 Selector Switch for Ext. Unit	6AV7674-1ME00-0AA0 Key-operated Switch for Ext. Unit	6AV7674-1ME50-0AA0 Key-operated Switch Safety for Ext. Unit	6AV7674-1MF00-0AA0 USB interface for extension unit
Installation type/mounting				
Mounting type	Threaded ring	Threaded ring	Threaded ring	Threaded ring
Front mounting	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices	Yes; Front plate attachment in an Extension Unit for 16:9 PRO devices
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	
Degree and class of protection				
IP (all-round)				IP65 fully enclosed (when protective cover is closed)
IP (at the front)	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP65 (on front) to EN60529 and NEMA4	IP20 when protective cover is open
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes
UL approval	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes
cULus	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes
RCM (formerly C-TICK)	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes; Only in combination with Extension Unit	Yes
KC approval				Yes
EAC (formerly Gost-R)				Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	50 °C	50 °C	50 °C	50 °C
Altitude during operation relating to sea level				
• Installation altitude above sea level, max.	3 500 m	3 500 m	3 500 m	3 500 m
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
• Condensation permissible	No	No	No	No
Operating systems				
Runs under operating system				
• other				Yes; Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 E/P, 32-bit / 64-bit
Cables				
Cable length				0.5 m
smallest bending radius				0 mm
Mechanics/material				
Material				aluminum
• plastic	Yes	Yes	Yes	
Material of the actuating element	plastic	plastic	plastic	
Material of the front ring	plastic	plastic	plastic	
Enclosure color (front)	gray	gray	gray	Silver metallic
Color of the front ring	Silver metallic	Silver metallic	Silver metallic	
Service life				
• Number of operating cycles, keys	300 000	50 000	50 000	1 500; Insertion cycles
Dimensions				
Height of housing front	22.24 mm	45.1 mm	45.1 mm	
mounting depth				10 mm
Mounting diameter	22.3 mm	22.3 mm	22.3 mm	22.3 mm
Weights				
Weight (without packaging)	50 g	50 g	50 g	0.13 g

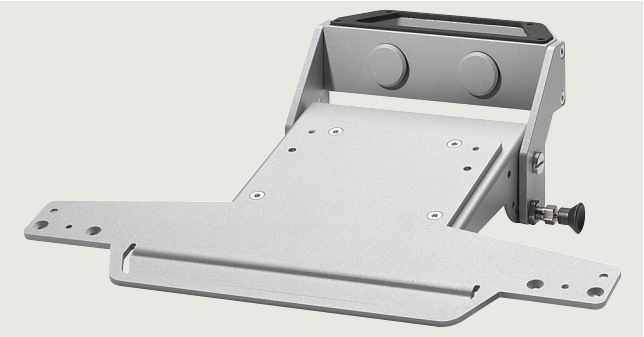
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Technical specifications (continued)

Article number	6AV7674-1MD00-0AA0 Selector Switch for Ext. Unit	6AV7674-1ME00-0AA0 Key-operated Switch for Ext. Unit	6AV7674-1ME50-0AA0 Key-operated Switch Safety for Ext. Unit	6AV7674-1MF00-0AA0 USB interface for extension unit
Scope of supply				
Delivery quantity in pieces	1	1; Including 2 keys	1; Including 2 keys	
Components included				USB socket with cable and connector, threaded ring
Other				
Target devices	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)	suitable for Extension Units of the 16:9 HMI/IPC PRO devices as of TIA Portal V16 (refer to manual)	Suitable for Extension Units of the 16:9 HMI/IPC PRO devices (refer to manual)
Note:			configurable as of TIA Portal V16	

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Overview



Extension components

The extension components are part of the system components for PRO devices and complement the portfolio of fully enclosed devices. These components in combination with the basic devices enable customers to implement a large variety of operating scenarios.

The following products are available as extension components:

- Keyboard tray for PRO devices
- Keyboard tray plate for PRO devices
- USB interface for PRO devices
- Handles for PRO devices (12" – 22" variant and 24" variant)

You can find suitable accessories that match the extension elements, such as INOX keyboards, in the category "Accessories" under "Input devices".

Selection and ordering data

Keyboard tray for PRO devices Tiltable, incl. 2-way USB interface; color: silver	**6AV7674-1NF01-0AA0**
Keyboard tray plate for PRO devices Tiltable, incl. 2-way USB interface; color: silver	**6AV7674-1NG00-0AA0**
USB interface for PRO devices Cable and connector, USB 2.0 type A. IP65 degree of protection if protective cover is closed. Integrated via cover on the side of the basic adapter	**6AV7674-1LX00-0AA0**
Handles for PRO devices For optimum handling and haptics when positioning and tilting the HMI PRO device. Universally adjustable from 12" to 22".	**6AV7674-1LB10-0AA0**
Handles for PRO devices 24"	**6AV7674-1LB15-0AA0**

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Technical specifications

Article number	6AV7674-1NF01-0AA0 Keyboard tray for PRO devices	6AV7674-1NG00-0AA0 Keyboard tray plate for HMI PRO devices
General information		
Product type designation	keyboard tray	storage plate
Mechanics/material		
Material		
• plastic	No	
• Aluminum	Yes; Powder-coated	
• Sheet metal	No	
• Stainless steel	No	
• PET	No	

Article number	6AV7674-1LB15-0AA0 Handles for HMI PRO devices 24"
General information	
Product type designation	Handles for HMI PRO devices 24"
Degree and class of protection	
IP (all-round)	IP65 when installed
NEMA (front)	
• Enclosure Type 4 at the front	Yes
Standards, approvals, certificates	
RoHS conformity	Yes
Mechanics/material	
Material	
• Aluminum	Yes; Powder-coated, RAL 9006
Weights	
Weight (without packaging)	1.9 kg
Scope of supply	
Delivery quantity in pieces	1
Components included	Screws for attachment
Other	
Target devices	PRO devices for support arm (extendable, round tube) and pedestal (extendable, flange below)

Article number	6AV7674-1LX00-0AA0 USB Interface for Pro Devices
General information	
Product type designation	USB interface for PRO devices
Control elements	
Connection type	
• USB	Yes; USB 2.0 type A
• Cable length	0.5 m
Installation type/mounting	
Mounting	Integrated by means of cover on the side of the basic adapter.
Degree and class of protection	
IP (all-round)	IP65 fully enclosed (when protective cover is closed)
IP (at the front)	IP20 when protective cover is open
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 500 m
Relative humidity	
• Operation, max.	90 %

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Technical specifications (continued)

Article number	6AV7674-1LX00-0AA0 USB Interface for Pro Devices
• Condensation permissible	No
Cables	
Cable length	0.5 m
Mechanics/material	
Material	Brass, nickel-plated
Enclosure material (front)	USB cover: Anodized aluminum, cover for basic adapter: Aluminum, powder-coated, RAL 9006
Enclosure color (front)	Silver metallic
Service life	
• Number of operating cycles, keys	1 500; Insertion cycles
Dimensions	
Enclosure diameter	22.5 mm; Hole diameter in the cover for the basic adapter
mounting depth	20 mm
Weights	
Weight (without packaging)	0.25 kg
Scope of supply	
Delivery quantity in pieces	1
Components included	USB socket with cable and connector, cover for the basic adapter, bolts for fastening

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Overview



For special requirements, devices with stainless steel fronts (EN 1672-2) are offered for use in the food, beverages and tobacco industries, for example.

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Overview



Higher system availability

A graded concept is available for effective early detection of potential failures and minimization of actual downtimes. It consists of software developed specifically for the SIMATIC IPCs, which enables system availability to be individually increased according to the safety requirements.

Reduced costs

Special backup mechanisms reduce the risk of data loss and allow the introduction of new concepts at initial or repeated commissioning.
The remote control and automatic self-diagnostics options reduce travel expenditure and time spent on on-site service calls, allowing service measures to be planned more efficiently. Downtimes are minimized or eliminated altogether.

The SIMATIC IPC software products thus help to significantly reduce the total cost of ownership (TCO) of the installation according to the motto: "Small effort, great effect".

The following components are available:

Orchestration and maintenance – ORCLA:

SIMATIC IPC ORCLA simplifies the commissioning, operation and maintenance of SIMATIC Industrial PCs. It enables customers to perform tasks more efficiently while focusing on application development and integration into your OT/IT infrastructure. The ORCLA product family is based on independent components and takes a modular approach. This allows customers to activate and use only the functionality that is really needed. Optional modular software components include diagnostics via OPC UA with ORCLA Remote Diagnostics, system hardening based on specific security settings and measures with ORCLA Protector, and advanced management of firmware settings with the ORCLA Firmware Agent. The basic ORCLA Core and Online Services products are available to our customers free of charge to take advantage of efficient software provision that is aligned with your business goals.

Overview (continued)

SIMATIC IPC ORCLA Core

- As the main software, the client helps manage the IPC through an intuitive web interface.
- Notifies, downloads, and installs the latest drivers and firmware for the selected IPC.
- Provides an option to restore the operating system to install the Siemens-verified base image, even when the device is started for the first time.
- Downloads the contents of user manuals and documentation for the selected IPC.
- Creates recovery devices for offline installations.
- Continuously monitors the status of IPC hardware components, such as fan speed, temperature, and RAID status, and visualizes the respective sensor data. Detects errors and signals them immediately via alerts on the web interface and through Windows notifications.
- Creates a configurable PC restart option in the event of a watchdog alarm.

SIMATIC IPC ORCLA Online Services

- Provides services over the Internet to enable the efficient use of ORCLA through an interactive web interface.
- Allows an IPC to be registered for a user to use ORCLA. At the same time, it is also easy to deregister the device.
- Provides access to basic details of your registered devices, such as serial numbers, firmware versions, or device specifications.
- Provides centralized online storage for drivers, firmware, device documentation and operating system base images that a user can access over the Internet.

SIMATIC IPC ORCLA Remote Diagnostics

- Enables remote monitoring of diagnostics data from your own applications via OPC UA.
- Possibility to export diagnostics data to an Excel file format.

SIMATIC IPC ORCLA Firmware Agent

- Allows you to define the boot behavior according to customer requirements.
- Makes it easy to access and modify BIOS data or OEM-specific SMBIOS fields.
- Allows you to set passwords, create hashes, and store password changes with certificate to increase BIOS security.
- Helps to edit the setup settings (BIOS configuration) via the command line or via the user interface.
- Provides a mechanism for inserting an individual or a customer-specific boot logo.
- Allows you to configure a secure start-up, add or remove certificates, display information.

SIMATIC IPC ORCLA Protector

- Provides a comprehensive security solution to physically harden IPCs in an OT environment by providing policy options that can be customized to meet the customer's needs.
- Actively monitors for brute force attempts and protects IPCs from unauthorized access.
- Helps create security policies to activate an allowlist of trusted applications, selectively disable USB ports, and enable kiosk mode to limit IPC functionality to a single specific application.

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Overview (continued)

Tools & applications:

SIMATIC IPC Image & Partition Creator

- Software tool for preventive data backup of hard disk contents
- High-speed restoring of system and data partitions with bit accuracy; user software and special installations are also backed up
- Secure processing of hard disk partitions
- Creation of bootable and password-protected USB flash drives
- Secure deletion of data storage media

SIMATIC IPC DiagMonitor

- Diagnostics and alarm software for monitoring SIMATIC IPCs
- Comprehensive monitoring of temperature, fan speed, hard disk (SMART, RAID, CompactFlash, CFast, SSD), watchdog
- Operating hours counter for preventive maintenance
- Event logging and task planning
- Data exchange via OPC UA, email, text messages or SNMP

SIMATIC IPC FirmwareManager

- Display of the firmware information
- Updating the firmware
- Setting the booting behavior
- Display of the SMBIOS data
- Setting the password parameters
- Editing the setup settings (BIOS configuration)
- Insertion of a boot logo
- Setup of Secure Boot

Software packages

Software packages with SIMATIC WinCC (SCADA, Advanced, Professional) are available for many SIMATIC IPCs.
Additional software packages with SIMATIC S7-1500 Software Controller CPU 1507S are available for the IPC227E and IPC277E.
Ordering the automation software together with an industrial PC results in significant price savings.

Operating systems:

SIMATIC Industrial OS

Apart from the hardware, the operating system is the most important internal component of a computer. It can come supplied with user programs or simply provide the application resources. The SIMATIC Industrial OS with its Linux-based operating system not only constitutes an alternative to the Microsoft Windows operating systems also available for the SIMATIC IPCs, it also offers a suitable solution to the challenges listed above.

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Overview

ORCLA product family

Basic products:

- SIMATIC IPC ORCLA Core
- SIMATIC IPC ORCLA Online Services

Licensed products:

- SIMATIC IPC ORCLA Imager
- SIMATIC IPC ORCLA Remote Diagnostics
- SIMATIC IPC ORCLA Firmware Agent
- SIMATIC IPC ORCLA Protector

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Overview

SIMATIC IPC ORCLA Remote Diagnostics is an extension of ORCLA Core with the following functions:

- Remote monitoring of diagnostics data from your own applications via OPC UA.
- Export diagnostics data to an Excel file format for further analysis.

The license can be ordered as a download from Online Software Delivery (OSD) via the Industry Mall and is managed directly via ORCLA Online Services.

Selection and ordering data

SIMATIC IPC Remote Diagnostics V1	
Software for diagnostics/messages via Ethernet, email, SMS, OPC, web	
• For IPCs from the lower performance range	**6ES7648-6HD01-0XB1**
• For IPCs from the medium performance range	**6ES7648-6HD01-0XB2**

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Overview

The SIMATIC IPC ORCLA Firmware Agent is a management tool for configuring and replacing firmware components. The ORCLA Firmware Agent offers the user the advantage of a lean user interface that can also provide command line options.

Only the following SIMATIC IPCs are supported:

- SIMATIC IPC BX-21A
- SIMATIC IPC12E
- SIMATIC IPC227G / IPC277G
- SIMATIC IPC BX-32A / PX-32A
- SIMATIC IPC BX-39A / PX39A
- SIMATIC IPC427E / IPC477E
- SIMATIC IPC BX-54A
- SIMATIC IPC RW-543B
- SIMATIC IPC BX-56A / BX-59A / PX-56A / PX-59A
- SIMATIC IPC RC-545A / RW-545A
- SIMATIC IPC RW-528A / RW-548A
- SIMATIC IPC647E
- SIMATIC IPC847E
- SIMATIC IPC MD-57A
- SIMATIC IPC RS-717A
- SIMATIC IPC RS-828A
- SIMATIC IPC field PG M6

System requirements

Software:

- Operating system for installation
  - Windows 10 IoT Enterprise 2021 LTSC
  - Windows 10 Enterprise LTSC version
  - Windows Server 2022
- HTML5-compatible browsers:
- Microsoft Edge v79+
- Chrome v64+
- Firefox v61+
- Safari v12.1+

Selection and ordering data

SIMATIC IPC ORCLA Firmware Agent V1.0 Software and license for download Email address is required for delivery • Single license	**6ES7648-6HA01-0XB0**

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Overview

The SIMATIC IPC ORCLA Protector is an application for system hardening of SIMATIC Industrial PCs (IPCs). By reducing the attack surface, Protector ensures robust protection against potential threats.

System requirements

Hardware:
The application can be used on all SIMATIC IPCs.
Software:

- Operating system for installation:
  - Windows 10 IoT Enterprise 2021 LTSC
  - Windows 10 Enterprise LTSC version
  - Windows Server 2022
- HTML5-compatible browsers
  - Microsoft Edge v79+
  - Chrome v64+
  - Firefox v61+
  - Safari v12.1+

Selection and ordering data

SIMATIC IPC ORCLA Protector V1.0 Software and license for download Email address is required for delivery • Single license	**6ES7648-6HC01-0XB0**

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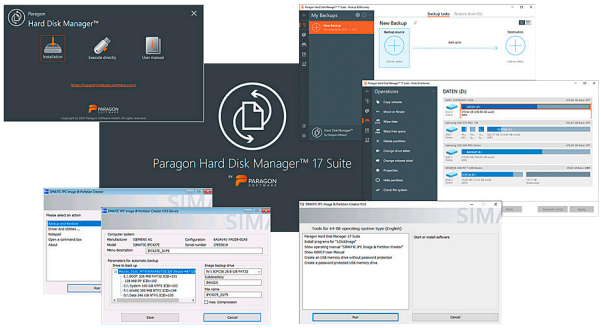
Overview

Tools & applications for SIMATIC IPC

- SIMATIC IPC Image & Partition Creator
- SIMATIC IPC DiagMonitor
- SIMATIC IPC FirmwareManager
- Software packages

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Overview



SIMATIC IPC Image & Partition Creator is the software tool for easy, preventive data backup and restoring of hard disk contents (images of individual partitions or complete hard disks). This software can be ordered using the SIMATIC IPC Configurator, or separately as a single license.

- Can run on all SIMATIC IPCs, regardless of the computer configuration
- Direct starting from the USB flash drive possible (no installation required)
- Complete backup by means of a mouse double-click with "1ClickImage" (installation required)
- Independent of operating system thanks to start from bootable USB flash drive with Image & Partition Creator
- Extremely easy system restore using end user's USB flash drive at this link

Licenses:

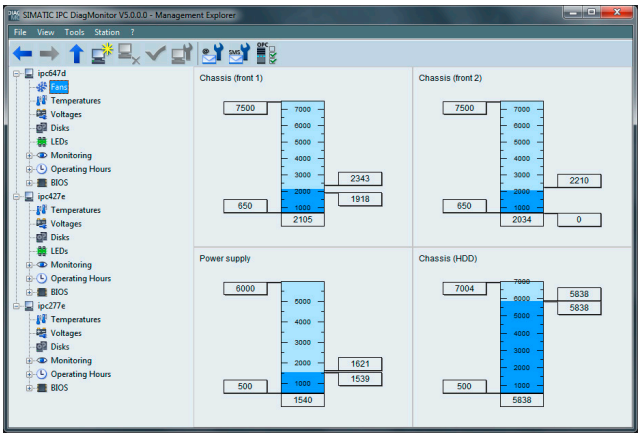
The SIMATIC IPC Image & Partition Creator V3.6 may only be installed on one device at a time or operated without installation. When used with multiple IPCs, a separate version is required for each IPC. This also applies if a restore is copied (multiple times) to other IPCs. A separate version is then also required for each of them.

Selection and ordering data

SIMATIC IPC Image & Partition Creator V3.6 Software tool for very easy preventive data backup and efficient partition management, single license for use on one SIMATIC IPC • On USB flash drive • As download; Consignee email address required for delivery	Can be ordered using the SIMATIC IPC Configurator **6ES7648-6AA13-6YA0** **6ES7648-6AA83-6YA0**

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Overview



The SIMATIC IPC DiagMonitor permits intelligent and comprehensive monitoring and diagnostics of SIMATIC Industrial PCs.

It detects potential hardware and software faults at an early stage, visualizes operating states and offers various options for access and data exchange.

The SIMATIC IPC DiagMonitor supports not only local diagnostics, but also access via the network to SIMATIC IPC. When installed on a standard PC, all remote functions required for remote access are available.

Only the following SIEMENS products are supported:

- SIMATIC IPC127E
- SIMATIC IPC227G / IPC277G / IPC227E / IPC277E
- SIMATIC IPC427E / IPC477E / IPC427D / IPC477D
- SIMATIC IPC547J / IPC547G / IPC547E
- SIMATIC IPC627E / IPC677E / IPC627D / IPC677D
- SIMATIC IPC647E / IPC647D
- SIMATIC IPC827D
- SIMATIC IPC847E / IPC847D
- CPU 1515SP PC
- CPU 1515SP PC2

The software can be ordered as:

- individual product from stock (e.g. for server applications on third-party PCs or immediate integration in new systems) on USB flash drive, as download via Online Software Delivery (OSD), or
- as option ordered according to the SIMATIC IPC Configurator (Internet, Industry Mall).

Note:

As of Version 5.1, the SIMATIC IPC DiagMonitor is delivered on a USB flash drive.

One version of SIMATIC IPC DiagMonitor is required for each monitoring PC or for each SIMATIC IPC to be monitored. See this link for more.

Selection and ordering data

SIMATIC IPC DiagMonitor V5.1	Can be ordered using the SIMATIC IPC Configurator
SIMATIC IPC DiagMonitor V5.1 Software for diagnostics/messages via Ethernet, email, SMS, OPC, web	
• On USB flash drive; single license	**6ES7648-6CA15-1YX0**
• Download via OSD; single license; software and license for download; email address required for delivery	**6ES7648-6CA85-1YX0**

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Overview

SIMATIC IPC FirmwareManager

The SIMATIC IPC FirmwareManager is a management tool for configuring and replacing firmware components.
The FirmwareManager is controlled via command line options.
Only the following Siemens products are supported:

- SIMATIC IPC427D
- SIMATIC IPC477D
- SIMATIC IPC627D
- SIMATIC IPC677D
- SIMATIC IPC647D
- SIMATIC IPC827D
- SIMATIC IPC847D
- SIMATIC IPC127E
- SIMATIC IPC227E
- SIMATIC IPC277E
- SIMATIC IPC427E
- SIMATIC IPC477E
- SIMATIC IPC627E
- SIMATIC IPC677E
- SIMATIC IPC647E
- SIMATIC IPC847E
- SIMATIC IPC227G
- SIMATIC IPC277G
- SIMATIC IPC BX-21A
- SIMATIC IPC BX-32A
- SIMATIC IPC PX-32A
- SIMATIC IPC BX-39A
- SIMATIC IPC PX-39A
- SIMATIC IPC BX-56A
- SIMATIC IPC BX-59A
- SIMATIC Field PG M5
- SIMATIC Field PG M6
- SIMATIC IPC MD-57A
- SIMATIC ITP1000

Supported operating systems:

- UEFI Shell
- Windows 10 64-bit
- Windows 11 64 bit
- Linux-based (kernel 3.x, 4.x, 5.x) 64-bit

The SIMATIC IPC FirmwareManager is available via online software delivery (OSD).

Licenses:

There are two license versions available for the SIMATIC IPC FirmwareManager.

Overview (continued)

- The single license is intended for use with a single IPC. It allows installation or mobile use with only one SIMATIC IPC.
- The license for 50 devices allows mobile use (via e.g. a USB flash drive) together with up to 50 IPCs.
  If the FirmwareManager is to be used with more than 50 IPCs, a corresponding number of licenses is required.

Selection and ordering data

SIMATIC IPC FirmwareManager	
SIMATIC IPC FirmwareManager V4.1 Software and license for download: Email address is essential for delivery	
• Single license; One version of the "SIMATIC IPC FirmwareManager" is required for each SIMATIC IPC on which the firmware manager is installed	**6ES7648-6FA84-1YX0**
• SIMATIC IPC FirmwareManager for 50 devices; One version of the "SIMATIC IPC FirmwareManager for 50 devices" is required for mobile use with up to 50 SIMATIC IPC	**6ES7648-6GA84-1YX0**

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Overview



Software packages with SIMATIC IPC

Software packages with SIMATIC WinCC or SIMATIC SW Controller together with the corresponding SIMATIC IPC.

Available:

- SIMATIC IPC Packages with WinCC Unified PC RT (TIA Portal)
- SIMATIC IPC Packages with WinCC V7/V8
- SIMATIC IPC Packages with WinCC Open Architecture – WinCC OA
- SIMATIC IPC Packages with WinCC RT Advanced (TIA Portal)
- SIMATIC IPC Packages with WinCC RT Professional (TIA Portal)
- SIMATIC IPC Packages with SIMATIC S7-1500 Software Controller

A software package can only be supplied if the same number of SIMATIC industry PCs is ordered together with the software. It cannot be ordered subsequently or separately.

Selection and ordering data

Software packages for SIMATIC IPC	
SIMATIC WinCC Unified V20 PC Runtime [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control.	
• 150 PowerTags	**6AV2155-3DB02-4AA0**
• 500 PowerTags	**6AV2155-1EB02-4AA0**
• 1k PowerTags	**6AV2155-2EB02-4AA0**
• 2.5k PowerTags	**6AV2155-2MB02-4AA0**
• 5k PowerTags	**6AV2155-1FB02-4AA0**
• 10k PowerTags	**6AV2155-2FB02-4AA0**
• 50k PowerTags	**6AV2155-1GB02-4AA0**
SIMATIC WinCC Unified V20 PC Runtime ASIA [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control.	
• 150 PowerTags	**6AV2155-3DB02-4BA0**
• 500 PowerTags	**6AV2155-1EB02-4BA0**
• 1k PowerTags	**6AV2155-2EB02-4BA0**
• 2.5k PowerTags	**6AV2155-2MB02-4BA0**
• 5k PowerTags	**6AV2155-1FB02-4BA0**
• 10k PowerTags	**6AV2155-2FB02-4BA0**
• 50k PowerTags	**6AV2155-1GB02-4BA0**
SIMATIC WinCC Unified V19 PC Runtime [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control.	
• 150 PowerTags	**6AV2155-3DB02-3AA0**
• 500 PowerTags	**6AV2155-1EB02-3AA0**
• 1k PowerTags	**6AV2155-2EB02-3AA0**
• 2.5k PowerTags	**6AV2155-2MB02-3AA0**
• 5k PowerTags	**6AV2155-1FB02-3AA0**
• 10k PowerTags	**6AV2155-2FB02-3AA0**
• 50k PowerTags	**6AV2155-1GB02-3AA0**
SIMATIC WinCC Unified V19 PC Runtime ASIA [1) 2)]	
Incl. WinCC Unified Logging Tags and WinCC Unified Parameter Control	
• 150 PowerTags	**6AV2155-3DB02-3BA0**
• 500 PowerTags	**6AV2155-1EB02-3BA0**
• 1k PowerTags	**6AV2155-2EB02-3BA0**
• 2.5k PowerTags	**6AV2155-2MB02-3BA0**
• 5k PowerTags	**6AV2155-1FB02-3BA0**
• 10k PowerTags	**6AV2155-2FB02-3BA0**
• 50k PowerTags	**6AV2155-1GB02-3BA0**
SIMATIC WinCC Runtime Advanced V17 [1) 2)]	
Software and documentation on DVD, incl. WinCC Archives and WinCC Recipes. Single license, license key on USB flash drive for:	
• 128 PowerTags	**6AV2114-2BA07-0AA0**
• 512 PowerTags	**6AV2114-2DA07-0AA0**
• 2 048 PowerTags	**6AV2114-2FA07-0AA0**
• 4 096 PowerTags	**6AV2114-2HA07-0AA0**
• 8 192 PowerTags	**6AV2114-2KA07-0AA0**

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Selection and ordering data (continued)

SIMATIC WinCC Runtime Professional V20 1) 2) 3)	
• WinCC Client for RT Professional	**6AV2117-2DB02-4AA0**
• 128 PowerTags	**6AV2115-2BA02-4AA0**
• 512 PowerTags	**6AV2115-2DA02-4AA0**
• 2 048 PowerTags	**6AV2115-2FA02-4AA0**
• 4 096 PowerTags	**6AV2115-2HA02-4AA0**
• 8 192 PowerTags	**6AV2115-2KA02-4AA0**
• 65 536 PowerTags	**6AV2115-2MA02-4AA0**
SIMATIC WinCC Runtime Professional V19 1) 2) 3)	
• WinCC Client for RT Professional	**6AV2117-2DB02-3AA0**
• 512 PowerTags	**6AV2115-2DA02-3AA0**
• 2 048 PowerTags	**6AV2115-2FA02-3AA0**
• 4 096 PowerTags	**6AV2115-2HA02-3AA0**
• 8 192 PowerTags	**6AV2115-2KA02-3AA0**
• 65 536 PowerTags	**6AV2115-2MA02-3AA0**

1) Only if ordered together with a SIMATIC IPC.
2) The current version is always supplied.
3) IPC127 only as client and single-user station for small projects, IPC227E/IPC277E and IPC327E/IPC377E only as WinCC client & single-user station.

Software packages for SIMATIC IPC	
SIMATIC WinCC V8.1 Runtime 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-1AX0**
• 128 PowerTags	**6AV6382-2CA08-1AX0**
• 512 PowerTags	**6AV6382-2DA08-1AX0**
• 2 048 PowerTags	**6AV6382-2EA08-1AX0**
• 8 192 PowerTags	**6AV6382-2HA08-1AX0**
• 65 536 PowerTags	**6AV6382-2FA08-1AX0**
SIMATIC WinCC V8.1 Runtime ASIA 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-1AV0**
• 128 PowerTags	**6AV6382-2CA08-1AV0**
• 512 PowerTags	**6AV6382-2DA08-1AV0**
• 2 048 PowerTags	**6AV6382-2EA08-1AV0**
• 8 192 PowerTags	**6AV6382-2HA08-1AV0**
• 65 536 PowerTags	**6AV6382-2FA08-1AV0**
SIMATIC WinCC V8.0 SP2 Runtime 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-0AX0**
• 128 PowerTags	**6AV6382-2CA08-0AX0**
• 512 PowerTags	**6AV6382-2DA08-0AX0**
• 2 048 PowerTags	**6AV6382-2EA08-0AX0**
• 8 192 PowerTags	**6AV6382-2HA08-0AX0**
• 65 536 PowerTags	**6AV6382-2FA08-0AX0**
SIMATIC WinCC V8.0 SP2 Runtime ASIA 1) 2)	
• WinCC RT Client	**6AV6382-2AA08-0AV0**
• 128 PowerTags	**6AV6382-2CA08-0AV0**
• 512 PowerTags	**6AV6382-2DA08-0AV0**
• 2 048 PowerTags	**6AV6382-2EA08-0AV0**
• 8 192 PowerTags	**6AV6382-2HA08-0AV0**
• 65 536 PowerTags	**6AV6382-2FA08-0AV0**

Selection and ordering data (continued)

1) Only if ordered together with a SIMATIC IPC
2) The current version is always supplied

SIMATIC WinCC Open Architecture	
V3.20 Only offered with the IPC127E, IPC227E/IPC277E, IPC BX-21A, IPC BX-39A. These packages cannot be extended with other WinCC OA options (Restrictions according to WinCC OA documentation). N/EAR99S 9377	
• 128 PowerTags	**6AV6355-1AA50-0FA4**
• 256 PowerTags	**6AV6355-1AA50-0FA0**
• 512 PowerTags	**6AV6355-1AA50-0FA1**
• 2 048 PowerTags	**6AV6355-1AA50-0FA2**
• 4 096 PowerTags	**6AV6355-1AA50-0FA3**
V3.19 Only offered with the IPC127E, IPC227E/IPC277E, IPC BX-21A, IPC BX-39A	
• 128 PowerTags	**6AV6355-1AA47-7FA4**
• 256 PowerTags	**6AV6355-1AA47-7FA0**
• 512 PowerTags	**6AV6355-1AA47-7FA1**
• 2 048 PowerTags	**6AV6355-1AA47-7FA2**
• 4 096 PowerTags	**6AV6355-1AA47-7FA3**
V3.18 Only offered with the IPC127E, IPC227E/IPC277E, IPC BX-21A, IPC BX-39A	
• 128 PowerTags	**6AV6355-1AA31-8FA4**
• 256 PowerTags	**6AV6355-1AA31-8FA0**
• 512 PowerTags	**6AV6355-1AA31-8FA1**
• 2 048 PowerTags	**6AV6355-1AA31-8FA2**
• 4 096 PowerTags	**6AV6355-1AA31-8FA3**

SIMATIC S7-1500 Software Controller CPU1507S Package	
SW package only available for IPC227E/IPC277E	
• SW Controller CPU 1507S for IPC2x7E (DVD) 1) 2)	**6ES7672-7AC01-6YA0**
• SW Controller CPU 1507S (F) for IPC2x7E (DVD) 1) 2)	**6ES7672-7FC01-6YA0**

1) Only if ordered together with a SIMATIC IPC
2) The current version is always supplied

Note:
For ordering data for Panel PCs and accessories, see configurators in "SIMATIC Panel PCs".

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Overview

Operating systems for SIMATIC IPC

SIMATIC Operating system packages transform SIMATIC IPC from a collection of hardware components into a powerful, reliable, and versatile computing platform essential for industrial automation, control, and data management.

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Overview



SIMATIC Industrial OS – the operating system for applications in the industrial environment

The SIMATIC Industrial OS with its Linux-based operating system constitutes an alternative to the tried-and-tested Microsoft Windows operating systems available for the SIMATIC IPCs.

The focus is on a small footprint, without unnecessary ballast, but with all components for fast commissioning and simple further development.

It is continuously compiled and tested on the available SIMATIC IPCs. It is designed for applications in the industrial environment as well as beyond. New versions are continuously being developed and are available for download under the existing MLFB.

Released devices x86 architecture:

(Available devices may change depending on the Industrial OS version.)

- SIMATIC IPC BX-21A
- SIMATIC IPC127E
- SIMATIC IPC227E/277E
- SIMATIC IPC227G/277G
- SIMATIC IPC427E/477E
- SIMATIC IPC BX-39A
- SIMATIC IPC PX-39A
- SIMATIC IPC BX-59A
- SIMATIC IPC847E
- SIMATIC IPC547G
- SIMATIC IPC347E
- SIMATIC IPC327E/377E
- SIMATIC IPC527G
- SIMATIC IPC627E/677E/647E
- SIMATIC IPC RS-828A
- SIMATIC IPC RW/RS-545A

More information is available at this link

Released devices ARM architecture

(Available devices may change depending on the Industrial OS version.)

Overview (continued)

- SIMATIC IPC520A
- SIMATIC BX-35A
- SIMATIC IOT2050 Basic
- SIMATIC IOT2050 Advanced
- SIMATIC IOT2050 SM
- SIMATIC IOT2050 M.2

More information is available at this link.

Minimum requirements:

- USB flash drive with a memory of at least 32 GB
- SIMATIC IPC (see released devices) with at least 16 GB free memory space on the target storage medium (SSD, eMMc, etc.).

Selection and ordering data

SIMATIC Industrial OS, based on Linux; Operating system for SIMATIC IPC; single license; software and license for download Consignee email address required for delivery	**6ES7648-6LA81-0YA8**
Industrial OS ARM	**6ES7648-6LA81-1YA2**

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Overview

SIMATIC IPC Operating System Package

The SIMATIC IPC Operating System Package offers a streamlined and optimized pathway for upgrading existing industrial systems to Windows 10/11 IoT Enterprise LTSC.

For the current devices, the following are available:

- Windows 10 IoT Enterprise 2016 LTSB
- Windows 10 IoT Enterprise 2019 LTSC
- Windows 10 IoT Enterprise 2021 LTSC
- Windows 11 IoT Enterprise 2024 LTSC

Siemens offers two distinct OS package options for SIMATIC IPCs, designed to cater to different deployment needs:

- OS Package with USB Flash Drive: This comprehensive option includes the license label (COA), a Certificate of License (COL), and the essential restore medium for the specific IPC.
- OS Package without USB Flash Drive: This more economical alternative provides only the license label (COA) and a Certificate of License (COL).

Selection and ordering data

Windows 10 IoT Enterprise LTSC 2021 **SIMATIC IPC OS Package for**	
SIMATIC IPC227E/IPC277E (with USB flash drive)	**6ES7648-6WD11-0YA0**
SIMATIC IPC227E/IPC277E (without USB flash drive)	**6ES7648-6WD21-0YA0**
SIMATIC IPC427E/IPC477E (with USB flash drive)	**6ES7648-6WD11-1YA0**
SIMATIC IPC427E/IPC477E (without USB flash drive)	**6ES7648-6WD21-1YA0**
SIMATIC IPC547J (with USB flash drive)	**6ES7648-6WD11-3YA0**
SIMATIC IPC547J (without USB flash drive)	**6ES7648-6WD21-3YA0**
SIMATIC IPC627E/IPC677E (with USB flash drive)	**6ES7648-6WD11-5YA0**
SIMATIC IPC627E/IPC677E (without USB flash drive)	**6ES7648-6WD21-5YA0**
SIMATIC IPC647E/IPC847E (with USB flash drive)	**6ES7648-6WD11-6YA0**
SIMATIC IPC647E/IPC847E (without USB flash drive)	**6ES7648-6WD21-6YA0**
SIMATIC IPC127E (with USB flash drive)	**6ES7648-6WD11-7YA0**
SIMATIC IPC127E (without USB flash drive)	**6ES7648-6WD21-7YA0**
SIMATIC IPC227G/IPC277G (with USB flash drive)	**6ES7648-6WD11-8YA0**

Windows 10 IoT Enterprise LTSC 2019 **SIMATIC IPC OS Package for**	
SIMATIC IPC227E/IPC277E (with USB flash drive)	**6ES7648-6WC11-0YA0**
SIMATIC IPC227E/IPC277E (without USB flash drive)	**6ES7648-6WC21-0YA0**
SIMATIC IPC427E/IPC477E (with USB flash drive)	**6ES7648-6WC11-1YA0**
SIMATIC IPC427E/IPC477E (without USB flash drive)	**6ES7648-6WC21-1YA0**
SIMATIC IPC547G (with DVD)	**6ES7648-6WC11-2YA0**
SIMATIC IPC547G (without DVD)	**6ES7648-6WC21-2YA0**
SIMATIC IPC627D/IPC677D/IPC827D (with USB flash drive)	**6ES7648-6WC11-3YA0**
SIMATIC IPC627D/IPC677D/IPC827D (without USB flash drive)	**6ES7648-6WC21-3YA0**
SIMATIC IPC647D/IPC847D (with DVD)	**6ES7648-6WC11-4YA0**
SIMATIC IPC647D/IPC847D (without DVD)	**6ES7648-6WC21-4YA0**
SIMATIC IPC627E/IPC677E (with USB flash drive)	**6ES7648-6WC11-5YA0**
SIMATIC IPC627E/IPC677E (without USB flash drive)	**6ES7648-6WC21-5YA0**
SIMATIC IPC647E/IPC847E (with USB flash drive)	**6ES7648-6WC11-6YA0**
SIMATIC IPC647E/IPC847E (without USB flash drive)	**6ES7648-6WC21-6YA0**
SIMATIC ITP1000 (with USB flash drive)	**6ES7648-6WC11-7YA0**
SIMATIC ITP1000 (without USB flash drive)	**6ES7648-6WC21-7YA0**
SIMATIC IPC127E (with USB flash drive)	**6ES7648-6WC11-8YA0**
SIMATIC IPC127E (without USB flash drive)	**6ES7648-6WC21-8YA0**

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Selection and ordering data (continued)

Windows 10 IoT Enterprise LTSB 2016	
SIMATIC IPC OS Package for	
SIMATIC IPC227E/IPC277E	**6ES7648-6WB11-0YA0**
SIMATIC IPC427E/IPC477E	**6ES7648-6WB11-1YA0**
SIMATIC IPC547G	**6ES7648-6WB11-2YA0**
SIMATIC IPC627D/IPC677D/IPC827D	**6ES7648-6WB11-3YA0**
SIMATIC IPC647D/IPC847D	**6ES7648-6WB11-4YA0**
SIMATIC ITP1000	**6ES7648-6WB11-5YA0**

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Overview

To expand the SIMATIC IPC with additional functionalities, various accessory cards are offered in different form factors.

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Overview



To integrate additional functionality, selected expansion cards in PCIe format are available for SIMATIC IPC.

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Overview



CP 1625

CP 1625 is a PCIe module for connecting IPCs to Industrial Ethernet and for PROFINET IRT with CPU1500S Software Controller.

Requirement:

- TIA Portal ≥ V15
- S7-1500 Software Controller CPU 1507S (F) ≥ V2.5 is installed on the IPC

Selection and ordering data

SIMATIC CP 1625 PCIe card for PROFINET IRT for CPU1500S Software controller	**6ES7648-2CF10-1AA0**

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Technical specifications

Article number	6ES7648-2CF10-1AA0 CP1625, PCIe for PROFINET IRT
General information	
Product type designation	CP 1625
Product function	
• Proxy functionality	No
Installation type/mounting	
Design	Plug-in card
Supply voltage	
Type of supply voltage	DC via PCI Express
Interfaces	
Interfaces/bus type	PROFINET IO
Number of PROFINET interfaces	1; 2 ports (switch)
Interrupts/diagnostics/status information	
LED status display	Yes
Integrated Functions	
Monitoring functions	
• Fan	No
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes; CE marking / EC Declaration of Conformity
CSA approval	Yes
UL approval	Yes; UL 60950
cULus	Yes
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX Zone 2	Yes
• IECEx Zone 2	Yes
• FM Class I Division 2	No
Marine approval	
• Germanischer Lloyd (GL)	No
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Korean Register of Shipping (KRS)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 000 m
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	1 g (10 m/s²)
Dimensions	
Width	21.6 mm
Height	126 mm
Depth	180 mm

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Overview

The SIMATIC CP 1625-2 is a PCIe module designed to connect IPCs to Industrial Ethernet. It is optimized for PROFINET IRT in combination with the Software Controller CPU 1500S. Requirements include TIA Portal version 20 or newer for configuration, and S7-1500 Software Controller CPU 1508S (F/T/TF) version 40.0 or newer, installed on the IPC.

Selection and ordering data

SIMATIC CP 1625-2 PCIe card, for PROFINET RT/IRT for Software controller CPU 1500S	**6ES7195-3CF20-0AD0**

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Overview

SITOP has the right power supply for all SIMATIC IPCs with 24 V DC input, even when NEC Class 2 infeed is required. The SITOP power supply units can be upgraded to an uninterruptible DC power supply (DC UPS) for buffering in the event of a power failure and for safe shutdown of the PC.

Uninterruptible 24 V DC power supply

SIMATIC IPC (24 V DC)	Min. input voltage [V]	Max. inrush current [A]	Rated current [A]	Recommended power supply without DC UPS		Recommended power supply with DC UPS	
				Power supply	Article No.	Power supply	Article No.
IPC127E	19.2	1.8	0.7	LOGO!Power 1.3 A	**6EP3331-6SB00-0AY0**	SITOP PSU6200 5 A[2]	**6EP3333-7SB00-0AX0**
IPC227G	19.2	4	1.9	SITOP PSU6200 2.5 A	**6EP3332-6SB00-0AX0**	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**
IPC277G (7", 9")	19.2	4	1.9	SITOP PSU6200 2.5 A	**6EP3332-6SB00-0AY0**	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**
IPC277G (12", 15", 19" 22", 24")	19.2	4.5	5	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**	SITOP PSU6200 10 A	**6EP3334-7SB00-0AX0**
IPC327G	19.2	4	2.5	SITOP PSU6200 2.5 A	**6EP3332-6SB00-0AY0**	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**
IPC377G (12", 15", 19", 22")	19.2	4	2.5	SITOP PSU6200 2.5 A	**6EP3332-6SB00-0AY0**	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**
IPC BX-32A	9	Max. 40 A for 1.6 ms; max. 25 A for an additional 4 ms	3.3 (24 V)	SITOP PSU6200 3.7 A[1]	**6EP3333-7LB00-0AX0**	SITOP PSU6200 10 A[2]	**6EP3334-7SB00-3AX0**
IPC PX-32A	9	Max. 40 A for 1.6 ms; max. 25 A for an additional 4 ms	3.4 (24 V)	SITOP PSU6200 3.7 A[1]	**6EP3333-7LB00-0AX0**	SITOP PSU6200 10 A[2]	**6EP3334-7SB00-3AX0**
IPC BX-39A	19.2	6.5	2.9	SITOP PSU6200 3.7 A[1]	**6EP3333-7LB00-0AX0**	SITOP PSU6200 10 A[2]	**6EP3334-7SB00-3AX0**
IPC PX-39A	19.2	6.5	3.4	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**	SITOP PSU6200 10 A	**6EP3334-7SB00-3AX0**
IPC627E	19.2	13	8	SITOP PSU6200 10 A	**6EP3334-7SB00-3AX0**	SITOP PSU6200 20 A	**6EP3336-7SB00-3AX0**
IPC627E (5 slot)	19.2	13	8	SITOP PSU6200 10 A	**6EP3334-7SB00-3AX0**	SITOP PSU6200 20 A	**6EP3336-7SB00-3AX0**
IPC677E	19.2	14	8	SITOP PSU6200 10 A	**6EP3334-7SB00-3AX0**	SITOP PSU6200 20 A	**6EP3336-7SB00-3AX0**
IOT2050	12	1.7	0.5	LOGO!Power 2.5 A	**6EP3332-6SB00-0AY0**	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**
IFP basic	20.4	2.5	2.5	LOGO!Power 2.5 A	**6EP3332-6SB00-0AY0**	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**
IFP Standard	19.2	Not specified	1.0 (12") .. 1.9 (24")	LOGO!Power 2.5 A	**6EP3332-6SB00-0AY0**	SITOP PSU6200 5 A	**6EP3333-7SB00-0AX0**

1) 24 V infeed according to NEC Class 2 (max. 100 W)
2) Add-on modules with NEC Class 2 required, see configuration examples under "Power supplies with NEC Class 2"

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Overview



High performance – Focused diagnostics – The all-round power supply for a wide variety of applications

The SITOP PSU6200 product family is the new standard power supply for customers with high technical requirements regarding reliability, efficiency and integration. It is suitable for many fields of application, particularly in the industrial environment, such as series machine building. The SITOP PSU6200 represents the state-of-the-art and takes the SITOP product portfolio into new dimensions of efficiency.

The slim and excellent design of the PSU6200 family combined with the push-in terminals means easy installation and wiring. The power supply units in this product family are all-rounders featuring a long service life and absolute reliability.

The high efficiency of up to 96% guarantees resource-saving energy consumption.

To further increase the 24 V availability, the SITOP PSU6200 power supplies can be combined with **buffer**, **DC UPS**, **redundancy** and **selectivity modules**.

Product highlights of the product line

- Diagnostics monitor[1)]
  - LED display for DC OK, utilization (<30%, >30%, >60%, >90%) and remaining life time
- Diagnostics interface[1)]
  - Provision of important operating parameters (e.g. output current/voltage, overload, temperature status, undervoltage and overvoltage detection at output, operating hours, device settings, etc.)
- Switchable output characteristic[1)]
  - Constant current: Power supply not switched off immediately in the event of overload
  - Parallel operation: Uniform load sharing between power supply units connected in parallel for longer service life in every scenario
- Rugged input
  - Active PFC (Power Factor Correction)[1)] for lower reactive and inrush current and protection against mains pulses
  - Optimized protection of the input circuit
  - Wide-range input
  - DC capability of 1-phase devices
  - Continuous duty possible on 2 phases of 3-phase devices
- Coordinated product family
  - For 12 V, 24 V and 48 V applications of varying power requirements
  - 24 V versions for NEC Class 2 and Ex protection applications

Overview (continued)

- Narrow overall width
  - For direct side-by-side mounting without lateral clearance requirements
  - Visually attractive design (IF Design Award 2019)
- Push-in connection system
  - Easy, time-saving installation without need for tools
  - Additional minus terminal[1)] (grounding) for wiring according to PELV (Protected Extra Low Voltage)
- High overload capability[2)]
  - Power reserves in case of overload 150% extra power for 5 s/min
  - Continuous 120% rated current up to 45 °C ambient temperature

1) from 24 V/10 A and 12 V/12 A
2) from 24 V/5 A and 12 V/7 A

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Overview



SITOP PSU6200 family 24 V, the power supply units starting at 10 A have extensive diagnostic options - see Siemens on the Web

Stabilized single-phase power supplies with wide-range input in six power levels with variants for NEC Class 2 requirements and explosion protection.

Product highlights

- 1-phase, 24 V DC/1.3 A, 2.5 A, 3.7 A, 5 A, 10 A and 20 A
- 1.3 A, 2.5 A and 3.7 A with 100 VA power limitation acc. to NEC Class 2
- PSU6200 EX 24 V/5 A, 10 A and 20 A: For use in Zone 2 hazardous environments (gases, vapors or mists)
- Enclosure
  - Attractive metal enclosure from 3.7 A, plastic enclosure with similar form and color up to 2.5 A
- Can be expanded with SITOP add-on and DC UPS modules
  - BUF1200 buffer module, SEL1200/1400 selectivity modules and RED1200 redundancy modules in the design of the SITOP PSU6200

Selection and ordering data

SITOP PSU6200 1-phase, 24 V DC/1.3 A Stabilized power supply Input: 120 - 230 V AC/120 - 240 V DC Output: 24 V DC/1.3 A	**6EP3331-7SB00-0AX0**
SITOP PSU6200 1-phase, 24 V DC/2.5 A Stabilized power supply Input: 120 - 230 V AC/120 - 240 V DC Output: 24 V DC/2.5 A	**6EP3332-7SB00-0AX0**
SITOP PSU6200 1-phase, 24 V DC/3.7 A Stabilized power supply Input: 120 - 230 V AC/120 - 240 V DC Output: 24 V DC/3.7 A	**6EP3333-7LB00-0AX0**
SITOP PSU6200 1-phase, 24 V DC/5 A Stabilized power supply Input: 120 - 230 V AC/120 - 240 V DC Output: 24 V DC/5 A	**6EP3333-7SB00-0AX0**
SITOP PSU6200 1-phase, 24 V DC/10 A Stabilized power supply Input: 120 - 230 V AC/110 - 240 V DC Output: 24 V DC/10 A	**6EP3334-7SB00-3AX0**
SITOP PSU6200 1-phase, 24 V DC/20 A Stabilized power supply Input: 120 - 230 V AC/110 - 240 V DC Output: 24 V DC/20 A	**6EP3336-7SB00-3AX0**
SITOP PSU6200 1-phase 24 V DC/40 A Stabilized power supply Input: 120 - 230 V AC/110 - 240 V DC Output: 24 V DC/40 A	**6EP3337-7SB00-3AX0**
SITOP PSU6200 Ex 1-phase, 24 V DC/5 A Stabilized power supply Input: 120 - 230 V AC/120 - 240 V DC Output: 24 V DC/5 A	**6EP3333-7SC00-0AX0**
SITOP PSU6200 Ex 1-phase, 24 V DC/10 A Stabilized power supply Input: 120 - 230 V AC/120 - 240 V DC Output: 24 V DC/10 A	**6EP3334-7SC00-3AX0**
SITOP PSU6200 Ex 1-phase, 24 V DC/20 A Stabilized power supply Input: 120 - 230 V AC/120 - 240 V DC Output: 24 V DC/20 A	**6EP3336-7SC00-3AX0**

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Accessories

SITOP BUF1200 buffer module Buffer time 300 ms at 40 A Buffer time depends on load current	**6EP4231-7HB00-0AX0**
SITOP RED1200 redundancy module Input/output: 12 V DC, 24 V, 48 V/20 A (maximum total current) Suitable for decoupling two SITOP power supplies with a maximum of 10 A output current each	**6EP4346-7RB00-0AX0**
SITOP RED1200 redundancy module Input/output: 12 V DC, 24 V, 48 V/40 A (maximum total current) Suitable for decoupling two SITOP power supplies with a maximum of 20 A output current each	**6EP4347-7RB00-0AX0**
SITOP SEL1200 Selectivity module, 4-channel, switching Input: 24 V DC Output: 24 V DC/10 A per output Adjustable response threshold 2 ... 10 A	**6EP4437-7FB00-3CX0**
SITOP SEL1200 Selectivity module, 8-channel, switching Input: 24 V DC Output: 24 V DC/5 A per output Adjustable response threshold 1 ... 5 A	**6EP4437-7FB00-3DX0**
SITOP SEL1200 Selectivity module, 8-channel, switching Input: 24 V DC Output: 24 V DC/10 A per output Adjustable response threshold 2 ... 10 A	**6EP4438-7FB00-3DX0**
SITOP SEL1400 Selectivity module, 4-channel, limiting Input: 24 V DC Output: 24 V DC/10 A per output Adjustable response threshold 2 ... 10 A	**6EP4437-7EB00-3CX0**
SITOP SEL1400 Selectivity module, 8-channel, limiting Input: 24 V DC Output: 24 V DC/5 A per output Adjustable response threshold 1 ... 5 A	**6EP4437-7EB00-3DX0**
SITOP SEL1400 Selectivity module, 8-channel, limiting Input: 24 V DC Output: 24 V DC/10 A per output Adjustable response threshold 2 ... 10 A	**6EP4438-7EB00-3DX0**
SIMATIC ET 200SP labels 160 reference labeling plates, 10 sheets (160 plates)	**6ES7193-6LF30-0AW0**
SITOP DC UPS	For more information, visit: www.siemens.com/sitop-ups/mall

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Technical specifications

Article number	6EP3331-7SB00-0AX0	6EP3332-7SB00-0AX0	6EP3333-7LB00-0AX0	6EP3333-7SB00-0AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/1.3 A	24 V/2.5 A	24 V/3.7 A	24 V/5 A
General information				
Technical Product Detail Page	https://i.siemens.com/1P6EP3331-7SB00-0AX0	https://i.siemens.com/1P6EP3332-7SB00-0AX0	https://i.siemens.com/1P6EP3333-7LB00-0AX0	https://i.siemens.com/1P6EP3333-7SB00-0AX0
input				
type of the power supply network	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC
supply voltage at AC				
• minimum rated value	120 V	120 V	120 V	120 V
• maximum rated value	240 V	240 V	240 V	240 V
• initial value	85 V	85 V	85 V	85 V
• full-scale value	264 V	264 V	264 V	264 V
supply voltage at DC	120 ... 240 V	120 ... 240 V	120 ... 240 V	120 ... 240 V
input voltage at DC	110 ... 275 V	110 ... 275 V	99 ... 275 V	99 ... 275 V
wide range input	Yes	Yes	Yes	Yes
overvoltage overload capability	300 V AC for 30 s	300 V AC for 30 s	300 V AC for 30 s	300 V AC for 30 s
buffering time for rated value of the output current in the event of power failure minimum	150 ms	150 ms	90 ms	80 ms
operating condition of the mains buffering	at Vin = 240 V	at Vin = 240 V	at Vin = 240 V	at Vin = 240 V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz
input current				
• at rated input voltage 120 V	0.6 A	1.1 A	1.5 A	1.9 A
• at rated input voltage 240 V	0.3 A	0.6 A	0.8 A	1.1 A
current limitation of inrush current at 25 °C maximum	32 A	32 A	29 A	29 A
fuse protection type	3.15 A	3.15 A	3.15 A	3.15 A
fuse protection type in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	Circuit breaker 4 A characteristic C or 6 A characteristic B/C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	Circuit breaker 4 A characteristic C or 6 A characteristic B/C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
output				
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage
number of outputs	1	1	1	1
output voltage at DC rated value	24 V	24 V	24 V	24 V
output voltage				
• at output 1 at DC rated value	24 V	24 V	24 V	24 V
	24 V	24 V	24 V	24 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	22.2 ... 26.4 V; max. 31.2 W	22.2 ... 26.4 V; max. 60 W	24 ... 28 V; max. 89 W	24 ... 28 V; max. 120 W (144 W up to 45°C)
relative overall tolerance of the voltage	3 %	3 %	3 %	3 %
relative control precision of the output voltage				
• on slow fluctuation of input voltage	0.1 %	0.1 %	0.2 %	0.1 %
• on slow fluctuation of ohm loading	0.1 %	0.1 %	0.3 %	0.2 %
residual ripple				
• maximum	30 mV	30 mV	30 mV	30 mV
• typical	20 mV	20 mV	20 mV	20 mV
voltage peak				
• maximum	30 mV	30 mV	100 mV	100 mV
• typical	20 mV	20 mV	60 mV	60 mV
display version for normal operation	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK
type of signal at output			Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K.	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K.

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Technical specifications (continued)

Article number	6EP3331-7SB00-0AX0	6EP3332-7SB00-0AX0	6EP3333-7LB00-0AX0	6EP3333-7SB00-0AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/1.3 A	24 V/2.5 A	24 V/3.7 A	24 V/5 A
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %	Overshoot of Vout approx. 3 %	Overshoot of Vout < 2 %	Overshoot of Vout < 2 %
response delay maximum	1 s	1 s	0.5 s	0.5 s
voltage increase time of the output voltage				
• typical	50 ms	100 ms	100 ms	100 ms
output current				
• rated value	1.3 A	2.5 A	3.7 A	5 A
• rated range	0 ... 1.3 A; +60 ... +70 °C: Derating 2.5%/K	0 ... 2.5 A; +60 ... +70 °C: Derating 2.5%/K	0 ... 3.7 A; +60 ... +70 °C: Derating 3%/K	0 ... 5 A; 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K
	0.0 ... 2.4 A	2.5 A	2.6 ... 4.9 A	5 A
supplied active power typical	31.2 W	60 W	89 W	120 W
short-term overload current				
• on short-circuiting during the start-up typical	1.3 A	2.5 A	3.7 A	6 A
• at short-circuit during operation typical	1.3 A	2.5 A	3.7 A	6 A
bridging of equipment	No	No	No	No
efficiency				
efficiency in percent	86.3 %	89 %	89.3 %	90.2 %
power loss [W]				
• at rated output voltage for rated value of the output current typical	5 W	7 W	11 W	13 W
• during no-load operation maximum	0.8 W	0.8 W	2.2 W	2 W
closed-loop control				
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	3 %	2 %	2 %
setting time				
• load step 10 to 90% typical	0.5 ms	1 ms	2 ms	1 ms
• load step 90 to 10% typical	0.5 ms	1 ms	2 ms	1 ms
• maximum	1 ms	2 ms	3 ms	2 ms
protection and monitoring				
design of the overvoltage protection	< 32 V	< 32 V	< 32 V	< 32 V
property of the output short-circuit proof	Yes	Yes	Yes	Yes
design of short-circuit protection	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts
• typical	1.6 A	3.1 A	3.7 A	6 A
overcurrent overload capability				
• in normal operation				overload capability 150 % Iout rated up to 5 s/min
safety				
galvanic isolation between input and output	Yes	Yes	Yes	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I	Class I	Class I	Class I
leakage current				
• maximum	3.5 mA	3.5 mA	3.5 mA	3.5 mA
protection class IP	IP20	IP20	IP20	IP20
EMC				
standard				
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals				
certificate of suitability				

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Technical specifications (continued)

Article number	6EP3331-7SB00-0AX0	6EP3332-7SB00-0AX0	6EP3333-7LB00-0AX0	6EP3333-7SB00-0AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/1.3 A	24 V/2.5 A	24 V/3.7 A	24 V/5 A
• CE marking	Yes	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• UKCA marking	Yes	Yes	Yes	Yes
• EAC approval	Yes	Yes	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes	Yes	Yes
• NEC Class 2	Yes; according to UL1310, File E151273	Yes; according to UL1310, File E151273	Yes; according to UL1310, File E151273	No
• SEMI F47	Yes	Yes	Yes	Yes
type of certification				
• BIS	Yes; R-41183539	Yes; R-41183539	Yes; R-41188271	Yes; R-41188271
• CB-certificate	Yes	Yes	Yes	Yes
standards, specifications, approvals hazardous environments				
certificate of suitability				
• IECEx	No	No	No	No
• ATEX	No	No	No	No
• ULhazloc approval	No	No	No	No
• FM registration	No	No	No	No
standards, specifications, approvals marine classification				
shipbuilding approval	Yes	Yes	Yes	Yes
Marine classification association				
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes	Yes
• French marine classification society (BV)	No	No	No	No
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	No	No	No	No
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration	Yes	Yes	Yes	Yes
global warming potential [CO2 eq]				
• total	140.9 kg	196.5 kg	296.6 kg	347.3 kg
• during manufacturing	5.2 kg	6.4 kg	18 kg	18 kg
• during operation	135.5 kg	189.8 kg	278.1 kg	328.8 kg
• after end of life	0.15 kg	0.19 kg	0.3 kg	0.3 kg
Siemens eco profile (SEP)				Siemens EcoTech
ambient conditions				
ambient temperature				
• during operation	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method				
type of electrical connection	push-in terminals	push-in terminals	push-in terminals	push-in terminals
• at input	L1/+, L2/N/-, PE: push-in for 0.5 ... 2.5 mm² single-core/finely stranded	L1/+, L2/N/-, PE: push-in for 0.5 ... 2.5 mm² single-core/finely stranded	L1/+, L2/N/-, PE: push-in for 0.5 ... 4 mm² single-core/finely stranded	L1/+, L2/N/-, PE: push-in for 0.5 ... 4 mm² single-core/finely stranded
• at output	+1, -1, -2: push-in for 0.5 ... 2.5 mm²	+1, -1, -2: push-in for 0.5 ... 2.5 mm²	+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²	+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²
• for auxiliary contacts	-	-	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²

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Technical specifications (continued)

Article number	6EP3331-7SB00-0AX0	6EP3332-7SB00-0AX0	6EP3333-7LB00-0AX0	6EP3333-7SB00-0AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/1.3 A	24 V/2.5 A	24 V/3.7 A	24 V/5 A
mechanical data				
width × height × depth of the enclosure	25 mm × 100 mm × 88 mm	40 mm × 100 mm × 88 mm	35 mm × 135 mm × 125 mm	35 mm × 135 mm × 125 mm
installation width × mounting height	25 mm × 200 mm	40 mm × 200 mm	35 mm × 225 mm	35 mm × 225 mm
required spacing				
• top	50 mm	50 mm	45 mm	45 mm
• bottom	50 mm	50 mm	45 mm	45 mm
• left	0 mm	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes	Yes	Yes
• S7 rail mounting	No	No	No	No
• wall mounting	No	No	No	No
housing can be lined up	Yes	Yes	Yes	Yes
net weight	0.2 kg	0.25 kg	0.7 kg	0.7 kg
accessories				
electrical accessories	Buffer module, redundancy module	Buffer module, redundancy module	Buffer module, redundancy module	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
identification link			Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
additional information				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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Overview



SITOP PSU6200 3-phase, 24 V family

Stabilized 3-phase power supplies with 400 to 500 V AC input in three power levels.

Product highlights

- 3-phase, 24 V DC/5 A, 10 A, 20 A and 40 A
- All variants also available in Ex-version for use in Zone 2 hazardous environments (gases, vapors or mists)
- Rugged input
  - Input voltage 323 ... 576 V AC, 450 ... 600 V DC
  - In the event of a phase failure, continuous operation with only 2 phases possible
- Enclosure
  - Attractive metal enclosure
- Can be expanded with SITOP add-on and DC UPS modules
  - BUF1200 buffer module, SEL1200/1400 selectivity modules and RED1200 redundancy modules in the design of the SITOP PSU6200

Selection and ordering data

SITOP PSU6200 3-phase, 24 V DC/5 A Stabilized power supply Input: 400-500 V 3 AC Output: 24 V DC/5 A	**6EP3433-7SB00-0AX0**
SITOP PSU6200 3-phase, 24 V DC/10 A Stabilized power supply Input: 400-500 V 3 AC Output: 24 V DC/10 A	**6EP3434-7SB00-3AX0**
SITOP PSU6200 3-phase, 24 V DC/20 A Stabilized power supply Input: 400-500 V 3 AC Output: 24 V DC/20 A	**6EP3436-7SB00-3AX0**
SITOP PSU6200, 3-phase 24 V DC/40 A Stabilized power supply Input: 400-500 V 3 AC Output: 24 V DC/40 A	**6EP3437-7SB00-3AX0**
SITOP PSU6200 Ex 3-phase, 24 V DC/5 A Stabilized power supply Input: 400 ... 500 V AC Output: 24 V DC/5 A with coated PCBs	**6EP3433-7SC00-0AX0**
SITOP PSU6200 Ex 3-phase, 24 V DC/10 A Stabilized power supply Input: 400 ... 500 V AC Output: 24 V DC/10 A with diagnostic interface with coated PCBs	**6EP3434-7SC00-3AX0**
SITOP PSU6200 Ex 3-phase, 24 V DC/20 A Stabilized power supply Input: 400 ... 500 V AC Output: 24 V DC/20 A with diagnostic interface with coated PCBs	**6EP3436-7SC00-3AX0**
SITOP PSU6200 Ex 3-phase, 24 V DC/40 A Stabilized power supply Input: 400 ... 500 V AC Output: 24 V DC/40 A with diagnostic interface with coated PCBs	**6EP3437-7SC00-3AX0**

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Accessories

SITOP BUF1200 buffer module Buffer time 300 ms at 40 A Buffer time depends on load current	**6EP4231-7HB00-0AX0**
SITOP RED1200 redundancy module Input/output: 12 V DC, 24 V, 48 V/20 A (maximum total current) Suitable for decoupling two SITOP power supplies with a maximum of 10 A output current each	**6EP4346-7RB00-0AX0**
SITOP RED1200 redundancy module Input/output: 12 V DC, 24 V, 48 V/40 A (maximum total current) Suitable for decoupling two SITOP power supplies with a maximum of 20 A output current each	**6EP4347-7RB00-0AX0**
SITOP SEL1200 Selectivity module, 8-channel, switching Input: 24 V DC Output: 24 V DC/10 A per output Adjustable response threshold 2 ... 10 A	**6EP4438-7FB00-3DX0**
SITOP SEL1400 Selectivity module, 8-channel, limiting Input: 24 V DC Output: 24 V DC/10 A per output Adjustable response threshold 2 ... 10 A	**6EP4438-7EB00-3DX0**
SIMATIC ET 200SP labels 160 reference labeling plates, 10 sheets (160 plates)	**6ES7193-6LF30-0AW0**
SITOP DC UPS	For more information, visit: www.siemens.com/sitop-ups/mall

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Technical specifications

Article number	6EP3433-7SB00-0AX0	6EP3434-7SB00-3AX0	6EP3436-7SB00-3AX0	6EP3437-7SB00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
General information				
Technical Product Detail Page	https://i.siemens.com/1P6EP3433-7SB00-0AX0	https://i.siemens.com/1P6EP3434-7SB00-3AX0	https://i.siemens.com/1P6EP3436-7SB00-3AX0	https://i.siemens.com/1P6EP3437-7SB00-3AX0
input				
type of the power supply network	3-phase AC or DC	3-phase AC or DC	3-phase AC or DC	3-phase AC or DC
supply voltage at AC				
• minimum rated value	400 V	400 V	400 V	400 V
• maximum rated value	500 V	500 V	500 V	500 V
• initial value	323 V	323 V	323 V	323 V
• full-scale value	576 V	576 V	576 V	576 V
supply voltage at DC	500 ... 550 V	500 ... 550 V	500 ... 550 V	500 ... 550 V
input voltage at DC	450 ... 600 V	450 ... 600 V	450 ... 600 V	450 ... 600 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms	30 ms	25 ms	18 ms
operating condition of the mains buffering	at Vin = 400 V	at Vin = 400 V	at Vin = 400 V	at Vin = 400 V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz
input current				
• at rated input voltage 400 V	0.33 A	0.39 A	0.77 A	1.5 A
• at rated input voltage 500 V	0.28 A	0.32 A	0.62 A	1.2 A
current limitation of inrush current at 25 °C maximum	22 A	13 A	17 A	10 A
fuse protection type in the feeder	three-poled coupled circuit breaker from 4 A characteristic C to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
output				
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage
number of outputs	1	1	1	1
output voltage at DC rated value	24 V	24 V	24 V	24 V
output voltage				
• at output 1 at DC rated value	24 V	24 V	24 V	24 V
	24 V	24 V	24 V	24 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	24 ... 28 V; max. 120 W (144 W up to 45°C)	24 ... 28 V; max. 240 W (288 W up to 45°C)	24 ... 28 V; max. 480 W (576 W up to 45°C)	24 ... 28 V; max. 960 W (1152 W up to 45°C)
relative overall tolerance of the voltage	3 %	3 %	3 %	3 %
relative control precision of the output voltage				
• on slow fluctuation of input voltage	0.6 %	0.2 %	0.2 %	0.2 %
• on slow fluctuation of ohm loading	0.6 %	0.1 %	0.1 %	0.1 %
residual ripple				
• maximum	30 mV	30 mV	30 mV	80 mV
• typical	20 mV	20 mV	20 mV	50 mV
voltage peak				
• maximum	30 mV	30 mV	30 mV	80 mV
• typical	20 mV	20 mV	20 mV	30 mV
display version for normal operation	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK
type of signal at output	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K.	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface
behavior of the output voltage when switching on	Overshoot of Vout < 2 %	Overshoot of Vout < 2 %	Overshoot of Vout < 2 %	Overshoot of Vout < 2 %

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Technical specifications (continued)

Article number	6EP3433-7SB00-0AX0	6EP3434-7SB00-3AX0	6EP3436-7SB00-3AX0	6EP3437-7SB00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
response delay maximum	0.5 s	0.5 s	0.5 s	0.5 s
voltage increase time of the output voltage				
• typical	100 ms	100 ms	100 ms	100 ms
output current				
• rated value	5 A	10 A	20 A	40 A
• rated range	0 ... 5 A; 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K	0 ... 10 A; 12 A up to +45°C; +60 ... +70 °C: Derating 3%/K	0 ... 20 A; 24 A up to +45°C; +60 ... +70 °C: Derating 3%/K	0 ... 40 A; 48 A up to +45°C; +60 ... +70 °C: Derating 3%/K
	5 A	10 A	20 A	40 A
supplied active power typical	120 W	240 W	480 W	960 W
short-term overload current				
• on short-circuiting during the start-up typical	6 A	12 A	24 A	48 A
• at short-circuit during operation typical	6 A	12 A	24 A	48 A
parallel switching of outputs		can be set with DIP switch	can be set with DIP switch	can be set with DIP switch
bridging of equipment	No	Yes; switchable characteristic	Yes; switchable characteristic	Yes; switchable characteristic
number of parallel-switched equipment resources		2	2	2
efficiency				
efficiency in percent	91.2 %	95.4 %	95.9 %	96 %
power loss [W]				
• at rated output voltage for rated value of the output current typical	11 W	12 W	23 W	40 W
• during no-load operation maximum	2 W	2.9 W	2.9 W	4.5 W
closed-loop control				
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	2 %	3 %	2 %
setting time				
• load step 10 to 90% typical	1 ms	1 ms	2 ms	2 ms
• load step 90 to 10% typical	1 ms	1 ms	2 ms	10 ms
• maximum	2 ms	2 ms	3 ms	10 ms
protection and monitoring				
design of the overvoltage protection	< 32 V	< 32 V	< 32 V	< 32 V
property of the output short-circuit proof	Yes	Yes	Yes	Yes
design of short-circuit protection	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts
• typical	6 A	12 A	24 A	48 A
overcurrent overload capability				
• in normal operation	overload capability 150 % Iout rated up to 5 s/min	overload capability 150 % Iout rated up to 5 s/min	overload capability 150 % Iout rated up to 5 s/min	overload capability 150 % Iout rated up to 5 s/min
safety				
galvanic isolation between input and output	Yes	Yes	Yes	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I	Class I	Class I	Class I
leakage current				
• maximum	3.5 mA	3.5 mA	3.5 mA	3.5 mA
protection class IP	IP20	IP20	IP20	IP20
EMC				
standard				
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2

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Technical specifications (continued)

Article number	6EP3433-7SB00-0AX0	6EP3434-7SB00-3AX0	6EP3436-7SB00-3AX0	6EP3437-7SB00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
standards, specifications, approvals				
certificate of suitability				
• CE marking	Yes	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• UKCA marking	Yes	Yes	Yes	Yes
• EAC approval	Yes	Yes	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes	Yes	Yes
• NEC Class 2	No	No	No	No
• SEMI F47	Yes	Yes	Yes	Yes
type of certification				
• BIS	Yes; R-41188271	Yes; R-41188271	Yes; R-41188271	Yes; R-41183539
• CB-certificate	Yes	Yes	Yes	Yes
standards, specifications, approvals hazardous environments				
certificate of suitability				
• IECEx	No	No	No	No
• ATEX	No	No	No	No
• ULhazloc approval	No	No	No	No
• FM registration	No	No	No	No
standards, specifications, approvals marine classification				
shipbuilding approval	Yes	Yes	Yes	Yes
Marine classification association				
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes	Yes
• French marine classification society (BV)	No	No	No	No
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	No	No	No	No
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration	Yes	Yes	Yes	Yes
global warming potential [CO2 eq]				
• total	296.6 kg	327.6 kg	621.62 kg	1 067.5 kg
• during manufacturing	18 kg	23.1 kg	38.5 kg	53.9 kg
• during operation	278.1 kg	303.8 kg	582 kg	1 012.1 kg
• after end of life	0.3 kg	0.38 kg	0.633 kg	0.89 kg
Siemens eco profile (SEP)	Siemens EcoTech	Siemens EcoTech	Siemens EcoTech	Siemens EcoTech
ambient conditions				
ambient temperature				
• during operation	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method				
type of electrical connection	push-in terminals	push-in terminals	push-in terminals	push-in terminals
• at input	L1, L2, L3, PE: push-in for 0.5 ... 6 mm²	L1, L2, L3, PE: push-in for 0.5 ... 6 mm²	L1, L2, L3, PE: push-in for 0.5 ... 10 mm²	L1, L2, L3, PE: push-in for 0.5 ... 10 mm²
• at output	+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²	+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²	+1, +2, -1, -2, -3: push-in for 0.5 ... 6 mm²	+1, +2, -1, -2, -3: push-in for 0.75 ... 16 mm²
• for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²

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Technical specifications (continued)

Article number	6EP3433-7SB00-0AX0	6EP3434-7SB00-3AX0	6EP3436-7SB00-3AX0	6EP3437-7SB00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
mechanical data				
width × height × depth of the enclosure	35 mm × 135 mm × 125 mm	45 mm × 135 mm × 155 mm	70 mm × 135 mm × 155 mm	95 mm × 135 mm × 155 mm
installation width × mounting height	35 mm × 225 mm	45 mm × 225 mm	70 mm × 225 mm	95 mm × 225 mm
required spacing				
• top	45 mm	45 mm	45 mm	45 mm
• bottom	45 mm	45 mm	45 mm	45 mm
• left	0 mm	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes	Yes	Yes
• S7 rail mounting	No	No	No	No
• wall mounting	No	No	No	No
housing can be lined up	Yes	Yes	Yes	Yes
net weight	0.7 kg	0.9 kg	1.5 kg	2.1 kg
accessories				
electrical accessories	Buffer module, redundancy module	Buffer module, redundancy module	Buffer module, redundancy module	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
additional information				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

Article number	6EP3433-7SC00-0AX0	6EP3434-7SC00-3AX0	6EP3436-7SC00-3AX0	6EP3437-7SC00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
General information				
Technical Product Detail Page	https://i.siemens.com/1P6EP3433-7SC00-0AX0	https://i.siemens.com/1P6EP3434-7SC00-3AX0	https://i.siemens.com/1P6EP3436-7SC00-3AX0	https://i.siemens.com/1P6EP3437-7SC00-3AX0
input				
type of the power supply network	3-phase AC or DC	3-phase AC or DC	3-phase AC or DC	3-phase AC or DC
supply voltage at AC				
• minimum rated value	400 V	400 V	400 V	400 V
• maximum rated value	500 V	500 V	500 V	500 V
• initial value	323 V	323 V	323 V	323 V
• full-scale value	576 V	576 V	576 V	576 V
supply voltage at DC	500 ... 550 V	500 ... 550 V	500 ... 550 V	500 ... 550 V
input voltage at DC	450 ... 600 V	450 ... 600 V	450 ... 600 V	450 ... 600 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms	30 ms	25 ms	18 ms
operating condition of the mains buffering	at Vin = 400 V	at Vin = 400 V	at Vin = 400 V	at Vin = 400 V

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Technical specifications (continued)

Article number	6EP3433-7SC00-0AX0	6EP3434-7SC00-3AX0	6EP3436-7SC00-3AX0	6EP3437-7SC00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz
input current				
• at rated input voltage 400 V	0.33 A	0.39 A	0.77 A	1.5 A
• at rated input voltage 500 V	0.28 A	0.32 A	0.62 A	1.2 A
current limitation of inrush current at 25 °C maximum	22 A	13 A	17 A	10 A
fuse protection type in the feeder	three-poled coupled circuit breaker from 4 A characteristic C to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
output				
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage
number of outputs	1	1	1	1
output voltage at DC rated value	24 V	24 V	24 V	24 V
output voltage				
• at output 1 at DC rated value	24 V	24 V	24 V	24 V
	24 V	24 V	24 V	24 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	24 ... 28 V; max. 120 W (144 W up to 45°C)	24 ... 28 V; max. 240 W (288 W up to 45°C)	24 ... 28 V; max. 480 W (576 W up to 45°C)	24 ... 28 V; max. 960 W (1152 W up to 45°C)
relative overall tolerance of the voltage	3 %	3 %	3 %	3 %
relative control precision of the output voltage				
• on slow fluctuation of input voltage	0.6 %	0.2 %	0.2 %	0.2 %
• on slow fluctuation of ohm loading	0.6 %	0.1 %	0.1 %	0.1 %
residual ripple				
• maximum	30 mV	30 mV	30 mV	80 mV
• typical	20 mV	20 mV	20 mV	50 mV
voltage peak				
• maximum	30 mV	30 mV	30 mV	80 mV
• typical	20 mV	20 mV	20 mV	30 mV
display version for normal operation	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK
type of signal at output	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K.	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface
behavior of the output voltage when switching on	Overshoot of Vout < 2 %	Overshoot of Vout < 2 %	Overshoot of Vout < 2 %	Overshoot of Vout < 2 %
response delay maximum	0.5 s	0.5 s	0.5 s	0.5 s
voltage increase time of the output voltage				
• typical	100 ms	100 ms	100 ms	100 ms
output current				
• rated value	5 A	10 A	20 A	40 A
• rated range	0 ... 5 A; 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K	0 ... 10 A; 12 A up to +45°C; +60 ... +70 °C: Derating 3%/K	0 ... 20 A; 24 A up to +45°C; +60 ... +70 °C: Derating 3%/K	0 ... 40 A; 48 A up to +45°C; +60 ... +70 °C: Derating 3%/K
	5 A	10 A	20 A	40 A
supplied active power typical	120 W	240 W	480 W	960 W
short-term overload current				
• on short-circuiting during the start-up typical	6 A	12 A	24 A	48 A
• at short-circuit during operation typical	6 A	12 A	24 A	48 A
parallel switching of outputs		can be set with DIP switch	can be set with DIP switch	can be set with DIP switch

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Technical specifications (continued)

Article number	6EP3433-7SC00-0AX0	6EP3434-7SC00-3AX0	6EP3436-7SC00-3AX0	6EP3437-7SC00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
bridging of equipment	No	Yes; switchable characteristic	Yes; switchable characteristic	Yes; switchable characteristic
number of parallel-switched equipment resources		2	2	2
efficiency				
efficiency in percent	91.2 %	95.4 %	95.9 %	96 %
power loss [W]				
• at rated output voltage for rated value of the output current typical	11 W	12 W	23 W	40 W
• during no-load operation maximum	2 W	2.9 W	2.9 W	4.5 W
closed-loop control				
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	2 %	3 %	2 %
setting time				
• load step 10 to 90% typical	1 ms	1 ms	2 ms	2 ms
• load step 90 to 10% typical	1 ms	1 ms	2 ms	10 ms
• maximum	2 ms	2 ms	3 ms	10 ms
protection and monitoring				
design of the overvoltage protection	< 32 V	< 32 V	< 32 V	< 32 V
property of the output short-circuit proof	Yes	Yes	Yes	Yes
design of short-circuit protection	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts	Shutdown and periodic restart attempts
• typical	6 A	12 A	24 A	48 A
overcurrent overload capability				
• in normal operation	overload capability 150 % Iout rated up to 5 s/min	overload capability 150 % Iout rated up to 5 s/min	overload capability 150 % Iout rated up to 5 s/min	overload capability 150 % Iout rated up to 5 s/min
safety				
galvanic isolation between input and output	Yes	Yes	Yes	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I	Class I	Class I	Class I
leakage current				
• maximum	3.5 mA	3.5 mA	3.5 mA	3.5 mA
protection class IP	IP20	IP20	IP20	IP20
EMC				
standard				
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals				
certificate of suitability				
• CE marking	Yes	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• UKCA marking	Yes	Yes	Yes	Yes
• EAC approval	Yes	Yes	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes	Yes	Yes
• NEC Class 2	No	No	No	No
• SEMI F47	Yes	Yes	Yes	Yes
type of certification				
• BIS	Yes; R-41188271	Yes; R-41188271	Yes; R-41188271	
• CB-certificate	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6EP3433-7SC00-0AX0	6EP3434-7SC00-3AX0	6EP3436-7SC00-3AX0	6EP3437-7SC00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
standards, specifications, approvals hazardous environments				
certificate of suitability				
• IECEx	Yes; IECEx Ex ec IIC T4 Gc	Yes; IECEx Ex ec IIC T4 Gc	Yes; IECEx Ex ec IIC T4 Gc	Yes; IECEx Ex ec IIC T4 Gc
• ATEX	Yes; ATEX (EX) II 3G Ex ec IIC T4 Gc	Yes; ATEX (EX) II 3G Ex ec IIC T4 Gc	Yes; ATEX (EX) II 3G Ex ec IIC T4 Gc	Yes; ATEX (EX) II 3G Ex ec IIC T4 Gc
• ULhazloc approval	Yes	Yes	Yes	Yes
• UKEX	Yes	Yes	Yes	Yes
• CCC for hazardous zone according to GB standard	Yes	Yes	Yes	Yes
• FM registration	No	No	No	No
standards, specifications, approvals marine classification				
shipbuilding approval	Yes	Yes	Yes	Yes
Marine classification association				
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes	Yes
• French marine classification society (BV)	No	No	No	No
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	No	No	No	No
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration	Yes	Yes	Yes	Yes
global warming potential [CO2 eq]				
• total	296.6 kg	327.6 kg	621.6 kg	1 067.5 kg
• during manufacturing	18 kg	23.1 kg	38.5 kg	53.9 kg
• during operation	278.1 kg	303.8 kg	582 kg	1 012.1 kg
• after end of life	0.3 kg	0.38 kg	0.63 kg	0.89 kg
ambient conditions				
ambient temperature				
• during operation	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method				
type of electrical connection	push-in terminals	push-in terminals	push-in terminals	push-in terminals
• at input	L1, L2, L3, PE: push-in for 0.5 ... 6 mm²	L1, L2, L3, PE: push-in for 0.5 ... 6 mm²	L1, L2, L3, PE: push-in for 0.5 ... 10 mm²	L1, L2, L3, PE: push-in for 0.5 ... 10 mm²
• at output	+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²	+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²	+1, +2, -1, -2, -3: push-in for 0.5 ... 6 mm²	+1, +2, -1, -2, -3: push-in for 0.75 ... 16 mm²
• for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²
mechanical data				
width × height × depth of the enclosure	35 mm × 135 mm × 125 mm	45 mm × 135 mm × 155 mm	70 mm × 135 mm × 155 mm	95 mm × 135 mm × 155 mm
installation width × mounting height	35 mm × 225 mm	45 mm × 225 mm	70 mm × 225 mm	95 mm × 225 mm
required spacing				
• top	45 mm	45 mm	45 mm	45 mm
• bottom	45 mm	45 mm	45 mm	45 mm
• left	0 mm	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes	Yes	Yes

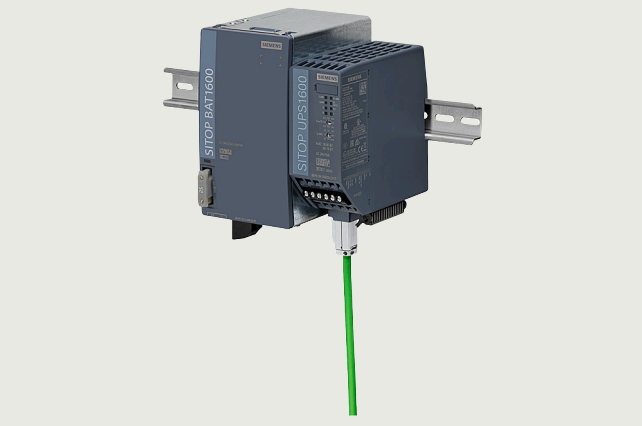
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Technical specifications (continued)

Article number	6EP3433-7SC00-0AX0	6EP3434-7SC00-3AX0	6EP3436-7SC00-3AX0	6EP3437-7SC00-3AX0
product brand name	SITOP	SITOP	SITOP	SITOP
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A
• S7 rail mounting	No	No	No	No
• wall mounting	No	No	No	No
housing can be lined up	Yes	Yes	Yes	Yes
net weight	0.7 kg	0.9 kg	1.5 kg	2.1 kg
accessories				
electrical accessories	Buffer module, redundancy module	Buffer module, redundancy module	Buffer module, redundancy module	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
additional information				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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Overview



SITOP offers a comprehensive portfolio to protect against power failures with durations from a few seconds to several hours, ranging from buffer modules to system-integrated DC UPS units. Selection is based on the energy storage unit used, the associated ambient conditions, performance and functionality.

The selection matrix should help you to find the right 24 V buffering for your application:

SITOP modules for 24 V buffering	Buffer module [1]	DC UPS with capacitors	DC UPS with rechargeable battery		
	SITOP PSE201U SITOP BUF1200	SITOP UPS500S + SITOP UPS501S expansion modules	SITOP UPS1600 + SITOP BAT1600 battery modules	SITOP UPS1600 + SITOP UPS1100 battery modules	SITOP DC UPS + Battery module
Energy storage units					
24 V buffering up to	240 s	Minutes	Hours	Hours	Hours
Storage medium	Electrolytic capacitors	Double-layer capacitors	Lead gel batteries (Pb), lithium iron phosphate (LiFePO4) batteries	Lead gel batteries (Pb), pure lead batteries (pure Pb)	Lead gel batteries, pure lead batteries (Pure Pb)
Battery service life dependent on temperature. Specified time indicates the drop of the original capacity to 80% for lead-acid batteries.	0 ... +50 °C: > 8 years	0 ... +50 °C: > 8 years	Pb: +20 ... +40 °C: 4 ... 1 years (LiFePO4: +20 ... +40 °C: 11 ... 8 years)	Pb: +20 ... +40 °C: 4 ... 1 years (Pure Pb:+20 ... +60 °C: > 10 ... 1 years)	Pb: +20 ... +40 °C: 4 ... 1 years (Pure Pb:+20 ... +60 °C: > 10 ... 1 years)
Operating temperature range of battery	-25 ... +70 °C	0 ... +60 °C	Pb: -15 ... +50 °C LiFePO4: -10 ... +50 °C	Pb: -15 ... +50 °C Pure Pb: -40 ... +60 °C	Pb: -15 ... +50 °C Pure Pb: -40 ... +60 °C
Capacity selection	200 ... 300 ms/40 A	2.5 ... 20 kWs	Pb: 3.2 ... 228 Ah LiFePO4: 2.5 ... 45 Ah	Pb: 1.2 ... 72 Ah Pure Pb: 2.5 ... 15 Ah	Pb: 1.2 ... 72 Ah Pure Pb: 2.5 ... 15 Ah
Energy storage management	Passive	Charging current limiting, buffer readiness	Temperature-controlled charging, state of health modeling, buffer readiness	Temperature-controlled charging, buffer readiness	Charging current limiting, buffer readiness
Ventilation required	-	-	- LiFePO4 • Pb, pure Pb	• Pb, pure Pb	• Pb, pure Pb
UPS module/electronics					
Max. rated output current	40 A	15 A	40 A	40 A	40 A
Max. dynamic overload current	40 A (200 ms/300 ms)	25 A (200 ms)	120 A (30 ms) / 60 A (5 s/min)	120 A (30 ms) / 60 A (5 s/min)	56 A (80 ms)
Interfaces	-	I/O, USB	I/O, USB, OPC UA, Ethernet/ PROFINET	I/O, USB, OPC UA, Ethernet/ PROFINET	I/O, serial, USB
Information about operation and diagnostic information via					
• Signaling contact	-	•	•	•	•
• OPC servers	-	•	•	•	•
• Web server	-	-	•	•	-
• OPC UA server	-	-	•	•	-
• S7 function blocks	-	-	•	•	-
• Library for SIMATIC PCS 7	-	-	•	•	-
• WinCC faceplate	-	-	•	•	-
Shutdown of multiple PCs/PLCs	-	-	•	•	-
Starting from the battery, without supply voltage (stand-alone mode)	-	-	•	•	-

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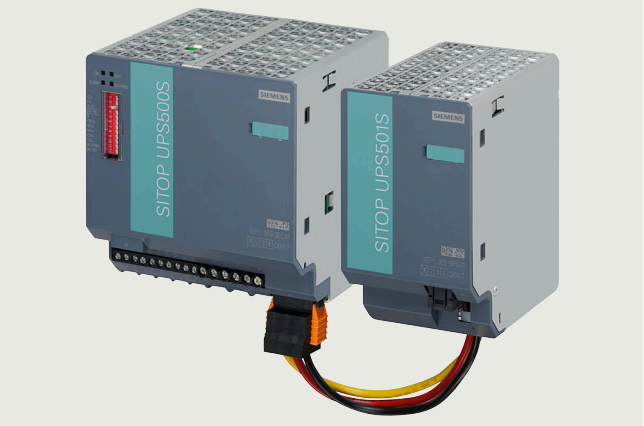
Overview (continued)

SITOP modules for 24 V buffering	Buffer module [1]	DC UPS with capacitors	DC UPS with rechargeable battery		
	SITOP PSE201U SITOP BUF1200	SITOP UPS500S + SITOP UPS501S expansion modules	SITOP UPS1600 + SITOP BAT1600 battery modules	SITOP UPS1600 + SITOP UPS1100 battery modules	SITOP DC UPS + Battery module
Engineering via					
• Software tool (PC)	-	•	•	•	•
• TIA Portal	-	-	•	•	-
• SIMATIC STEP 7	-	-	•	•	-
• SIMATIC PCS 7	-	-	•	•	-
Degree of protection	IP20	IP20	IP00	IP00	IP00

[1] You can find technical specifications under "Add-on modules/Buffer module" http://www.siemens.com/sitop-buffering/mall

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Overview



SITOP 24 V power supplies can be expanded with a SITOP UPS500 uninterruptible DC power supply (DC UPS) for bridging short-term power failures in the order of minutes. In PC-based automation solutions, the highly capacitive double-layer capacitors of the SITOP UPS500 supply enough energy to safeguard operating and application data and close software applications in a defined manner. You can increase the buffer times using SITOP PSU501S expansion modules (up to 3).

Selection and ordering data

SITOP UPS500S	
DC UPS basic device 15 A	
• With USB interface and 2.5 kWs	**6EP1933-2EC41**
• With USB interface and 5 kWs	**6EP1933-2EC51**
SITOP UPS500S Ex	
• With USB interface and 5 kWs	**6EP1933-2EC51-8AA0**
SITOP UPS501S	
Expansion module 5 kWs for UPS500S	**6EP1935-5PG01**
SITOP UPS501S Ex	
Expansion module 5 kWs for UPS500S	**6EP1935-5PG01-8AA0**

Accessories

Device identification label	**3RT2900-1SB20**

Technical specifications

The UPS500S can be extended to 20 kW using UPS501S expansion modules (basic unit 5 kW + 3 expansion modules) to extend the buffer time.

The charging current can be set to 1 A or 2 A with the UPS500S.

Selection table SITOP UPS500 (optional with SITOP UPS501S expansion module) and mains buffering times

Buffer and charging times SITOP UPS500S/501S configurations								
Basic unit	2.5 kWs	5 kWs	2.5 kWs	5 kWs	2.5 kWs	5 kWs	2.5 kWs	5 kWs
Expansion modules	-	-	1 × 5 kWs	1 × 5 kWs	2 × 5 kWs	2 × 5 kWs	3 × 5 kWs	3 × 5 kWs
Total energy	2.5 kWs	5 kWs	7.5 kWs	10 kWs	12.5 kWs	15 kWs	17.5 kWs	20 kWs
Load current	**Buffer times**							
0.5 A	134 s	236 s	390 s	478 s	632 s	748 s	851 s	1007 s
0.8 A	90 s	167 s	266 s	346 s	440 s	527 s	580 s	706 s
1 A	75 s	138 s	219 s	296 s	365 s	414 s	490 s	572 s
2 A	38 s	76 s	122 s	156 s	203 s	230 s	265 s	306 s
3 A	26 s	52 s	82 s	106 s	136 s	159 s	186 s	213 s
4 A	19 s	39 s	61 s	81 s	101 s	120 s	139 s	160 s
5 A	15 s	31 s	49 s	65 s	81 s	95 s	111 s	130 s
6 A	12 s	26 s	40 s	55 s	67 s	80 s	94 s	106 s
7 A	10 s	21 s	34 s	47 s	58 s	69 s	81 s	82 s
8 A	8 s	18 s	29 s	40 s	50 s	59 s	69 s	79 s
10 A	6 s	15 s	23 s	32 s	39 s	47 s	54 s	62 s
12 A	4 s	12 s	19 s	26 s	32 s	38 s	44 s	52 s
15 A	3 s	9 s	14 s	20 s	25 s	30 s	35 s	40 s
Charging current	**Charging times**							
2 A	54 s	120 s	158 s	223 s	263 s	318 s	355 s	417 s
1 A	110 s	205 s	311 s	425 s	503 s	625 s	695 s	816 s

Important information for selecting the energy storage units:
When the mains buffering times were determined, the discharge period of new or non-aged, completely charged capacitors was used as a basis. At a continuous ambient temperature of +50 °C, a loss of capacity of approx. 20% must be considered after a service life of 8 years.

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Technical specifications

Article number	6EP1933-2EC41	6EP1933-2EC51	6EP1933-2EC51-8AA0
product brand name	SITOP	SITOP	SITOP
type of current supply	Basic unit 2.5 kWs	Basic unit 5 kWs	Basic unit 5 kWs
General information			
Technical Product Detail Page	https://i.siemens.com/1P6EP1933-2EC41	https://i.siemens.com/1P6EP1933-2EC51	https://i.siemens.com/1P6EP1933-2EC51-8AA0
input			
supply voltage at DC rated value	24 V	24 V	24 V
input voltage at DC	22 ... 29 V	22 ... 29 V	22 ... 29 V
adjustable response value voltage for buffer connection preset	22.5 V	22.5 V	22.5 V
adjustable response value voltage for buffer connection	22 ... 25.5 V; Adjustable in 0.5 V increments	22 ... 25.5 V; Adjustable in 0.5 V increments	22 ... 25.5 V; Adjustable in 0.5 V increments
input current at rated input voltage 24 V rated value	15.2 A; + approx. 2.3 A with empty energy storage (capacitor)	15.2 A; + approx. 2.3 A with empty energy storage (capacitor)	15.2 A; + approx. 2.3 A with empty energy storage (capacitor)
memory			
type of energy storage	with capacitors	with capacitors	with capacitors
design of the mains power cut bridging-connection	15 A for 3 s or 10 A for 6 s or 5 A for 15 s or 2 A for 38 s; longer buffering times with expansion modules	15 A for 9 s or 10 A for 15 s or 5 A for 31 s or 2 A for 76 s; longer buffering times with expansion modules	15 A for 9 s or 10 A for 15 s or 5 A for 31 s or 2 A for 76 s; longer buffering times with expansion modules
buffering time in the event of power failure	0.05 min	0.15 min	0.15 min
energy content of energy storage	2.5 kW.s	5 kW.s	5 kW.s
output			
output voltage			
• in normal operation at DC rated value	24 V	24 V	24 V
• in buffering mode at DC rated value	24 V	24 V	24 V
startup delay time typical	0.6 s	0.6 s	0.6 s
voltage increase time of the output voltage typical	25 ms	25 ms	25 ms
output voltage in buffering mode at DC	24 ... 24.7 V	24 ... 24.7 V	24 ... 24.7 V
output current			
• rated value	15 A	15 A	15 A
• in normal operation	0 ... 15 A	0 ... 15 A	0 ... 15 A
• in buffering mode	0 ... 15 A	0 ... 15 A	0 ... 15 A
peak current	25 A	25 A	25 A
property of the output short-circuit proof	Yes	Yes	Yes
charging current	1 A - 2 A	1 A - 2 A	1 A - 2 A
efficiency			
efficiency in percent			
• at rated output voltage for rated value of the output current typical	97.5 %	97.5 %	97.5 %
power loss [W]			
• at rated output voltage for rated value of the output current typical	9 W	9 W	9 W
supplied active power typical	360 W	360 W	360 W
protection and monitoring			
product function			
• reverse polarity protection against energy storage unit polarity reversal	Yes	Yes	Yes
• reverse polarity protection against input voltage polarity reversal	Yes	Yes	Yes
display version			

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Technical specifications (continued)

Article number	6EP1933-2EC41	6EP1933-2EC51	6EP1933-2EC51-8AA0
product brand name	SITOP	SITOP	SITOP
type of current supply	Basic unit 2.5 kWs	Basic unit 5 kWs	Basic unit 5 kWs
• for normal operation	Normal operation: LED green (OK), floating changeover contact "OK/Bat" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); lack of buffer standby: LED red (ALARM), floating changeover contact "ALARM/BAT" to setting "ALARM"; energy storage > 85%: LED green (BAT > 85%), floating NO contact "BAT > 85" closed; permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "OK/Bat" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); lack of buffer standby: LED red (ALARM), floating changeover contact "ALARM/BAT" to setting "ALARM"; energy storage > 85%: LED green (BAT > 85%), floating NO contact "BAT > 85" closed; permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "OK/Bat" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); lack of buffer standby: LED red (ALARM), floating changeover contact "ALARM/BAT" to setting "ALARM"; energy storage > 85%: LED green (BAT > 85%), floating NO contact "BAT > 85" closed; permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (BAT), floating changeover contact "OK/BAT" to setting "BAT"; Prewarning buffer end after expiry of 80% of the available buffer time: LED red (ALARM), floating changeover contact "ALARM/BAT" to setting "ALARM"; Energy storage > 85%: LED green (BAT > 85%), floating NO contact "BAT > 85" closed	Buffered mode: LED yellow (BAT), floating changeover contact "OK/BAT" to setting "BAT"; Prewarning buffer end after expiry of 80% of the available buffer time: LED red (ALARM), floating changeover contact "ALARM/BAT" to setting "ALARM"; Energy storage > 85%: LED green (BAT > 85%), floating NO contact "BAT > 85" closed	Buffered mode: LED yellow (BAT), floating changeover contact "OK/BAT" to setting "BAT"; Prewarning buffer end after expiry of 80% of the available buffer time: LED red (ALARM), floating changeover contact "ALARM/BAT" to setting "ALARM"; Energy storage > 85%: LED green (BAT > 85%), floating NO contact "BAT > 85" closed
interfaces			
product component PC interface	Yes	Yes	Yes
product function communication function	No	No	No
design of the interface	USB	USB	USB
safety			
galvanic isolation between input and output	No	No	No
operating resource protection class	Class III	Class III	Class III
protection class IP	IP20	IP20	IP20
standard			
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals			
certificate of suitability			
• CE marking	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes
• UKCA marking			Yes
• EAC approval	Yes	Yes	
MTBF at 40 °C	638 570 h	459 137 h	459 137 h
standards, specifications, approvals hazardous environments			
certificate of suitability			
• IECEx			Yes
• ATEX			Yes; ATEX (Ex) II 3G Ex ec nC IIC T4 Gc
• CCC for hazardous zone according to GB standard			Yes
standards, specifications, approvals marine classification			
shipbuilding approval	Yes	Yes	No
Marine classification association			
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	No
• Det Norske Veritas (DNV)	Yes	Yes	No; in preparation
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes
global warming potential [CO2 eq]			
• total	270.3 kg	270.3 kg	270.3 kg

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Technical specifications (continued)

Article number	6EP1933-2EC41	6EP1933-2EC51	6EP1933-2EC51-8AA0
product brand name	SITOP	SITOP	SITOP
type of current supply	Basic unit 2.5 kWs	Basic unit 5 kWs	Basic unit 5 kWs
• during manufacturing	41 kg	41 kg	41 kg
• during operation	228.1 kg	228.1 kg	228.1 kg
• after end of life	0.76 kg	0.76 kg	0.76 kg
ambient conditions			
ambient temperature			
• during operation	0 ... 60 °C; with natural convection	0 ... 60 °C; with natural convection	0 ... 60 °C; with natural convection
• during transport	-40 ... +70 °C	-40 ... +70 °C	-40 ... +70 °C
• during storage	-40 ... +70 °C	-40 ... +70 °C	-40 ... +70 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method			
type of electrical connection	screw terminal	screw terminal	screw terminal
• at input	24 V DC: 2 screw terminals for 1 ... 4 mm²/17 ... 11 AWG	24 V DC: 2 screw terminals for 1 ... 4 mm²/17 ... 11 AWG	24 V DC: 2 screw terminals for 1 ... 4 mm²/17 ... 11 AWG
• at output	24 V DC: 4 screw terminals for 1 ... 4 mm²/17 ... 11 AWG	24 V DC: 4 screw terminals for 1 ... 4 mm²/17 ... 11 AWG	24 V DC: 4 screw terminals for 1 ... 4 mm²/17 ... 11 AWG
• for control circuit and status message	10 screw terminals for 0.5 ... 2.5 mm²/20 ... 13 AWG	10 screw terminals for 0.5 ... 2.5 mm²/20 ... 13 AWG	10 screw terminals for 0.5 ... 2.5 mm²/20 ... 13 AWG
mechanical data			
width × height × depth of the enclosure	120 mm × 125 mm × 125 mm	120 mm × 125 mm × 125 mm	120 mm × 125 mm × 125 mm
installation width × mounting height	120 mm × 225 mm	120 mm × 225 mm	120 mm × 225 mm
required spacing			
• top	50 mm	50 mm	50 mm
• bottom	50 mm	50 mm	50 mm
• left	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes	Yes
• S7 rail mounting	No	No	No
• wall mounting	No	No	No
housing can be lined up	Yes	Yes	Yes
net weight	1 kg	1 kg	1 kg
accessories			
electrical accessories	Extension module SITOP UPS501S	Extension module SITOP UPS501S	Extension module SITOP UPS501S
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial

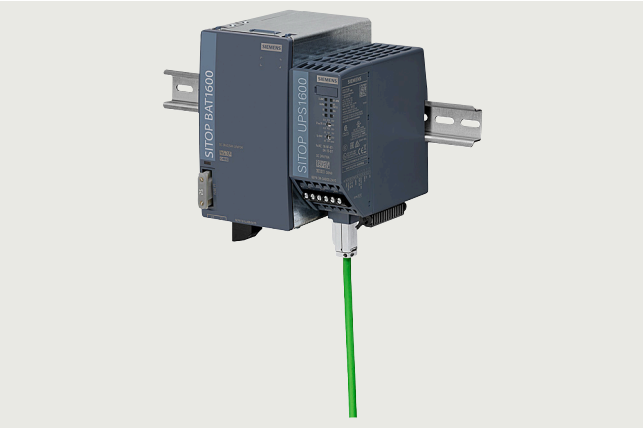
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Technical specifications (continued)

Article number	6EP1933-2EC41	6EP1933-2EC51	6EP1933-2EC51-8AA0
product brand name	SITOP	SITOP	SITOP
type of current supply	Basic unit 2.5 kWs	Basic unit 5 kWs	Basic unit 5 kWs
	cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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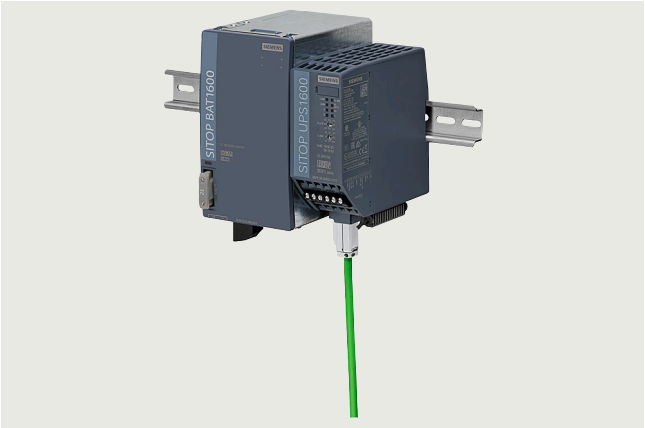
Overview



SITOP 24 V power supply units can be expanded with an uninterruptible DC power supply (DC UPS) with battery modules for bridging power failures in the order of hours. Cost-intensive downtimes and undefined system states can thus be avoided. In addition, the innovative SITOP UPS1600 offers new options for diagnostics and system integration. They offer comprehensive functions, open communication via USB or Ethernet/PROFINET, and are fully integrated in Totally Integrated Automation (TIA).

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Overview



By combining one DC UPS module SITOP UPS1600 with at least one BAT1600 battery module or a CAS1600 capacitor module and a SITOP power supply, power failures are bridged with absolutely no interruption. The intelligent battery management automatically detects the energy storage unit and ensures optimal charging and continuous monitoring. The compact DC UPS modules have overload capability, to enable the industrial PC inrush current, for example. In stand-alone mode, they support starting from the battery.

The DC UPS communicates openly over a USB or Ethernet/PROFINET. It is easily integrated into the PC or PLC environment over the two Ethernet/PROFINET ports.

Total integration in TIA provides user-friendly engineering in the TIA Portal and is supported with ready-to-use function blocks for S7 user programs and WinCC faceplates for fast visualization.

SITOP Manager also enables simple monitoring and configuration in PC systems, e.g. shutting down multiple PCs according to the master-slave principle.

The UPS1600 modules with Ethernet/PROFINET ports have an OPC UA server, with which the DC UPS can communicate with both PCs and PLCs, even from different manufacturers, thanks to the open communication standard. Parameter assignment and the diagnostics of the uninterruptible power supply is possible via the open interface.

The integrated web server supports remote monitoring of the DC UPS.

Selection and ordering data

SITOP UPS1600 24 V/ 10 A	**6EP4134-3AB00-0AY0**
• With USB interface	**6EP4134-3AB00-1AY0**
• With PROFINET/Ethernet: two RJ45 sockets (2 port switch)	**6EP4134-3AB00-2AY0**
SITOP UPS1600 24 V/ 20 A	**6EP4136-3AB00-0AY0**
• With USB interface	**6EP4136-3AB00-1AY0**
• With PROFINET/Ethernet: two RJ45 sockets (2 port switch)	**6EP4136-3AB00-2AY0**
SITOP UPS1600 Ex 24 V/ 20 A	**6EP4136-3AC00-0AY0**
• With PROFINET/Ethernet	**6EP4136-3AC00-2AY0**
SITOP UPS1600 24 V/ 40 A	**6EP4137-3AB00-0AY0**
• With USB interface	**6EP4137-3AB00-1AY0**
• With PROFINET/Ethernet: two RJ45 sockets (2 port switch)	**6EP4137-3AB00-2AY0**

Accessories

Device identification label	**3RT2900-1SB20**

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Technical specifications

Article number	6EP4134-3AB00-0AY0	6EP4134-3AB00-1AY0	6EP4134-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/10 A	DC UPS 24 V/10 A	DC UPS 24 V/10 A
General information			
Technical Product Detail Page	https://i.siemens.com/1P6EP4134-3AB00-0AY0	https://i.siemens.com/1P6EP4134-3AB00-1AY0	https://i.siemens.com/1P6EP4134-3AB00-2AY0
input			
supply voltage at DC rated value	24 V	24 V	24 V
input voltage at DC	21 ... 29 V	21 ... 29 V	21 ... 29 V
adjustable response value voltage for buffer connection preset	21.5 V	21.5 V	21.5 V
adjustable response value voltage for buffer connection	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	14 A; for max. charging current (3 A)	14 A; for max. charging current (3 A)	14 A; for max. charging current (3 A)
memory			
type of energy storage	with batteries	with batteries	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output			
output voltage			
• in normal operation at DC rated value	24 V	24 V	24 V
• in buffering mode at DC rated value	24 V	24 V	24 V
formula for output voltage	Vin - approx. 0.2 V	Vin - approx. 0.2 V	Vin - approx. 0.2 V
startup delay time typical	60 ms	60 ms	60 ms
voltage increase time of the output voltage typical	60 ms	60 ms	60 ms
output voltage in buffering mode at DC	18.5 ... 27 V	18.5 ... 27 V	18.5 ... 27 V
output current			
• rated value	10 A	10 A	10 A
• in normal operation	0 ... 30 A	0 ... 30 A	0 ... 30 A
• in buffering mode	0 ... 30 A	0 ... 30 A	0 ... 30 A
peak current	30 A	30 A	30 A
property of the output short-circuit proof	Yes	Yes	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A - 3 A	0.1 A - 3 A	0.1 A - 3 A
efficiency			
efficiency in percent			
• at rated output voltage for rated value of the output current typical	97.5 %	97.5 %	97.3 %
• in case of operation on rechargeable battery typical	97.5 %	97.5 %	97.3 %
power loss [W]			
• at rated output voltage for rated value of the output current typical	6 W	6 W	7 W
• in case of operation on rechargeable battery typical	6 W	6 W	7 W
supplied active power typical	240 W	240 W	240 W
protection and monitoring			
product function			
• reverse polarity protection against energy storage unit polarity reversal	Yes	Yes	Yes
• reverse polarity protection against input voltage polarity reversal	Yes	Yes	Yes
display version			

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Technical specifications (continued)

Article number	6EP4134-3AB00-0AY0	6EP4134-3AB00-1AY0	6EP4134-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/10 A	DC UPS 24 V/10 A	DC UPS 24 V/10 A
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces			
product component PC interface	No	Yes	Yes
product function communication function	Yes	Yes	Yes
design of the interface	without	USB	Ethernet/PROFINET
number of interfaces according to PROFINET			2
safety			
galvanic isolation between input and output	No	No	No
operating resource protection class	Class III	Class III	Class III
protection class IP	IP20	IP20	IP20
standard			
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals			
certificate of suitability			
• CE marking	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• UKCA marking	Yes	Yes	Yes
• EAC approval	Yes	Yes	Yes
type of certification CB-certificate	Yes	Yes	Yes
MTBF at 40 °C	415 574 h	364 153 h	349 874 h
standards, specifications, approvals hazardous environments			
certificate of suitability			
• ATEX	No	No	No
standards, specifications, approvals marine classification			
shipbuilding approval	Yes	Yes	Yes
Marine classification association			
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6EP4134-3AB00-0AY0	6EP4134-3AB00-1AY0	6EP4134-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/10 A	DC UPS 24 V/10 A	DC UPS 24 V/10 A
global warming potential [CO2 eq]			
• total	168 kg	169 kg	196 kg
• during manufacturing	15.6 kg	16.4 kg	18 kg
• during operation	152 kg	152 kg	177.5 kg
• after end of life	0.29 kg	0.3 kg	0.33 kg
ambient conditions			
ambient temperature			
• during operation	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method			
type of electrical connection	screw terminal	screw terminal	screw terminal
• at input	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• at output	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• for rechargeable battery module	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• for control circuit and status message	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG
mechanical data			
width × height × depth of the enclosure	50 mm × 139 mm × 125 mm	50 mm × 139 mm × 125 mm	50 mm × 139 mm × 125 mm
installation width × mounting height	50 mm × 239 mm	50 mm × 239 mm	50 mm × 239 mm
required spacing			
• top	50 mm	50 mm	50 mm
• bottom	50 mm	50 mm	50 mm
• left	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes	Yes
• S7 rail mounting	No	No	No
• wall mounting	No	No	No
housing can be lined up	Yes	Yes	Yes
net weight	0.38 kg	0.4 kg	0.44 kg
accessories			
electrical accessories	Battery module	Battery module	Battery module
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and

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Technical specifications (continued)

Article number	6EP4134-3AB00-0AY0	6EP4134-3AB00-1AY0	6EP4134-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/10 A	DC UPS 24 V/10 A	DC UPS 24 V/10 A
	networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Article number	6EP4136-3AB00-0AY0	6EP4136-3AB00-1AY0	6EP4136-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A	DC UPS 24 V/20 A
General information			
Technical Product Detail Page	https://i.siemens.com/1P6EP4136-3AB00-0AY0	https://i.siemens.com/1P6EP4136-3AB00-1AY0	https://i.siemens.com/1P6EP4136-3AB00-2AY0
input			
supply voltage at DC rated value	24 V	24 V	24 V
input voltage at DC	21 ... 29 V	21 ... 29 V	21 ... 29 V
adjustable response value voltage for buffer connection preset	21.5 V	21.5 V	21.5 V
adjustable response value voltage for buffer connection	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	25 A; for max. charging current (4 A)	25 A; for max. charging current (4 A)	25 A; for max. charging current (4 A)
memory			
type of energy storage	with batteries	with batteries	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output			
output voltage			

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Technical specifications (continued)

Article number	6EP4136-3AB00-0AY0	6EP4136-3AB00-1AY0	6EP4136-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A	DC UPS 24 V/20 A
• in normal operation at DC rated value	24 V	24 V	24 V
• in buffering mode at DC rated value	24 V	24 V	24 V
formula for output voltage	Vin - approx. 0.2 V	Vin - approx. 0.2 V	Vin - approx. 0.2 V
startup delay time typical	60 ms	60 ms	60 ms
voltage increase time of the output voltage typical	60 ms	60 ms	60 ms
output voltage in buffering mode at DC	18.5 ... 27 V	18.5 ... 27 V	18.5 ... 27 V
output current			
• rated value	20 A	20 A	20 A
• in normal operation	0 ... 60 A	0 ... 60 A	0 ... 60 A
• in buffering mode	0 ... 60 A	0 ... 60 A	0 ... 60 A
peak current	60 A	60 A	60 A
property of the output short-circuit proof	Yes	Yes	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A - 4 A	0.1 A - 4 A	0.1 A - 4 A
efficiency			
efficiency in percent			
• at rated output voltage for rated value of the output current typical	97.7 %	97.7 %	97.5 %
• in case of operation on rechargeable battery typical	97.7 %	97.7 %	97.5 %
power loss [W]			
• at rated output voltage for rated value of the output current typical	10 W	10 W	11 W
• in case of operation on rechargeable battery typical	10 W	10 W	11 W
supplied active power typical	480 W	480 W	480 W
protection and monitoring			
product function			
• reverse polarity protection against energy storage unit polarity reversal	Yes	Yes	Yes
• reverse polarity protection against input voltage polarity reversal	Yes	Yes	Yes
display version			
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed

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Technical specifications (continued)

Article number	6EP4136-3AB00-0AY0	6EP4136-3AB00-1AY0	6EP4136-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A	DC UPS 24 V/20 A
interfaces			
product component PC interface	No	Yes	Yes
product function communication function	Yes	Yes	Yes
design of the interface	without	USB	Ethernet/PROFINET
number of interfaces according to PROFINET			2
safety			
galvanic isolation between input and output	No	No	No
operating resource protection class	Class III	Class III	Class III
protection class IP	IP20	IP20	IP20
standard			
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals			
certificate of suitability			
• CE marking	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• UKCA marking	Yes	Yes	Yes
• EAC approval	Yes	Yes	Yes
type of certification CB-certificate	Yes	Yes	Yes
MTBF at 40 °C	408 654 h	358 897 h	345 056 h
standards, specifications, approvals hazardous environments			
certificate of suitability			
• ATEX	No	No	No
standards, specifications, approvals marine classification			
shipbuilding approval	Yes	Yes	Yes
Marine classification association			
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes
global warming potential [CO2 eq]			
• total	269.8 kg	269.8 kg	297.8 kg
• during manufacturing	16 kg	16 kg	18.5 kg
• during operation	253.5 kg	253.5 kg	278.8 kg
• after end of life	0.3 kg	0.3 kg	0.34 kg
ambient conditions			
ambient temperature			
• during operation	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method			
type of electrical connection	screw terminal	screw terminal	screw terminal
• at input	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• at output	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• for rechargeable battery module	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• for control circuit and status message	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG

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Technical specifications (continued)

Article number	6EP4136-3AB00-0AY0	6EP4136-3AB00-1AY0	6EP4136-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A	DC UPS 24 V/20 A
mechanical data			
width × height × depth of the enclosure	50 mm × 139 mm × 125 mm	50 mm × 139 mm × 125 mm	50 mm × 139 mm × 125 mm
installation width × mounting height	50 mm × 239 mm	50 mm × 239 mm	50 mm × 239 mm
required spacing			
• top	50 mm	50 mm	50 mm
• bottom	50 mm	50 mm	50 mm
• left	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes	Yes
• S7 rail mounting	No	No	No
• wall mounting	No	No	No
housing can be lined up	Yes	Yes	Yes
net weight	0.39 kg	0.41 kg	0.45 kg
accessories			
electrical accessories	Battery module	Battery module	Battery module
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly

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Technical specifications (continued)

Article number	6EP4136-3AB00-0AY0	6EP4136-3AB00-1AY0	6EP4136-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A	DC UPS 24 V/20 A
	recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Article number	6EP4137-3AB00-0AY0	6EP4137-3AB00-1AY0	6EP4137-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/40 A	DC UPS 24 V/40 A	DC UPS 24 V/40 A
General information			
Technical Product Detail Page	https://i.siemens.com/1P6EP4137-3AB00-0AY0	https://i.siemens.com/1P6EP4137-3AB00-1AY0	https://i.siemens.com/1P6EP4137-3AB00-2AY0
input			
supply voltage at DC rated value	24 V	24 V	24 V
input voltage at DC	21 ... 29 V	21 ... 29 V	21 ... 29 V
adjustable response value voltage for buffer connection preset	21.5 V	21.5 V	21.5 V
adjustable response value voltage for buffer connection	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	46 A; for max. charging current (5 A)	46 A; for max. charging current (5 A)	46 A; for max. charging current (5 A)
memory			
type of energy storage	with batteries	with batteries	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output			
output voltage			
• in normal operation at DC rated value	24 V	24 V	24 V
• in buffering mode at DC rated value	24 V	24 V	24 V
formula for output voltage	Vin - approx. 0.2 V	Vin - approx. 0.2 V	Vin - approx. 0.2 V
startup delay time typical	60 ms	60 ms	60 ms
voltage increase time of the output voltage typical	60 ms	60 ms	60 ms
output voltage in buffering mode at DC	18.5 ... 27 V	18.5 ... 27 V	18.5 ... 27 V
output current			
• rated value	40 A	40 A	40 A
• in normal operation	0 ... 120 A	0 ... 120 A	0 ... 120 A
• in buffering mode	0 ... 120 A	0 ... 120 A	0 ... 120 A
peak current	120 A	120 A	120 A
property of the output short-circuit proof	Yes	Yes	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A - 5 A	0.1 A - 5 A	0.1 A - 5 A
efficiency			
efficiency in percent			
• at rated output voltage for rated value of the output current typical	98.5 %	98.5 %	98.3 %
• in case of operation on rechargeable battery typical	98.5 %	98.5 %	98.3 %
power loss [W]			

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Technical specifications (continued)

Article number	6EP4137-3AB00-0AY0	6EP4137-3AB00-1AY0	6EP4137-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/40 A	DC UPS 24 V/40 A	DC UPS 24 V/40 A
• at rated output voltage for rated value of the output current typical	15 W	15 W	17 W
• in case of operation on rechargeable battery typical	15 W	15 W	17 W
supplied active power typical	960 W	960 W	960 W
protection and monitoring			
product function			
• reverse polarity protection against energy storage unit polarity reversal	Yes	Yes	Yes
• reverse polarity protection against input voltage polarity reversal	Yes	Yes	Yes
display version			
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces			
product component PC interface	No	Yes	Yes
product function communication function	Yes	Yes	Yes
design of the interface	without	USB	Ethernet/PROFINET
number of interfaces according to PROFINET			2
safety			
galvanic isolation between input and output	No	No	No
operating resource protection class	Class III	Class III	Class III
protection class IP	IP20	IP20	IP20
standard			
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals			
certificate of suitability			
• CE marking	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• UKCA marking	Yes	Yes	Yes
• EAC approval	Yes	Yes	Yes
type of certification CB-certificate	Yes	Yes	Yes
MTBF at 40 °C	372 738 h	330 515 h	318 776 h

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Technical specifications (continued)

Article number	6EP4137-3AB00-0AY0	6EP4137-3AB00-1AY0	6EP4137-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/40 A	DC UPS 24 V/40 A	DC UPS 24 V/40 A
standards, specifications, approvals hazardous environments			
certificate of suitability			
• ATEX	No	No	No
standards, specifications, approvals marine classification			
shipbuilding approval	Yes	Yes	Yes
Marine classification association			
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes
global warming potential [CO2 eq]			
• total	407.6 kg	407.6 kg	460 kg
• during manufacturing	26.7 kg	26.7 kg	28.7 kg
• during operation	380.3 kg	380.3 kg	431 kg
• after end of life	0.49 kg	0.49 kg	0.53 kg
ambient conditions			
ambient temperature			
• during operation	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method			
type of electrical connection	screw terminal	screw terminal	screw terminal
• at input	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG
• at output	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG
• for rechargeable battery module	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG	24 V DC: 2 screw terminals for 0.5 ... 16 mm^2/20 ... 6 AWG
• for control circuit and status message	14 screw terminals for 0.2 ... 1.5 mm^2/24 ... 16 AWG	14 screw terminals for 0.2 ... 1.5 mm^2/24 ... 16 AWG	14 screw terminals for 0.2 ... 1.5 mm^2/24 ... 16 AWG
mechanical data			
width × height × depth of the enclosure	70 mm × 139 mm × 150 mm	70 mm × 139 mm × 150 mm	70 mm × 139 mm × 150 mm
installation width × mounting height	70 mm × 239 mm	70 mm × 239 mm	70 mm × 239 mm
required spacing			
• top	50 mm	50 mm	50 mm
• bottom	50 mm	50 mm	50 mm
• left	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes	Yes
• S7 rail mounting	No	No	No
• wall mounting	No	No	No
housing can be lined up	Yes	Yes	Yes
net weight	0.65 kg	0.65 kg	0.7 kg
accessories			
electrical accessories	Battery module	Battery module	Battery module
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop

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Technical specifications (continued)

Article number	6EP4137-3AB00-0AY0	6EP4137-3AB00-1AY0	6EP4137-3AB00-2AY0
product brand name	SITOP	SITOP	SITOP
type of current supply	DC UPS 24 V/40 A	DC UPS 24 V/40 A	DC UPS 24 V/40 A
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Article number	6EP4136-3AC00-0AY0	6EP4136-3AC00-2AY0
product brand name	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A
General information		
Technical Product Detail Page	https://i.siemens.com/1P6EP4136-3AC00-0AY0	https://i.siemens.com/1P6EP4136-3AC00-2AY0
input		
supply voltage at DC rated value	24 V	24 V
input voltage at DC	21 ... 29 V	21 ... 29 V
adjustable response value voltage for buffer connection preset	21.5 V	21.5 V

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Technical specifications (continued)

Article number	6EP4136-3AC00-0AY0	6EP4136-3AC00-2AY0
product brand name	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A
adjustable response value voltage for buffer connection	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC	21 ... 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	25 A; for max. charging current (4 A)	25 A; for max. charging current (4 A)
memory		
type of energy storage	with batteries	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output		
output voltage		
• in normal operation at DC rated value	24 V	24 V
• in buffering mode at DC rated value	24 V	24 V
formula for output voltage	Vin - approx. 0.2 V	Vin - approx. 0.2 V
startup delay time typical	60 ms	60 ms
voltage increase time of the output voltage typical	60 ms	60 ms
output voltage in buffering mode at DC	18.5 ... 27 V	18.5 ... 27 V
output current		
• rated value	20 A	20 A
• in normal operation	0 ... 60 A	0 ... 60 A
• in buffering mode	0 ... 60 A	0 ... 60 A
peak current	60 A	60 A
property of the output short-circuit proof	Yes	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A - 4 A	0.1 A - 4 A
efficiency		
efficiency in percent		
• at rated output voltage for rated value of the output current typical	97.7 %	97.5 %
• in case of operation on rechargeable battery typical	97.7 %	97.5 %
power loss [W]		
• at rated output voltage for rated value of the output current typical	10 W	11 W
• in case of operation on rechargeable battery typical	10 W	11 W
supplied active power typical	480 W	480 W
protection and monitoring		
product function		
• reverse polarity protection against energy storage unit polarity reversal	Yes	Yes
• reverse polarity protection against input voltage polarity reversal	Yes	Yes
display version		
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NOcontact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A

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Technical specifications (continued)

Article number	6EP4136-3AC00-0AY0	6EP4136-3AC00-2AY0
product brand name	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces		
product component PC interface	No	Yes
product function communication function	Yes	Yes
design of the interface	without	Ethernet/PROFINET
number of interfaces according to PROFINET		2
safety		
galvanic isolation between input and output	No	No
operating resource protection class	Class III	Class III
protection class IP	IP20	IP20
standard		
• for emitted interference	EN 55022 Class B	EN 55022 Class B
• for interference immunity	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals		
certificate of suitability		
• CE marking	Yes	Yes
• UL approval	Yes	Yes
• UKCA marking	Yes	Yes
type of certification CB-certificate	Yes	Yes
MTBF at 40 °C	408 654 h	345 056 h
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	Yes	Yes
• ATEX	Yes; ATEX (Ex) II 3G Ex ec nC IIC T4 Gc	Yes; ATEX (Ex) II 3G Ex ec nC IIC T4 Gc
• CCC for hazardous zone according to GB standard	Yes	Yes
standards, specifications, approvals marine classification		
shipbuilding approval	No	No
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	No	No
• Det Norske Veritas (DNV)	No; in preparation	No; in preparation
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
global warming potential [CO2 eq]		
• total	269.8 kg	297.8 kg
• during manufacturing	16 kg	18.5 kg
• during operation	253.5 kg	278.8 kg
• after end of life	0.3 kg	0.34 kg
ambient conditions		
ambient temperature		
• during operation	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method		
type of electrical connection	screw terminal	screw terminal
• at input	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• at output	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
• for rechargeable battery module	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG	24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG

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Technical specifications (continued)

Article number	6EP4136-3AC00-0AY0	6EP4136-3AC00-2AY0
product brand name	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A
• for control circuit and status message	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG	14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG
mechanical data		
width × height × depth of the enclosure	50 mm × 139 mm × 125 mm	50 mm × 139 mm × 125 mm
installation width × mounting height	50 mm × 239 mm	50 mm × 239 mm
required spacing		
• top	50 mm	50 mm
• bottom	50 mm	50 mm
• left	0 mm	0 mm
• right	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• DIN-rail mounting	Yes	Yes
• S7 rail mounting	No	No
• wall mounting	No	No
housing can be lined up	Yes	Yes
net weight	0.39 kg	0.45 kg
accessories		
electrical accessories	Battery module	Battery module
further information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information		
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens

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Technical specifications (continued)

Article number	6EP4136-3AC00-0AY0	6EP4136-3AC00-2AY0
product brand name	SITOP	SITOP
type of current supply	DC UPS 24 V/20 A	DC UPS 24 V/20 A
	Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview



The intelligent UPS1600 battery management charges the BAT1600 with the optimum temperature-controlled charging characteristics and monitors the status (operating data and diagnostics information) of the connected battery modules via the energy storage link. For longer buffer times, up to six battery modules can be connected in parallel. These can be mounted onto a DIN rail or directly on the wall.

- Five battery modules with different technology and application:
  - 2.5 Ah and 7 Ah LiFePO4 (lithium iron phosphate) with long service life even at higher ambient temperatures and for high charge/discharge cycles, e.g. for shutting down industrial PCs when the machine is regularly switched off
  - 3.2 Ah, 7 Ah and 38 Ah Pb (lead-acid) as a cost-effective solution for standard and standby applications
- The capacity can be expanded by connecting the battery modules in parallel. Up to six BAT1600 battery modules are supported
- Communication between the DC UPS and battery module (Energy Storage Link - ESL) enables optimal battery management and automatic detection of the battery module without the need for parameter assignment
- Three-color status LED for easy commissioning
- State of Health (SOH) calculation for batteries
- SITOP BAT1600 2.5 Ah Li, 3.2 Ah Pb, and 7.5 Ah Li mountable on DIN rail. The optional mounting kit also allows wall mounting (6EP4990-0MK00-0XU0)

Selection and ordering data

SITOP BAT1600 battery module 2.5 Ah, LiFePO4	
• Lithium battery for SITOP UPS1600 DC UPS module	**6EP4132-0JA00-0AY0**
• For air-freight suitable version with 30% loading	**6EP4132-0JA00-0AY0-ZA03**
SITOP BAT1600 battery module 7.5 Ah, LiFePO4	
• Lithium battery for SITOP UPS1600 DC UPS module	**6EP4134-0JA00-0AY0**
• For air-freight suitable version with 30% loading	**6EP4134-0JA00-0AY0-ZA03**
SITOP BAT1600 battery module 3.2 Ah, Pb	
Lead-acid battery for SITOP UPS1600 DC UPS module	**6EP4133-0GA00-0AY0**
SITOP BAT1600 Ex battery module 3.2 Ah, Pb	
Lead-acid battery for SITOP UPS1600 DC UPS module	**6EP4133-0GD00-0AY0**
SITOP BAT1600 battery module 12 Ah, Pb	
Lead-acid battery for SITOP UPS1600 DC UPS module	**6EP4135-0GE00-0AY0**
SITOP BAT1600 Ex battery module 12 Ah, Pb	
Lead-acid battery for SITOP UPS1600 DC UPS module	**6EP4135-0GL00-0AY0**
SITOP BAT1600 battery module 38 Ah, Pb	
Lead-acid battery for SITOP UPS1600 DC UPS module	**6EP4137-0GE00-0AY0**

Accessories

BAT1600 battery monitor	**6EP4130-0GJ00-0AY0**
BAT1600 wall mounting (2 units)	**6EP4990-0MK00-0XU0**

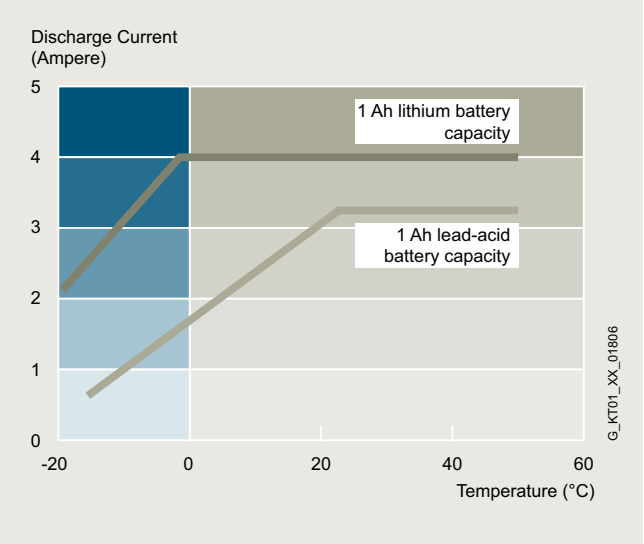
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Technical specifications

The table shows the maximum buffer times for the SITOP BAT1600 battery modules for different load currents:
The SITOP Selection Tool offers detailed product selection guidance according to criteria such as the required buffer time, load current, peak current and rechargeable battery connection threshold: http://www.siemens.com/tst

Product trade name	SITOP BAT1600	SITOP BAT1600	SITOP BAT1600	SITOP BAT1600	SITOP BAT1600
Type of power supply	24 V/2.5 Ah LiFePO4	24 V/3.2 Ah	24 V/7.5 Ah LiFePO4	24 V/12 Ah	24 V/38 Ah
Article No.	6EP4132-0JA00-0-AY0	6EP4133-0GA00-0AY0	6EP4134-0JA00-0A-Y0	6EP4135-0GE00-0AY0	6EP4137-0GE00-0AY0
Load current		**Buffer times ***			
1 A	1 h 40 min	2 h 9 min	8 h 30 min	6 h 28 min	30 h
2 A	50 min	1 h 13 min	4 h 20 min	3 h 39 min	16 h 40 min
3 A	30 min	51 min	2 h 40 min	2 h 33 min	11 h 20 min
4 A	20 min	39 min	1 h 50 min	1 h 57 min	8 h
6 A	10 min	27 min	1 h 20 min	1 h 20 min	5 h
8 A	6 min	20 min	50 min	61 min	3 h 40 min
10 A	4 min	16 min	40 min	49 min	2 h 50 min
12 A	2 min	14 min	30 min	41 min	2 h 00 min
14 A	1 min	12 min	25 min	35 min	1 h 50 min
16 A	< 1 min	-	20 min	31 min	1 h 40 min
20 A	-	-	15 min	25 min	1 h 15 min
30 A	-	-	6 min	17 min	45 min
40 A	-	-	3 min	13 min	30 min

* Calculation of the buffer times is based on the discharge period of new and completely charged battery modules with a battery temperature of +25 °C until shutdown of the DC UPS (min. 20 V). Buffer times for additional values can be determined using the SITOP Selection Tool: http://www.siemens.com/tst



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Technical specifications

Article number	6EP4132-0JA00-0AY0	6EP4134-0JA00-0AY0	6EP4133-0GA00-0AY0	6EP4133-0GD00-0AY0
product brand name	SITOP	SITOP	SITOP	SITOP
product designation	2.5 Ah Li	7.5 Ah Li	3.2 Ah Pb	3.2 Ah Pb
General information				
Technical Product Detail Page	https://i.siemens.com/1P6EP4132-0JA00-0AY0	https://i.siemens.com/1P6EP4134-0JA00-0AY0	https://i.siemens.com/1P6EP4133-0GA00-0AY0	https://i.siemens.com/1P6EP4133-0GD00-0AY0
electrical data				
end-of-charge voltage at DC				
• at -10 °C recommended	28.8 V	28.8 V	28 V	28 V
• at 0 °C recommended	28.8 V	28.8 V	28 V	28 V
• at 10 °C recommended	28.8 V	28.8 V	27.8 V	27.8 V
• at 20 °C recommended	28.8 V	28.8 V	27.3 V	27.3 V
• at 30 °C recommended	28.8 V	28.8 V	26.8 V	26.8 V
• at 40 °C recommended	28.8 V	28.8 V	26.6 V	26.6 V
• at 50 °C recommended	28.8 V	28.8 V	26.3 V	26.3 V
output				
battery capacity	2.5 A·h	7.5 A·h	3.2 A·h	3.2 A·h
output current rated value	10 A	40 A	20 A	20 A
output current in buffering mode maximum	10 A	40 A	20 A	20 A
peak current	45 A; for 30 ms	120 A; for 30 ms	60 A; for 30 ms	60 A; for 30 ms
charging current maximum	3 A	3 A	0.8 A	0.8 A
output voltage at DC rated value	24 V	24 V	24 V	24 V
interfaces				
communication function	Yes	Yes	Yes	Yes
protection and monitoring				
design of short-circuit protection	25A / 32V Maxi flat fuse	50A / 32V Maxi flat fuse	25A / 32V Maxi flat fuse	25A / 32V Maxi flat fuse
design of the overload protection			Valve control	Valve control
display version for normal operation	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible
safety				
operating resource protection class	Class III	Class III	Class III	Class III
protection class IP	IP20	IP20	IP20	IP20
standards, specifications, approvals				
certificate of suitability				
• CE marking	Yes	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289
• UKCA marking	Yes	Yes	Yes	Yes
type of certification CB-certificate	Yes	Yes	Yes	Yes
standards, specifications, approvals hazardous environments				
certificate of suitability				
• IECEx				Yes; IECEx Ex ec IIC T4 Gc
• ATEX	No	No	No	Yes; ATEX (EX) II 3G ex ec IIC T4 Gc
• ULhazloc approval				Yes
• CCC for hazardous zone according to GB standard				Yes
standards, specifications, approvals marine classification				
shipbuilding approval	Yes	Yes	Yes	Yes
Marine classification association				
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	in preparation	in preparation	in preparation	in preparation

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Technical specifications (continued)

Article number	6EP4132-0JA00-0AY0	6EP4134-0JA00-0AY0	6EP4133-0GA00-0AY0	6EP4133-0GD00-0AY0
product brand name	SITOP	SITOP	SITOP	SITOP
product designation	2.5 Ah Li	7.5 Ah Li	3.2 Ah Pb	3.2 Ah Pb
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration	Yes	Yes	Yes	Yes
global warming potential [CO2 eq]				
• total	21.638 kg	43.4 kg	14.787 kg	14.787 kg
• during manufacturing	20.5 kg	41 kg	9.373 kg	9.373 kg
• during operation	0.067 kg	0.202 kg	3.733 kg	3.733 kg
• after end of life	0.391 kg	0.781 kg	0.494 kg	0.494 kg
ambient conditions				
ambient condition	For storage, mounting and operation of batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed.	For storage, mounting and operation of batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed.	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.
ambient temperature				
• during operation	-10 ... +50 °C	-10 ... +50 °C	-15 ... +50 °C	-15 ... +50 °C
• during transport	-30 ... +70 °C	-30 ... +70 °C	-20 ... +50 °C	-20 ... +50 °C
• during storage	-20 ... +35 °C	-20 ... +35 °C	-20 ... +40 °C	-20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	1 %	1 %	3 %	3 %
service life				
service life of energy storage				
• typical	capacity falls to 80 % of original capacity (according to EUROBAT)	capacity falls to 80 % of original capacity (according to EUROBAT)	capacity falls to 80 % of original capacity (according to EUROBAT)	capacity falls to 80 % of original capacity (according to EUROBAT)
• at 20 °C typical	11 a	11 a	4 a	4 a
• at 30 °C typical	11 a	11 a	2 a	2 a
• at 40 °C typical	8 a	8 a	1 a	1 a
• at 50 °C typical	6 a	6 a	0.5 a	0.5 a
• at 60 °C typical	2 a	2 a		
note	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.
connection method				
type of electrical connection	screw terminal	screw terminal	screw terminal	screw terminal
• for UPS module	1 screw terminal each for 0.5 ... 10 mm² for + BAT and - BAT	1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT	1 screw terminal each for 0.5 ... 10 mm² for + BAT and - BAT	1 screw terminal each for 0.5 ... 10 mm² for + BAT and - BAT
• for control circuit and status message	1 screw terminal each for 0.2 ... 2.5 mm²	1 screw terminal each for 0.2 ... 2.5 mm²	1 screw terminal each for 0.2 ... 2.5 mm²	1 screw terminal each for 0.2 ... 2.5 mm²
mechanical data				
width × height × depth of the enclosure	89 mm × 156 mm × 129 mm	238 mm × 156 mm × 129 mm	89 mm × 156 mm × 169 mm	89 mm × 156 mm × 169 mm
installation width × mounting height	89 mm × 256 mm	238 mm × 256 mm	89 mm × 256 mm	89 mm × 256 mm
required spacing				
• top	50 mm	50 mm	50 mm	50 mm

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Technical specifications (continued)

Article number	6EP4132-0JA00-0AY0	6EP4134-0JA00-0AY0	6EP4133-0GA00-0AY0	6EP4133-0GD00-0AY0
product brand name	SITOP	SITOP	SITOP	SITOP
product designation	2.5 Ah Li	7.5 Ah Li	3.2 Ah Pb	3.2 Ah Pb
• bottom	50 mm	50 mm	50 mm	50 mm
• left	0 mm	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm	0 mm
fastening method	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0
• DIN-rail mounting	Yes	Yes	Yes	Yes
• S7 rail mounting	Yes	Yes	Yes	Yes
• wall mounting	Yes	Yes	Yes	No
net weight	2 kg	4 kg	3.8 kg	3.8 kg
number of cells	1	3	2	2
accessories				
product component included	2x Maxi Fuse 25 A/32 V	2x Maxi Fuse 50 A/32 V	2x Maxi Fuse 25 A/32 V	2x Maxi Fuse 25 A/32 V
mechanical accessories	BAT1600 wall mounting kit 6EP4990-0MK00-0XU0	BAT1600 wall mounting kit 6EP4990-0MK00-0XU0	BAT1600 wall mounting kit 6EP4990-0MK00-0XU0	BAT1600 wall mounting kit 6EP4990-0MK00-0XU0
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information				
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity

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Technical specifications (continued)

Article number	6EP4132-0JA00-0AY0	6EP4134-0JA00-0AY0	6EP4133-0GA00-0AY0	6EP4133-0GD00-0AY0
product brand name	SITOP	SITOP	SITOP	SITOP
product designation	2.5 Ah Li	7.5 Ah Li	3.2 Ah Pb	3.2 Ah Pb
	measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Article number	6EP4135-0GE00-0AY0	6EP4135-0GL00-0AY0	6EP4137-0GE00-0AY0
product brand name	SITOP	SITOP	SITOP
product designation	12 Ah Pb	12 Ah Pb	38 Ah Pb
General information			
Technical Product Detail Page	https://i.siemens.com/1P6EP4135-0GE00-0AY0	https://i.siemens.com/1P6EP4135-0GL00-0AY0	https://i.siemens.com/1P6EP4137-0GE00-0AY0
electrical data			
end-of-charge voltage at DC			
• at -10 °C recommended	28 V	28 V	28 V
• at 0 °C recommended	28 V	28 V	28 V
• at 10 °C recommended	27.8 V	27.8 V	27.8 V
• at 20 °C recommended	27.3 V	27.3 V	27.3 V
• at 30 °C recommended	26.8 V	26.8 V	26.8 V
• at 40 °C recommended	26.6 V	26.6 V	26.6 V
• at 50 °C recommended	26.3 V	26.3 V	26.3 V
output			
battery capacity	12 A·h	12 A·h	38 A·h
output current rated value	40 A	40 A	40 A
output current in buffering mode maximum	40 A	40 A	40 A
peak current	120 A; for 30 ms	120 A; for 30 ms	120 A; for 30 ms
charging current maximum	3 A	3 A	9 A
output voltage at DC rated value	24 V	24 V	24 V
interfaces			
communication function	Yes	Yes	Yes
protection and monitoring			
design of short-circuit protection	50A / 32V Maxi flat fuse	50A / 32V Maxi flat fuse	50A / 32V Maxi flat fuse
design of the overload protection	Valve control	Valve control	Valve control
display version for normal operation	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible
safety			
operating resource protection class	Class III	Class III	Class III
protection class IP	IP20	IP20	IP20
standards, specifications, approvals			
certificate of suitability			

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Technical specifications (continued)

Article number	6EP4135-0GE00-0AY0	6EP4135-0GL00-0AY0	6EP4137-0GE00-0AY0
product brand name	SITOP	SITOP	SITOP
product designation	12 Ah Pb	12 Ah Pb	38 Ah Pb
• CE marking	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289
• UKCA marking	Yes	Yes	Yes
type of certification CB-certificate	Yes	Yes	Yes
standards, specifications, approvals hazardous environments			
certificate of suitability			
• IECEx		Yes; IECEx Ex ec IIC T4 Gc	
• ATEX	No	Yes; ATEX (EX) II 3G ex ec IIC T4 Gc	No
• ULhazloc approval		Yes	
• CCC for hazardous zone according to GB standard		Yes	
standards, specifications, approvals marine classification			
shipbuilding approval	Yes	Yes	Yes
Marine classification association			
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes
• Det Norske Veritas (DNV)	in preparation	in preparation	in preparation
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes
global warming potential [CO2 eq]			
• total	40.18 kg	40.18 kg	82.936 kg
• during manufacturing	22.2 kg	22.2 kg	68.81999 kg
• during operation	14 kg	14 kg	1.778 kg
• after end of life	1.17 kg	1.17 kg	3.627 kg
ambient conditions			
ambient condition	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.	For storage, mounting and operation of batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed.
ambient temperature			
• during operation	-15 ... +50 °C	-15 ... +50 °C	-15 ... +50 °C
• during transport	-20 ... +50 °C	-20 ... +50 °C	-30 ... +70 °C
• during storage	-20 ... +40 °C	-20 ... +40 °C	-20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %	3 %	3 %
service life			
service life of energy storage			
• typical	capacity falls to 80 % of original capacity (according to EUROBAT)	capacity falls to 80 % of original capacity (according to EUROBAT)	capacity falls to 80 % of original capacity (according to EUROBAT)
• at 20 °C typical	4 a	4 a	10 a
• at 30 °C typical	2 a	2 a	5 a
• at 40 °C typical	1 a	1 a	2.5 a
• at 50 °C typical	0.5 a	0.5 a	1.25 a

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Technical specifications (continued)

Article number	6EP4135-0GE00-0AY0	6EP4135-0GL00-0AY0	6EP4137-0GE00-0AY0
product brand name	SITOP	SITOP	SITOP
product designation	12 Ah Pb	12 Ah Pb	38 Ah Pb
note	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.	In addition to the storage temperature, additional factors, such as storage duration and charging status during storage, have a major impact on the potential service life. This means batteries should preferably be stored fully charged for short periods of time in a dry, cool and frost-proof (temperature range 0 to +20 °C) location.
connection method			
type of electrical connection	screw terminal	screw terminal	Plug-in terminals with screwed connection
• for UPS module	1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT	1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT	1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT
• for control circuit and status message	1 screw terminal each for 0.2 ... 2.5 mm²	1 screw terminal each for 0.2 ... 2.5 mm²	1 screw terminal each for 0.2 ... 2.5 mm²
mechanical data			
width × height × depth of the enclosure	225 mm × 156 mm × 138 mm	225 mm × 156 mm × 138 mm	394 mm × 212 mm × 165 mm
installation width × mounting height	225 mm × 256 mm	225 mm × 256 mm	330 mm × 262 mm
required spacing			
• top	50 mm	50 mm	50 mm
• bottom	50 mm	50 mm	50 mm
• left	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm
fastening method	Wall mounting	Wall mounting	Floor mounting
• DIN-rail mounting	No	No	No
• S7 rail mounting	No	No	No
• wall mounting	Yes	Yes	No
net weight	10.2 kg	10.2 kg	27.9 kg
number of cells	2	2	2
accessories			
product component included	2x Maxi Fuse 50 A/32 V	2x Maxi Fuse 50 A/32 V	2x Maxi Fuse 50 A/32 V
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to

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Technical specifications (continued)

Article number	6EP4135-0GE00-0AY0	6EP4135-0GL00-0AY0	6EP4137-0GE00-0AY0
product brand name	SITOP	SITOP	SITOP
product designation	12 Ah Pb	12 Ah Pb	38 Ah Pb
	their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview



Maintenance-free battery modules SITOP UPS1100 Pb with 2.5 and 7 Ah for DC UPS modules SITOP UPS1600. The intelligent UPS1600 battery management charges the UPS1100 with the optimal temperature-controlled charging characteristics and monitors the status (operating data and diagnostics information) of the connected battery modules via the energy storage link. For longer buffer times, up to six battery modules can be connected in parallel. These can be mounted onto a DIN rail or directly on the wall. The 2.5 Ah variant contains pure lead batteries that enable it to be used at temperatures from -40 to + 60 °C.

Selection and ordering data

SITOP UPS1100 battery module 2.5 Ah, high temperature With maintenance-free, sealed lead-acid batteries for SITOP UPS1600 DC UPS module, 10 A and 20 A	**6EP4132-0GB00-0AY0**
SITOP UPS1100 battery module 7 Ah With maintenance-free, sealed lead-acid batteries for SITOP UPS1600 DC UPS module, 10 A, 20 A and 40 A	**6EP4134-0GB00-0AY0**

Technical specifications

The table shows the maximum buffer times for the SITOP UPS1100 battery modules for different load currents:

Product trade name Type of power supply Article No.	SITOP UPS1100 24 V/2.5 Ah high temperature 6EP4132-GB00-0AY0	SITOP UPS1100 24 V/7 Ah 6EP4134-0GB00-0A-Y0
Load current	**Buffer times ***	
1 A	1 h 30 min	4 h 30 min
2 A	50 min	2 h 10 min
3 A	35 min	1 h 30 min
4 A	25 min	1 h 5 min
6 A	15 min	35 min
8 A	10 min	25 min
10 A	6 min	15 min
12 A	5 min	12 min
14 A	4 min	10 min
16 A	3 min	8 min
20 A	1 min	5 min
30 A	3 min, ×2	1 min
40 A	3 min, ×3	< 1 min

* The determination of the buffer times is based on the discharge period of new and completely charged battery modules with a battery temperature of not less than +25 °C until shutdown of the DC UPS (19 V). Buffer times for additional values can be determined using the SITOP Selection Tool: http://www.siemens.com/tst.

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Technical specifications

Article number	6EP4132-0GB00-0AY0	6EP4134-0GB00-0AY0
product brand name	SITOP	SITOP
product designation	Battery module 2.5 Ah	Battery module 7 Ah
General information		
Technical Product Detail Page	https://i.siemens.com/1P6EP4132-0GB00-0AY0	https://i.siemens.com/1P6EP4134-0GB00-0AY0
electrical data		
end-of-charge voltage at DC		
• at -10 °C recommended	28 V	28 V
• at 0 °C recommended	28 V	28 V
• at 10 °C recommended	27.8 V	27.8 V
• at 20 °C recommended	27.3 V	27.3 V
• at 30 °C recommended	26.8 V	26.8 V
• at 40 °C recommended	26.6 V	26.6 V
• at 50 °C recommended	26.3 V	26.3 V
• at 60 °C recommended	26 V	
output		
battery capacity	2.5 A·h	7 A·h
output current rated value	20 A	40 A
output current in buffering mode maximum	20 A	40 A
peak current	60 A; for 30 ms	120 A; for 30 ms
charging current maximum	5 A	1.75 A
output voltage at DC rated value	24 V	24 V
interfaces		
communication function	Yes	Yes
protection and monitoring		
design of short-circuit protection	Battery fuse 25 A/32 V (solid-state circuitry blade-type fuse + support)	Battery fuse 2x 25 A/32 V (solid-state circuitry blade-type fuse + support)
design of the overload protection	Valve control	Valve control
display version for normal operation	LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication	LED green: Battery OK; LED flashing green: Error or warning; OFF: No communication
safety		
operating resource protection class	Class III	Class III
protection class IP	IP20	IP20
standards, specifications, approvals		
certificate of suitability		
• CE marking	Yes	Yes
• UL approval	Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627	Yes; cURus-Recognized (UL 1778, CSA C22.2 No. 107.1), File E219627
• EAC approval	Yes	Yes
standards, specifications, approvals hazardous environments		
certificate of suitability		
• ATEX	No	No
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	Yes
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
global warming potential [CO2 eq]		
• total	13.68 kg	24.166 kg
• during manufacturing	9.127 kg	13.567 kg
• during operation	2.917 kg	8.167 kg
• after end of life	0.481 kg	0.715 kg

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Technical specifications (continued)

Article number	6EP4132-0GB00-0AY0	6EP4134-0GB00-0AY0
product brand name	SITOP	SITOP
product designation	Battery module 2.5 Ah	Battery module 7 Ah
ambient conditions		
ambient condition	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.
ambient temperature		
• during operation	-40 ... +60 °C	-15 ... +50 °C
• during transport	-40 ... +60 °C	-20 ... +50 °C
• during storage	-40 ... +60 °C	-20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %	3 %
service life		
service life of energy storage		
• typical	capacity falls to 80 % of original capacity (according to EUROBAT)	capacity falls to 80 % of original capacity (according to EUROBAT)
• at 20 °C typical	10 a	4 a
• at 30 °C typical	7 a	2 a
• at 40 °C typical	3 a	1 a
• at 50 °C typical	1.5 a	0.5 a
• at 60 °C typical	1 a	
note	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.
connection method		
type of electrical connection	screw terminal	screw terminal
• for UPS module	1 screw terminal each for 0.2 ... 6 mm² for + BAT and - BAT	1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT
• for control circuit and status message	1 screw terminal each for 0.14 ... 4 mm²	1 screw terminal each for 0.14 ... 4 mm²
mechanical data		
width × height × depth of the enclosure	265 mm × 115 mm × 76 mm	186 mm × 186 mm × 110 mm
installation width × mounting height	265 mm × 130 mm	186 mm × 201 mm
required spacing		
• top	15 mm	15 mm
• bottom	0 mm	0 mm
• left	0 mm	0 mm
• right	0 mm	0 mm
fastening method	snaps onto DIN rail EN 60715 35x7.5/15 or keyhole mounting for hooking in to M4 screws	can be screwed onto flat surface (keyhole mounting for hooking in to M4 screws)
• DIN-rail mounting	Yes	No
• S7 rail mounting	No	No
• wall mounting	Yes	Yes
net weight	3.7 kg	6.1 kg
number of cells	12	12
accessories		
product component included	Accessories pack with solid-state circuitry fuse 25 A	Accessories pack with solid-state circuitry fuse 25 A
further information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax

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Technical specifications (continued)

Article number	6EP4132-0GB00-0AY0	6EP4134-0GB00-0AY0
product brand name	SITOP	SITOP
product designation	Battery module 2.5 Ah	Battery module 7 Ah
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information		
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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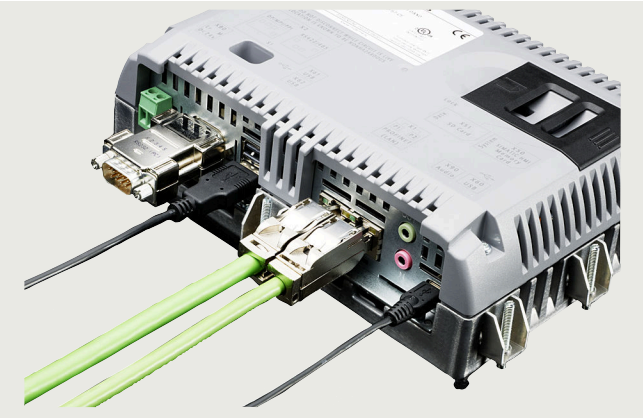
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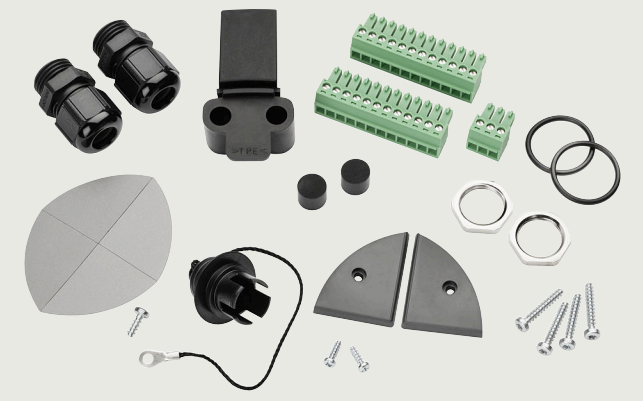
7/2	**Introduction**
7/3	Batteries
7/6	Fixing elements
7/22	Labeling strips
7/25	Input devices, cables
7/39	Input tools
7/43	Connecting components
7/51	Power supply units, power supply cords
7/57	Protective films
7/71	Protective covers, dust caps, INOX frames
7/77	Service sets
7/82	Storage media
7/96	Transport and storage
7/99	Distribution boards
7/100	Additional accessories
7/103	Industrial Wireless LAN, Access Control with RFID
7/103	Access points IEEE 802.11n
7/106	SCALANCE W761 RJ45 for the control cabinet
7/112	SCALANCE W774 RJ45 for the control cabinet
7/118	SCALANCE W774 M12 EEC for an extended range of ambient conditions
7/124	KEY-PLUG W700
7/125	CLP W700
7/128	Access points IEEE 802.11ax
7/128	SCALANCE WAM766-1 for indoor use
7/135	SCALANCE WAM766-1 EEC for an extended range of ambient conditions
7/141	SIMATIC RF1000
7/142	RF1040R
7/145	RF1060R
7/148	RF1070R
7/151	Transponders
7/151	MDS E600
7/154	Process coupling
7/154	Connecting cables
7/162	IE TP cord
7/168	RS485 bus connector
7/172	IE FC RJ45 plug 2 x 2, Cat5e
7/176	IE FC RJ45 plugs 4 x 2, Cat6a
7/179	IE FC TP cable 2 x 2
7/188	IE FC TP cable 4 x 2

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Overview



HMI accessories, connection



SIMATIC not only offers first-class Panels, Thin Clients and IPCs, but also an extensive range of original accessories which harmonizes optimally with the core products. We place the same quality requirements on our accessories as we do on our core products.

Since accessory parts are required over the entire service life of a product despite wear, everything is done to ensure that all accessories remain available throughout the entire life cycle of the core products. In the event of deviations in exceptional cases, a relevant product announcement will be placed in the Customer Support area. We recommend subscribing to these announcements electronically.

SIMATIC accessories are intended exclusively for industrial use, such as in offices, workshops etc. In some cases, accessories can also be used with competitor products. This use is at your own responsibility.

The range of accessories includes:

- Batteries (rechargeable buffer battery, lithium batteries, main rechargeable battery, etc.)
- Fixing elements (memory card lock, wall-mounting bracket, mounting frame, adapter frame, mounting clips, mounting bracket, etc.)
- Labeling strips (labeling strips, front film, labeling set, protective sleeve, etc.)
- Input devices, USB cables (keyboards, mice)
- Input aids (touch pens)
- HMI connecting components (converters, connectors, adapters)

Overview (continued)

- IWLAN accessories (access points, KeyPlug, power supplies, Moby D, small parts)
- Power supply units, power cables (power supply units, non-heating apparatus cables)
- Back covers (in IP20 design)
- Protective films
- Protective covers, dust caps (covers, caps, port keys, USB/RJ45)
- Service sets (spare parts package with coordinated contents)
- Storage media (MM memory card, SD memory card, PC memory card, PC memory card adapter, CF memory card, USB memory stick, USB flash drive, memory module for pushbutton Panels, memory expansions)
- Transport and storage (bags and handles)
- Distribution boards (USB HUB, USB extensions, keyboard, video, mouse switch, Ethernet switch)
- Other accessories (e.g. spare key, spare cover)
- Process coupling
  - Connecting cables
  - Bus connector DP
  - Bus connector PN

The aim is to offer accessories as new parts throughout the entire life cycle of the core product.

This cannot be guaranteed because the consumer market changes quickly.

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Overview





HMI accessories, battery, accumulator

Batteries and accumulators

The following batteries and accumulators are available:

- Rechargeable buffer battery
- Button cell
- Main rechargeable battery

Note:

Transporting lithium batteries by air is not possible at all, or only feasible under restricted conditions.
When ordering replacements, please allow transport times of up to 6 months depending on the region (outside the EU).
Please read the notes under "More information".

Selection and ordering data

Rechargeable buffer battery for Mobile Panel for wired Mobile Panels	**6AV6671-5AD00-0AX0**
Main rechargeable battery for Mobile Panel IWLAN	**6AV6671-5CL00-0AX1**
Lithium battery for SIMATIC HMI and S7	**W79084-E1001-B2**

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Technical specifications

Article number	6AV6671-5AD00-0AX0 Buffer battery Mobile Panel	6AV6671-5CL00-0AX1 Main battery Mobile Panel IWLAN	W79084E-1001B- 2 Lithium battery SIMATIC HMI and C7
General information			
Product type designation	Rechargeable back-up battery Mobile Panel	Main battery Mobile Panel IWLAN	Lithium battery
Installation type/mounting			
Mounting	pluggable	pluggable	
Wall mounting/direct mounting	Yes; in HMI devices, battery compartment	Yes; in HMI devices, battery compartment	Yes; in HMI devices, battery compartment
Supply voltage			
Design of the power supply	via basic unit	via basic unit	
Rated value (DC)	3.7 V	7.4 V	3.6 V
Battery			
Design			
• Button cell	No		
Accumulator			
Charge status display	No	Yes; 20% increments	No
Rechargeable	Yes	Yes	No
Capacity	1.85 A·h	5.8 A·h; max. 30% charge for shipping	1.6 A·h
Lithium-ion	Yes; 1/CP11/34/50 01 CGA	Yes; INR18650-29E	Yes; SL-361
Special design	Yes; flat	Yes; bent	Yes; 2/3 AA
Degree and class of protection			
IP (all-round)		IP20	
Standards, approvals, certificates			
CE mark	Yes	Yes	
UKCA mark	Yes	Yes	
CSA approval	No		
UL approval	Yes	Yes	
cULus	Yes	Yes	
cURus	No	No	
FM approval	No		
RCM (formerly C-TICK)	No		
KC approval	No	No	
EAC (formerly Gost-R)	Yes	No	
CCC	No	No	
RoHS conformity	Yes	Yes	Yes
China RoHS compliance	Yes	Yes	
Ambient conditions			
Suited for indoor use	Yes	Yes	
Ambient temperature during operation			
• min.	-20 °C; charging temperature deviates	-20 °C; charging temperature deviates	0 °C
• max.	55 °C; charging temperature deviates	55 °C; charging temperature deviates	55 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
Connection method			
Connector type	Connection plug		
Mechanics/material			
Material			
• plastic		Yes; Enclosure, black	
Enclosure material (front)			
• Plastic	Yes		

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Technical specifications (continued)

Article number	6AV6671-5AD00-0AX0 Buffer battery Mobile Panel	6AV6671-5CL00-0AX1 Main battery Mobile Panel IWLAN	W79084E-1001B- 2 Lithium battery SIMATIC HMI and C7
Dimensions			
Width	35 mm; specification without housing	75 mm	
Height	50 mm; specification without housing	78 mm	
Thickness	15 mm; specification without housing	33 mm	
Length			33 mm
Diameter			14.7 nm
Width of the housing front	37 mm		
Height of housing front	77 mm		
Weights			
Weight (without packaging)	38 g	220 g	12 g
Scope of supply			
Delivery quantity in pieces	1; incl. 65 mm connecting cable	1; with ejector	1; incl. 220 mm connecting cable
Other			
Merchandise	No; 1S1P CGA103450A	No; 2INR19/66-2 01 INR18650-29E	Yes; SL2361 PGHK
Manufacturer name	SIEMENS AG	SIEMENS AG	Tadiran Batteries GmbH
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Industriestr. 22, 63654 Büdingen, Germany
contacting the manufacturer	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com	Email: anfrage@distrelec.de
Target devices	for Mobile Panel DP cabled, Mobile Panel PN cabled, Mobile Panel 277 IWLAN, Mobile Panel 277F IWLAN	for Mobile Panel 277 IWLAN, Mobile Panel 277F IWLAN, Mobile Panel 277 IWLAN V2, Mobile Panel 277F IWLAN V2, Mobile Panel 277F IWLAN (RFID tag)	For TD17, OP17, OP25, OP27, OP35, OP37, TP27, TP37, OP/TP270, MP270, MP270B, MP370
Note:	Dispose of battery (lithium) properly; hazardous product!	Dispose of battery (lithium) properly; hazardous product!	Dispose of battery (lithium) properly; hazardous product!

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Overview



Fixing elements

All parts required to install a SIMATIC device are listed here.

Depending on the device, various fasteners are available for attaching the Panel.

- Interlock
- Wall brackets and fixing elements
- Mounting frame [1)]
- Adapter frame
- Mounting clip
- Mounting bracket
- Installation enclosure

[1)] The mounting frame for the USB HUB4 is contained in the service set (see "Service sets").

Mounting frames enable compliance with device-specific degrees of protection IP65, NEMA4x and NEMA12 if the thickness of the mounting plate is less than the minimum plate thickness specified in the operating instructions of the device. The mounting frames have been specially developed for thin plates.

Selection and ordering data

Mounts and interlocks	
Memory card lock	
• 4"	**6AV2181-4DM10-0AX0**
• 7" ... 22"	**6AV2181-4XM00-0AX0**
Wall-mounting bracket for Mobile Panels	
• Type 10, for Mobile Panel and Mobile Client900, without cable storage	**6AV6574-1AF04-4AA0**
• Type 13, for KTP Mobile Panels	**6AV2181-5AG80-0AX0**
For IP65 installation of Panels in thin-walled mounting plates	
Mounting frame for stabilizing and increasing the strength of the mounting plate	
• 8" Touch	**6AV6671-3CS00-0AX0**
• 8" Key	**6AV6671-3CS01-0AX0**
• 10"/12" Touch	**6AV6671-8XS00-0AX0**
• 7" Unified Panels	**6AV6881-0GD33-0DA0**
• 10" Unified Panels	**6AV6881-0KD33-0DA0**
• 12" Unified Panels	**6AV6881-0MD33-0DA0**
• 15" Unified Panels	**6AV6881-0QD33-0DA0**
• 19" Unified Panels	**6AV6881-0UD33-0DA0**
• 22" Unified Panels	**6AV6881-0VD33-0DA0**
Mounting clip/bracket for practical mounting of SIMATIC Panels, Thin Client and IPCs	
Mounting clip	
• Aluminum	**6AV6671-8XK00-0AX0**
• Spring	**6AV6671-8XK00-0AX1**
• Plastic	**6AV6671-8XK00-0AX2**
• Sheet steel	**6AV6671-8XK00-0AX3**
• Captive sheet steel	**6AV6881-6AD10-0AA0**
• Die-cast aluminum	**6AV2185-8MA00-0AA0**
• Thin Client	**6AV6671-6AP00-0AX0**
• Thin Client spring	**6AV6671-6AP00-0AX1**
Mounting bracket Steel	**6AV6671-8XK00-0AX4**
Interlock bolt Interlock bolt for PRO keyboards and keyboard trays to lock the tilt adjustment, hardened V2A	**6AV6881-4AW41-4AA0**
VESA 100/75 in IP20 / ST37 round tube adapter Can be used with all PRO devices with matching tube connector for support arm systems. ST37 partly RAL 9006, powder-coated	**6AV6881-0AD56-0AA0**
VESA 100/75 in IP20 / V2A round tube adapter Can be used with all PRO devices with matching tube connector for support arm systems.	
• 100% V2A	**6AV6881-0AD56-2CA0**
• 100% V2A with icotek cable entry	**6AV6881-0AD56-3CA0**

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Selection and ordering data (continued)

Adapter frame	
Adapter frame for widescreen touch devices (Unified Comfort Panels and ITC V3)	
• Widescreen adapter frame for 15" touch devices	**6AV6881-6QD41-0AA0**
• Widescreen adapter frame for 19" touch devices	**6AV6881-6UD41-0AA0**
• Widescreen adapter frame for 22" touch devices	**6AV6881-6VD41-0AA0**
Adapter frame 19" rack For installation of 19" devices (HMI Panels or IPCs) in a 19" rack structure or other structures with 19" grid size	**6AV6881-6UD42-0AA0**
Installation enclosure for KP8 and KP8F Prefabricated IP65 installation enclosure for KP8 and KP8F, including 2 x 22.5 mm cutouts for long stroke keys or switches. Supplied with blanking covers. Max. of 4 cables can be connected in IP65, cable sleeves enclosed. The enclosure can be permanently mounted or used as a portable device. The Key Panel is not included in the scope of delivery.	**6AV6881-2AM12-2AA0**
Installation enclosure KP8F Prefabricated IP65 installation enclosure KP8F, including 1x 22.5 mm cutout. Supplied with an emergency off button Max. of 4 cables can be connected in IP65, cable sleeves enclosed. The enclosure can be permanently mounted or used as a portable device. The Key Panel is not included in the scope of delivery.	**6AV6881-2AM12-1AA0**
icotek replacement grommets	
• single for 4-5 mm cable	**6AV6881-0AM62-0AD0**
• single for 5-6 mm cable	**6AV6881-0AM62-0AE0**
• single for 6-7 mm cable	**6AV6881-0AM62-0AF0**
• single for 7-8 mm cable	**6AV6881-0AM62-0AG0**
• single for 8-9 mm cable	**6AV6881-0AM62-0AH0**
• single for 9-10 mm cable	**6AV6881-0AM62-0AJ0**
• double for 6 mm cable	**6AV6881-0AM62-0AQ0**
• double for 8 mm cable	**6AV6881-0AM62-0AR0**
• single dummy grommet	**6AV6881-0AM62-0AX0**

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Technical specifications

Article number	6AV6881-0UD33-0DA0	6AV6881-0QD33-0DA0	6AV6881-0VD33-0DA0	6AV6881-0GD33-0DA0	6AV6881-0KD33-0DA0
	Mounting frame 19" Unified Panels	Mounting frame 15" Unified Panels	Mounting frame 22" Unified Panels	Mounting frame 7" Unified Panels	Mounting frame 10" Unified Panels
General information					
Product type designation	mounting frame	mounting frame	mounting frame	mounting frame	mounting frame
Display					
Suitable for screen diagonal	18.5 in	15.6 in	21.5 in	7 in	10.1 in
Installation type/mounting					
Mounting type	Backplane mounting	Backplane mounting	Backplane mounting	Backplane mounting	Backplane mounting
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates					
CE mark	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation
REACH	Yes; Tested	Yes; Tested	Yes; Tested	Yes; Tested	Yes; Tested
RoHS conformity	Yes; Tested / compliant	Yes; Tested / compliant	Yes; Tested / compliant	Yes; Tested / compliant	Yes; Tested / compliant
Use in hazardous areas					
• ATEX Zone 2	No	No	No	No	No
• ATEX Zone 22	No	No	No	No	No
• ATEX as target device	No	No	No	No	No
• IECEx Zone 1	No	No	No	No	No
• IECEx Zone 11	No	No	No	No	No
• IECEx Zone 2	No	No	No	No	No
• IECEx Zone 22	No	No	No	No	No
• cULus Class I Zone 1	No	No	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No	No	No
• cULus Class II Division 2	No	No	No	No	No
• FM Class I Division 2	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No
Marine approval					
• Germanischer Lloyd (GL)	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No
• Marine approval as target device	No	No	No	No	No
Ambient conditions					
Suited for indoor use	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No
Ambient temperature during operation					
• min.	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C	80 °C	80 °C
Relative humidity					
• Operation, max.	90 %	90 %	90 %	90 %	90 %
Mechanics/material					
Enclosure material (front)					
• Sheet metal	Yes; Powder-coated	Yes; Powder-coated	Yes; Powder-coated	Yes; Powder-coated	Yes; Powder-coated

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Technical specifications (continued)

Article number	6AV6881-0UD33-0DA0	6AV6881-0QD33-0DA0	6AV6881-0VD33-0DA0	6AV6881-0GD33-0DA0	6AV6881-0KD33-0DA0
	Mounting frame 19" Unified Panels	Mounting frame 15" Unified Panels	Mounting frame 22" Unified Panels	Mounting frame 7" Unified Panels	Mounting frame 10" Unified Panels
Dimensions					
Width	477.5 mm	411.5 mm	542.5 mm	227.5 mm	293.5 mm
Height	307.5 mm	270.5 mm	344.5 mm	171.5 mm	218.5 mm
Thickness	4 mm	4 mm	4 mm	4 mm	4 mm
Mounting cutout, width	447.5 mm	381.5 mm	512.5 mm	197.5 mm	263.5 mm
Mounting cutout, height	277.5 mm	240.5 mm	314.5 mm	141.5 mm	188.5 mm
Weights					
Weight, approx.	1.8 kg	1.5 kg	2.1 kg	0.6 kg	0.9 kg
Scope of supply					
Delivery quantity in pieces	1; frame	1; frame	1; frame	1; frame	1; frame
Other					
Merchandise	Yes; mounting frame WFP2.3	Yes; mounting frame WFP2.3	Yes; mounting frame WFP2.3	Yes; mounting frame WFP2.3	Yes; mounting frame WFP2.3
Manufacturer name	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG
Manufacturer's address	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer	email: querumproducts@web.de	email: querumproducts@web.de	email: querumproducts@web.de	email: querumproducts@web.de	email: querumproducts@web.de
Target devices	for Unified Comfort Panels to reinforce the mounting plate thickness	for Unified Comfort Panels to reinforce the mounting plate thickness	for Unified Comfort Panels to reinforce the mounting plate thickness	for Unified Comfort Panels to reinforce the mounting plate thickness	for Unified Comfort Panels to reinforce the mounting plate thickness
Note:	ensures tightness with thin mounting plates	ensures tightness with thin mounting plates	ensures tightness with thin mounting plates	ensures tightness with thin mounting plates	ensures tightness with thin mounting plates

Article number	6AV6881-6QD41-0AA0	6AV6881-6UD41-0AA0	6AV6881-6VD41-0AA0	6AV6881-6UD42-0AA0
	Adapter Frame Widescreen 15" Touch	Adapter Frame Widescreen 19" Touch	Adapter Frame Widescreen 22" Touch	Adapter frame widescreen 19" Rack
General information				
Product type designation	Adapter frame 15" touch widescreen	Adapter frame 19" touch widescreen	Adapter frame 22" touch widescreen	Adapter frame 19" rack widescreen
Display				
Suitable for screen diagonal				18.5 in
Installation type/mounting				
Mounting				Mounting on 19" standard rack
Mounting type				Provided by customer
Rack mounting				Yes; 8U
Mounting in portrait format possible	Yes	Yes	Yes	No
Mounting in landscape format possible	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV6881-6QD41-0AA0 Adapter Frame Widescreen 15" Touch	6AV6881-6UD41-0AA0 Adapter Frame Widescreen 19" Touch	6AV6881-6VD41-0AA0 Adapter Frame Widescreen 22" Touch	6AV6881-6UD42-0AA0 Adapter frame widescreen 19" Rack
Standards, approvals, certificates				
CE mark	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation
REACH	Yes; Tested	Yes; Tested	Yes; Tested	Yes; Tested
RoHS conformity	Yes; Tested / compliant	Yes; Tested / compliant	Yes; Tested / compliant	Yes; Tested / compliant
Use in hazardous areas				
• ATEX Zone 2	No	No	No	No
• ATEX Zone 22	No	No	No	No
• ATEX as target device	No	No	No	No
• IECEx Zone 1	No	No	No	No
• IECEx Zone 11	No	No	No	No
• IECEx Zone 2	No	No	No	No
• IECEx Zone 22	No	No	No	No
• cULus Class I Zone 1	No	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No	No
• cULus Class II Division 2	No	No	No	No
• FM Class I Division 2	No	No	No	No
• FM Class II Division 2	No	No	No	No
Marine approval				
• Germanischer Lloyd (GL)	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No
• Marine approval as target device	No	No	No	No
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No; possible under certain conditions
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	-40 °C
• max.	50 °C	50 °C	50 °C	80 °C
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
• Condensation permissible				No; Condensation not permissible
Accessories				
Function description	mechanical adapter	mechanical adapter	mechanical adapter	mechanical adapter
Mechanics/material				
Enclosure material (front)				
• Aluminum	Yes; Powder-coated	Yes; Powder-coated	Yes; Powder-coated	
• Sheet metal				Yes; Powder-coated
Dimensions				
Width	411.2 mm	480.2 mm	557.2 mm	482.6 mm
Height	306.2 mm	334.2 mm	377.2 mm	354.75 mm
Depth	33 mm	33 mm	33 mm	
Thickness				3 mm
Mounting cutout, width	396.2 mm; existing mounting cut-out	465.2 mm; existing mounting cut-out	542.2 mm; existing mounting cut-out	449 mm
Mounting cutout, height	291.2 mm; existing mounting cut-out	319.2 mm; existing mounting cut-out	362.2 mm; existing mounting cut-out	279 mm
mounting depth	25 mm	25 mm	25 mm	

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Technical specifications (continued)

Article number	6AV6881-6QD41-0AA0 Adapter Frame Widescreen 15" Touch	6AV6881-6UD41-0AA0 Adapter Frame Widescreen 19" Touch	6AV6881-6VD41-0AA0 Adapter Frame Widescreen 22" Touch	6AV6881-6UD42-0AA0 Adapter frame widescreen 19" Rack
Scope of supply				
Delivery quantity in pieces	1; Adapter frame 15"	1; Adapter frame 19"	1; Adapter frame 22"	1; Adapter frame 19" rack
Components included	incl. mounting accessories	incl. mounting accessories	incl. mounting accessories	Without additional accessories
Other				
Merchandise	No	No	No	Yes; Adapter frame 19" rack widescreen
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	QUERUM products UG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer				email: querumproducts@web.de
Target devices				19": UCP, ITC, IFP, IPC
Note:	observe the user manual	observe the user manual	observe the user manual	Observe documentation of the target device

Article number	6AV6671-3CS00-0AX0 Mounting frame 8" Touch	6AV6671-3CS01-0AX0 Mounting frame 8" Key	6AV6671-8XS00-0AX0 Mounting frame 10" to 12" Touch devices
General information			
Product type designation	Mounting frame 8" touch	Mounting frame 8" key	Mounting frame 10" ... 12" touch devices
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	No; No CE marking obligation
REACH			Yes; Tested
RoHS conformity	Yes	Yes	Yes; Tested / compliant
Use in hazardous areas			
• ATEX Zone 2			No
• ATEX Zone 22			No
• ATEX as target device			No
• IECEx Zone 1			No
• IECEx Zone 11			No
• IECEx Zone 2			No
• IECEx Zone 22			No
• cULus Class I Zone 1			No
• cULus Class I Zone 2, Division 2			No
• cULus Class II Division 2			No
• FM Class I Division 2			No
• FM Class II Division 2			No
Marine approval			
• Germanischer Lloyd (GL)			No
• American Bureau of Shipping (ABS)			No
• Bureau Veritas (BV)			No
• Det Norske Veritas (DNV)			No
• Korean Register of Shipping (KRS)			No
• Lloyds Register of Shipping (LRS)			No
• Nippon Kaiji Kyokai (Class NK)			No
• Polski Rejestr Statkow (PRS)			No
• Chinese Classification Society (CCS)			No
• Marine approval as target device			No

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Technical specifications (continued)

Article number	6AV6671-3CS00-0AX0 Mounting frame 8" Touch	6AV6671-3CS01-0AX0 Mounting frame 8" Key	6AV6671-8XS00-0AX0 Mounting frame 10" to 12" Touch devices
Ambient conditions			
Suited for indoor use			Yes
Suited for outdoor use			No
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
Mechanics/material			
Material			
• Sheet metal			Yes; Powder-coated
Enclosure material (front)			
• Sheet metal	Yes	Yes	Yes; Powder-coated
Scope of supply			
Delivery quantity in pieces	1	1	1; Adapter frame 10"
Other			
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For MP277 8" touch	For MP277 8" key	For KTP1000 Basic, MP277 10" touch, MP377 12" touch, Thin Client 10"

Article number	6AV6671-8XK00-0AX0 Aluminum mounting clip	6AV6671-8XK00-0AX1 Spring mounting clip	6AV6671-8XK00-0AX2 Plastic mounting clip	6AV6671-8XK00-0AX3 Steel mounting clip
General information				
Product type designation	Mounting clip, aluminum	Mounting clip, spring	Mounting clip, plastic	Mounting clip, steel
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes
Degree and class of protection				
IP (all-round)			none	none
Standards, approvals, certificates				
CE mark	No; No CE marking obligation			
RoHS conformity	Yes	Yes		
Use in hazardous areas				
• ATEX Zone 2	Yes; Always comply with the operating instructions of the target device.			
• ATEX Zone 22	Yes; Always comply with the operating instructions of the target device.			
• IECEx Zone 2	Yes; Always comply with the operating instructions of the target device.			
• IECEx Zone 22	Yes; Always comply with the operating instructions of the target device.			

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Technical specifications (continued)

Article number	6AV6671-8XK00-0AX0 Aluminum mounting clip	6AV6671-8XK00-0AX1 Spring mounting clip	6AV6671-8XK00-0AX2 Plastic mounting clip	6AV6671-8XK00-0AX3 Steel mounting clip
Ambient conditions				
Suited for indoor use	Yes			
Suited for outdoor use	Yes; possible under certain conditions			
Ambient temperature during operation				
• min.	-40 °C	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C	80 °C
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
Mechanics/material				
Material				
• plastic			Yes	
• Aluminum	Yes			
• Sheet metal				Yes
Enclosure material (front)				
• plastic		Yes; For 1 ... 4 mm sheet thickness		
Screw type				
• 4.5 V	Yes		Yes; Original partially Phillips screw	Yes
Torques/forces				
• Tightening torque, min.			0.18 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	0.18 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed
• Tightening torque, max.			0.2 N·m	0.2 N·m
• Tightening torque, recommended			0.2 N·m; Higher torques may damage the product	0.2 N·m; Higher torques may damage the product
Dimensions				
Width	15 mm	20 mm	30 mm	20 mm
Height	21 mm; Without screw	35 mm	17 mm; Without screw	15 mm; Without screw
Depth	15 mm			
Thickness		20 mm	8 mm	8 mm
Weights				
Weight (without packaging)	5 g; Per unit	8 g; Per unit	4 g; Per unit	4 g; Per unit
Scope of supply				
Delivery quantity in pieces	20; Units per set	20; Spring-loaded terminals	20; Units per set	20
Other				
Merchandise	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
contacting the manufacturer		Email: simatic_hmi_panel_helpdes-k.i-ia@siemens.com		
Target devices	TP177-4", TP/OP277-6", MP177-6, MP277-10"T, MP277-8", MP277-8"T, MP277-10"K, MP377 12"-19", TC 10", TC 15", KTP400 Basic mono, KTP600 Basic, KTP1000 Basic, TP1500 Basic, KP700 Comfort, TP700 Comfort, KP900 Comfort, TP900 Comfort, KP1200 Comfort, TP1200 Comfort and IPC277D 7", 9", 12"	TP177-4", TP/OP 277-6", MP177-6, MP277-10" T, MP277-8", MP277-8"T, MP277-10"K, MP377 12-19", TC 10", TC 15", KTP400 Basic mono, KTP600, KTP1000, KTP1500, KP700 Comfort, TP700 Comfort, KP900 Comfort, TP900 Comfort, KP1200 Comfort, TP1200 Comfort and IPC 277D 7, 9, 12"	for TD17, OP7, OP17, OP73, OP77A/B, TP/OP17x except TP177 4", Push Button Panel, Key Panel, empty front design, KP300 Basic mono, Basic 2nd, KTP400 Comfort, USB hub, sheet thickness 2 ... 6 mm	15", 19" and 22" widescreen - Comfort Panels, IPCs, Flat Panels and Thin Clients. Plate thicknesses up to 6 mm
Note:				Function-compatible to article number 6AV6671-8XK00-0AX4

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Technical specifications (continued)

Article number	6AV6881-6AD10-0AA0 Steel mounting clip, type 2	6AV2185-8MA00-0AA0 Aluminum diecast mounting clip	6AV6671-6AP00-0AX0 Mounting clip Thin Client	6AV6671-6AP00-0AX1 Spring mounting clip Thin Client
General information				
Product type designation	Mounting clip, steel, type 2	Mounting clip, die-cast aluminum	Mounting clip, aluminum	Mounting clip, spring
Installation type/mounting				
Mounting in portrait format possible	Yes		Yes	Yes
Mounting in landscape format possible	Yes		Yes	Yes
Standards, approvals, certificates				
CE mark	No; No CE marking obligation			
RoHS conformity	Yes	Yes		Yes
Use in hazardous areas				
• ATEX Zone 2	Yes; Always comply with the operating instructions of the target device.			
• ATEX Zone 22	Yes; Always comply with the operating instructions of the target device.			
• IECEx Zone 2	Yes; Always comply with the operating instructions of the target device.			
• IECEx Zone 22	Yes; Always comply with the operating instructions of the target device.			
Ambient conditions				
Suited for indoor use	Yes			
Suited for outdoor use	Yes; possible under certain conditions			
Ambient temperature during operation				
• min.	-40 °C	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C	80 °C
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
Mechanics/material				
Material				
• plastic	Yes; Interlock			
• Sheet metal	Yes			
Enclosure material (front)				
• Plastic				Yes; For 1 ... 4 mm sheet thickness
• Sheet metal			Yes	
• Aluminum casting		Yes		
Screw type	M4x30 round head screw			
• Cross-tip	Yes			
• 4.5 V	Yes		Yes	
• Hexagon socket		Yes		
Dimensions				
Width	19 mm	12 mm	15 mm	20 mm
Height	11.3 mm; Without screw	18.5 mm; Without screw	20 mm; Without screw	35 mm
Depth	15 mm			
Thickness		14 mm	15 mm	20 mm
Weights				
Weight (without packaging)	8 g	0.14 kg	4 g; Per unit	8 g; Per unit
Scope of supply				
Delivery quantity in pieces	20; Units per set	20	6; Incl. screw	6; Spring-loaded terminals

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Technical specifications (continued)

Article number	6AV6881-6AD10-0AA0 Steel mounting clip, type 2	6AV2185-8MA00-0AA0 Aluminum diecast mounting clip	6AV6671-6AP00-0AX0 Mounting clip Thin Client	6AV6671-6AP00-0AX1 Spring mounting clip Thin Client
Other				
Merchandise	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Breslauer Strasse 5, 90766 Fürth, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	Panel and IPC from 2019	Comfort Panels INOX, ITC INOX, IFP INOX	SIMATIC Thin Client	SIMATIC Thin Client
Note:				Function-compatible to article number 6AV6671-8XK00-0AX1

Article number	6AV6671-8XK00-0AX4 Steel mounting clamp	6AV6881-4AW41-4AA-0 Locking bolt PRO	6AV6881-0AD56-0AA0 Flange mount adapter VESA 100/75	6AV6881-0AD56-2CA0 Flange mount adapter VESA 100/75 INOX	6AV6881-0AD56-3CA0 Flange mount adapter VESA 100/75, IP65
General information					
Product type designation	Mounting bracket, steel	PRO interlock bolts:	VESA 100/75 flange adapter	VESA flange mount adapter 100/75 INOX	VESA 100/75 flange mount IP65
Installation type/mounting					
Mounting			VESA 100 mm / 75 mm with M6 thread	VESA 100 mm / 75 mm with M6 thread	VESA 100 mm / 75 mm with M6 thread
Mounting type			Support arm with VESA 100 mm or 75 mm	Support arm with VESA 100 mm or 75 mm	Support arm with VESA 100 mm or 75 mm
Mounting in portrait format possible	Yes	Yes			
Mounting in landscape format possible	Yes	Yes			
Degree and class of protection					
IP (all-round)	none	none			
IP (at the front)			IP20 (depending on mounting)	IP20 (depending on mounting)	IP65
Standards, approvals, certificates					
Use in hazardous areas					
• ATEX Zone 2					No
• ATEX Zone 22					No
• ATEX as target device					No
• IECEx Zone 1					No
• IECEx Zone 11					No
• IECEx Zone 2					No
• IECEx Zone 22					No
• cULus Class I Zone 1					No
• cULus Class I Zone 2, Division 2					No
• cULus Class II Division 2					No
• FM Class I Division 2					No
• FM Class II Division 2					No
Marine approval					
• Germanischer Lloyd (GL)					No
• American Bureau of Shipping (ABS)					No
• Bureau Veritas (BV)					No
• Det Norske Veritas (DNV)					No
• Korean Register of Shipping (KRS)					No

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Technical specifications (continued)

Article number	6AV6671-8XK00-0AX4	6AV6881-4AW41-4AA-0	6AV6881-0AD56-0AA0	6AV6881-0AD56-2CA0	6AV6881-0AD56-3CA0
	Steel mounting clamp	Locking bolt PRO	Flange mount adapter VESA 100/75	Flange mount adapter VESA 100/75 INOX	Flange mount adapter VESA 100/75, IP65
• Lloyds Register of Shipping (LRS)					No
• Nippon Kaiji Kyokai (Class NK)					No
• Polski Rejestr Statkow (PRS)					No
• Chinese Classification Society (CCS)					No
• Marine approval as target device					No
Ambient conditions					
Suited for indoor use			Yes	Yes	Yes
Suited for outdoor use			No	No	No
Ambient temperature during operation					
• min.	-40 °C	-40 °C	0 °C	0 °C	0 °C
• max.	80 °C	80 °C	55 °C	55 °C	55 °C
Relative humidity					
• Operation, max.	90 %	90 %	90 %	90 %	90 %
• Condensation permissible			No	No	No
Mechanics/material					
Interlock design		M8 screw fastening			
Material			steel		
• Aluminum			No		
• Sheet metal			Yes; 11SMnPb30 + C		
• Stainless steel				Yes; Stainless steel V2A	Yes; Stainless steel V2A
• PET			No		
Enclosure material (front)					
• plastic		Yes; mushroom knob, thermoplast, black gray			
• Sheet metal	Yes				
• Stainless steel		Yes; pin, hardened			
Enclosure material (rear)			sheet metal S235 powder-coated		
Screw type					
• 4.5 V	Yes				
Torques/forces					
• Tightening torque, min.	0.18 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	0.18 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed			
• Tightening torque, max.	0.2 N·m	0.2 N·m			
• Tightening torque, recommended	0.2 N·m; Higher torques may damage the product	0.2 N·m; Higher torques may damage the product			
Dimensions					
Width	142 mm		135 mm	135 mm	135 mm; VESA 100/75 PRO INOX adapter
Height	18 mm; Without screw		120 mm	120 mm	120 mm; VESA 100/75 PRO INOX adapter
Depth			67.5 mm	67.5 mm	67.5 mm; VESA 100/75 PRO INOX adapter
Thickness	8 mm				
Length		40.5 mm; total length			
Diameter		8 mm			
Weights					
Weight (without packaging)	30 g; Per unit	5 g; Per unit			

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Technical specifications (continued)

Article number	6AV6671-8XK00-0AX4	6AV6881-4AW41-4AA-0	6AV6881-0AD56-0AA0	6AV6881-0AD56-2CA0	6AV6881-0AD56-3CA0
	Steel mounting clamp	Locking bolt PRO	Flange mount adapter VESA 100/75	Flange mount adapter VESA 100/75 INOX	Flange mount adapter VESA 100/75, IP65
Scope of supply					
Delivery quantity in pieces	10	1; Units per set	1; VESA round tube adapter 100/75 suitable for PRO devices, max. IP20 attainable	1; VESA round tube adapter 100/75 suitable for PRO devices, max. IP20 attainable	2; 1x VESA INOX IP65 adapter and 1x INOX cable entry INOX IP65 with ICOTEK 3-fach cable entry 6 mm
Components included			Without additional accessories	Without additional accessories	Without additional accessories
Other					
Merchandise	No	Yes; 03093-201004	Yes; VESA 100/75 PRO adapter	Yes; VESA 100/75 PRO INOX adapter	Yes; VESA 100/75 PRO INOX adapter set IP65
Manufacturer name	SIEMENS AG	Berner + Straller GmbH	QUERUM products UG	QUERUM products UG	QUERUM products UG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Wörnitzstr. 117, 90449 Nuremberg, Deutschland	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer		Email: nuernberg@berner-straller.de	email: querumproducts@web.de	email: querumproducts@web.de	
Target devices	15", 19" and 22" widescreen - Comfort Panels, IPCs, Flat Panels and Thin Clients, except SCD1900 19" widescreen. Plate thicknesses up to 6 mm	for locking inclination adjustments, e.g. suitable for keyboards or shelves	Not suitable for 19" 4:3 devices	Not suitable for 19" 4:3 devices	Not suitable for 19" 4:3 devices
Note:			Max. load 35 kg, for expandable support arm mounting	Max. load 35 kg, for expandable support arm mounting	Max. load 35 kg, for expandable support arm mounting

Article number	6AV6881-2AM12-2AA0	6AV6881-2AM12-1AA0
	Switch housing KP8	Switch housing KP8F
General information		
Product type designation	Fixing element	Fixing element
Control elements		
Version of actuating element	Without, with 2x 22.5 mm blanking plugs	1x emergency stop (1 NC contact / 1 NO contact)
Operating principle of the actuating element		Latching, rotate to unlatch
With parameterizable keys	Yes; Retrofittable with KP8 or KP8F (not included in the scope of supply)	Yes; Retrofittable with KP8F (not included in the scope of supply)
Contact configuration	optionally retrofittable with switch, pushbutton, keyswitch, etc.	1 NC contact, 1 NO contact
Installation type/mounting		
Mounting	For horizontal and vertical mounting	For horizontal and vertical mounting
Mounting type	Backplane mounting	Backplane mounting
Mounting in portrait format possible	Yes	Yes
Mounting in landscape format possible	Yes	Yes
Degree and class of protection		
IP (all-round)	IP65	IP65

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Technical specifications (continued)

Article number	6AV6881-2AM12-2AA0 Switch housing KP8	6AV6881-2AM12-1AA0 Switch housing KP8F
Standards, approvals, certificates		
REACH	Yes	Yes
RoHS conformity	Yes; unnecessary	Yes; unnecessary
Use in hazardous areas		
• ATEX Zone 2	No	No
• ATEX Zone 22	No	No
• ATEX as target device	No	No
• IECEx Zone 1	No	No
• IECEx Zone 11	No	No
• IECEx Zone 2	No	No
• IECEx Zone 22	No	No
• cULus Class I Zone 1	No	No
• cULus Class I Zone 2, Division 2	No	No
• cULus Class II Division 2	No	No
• FM Class I Division 2	No	No
• FM Class II Division 2	No	No
Marine approval		
• Germanischer Lloyd (GL)	No	No
• American Bureau of Shipping (ABS)	No	No
• Bureau Veritas (BV)	No	No
• Det Norske Veritas (DNV)	No	No
• Korean Register of Shipping (KRS)	No	No
• Lloyds Register of Shipping (LRS)	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No
• Polski Rejestr Statkow (PRS)	No	No
• Chinese Classification Society (CCS)	No	No
• Marine approval as target device	No	No
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	No; possible under certain conditions	No; possible under certain conditions
Ambient temperature during operation		
• min.	0 °C; Operating temperature KP8 or KP8F must always be maintained	0 °C; Operating temperature KP8F must always be maintained
• max.	40 °C; Operating temperature KP8 or KP8F must always be maintained	40 °C; Operating temperature KP8F must always be maintained
Relative humidity		
• Operation, max.	90 %	90 %
• Condensation permissible	No; Condensation not permissible	No; Condensation not permissible
Mechanics/material		
Material	aluminum	aluminum
• Aluminum	Yes; Powder-coated	Yes; Powder-coated
Dimensions		
Width	259 mm	259 mm
Height	128 mm	128 mm
Depth	90 mm	90 mm
Scope of supply		
Delivery quantity in pieces	1; Bopla #115234 aluminum enclosure	1; Bopla #115234 aluminum enclosure
Components included	1x Icotek cable entry KEL-ER B4 incl. various grommets	1x Icotek cable entry KEL-ER B4 incl. various grommets

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Technical specifications (continued)

Article number	6AV6881-2AM12-2AA0 Switch housing KP8	6AV6881-2AM12-1AA0 Switch housing KP8F
Other		
Merchandise	Yes	Yes
Manufacturer name	Wittwer Industrielle Elektronik	Wittwer Industrielle Elektronik
Manufacturer's address	Hembacher Straße 4, 90592 Schwarzenbruck-Lindelburg, Germany	Hembacher Straße 4, 90592 Schwarzenbruck-Lindelburg, Germany
contacting the manufacturer	Email: info@wittwer.com	Email: info@wittwer.com
Target devices	Suitable for the installation of KP8, KP8F, do not exceed the maximum operating temperature of the KP!	Suitable for the installation of KP8, KP8F, do not exceed the maximum operating temperature of the KP!
Note:	IP65 can only be attained if a key panel and a cable entry are properly installed.	IP65 can only be attained if a key panel and a cable entry are properly installed.

Article number	6AV6881-0AM62-0AD-0 IcoTek Cable grommets, 4-5	6AV6881-0AM62-0AE0 IcoTek Cable grommets, 5-6	6AV6881-0AM62-0AF0 IcoTek Cable grommets, 6-7	6AV6881-0AM62-0AG-0 IcoTek Cable grommets, 7-8	6AV6881-0AM62-0AH-0 IcoTek Cable grommets, 8-9
General information					
Product type designation	icotek cable grommet, 4-5	icotek cable grommet, 5-6	icotek cable grommet, 6-7	icotek cable grommet, 7-8	icotek cable grommet, 8-9
Control elements					
Frame size/design					
• Standard	Yes; icotek cable grommet	Yes; icotek cable grommet	Yes; icotek cable grommet	Yes; icotek cable grommet	Yes; icotek cable grommet
Degree and class of protection					
IP (all-round)	IP68 (EN 60529)	IP68 (EN 60529)	IP68 (EN 60529)	IP68 (EN 60529)	IP68 (EN 60529)
NEMA (front)	NEMA 4x (when installed)	NEMA 4x (when installed)	NEMA 4x (when installed)	NEMA 4x (when installed)	NEMA 4x (when installed)
NEMA (rear)	NEMA 4x (when installed)	NEMA 4x (when installed)	NEMA 4x (when installed)	NEMA 4x (when installed)	NEMA 4x (when installed)
Standards, approvals, certificates					
UL approval	Yes; UL50E	Yes; UL50E	Yes; UL50E	Yes; UL50E	Yes; UL50E
REACH	Yes	Yes	Yes	Yes	Yes
RoHS conformity	Yes	Yes	Yes	Yes	Yes
Ambient conditions					
Ambient temperature during operation					
• min.	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C
• max.	100 °C	100 °C	100 °C	100 °C	100 °C
Accessories					
Function description	split grommet for cables with connector	split grommet for cables with connector	split grommet for cables with connector	split grommet for cables with connector	split grommet for cables with connector
Mechanics/material					
Material					
• plastic	Yes	Yes	Yes	Yes	Yes
Enclosure material (front)					
• Plastic	Yes; fire class: UL94-V0, self-extinguishing	Yes; fire class: UL94-V0, self-extinguishing	Yes; fire class: UL94-V0, self-extinguishing	Yes; fire class: UL94-V0, self-extinguishing	Yes; fire class: UL94-V0, self-extinguishing
Color	gray (similar to RAL 7035)	gray (similar to RAL 7035)	gray (similar to RAL 7035)	gray (similar to RAL 7035)	gray (similar to RAL 7035)
Dimensions					
Width	21 mm	21 mm	21 mm	21 mm	21 mm
Height	21 mm	21 mm	21 mm	21 mm	21 mm
Depth	19 mm	19 mm	19 mm	19 mm	19 mm
Diameter	4 mm; 4 ... 5 mm cable	5 mm; 5 ... 6 mm cable	6 mm; 6 ... 7 mm cable	7 mm; 7 ... 8 mm cable	8 mm; 8 ... 9 mm cable
Weights					
Weight, approx.	8 g; Per unit	8 g; Per unit	8 g; Per unit	8 g; Per unit	8 g; Per unit
Weight (without packaging)	40 g	40 g	40 g	40 g	40 g
Scope of supply					
Delivery quantity in pieces	5; Units per set	5; Units per set	5; Units per set	5; Units per set	5; Units per set

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Technical specifications (continued)

Article number	6AV6881-0AM62-0AD-0	6AV6881-0AM62-0AE0	6AV6881-0AM62-0AF0	6AV6881-0AM62-0AG-0	6AV6881-0AM62-0AH-0
	IcoTek Cable grommets, 4-5	IcoTek Cable grommets, 5-6	IcoTek Cable grommets, 6-7	IcoTek Cable grommets, 7-8	IcoTek Cable grommets, 8-9
Other					
Merchandise	Yes; KT4gy 41204	Yes; KT5gy 41205	Yes; KT6gy 41206	Yes; KT7gy 41207	Yes; KT8gy 41208
Manufacturer name	icotek GmbH	icotek GmbH	icotek GmbH	icotek GmbH	icotek GmbH
Manufacturer's address	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland
Target devices	icotek cable entry and cable gland	icotek cable entry and cable gland	icotek cable entry and cable gland	icotek cable entry and cable gland	icotek cable entry and cable gland
Note:	further information is available on the manufacturer's homepage.	further information is available on the manufacturer's homepage.	further information is available on the manufacturer's homepage.	further information is available on the manufacturer's homepage.	further information is available on the manufacturer's homepage.

Article number	6AV6881-0AM62-0AJ0	6AV6881-0AM62-0AQ0	6AV6881-0AM62-0AR0	6AV6881-0AM62-0AX0
	IcoTek Cable grommets, 9-10	IcoTek Cable grommets, 6+6	IcoTek Cable grommets, 8+8	IcoTek Cable grommets, blank
General information				
Product type designation	icotek cable grommet, 9-10	icotek cable grommet, 6+6	icotek cable grommet, 8+8	icotek cable grommet, blank
Control elements				
Frame size/design				
• Standard	Yes; icotek cable grommet	Yes; icotek cable grommet	Yes; icotek cable grommet	Yes; icotek cable grommet
Degree and class of protection				
IP (all-round)	IP68 (EN 60529)	IP54 (EN60529)	IP54 (EN60529)	IP68 (EN 60529)
NEMA (front)	NEMA 4x (when installed)			NEMA 4x (when installed)
NEMA (rear)	NEMA 4x (when installed)			NEMA 4x (when installed)
Standards, approvals, certificates				
UL approval	Yes; UL50E	Yes; UL Type12 (UL 50E)	Yes; UL Type12 (UL 50E)	Yes; UL50E
REACH	Yes	Yes	Yes	Yes
RoHS conformity	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	-40 °C	-40 °C	-40 °C	-40 °C
• max.	100 °C	100 °C	100 °C	100 °C
Accessories				
Function description	split grommet for cables with connector			
Mechanics/material				
Material				
• plastic	Yes	Yes	Yes	Yes
Enclosure material (front)				
• Plastic	Yes; fire class: UL94-V0, self-extinguishing	Yes; fire class: UL94-V0, self-extinguishing	Yes; fire class: UL94-V0, self-extinguishing	Yes; fire class: UL94-V0, self-extinguishing
Color	gray (similar to RAL 7035)	gray (similar to RAL 7035)	gray (similar to RAL 7035)	gray (similar to RAL 7035)
Dimensions				
Width	21 mm	21 mm	21 mm	21 mm
Height	21 mm	21 mm	21 mm	21 mm
Depth	19 mm	19 mm	19 mm	19 mm
Diameter	9 mm; 9 ... 10 mm cable	6 mm; 2x 6 mm, cable in a grommet	8 mm; 2x 8 mm, cable in a grommet	0 mm; blank
Weights				
Weight, approx.	8 g; Per unit	8 g; Per unit	8 g; Per unit	8 g; Per unit
Weight (without packaging)	40 g	40 g	40 g	40 g
Scope of supply				
Delivery quantity in pieces	5; Units per set	5; Units per set	5; Units per set	5; Units per set

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Technical specifications (continued)

Article number	6AV6881-0AM62-0AJ0 IcoTek Cable grommets, 9-10	6AV6881-0AM62-0AQ0 IcoTek Cable grommets, 6+6	6AV6881-0AM62-0AR0 IcoTek Cable grommets, 8+8	6AV6881-0AM62-0AX0 IcoTek Cable grommets, blank
Other				
Merchandise	Yes; KT9gy 41209	Yes; KT2/6gy 41201	Yes; KT2/8gy 39917	Yes; BTK gy 41251
Manufacturer name	icotek GmbH	icotek GmbH	icotek GmbH	icotek GmbH
Manufacturer's address	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland	Bischof-von-Lipp-Str. 1, 73569 Eschach, Deutschland
Target devices	icotek cable entry and cable gland	icotek cable entry and cable gland	icotek cable entry and cable gland	icotek cable entry and cable gland
Note:	further information is available on the manufacturer's homepage.	further information is available on the manufacturer's homepage.	further information is available on the manufacturer's homepage.	further information is available on the manufacturer's homepage.

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Overview



Labeling strips and printable films

Labeling strips enable keys and pushbuttons to be labeled. Print templates for the Panels and IPCs are available for downloading free of charge (in SIOS entry ID: 11274631).
They enable you to create transparent films on your own printer.

Perforated labeling strips are available for some classic panels. In this case, make sure that a suitable printer is used.

The thickness of the films should be between 100 and 125 µm.

- Labeling strips
- Front film
- Labeling set
- Protective sleeve

Note:

Protective front films which are specially designed for holding labeling strips are available for Mobile Panel 2nd Generation. The labeling strips can be printed on standard film and attached to the front with adhesive pads. The protective film is then adhered evenly over the Mobile front.

Selection and ordering data

Labeling strips for MP 377 Key	**6AV6574-1AB00-2BA0**
Front film TD400C blank	**6AV6881-0MD33-0DA0**
Front film TD400C blank	**6AV6671-0AP00-0AX0**
Labeling set for Mobile Panel 277	**6AV6671-5BF00-0AX0**
Widescreen labeling set	
• 4" widescreen for KTP400F Mobile 4"	**6AV2181-5DJ10-0AX0**
• 7" widescreen for KTP700 Mobile, KTP700F Mobile	**6AV2181-5GJ10-0AX0**
• 9" widescreen for KTP900 Mobile, KTP900F Mobile	**6AV2181-5JJ10-0AX0**
Protective sleeve for Mobile Panel 170/177	**6AV6574-1AB04-4AA0**

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Technical specifications

Article number	6AV6574-1AB00-2BA0	6ES7272-1BF00-7AA0	6AV6671-0AP00-0AX0	6AV6671-5BF00-0AX0	6AV6574-1AB04-4AA0
	Labeling strips MP 37x Key	TD100C front film, blank	TD400C front film, blank	Labeling set Mobile Panel 277	Protective pouch for labeling strips
General information					
Product type designation	Labeling strip MP 37x key	Front membrane TD100C, blank	Front membrane TD400C, blank	Labeling set Mobile Panel 277	Protective pouch labeling strips
Installation type/mounting					
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates					
CE mark		Yes	Yes	Yes	
RoHS conformity			Yes		
Ambient conditions					
Ambient temperature during operation					
• min.	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C	80 °C	80 °C
Relative humidity					
• Operation, max.	90 %	90 %	90 %	90 %	90 %
Mechanics/material					
Enclosure material (front)					
• plastic	Yes; DIN A4 perforated sheets				
Dimensions					
Width	210 mm	210 mm	210 mm	210 mm	170 mm; Approximate dimension
Height	297 mm	297 mm	297 mm	297 mm	115 mm; Approximate dimension
Thickness	0.13 mm; Max. tolerance ± 0.03 mm				
Width of the housing front			163 mm		
Height of housing front			91 mm		
Weights					
Weight (without packaging)	45 g				
Scope of supply					
Delivery quantity in pieces	1; Contains two sets	10	10	2; 2 sheets with 3 labeling strips each, incl. corner seals, O-ring, replacement screw, decorative film for corner seal	5
• Number of films per sheet		6	2	6	
• Parts per unit	2; one set comprises a set of vertical and a set of horizontal labeling strips	60	20	6	1
Other					
printable with laser printer	Yes; Test printer suitability beforehand. No liability for printer damage	Yes	Yes	Yes	No
Merchandise	No	No	No	No	Yes
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For MP370 key, MP377 key	For TD100C	For TD400C	For Mobile Panel 277	For Mobile Panel 170, Mobile Panel 177
Note:	Transparent film, keys pre-printed in gray, LED area free				

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Technical specifications (continued)

Article number	6AV2181-5DJ10-0AX0 Labeling set 4" wide, type 13	6AV2181-5GJ10-0AX0 Labeling set 7" wide, type 13	6AV2181-5JJ10-0AX0 Labeling set 9" wide, type 13
General information			
Product type designation	Labeling set 4" widescreen	Labeling set 7" widescreen	Labeling set 9" widescreen
Display			
Suitable for screen diagonal	4.3 in	7 in	9 in
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Ambient conditions			
Suited for indoor use	Yes; Resistant to alcohol, dilute acids, diluted alkaline solutions, hydrocarbons, household cleaning agents	Yes; Resistant to alcohol, dilute acids, diluted alkaline solutions, hydrocarbons, household cleaning agents	Yes; Resistant to alcohol, dilute acids, diluted alkaline solutions, hydrocarbons, household cleaning agents
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
Mechanics/material			
Material			
• plastic	Yes; Autoflex EBA 130	Yes; Autoflex EBA 130	Yes; Autoflex EBA 130
Enclosure material (front)			
• Plastic	Yes; Film properties: Anti-glare 55 %, hardness 3H	Yes; Film properties: Anti-glare 55 %, hardness 3H	Yes; Film properties: Anti-glare 55 %, hardness 3H
Dimensions			
Width	168 mm	224 mm	283 mm
Height	120 mm	149 mm	178 mm
Thickness	0.125 mm	0.125 mm	0.125 mm
Weights			
Weight (without packaging)	60 g	80 g	100 g
Scope of supply			
Delivery quantity in pieces	5	5	5
Components included	including 20 double-sided adhesive dots	including 20 double-sided adhesive dots	including 20 double-sided adhesive dots
Other			
printable with laser printer	No	No	No
Merchandise	Yes	Yes	Yes
Manufacturer name	Kolb-Siebdruck GmbH & Co. KG	Kolb-Siebdruck GmbH & Co. KG	Kolb-Siebdruck GmbH & Co. KG
Manufacturer's address	Espenstraße 5, 95632 Wunsiedel, Germany	Espenstraße 5, 95632 Wunsiedel, Germany	Espenstraße 5, 95632 Wunsiedel, Germany
Target devices	KTP400F Mobile	KTP700 Mobile, KTP700F Mobile	KTP900 Mobile, KTP900F Mobile
Note:	Labeling strip SIOS entry No. 11274631	Labeling strip SIOS entry No. 11274631	Labeling strip SIOS entry No. 11274631

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Overview







Input devices

Input devices are all those devices via which information can be supplied to a computer or Panel. This enables interaction with a program.

SIMATIC HMI input devices are specially designed for operation on Panels and industrial PCs in industrial environments. Trade goods, which are identified as such in the technical specifications, have been approved by the manufacturer for typical office applications. Siemens does not always carry out in-depth industrial testing on trade goods.

The following input devices are available for use with IPCs and Panels:

Overview (continued)

- Desktop keyboards
- Built-in and mounted keyboards
- Removable keyboard
- USB mouse
- USB cables

Selection and ordering data

USB keyboard TKL-105	
IP68 keyboard, black, with USB connection	
• with German layout	**6AV6881-0AU14-0AA0**
• with international US layout	**6AV6881-0AU14-1AA0**
• with Spanish layout	**6AV6881-0AU14-2AA0**
• with French layout	**6AV6881-0AU14-3AA0**
• with Italian layout	**6AV6881-0AU14-4AA0**
• supports Danish, Norse, Swedish and Finnish keyboard layouts	**6AV6881-0AU14-5AA0**
USB keyboard TKV-086 IP65 stainless steel	
Desktop keyboard, INOX vandal-proof, also suitable for PRO system [1]. Incl. 4 plastic adhesive feet [2], cable holder/ties for fixing the USB cable.	
IP65 keyboard stainless steel with IP67 USB connection, incl. accessories	
• with German layout	**6AV6881-0AU14-0DB0**
• with international US layout	**6AV6881-0AU14-1DB0**
Tray for PRO devices	
For installation on all PRO devices with fully-enclosed IP65 degree of protection with suitable mechanics. With 2x USB connection sockets including USB cable. Unused socket can be sealed to IP65	
• Tray in RAL9023 (gray) for all 4:3 PRO devices with fully-enclosed IP65 degree of protection	**6AV7674-0NE01-0AA0**
Membrane keyboard IP65	
with touchpad, PS/2	
• with German layout	**6GF6710-2AC**
• with international US layout	**6GF6710-2BC**
Removable keyboard	
19" removable keyboard with trackball, PS/2	
• with German layout	**6GF6710-3BJ**
• with international US layout	**6GF6710-3BK**
Built-in keyboard, touchpad	
19" built-in keyboard, 4U with touchpad, PS/2	
• with German layout	**6GF6710-3AE**
• with international US layout	**6GF6710-3BE**
Built-in keyboard, trackball, international	**6GF6710-3BG**
Built-in keyboard with trackball, PS/2	
USB 2.0 mouse	**6AV2181-8AT00-0AX1**
For HMI Panels, programming devices and IPCs with corresponding interfaces. Color: Anthracite	

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Selection and ordering data (continued)

USB cables [3]	
USB cable 2.0	
• Type A female USB A, IP20 / male USB A, IP20, length 2.5 m	**6AV6881-0AF21-0LB0**
• Type B with M20 screw sealing, female USB A, IP67 / male USB A, IP20, length 0.8 m	**6AV6881-0AF22-0DC0**
• Type C with M20 screw sealing, female USB A, IP67 / male USB A, IP20, length 2.5 m	**6AV6881-0AF22-0LC0**
• Type D female, USB A, IP67 / male USB A, IP20, length 2.5 m	**6AV6881-0AF21-0LC0**

1) Further mechanical attachment parts (keyboard tray, etc.) are required for use on PRO systems. Observe the respective specifications of the target systems!
2) Plastic adhesive feet can be attached on the underside of the keyboard at the marked locations.
3) With specification IP20, the connector type specified on the cable corresponds to a standard USB connector. With specification IP67, it corresponds to a connector with IP67-protected screw connection. IP67 connectors are fitted with a cover to ensure degree of protection IP67 even when the connector is unplugged and the cover is unscrewed. In some cases a M20 screw sealing is already part of the cable. This version can be used for IP65 transitions (PRO system/control cabinet). The IP67 sockets are also suitable for standard USB connectors, however in those cases the degree of protection is reduced to IP20. Note: A maximum cable length of 3 m should not be exceeded!

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Technical specifications

Article number	6AV6881-0AU14-0DB0 USB keyboard GER, KV25605, INOX	6AV6881-0AU14-1DB0 USB keyboard INT, KV27610, INOX
General information		
Product type designation	USB keyboard GERMAN	USB keyboard international US
Control elements		
Version of actuating element	Long-stroke key with 2 mm contact travel	Long-stroke key with 2 mm contact travel
Operating principle of the actuating element	Carbon pellet on gold-plated PCB	Carbon pellet on gold-plated PCB
Input device		
• Scroll wheel	No; Cursor control possible, left and right mouse button	No; Cursor control possible, left and right mouse button
• Movement tracking	Capacitive touchpad	Capacitive touchpad
Keyboard		
• Design	Keyboard with long-stroke keys	Keyboard with long-stroke keys
• Keyboard assignment	86 (Germany QWERTZ)	86 (International QWERTY, US version)
• Color of the buttons	Stainless steel	Stainless steel
• Color of the key inscription	Black, laser-inscribed	Black, laser-inscribed
• Key illumination	No	No
• Function keys	Yes	Yes
- Number of function keys	12	12
- Number of function keys with LEDs	0	0
- Programmable	No	No
• Number pad	Yes; Integrated into key layout	Yes; Integrated into key layout
• status LED displays	Yes; Num, FN, Shift, Scroll lock	Yes; Num, FN, Shift, Scroll lock
- for number pad	Yes	Yes
- for Shift keys	Yes	Yes
• Multi-key operation		
- 2-key rollover	Yes; 1 finger, slow typing, robust industry standard	Yes; 1 finger, slow typing, robust industry standard
- n-key rollover	No	No
Connection type		
• USB	Yes; USB 2.0 type A	Yes; USB 2.0 type A
• PS/2	No	No
• Cable length	0 m; See cable length	0 m; See cable length
Frame size/design		
• Standard	Yes; For industrial applications	Yes; For industrial applications
Installation type/mounting		
Mounting	Desktop, PRO support arm, drawer	Desktop, PRO support arm, drawer
Mounting type	Suitable for PRO devices	Suitable for PRO devices
Supply voltage		
Rated value (DC)	5 V; 4.35 V to 5.25 V (USB)	5 V; 4.35 V to 5.25 V (USB)
Battery		
Battery-operated	No; maintenance-free	No; maintenance-free
Interfaces		
Number of USB interfaces	1; USB 2.0 (IP67 plug enclosure)	1; USB 2.0 (IP67 plug enclosure)
Degree and class of protection		
IP (all-round)	IP65	IP65
IP (at the front)	USB plug, meets IP67 with screws, if only inserted then without IP	USB plug, meets IP67 with screws, if only inserted then without IP

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Technical specifications (continued)

Article number	6AV6881-0AU14-0DB0 USB keyboard GER, KV25605, INOX	6AV6881-0AU14-1DB0 USB keyboard INT, KV27610, INOX
Standards, approvals, certificates		
CE mark	Yes	Yes
UKCA mark	Yes	Yes
UL approval	No	Yes; in preparation
cULus	No	Yes; in preparation
KC approval	Yes	Yes
EAC (formerly Gost-R)	Yes; in preparation	Yes; in preparation
CCC	No; not necessary	No; not necessary
BIS	No; required for export to India	No; required for export to India
RoHS conformity	Yes	Yes
China RoHS compliance	Yes; in preparation	Yes; in preparation
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	No; > 0 °C possible under certain conditions	No; > 0 °C possible under certain conditions
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	60 °C	60 °C
Relative humidity		
• Operation, max.	80 %; no condensation	80 %; no condensation
• Condensation permissible	No	No
Operating systems		
Runs under operating system		
• Windows CE	Yes	Yes
• Windows Vista	Yes	Yes
• Windows XP	Yes	Yes
• Windows 7	Yes	Yes
• Windows 8	Yes	Yes
• Windows 10	Yes	Yes
Cables		
Cable length	0.4 m; USB	0.4 m; USB
Mechanics/material		
Material		
• Stainless steel	Yes; Front stainless steel AISI 304	Yes; Front stainless steel AISI 304
Enclosure material (rear)	aluminum	aluminum
Material of the front ring	Generally silicone-free PORON seal	Generally silicone-free PORON seal
Enclosure color (front)	INOX AISI 304	INOX AISI 304
Enclosure color (rear)	Aluminum paint	Aluminum paint
Torques/forces		
• Breakdown torque	1.5 N·m; Switching force buttons 1.5 N to 1.8 N	1.5 N·m; Switching force buttons 1.5 N to 1.8 N
Service life		
• Number of operating cycles, keys	20 000 000; Operations (minimum)	20 000 000; Operations (minimum)
Dimensions		
Width	369 mm	369 mm
Height	18 mm	18 mm
Depth	130 mm; Without cable outlet (with + 3 cm)	130 mm; Without cable outlet (with + 3 cm)
Scope of supply		
Delivery quantity in pieces	1	1

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Technical specifications (continued)

Article number	6AV6881-0AU14-0DB0 USB keyboard GER, KV25605, INOX	6AV6881-0AU14-1DB0 USB keyboard INT, KV27610, INOX
Other		
printable with laser printer	No	No
Merchandise	Yes; GETT KV25605 / VES001681	Yes; GETT KV27610 / VES001681
Manufacturer name	GETT Gerätetechnik GmbH	GETT Gerätetechnik GmbH
Manufacturer's address	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany
contacting the manufacturer	Phone +49 37468 660-0, email: info@gett.de	Phone +49 37468 660-0, email: info@gett.de
Target devices	For SIMATIC HMI devices and IPCs with the appropriate slot	For SIMATIC HMI devices and IPCs with the appropriate slot

Article number	6AV6881-0AU14-0AA0 USB keyboard GER, TKL-105	6AV6881-0AU14-1AA0 USB keyboard INT, TKL-105
General information		
Product type designation	USB keyboard GERMAN	USB keyboard international US
Control elements		
Version of actuating element	Long-stroke key with 4 mm contact travel	Long-stroke key with 4 mm contact travel
Operating principle of the actuating element	Keyboard with long-stroke keys with membrane switching contacts	Keyboard with long-stroke keys with membrane switching contacts
Input device		
• Scroll wheel	No	No
• Movement tracking	none	none
Keyboard		
• Design	Keyboard with long-stroke keys	Keyboard with long-stroke keys
• Keyboard assignment	105 keys, German layout	105 keys, international US layout
• Color of the buttons	Black	Black
• Color of the key inscription	White	White
• Key illumination	No	No
• Function keys	Yes	Yes
- Number of function keys	12	12
- Number of function keys with LEDs	0	0
- Programmable	No	No
• Number pad	Yes; Free-standing	Yes; Free-standing
• status LED displays	Yes; Num, Caps and Scroll	Yes; Num, Caps and Scroll
- for number pad	Yes	Yes
- for Shift keys	Yes	Yes
• Multi-key operation		
- 2-key rollover	No	No
- n-key rollover	Yes; 10 finger system, quick typing possible	Yes; 10 finger system, quick typing possible
Connection type		
• USB	Yes; USB 2.0 type A	Yes; USB 2.0 type A
• PS/2	No	No
• Cable length	0 m; See cable length	0 m; See cable length
Frame size/design		
• Standard	Yes; For industrial applications	Yes; For industrial applications
Installation type/mounting		
Mounting	Desktop	Desktop
Mounting type	none	none
Supply voltage		
Rated value (DC)	5 V; via USB	5 V; via USB
Battery		
Battery-operated	No; maintenance-free	No; maintenance-free
Interfaces		
Number of USB interfaces	1; USB 2.0	1; USB 2.0

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Technical specifications (continued)

Article number	6AV6881-0AU14-0AA0 USB keyboard GER, TKL-105	6AV6881-0AU14-1AA0 USB keyboard INT, TKL-105
Degree and class of protection		
IP (all-round)	IP68 all-round and dishwasher safe	IP68 all-round and dishwasher safe
IP (at the front)	USB connector without degree of protection	USB connector without degree of protection
Standards, approvals, certificates		
CE mark	Yes	Yes
UL approval	Yes; cUL	Yes; cUL
cULus	Yes; cUL	Yes; cUL
KC approval	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes
BIS	No; required for export to India	No; required for export to India
RoHS conformity	Yes	Yes
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	No; possible under certain conditions	No; possible under certain conditions
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	70 °C	70 °C
Relative humidity		
• Operation, max.	80 %; no condensation	80 %; no condensation
• Condensation permissible	No	No
Operating systems		
Runs under operating system		
• Windows CE	Yes	Yes
• Windows Vista	Yes	Yes
• Windows XP	Yes	Yes
• Windows 7	Yes	Yes
• Windows 8	Yes	Yes
• Windows 10	Yes	Yes
Cables		
Cable length	1.5 m; USB	1.5 m; USB
Mechanics/material		
Material		
• plastic	Yes; Black	Yes; Black
Enclosure material (front)		
• Plastic	Yes; ABS with antimicrobial coating	Yes; ABS with antimicrobial coating
Enclosure color (front)	Black	Black
Enclosure color (rear)	Black	Black
Torques/forces		
• Breakdown torque	0.53 N·m; Switching force buttons	0.53 N·m; Switching force buttons
Service life		
• Number of operating cycles, keys	10 000 000; Operations (minimum)	10 000 000; Operations (minimum)
Dimensions		
Width	459 mm	459 mm
Height	35 mm	35 mm
Depth	174 mm	174 mm
Weights		
Weight (without packaging)	800 g	800 g
Scope of supply		
Delivery quantity in pieces	1	1

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Technical specifications (continued)

Article number	6AV6881-0AU14-0AA0 USB keyboard GER, TKL-105	6AV6881-0AU14-1AA0 USB keyboard INT, TKL-105
Other		
printable with laser printer	No	No
Merchandise	Yes; GETT TKL-105	Yes; GETT TKL-105
Manufacturer name	GETT Gerätetechnik GmbH	GETT Gerätetechnik GmbH
Manufacturer's address	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany
contacting the manufacturer	Phone +49 37468 660-0, email: info@gett.de	Phone +49 37468 660-0, email: info@gett.de
Target devices	For SIMATIC HMI devices and IPCs with the appropriate slot	For SIMATIC HMI devices and IPCs with the appropriate slot
Note:	corresponds to KL24604	corresponds to KL24605

Article number	6AV7674-0NE01-0AA0 Shelf for 4:3 PRO devices
General information	
Product type designation	Tray incl. 2x USB
Control elements	
Connection type	
• USB	Yes; USB 2.0
• PS/2	No
• Cable length	500 mm; Typical
Frame size/design	
• Standard	Yes; For industrial applications
• Ergonomic	Yes; 90° adjustable / tiltable
Ergonomics	
• Trackball rest	No
• Adjustable height	Yes; By adjusting inclination angle 0° to 90°
Installation type/mounting	
Mounting	Max. load bearing capacity of 2 kg
Mounting type	Suitable for PRO devices
Mounting position	Horizontal
maximum permissible angle of inclination without external ventilation	90°; Between 0° and 90° in steps of 15°
Interfaces	
Number of USB interfaces	2; USB 2.0
Degree and class of protection	
IP (all-round)	IP65 fully enclosed (when protective cover is closed)
Standards, approvals, certificates	
RoHS conformity	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Relative humidity	
• Operation, max.	80 %; no condensation
• Condensation permissible	No; Condensation not permissible
Mechanics/material	
Material	
• Aluminum	Yes; Powder-coated, RAL 9023
Dimensions	
Width	500 mm
Height	64 mm
Depth	200 mm
Weights	
Weight (without packaging)	3 000 g
Scope of supply	
Delivery quantity in pieces	1; With support arm bracket, without keyboard

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Technical specifications (continued)

Article number	6AV7674-0NE01-0AA0 Shelf for 4:3 PRO devices
Other	
Merchandise	Yes; Sasse no. 1580.9906124
Manufacturer name	Sasse Elektronik GmbH
Manufacturer's address	Berliner Straße 12, 91126 Schwabach, Germany
Target devices	Merchandise suitable for 4:3 PRO devices

Article number	6AV6881-0AF21-0LB0 USB cable Typ A	6AV6881-0AF22-0DC0 USB cable Typ B	6AV6881-0AF22-0LC0 USB cable Typ C	6AV6881-0AF21-0LC0 USB cable Typ D
General information				
Product type designation	Connecting cable USB	Connecting cable USB	Connecting cable USB	Connecting cable USB
Control elements				
Connection type				
• USB	Yes; USB 2.0 Typ A IP20 to Typ A IP20	Yes; USB 2.0 Typ x IP67 to Typ A IP20	Yes; USB 2.0 Typ x IP67 to Typ A IP20	Yes; USB 2.0 Typ x IP67 to Typ A IP20
Degree and class of protection				
IP (all-round)	IP20	On the female side up to IP65 screw connection, then IP20	On the female side up to IP65 screw connection, then IP20	On the female side up to IP65 screw connection, then IP20
Standards, approvals, certificates				
CE mark	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation
RoHS conformity	Yes	Yes	Yes	Yes
Ambient conditions				
Suited for indoor use	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Relative humidity				
• Operation, max.	95 %	95 %	95 %	95 %
Cables				
Cable length	2.5 m	0.8 m	2.5 m	2.5 m
smallest bending radius	0 mm; 10x d (cable diameter)	0 mm; 10x d (cable diameter)	0 mm; 10x d (cable diameter)	0 mm; 10x d (cable diameter)
Color of cable sheath	Black	Black	Black	Black
Mechanics/material				
Enclosure material (front)				
• Plastic	Yes; Connector enclosure	Yes; Connector enclosure	Yes; Connector enclosure	Yes; Connector enclosure
Torques/forces				
• Tightening torque, min.		1 N·m; Hand-tight	1 N·m; Hand-tight	1 N·m; Hand-tight
• Tightening torque, max.		1.5 N·m; Hand-tight	1.5 N·m; Hand-tight	1.5 N·m; Hand-tight
Scope of supply				
Delivery quantity in pieces	1; USB 2.0 cable (max. 500 mA)	1; USB 2.0 cable (max. 500 mA)	1; USB 2.0 cable (max. 500 mA)	1; USB 2.0 cable (max. 500 mA)
Other				
Merchandise	Yes; USB-IP20-2500-C7294-Siemens	Yes; USB-IP67-800M-C7294-Siemens	Yes; USB-IP67-2500M-C7294-Siemens	Yes; USB-IP67-2500-C7294-Siemens
Manufacturer name	GETT Gerätetechnik GmbH	GETT Gerätetechnik GmbH	GETT Gerätetechnik GmbH	GETT Gerätetechnik GmbH
Manufacturer's address	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany
Target devices	For Panels and PC systems with suitable interface; observe operating instructions of the target device!	For Panels and PC systems with suitable interface; observe operating instructions of the target device!	For Panels and PC systems with suitable interface; observe operating instructions of the target device!	For Panels and PC systems with suitable interface; observe operating instructions of the target device!
Note:	Request certificates and drawings from manufacturer	Request certificates and drawings from manufacturer	Request certificates and drawings from manufacturer	Request certificates and drawings from manufacturer

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Technical specifications (continued)

Article number	6GF6710-2AC PS2 foil keyboard de, touchpad	6GF6710-2BC PS2 foil keyboard INT, touchpad
General information		
Product type designation	PS/2 membrane keyboard DEU	PS/2 membrane keyboard INT
Control elements		
Keyboard		
• Design	Membrane keyboard	Membrane keyboard
• Keyboard assignment	B3F, 101/102 or 104/105 OMRON	B3F, 101/102 or 104/105 OMRON
• Key illumination	No	No
• Function keys		
- Number of function keys	12	12
- Programmable	Yes	Yes
• Number pad	Yes	Yes
• status LED displays	Yes; Num, Caps and Scroll	Yes; Num, Caps and Scroll
- for number pad	Yes	Yes
- for Shift keys	Yes	Yes
Connection type		
• USB	Yes; With PS/2 USB adapter (not included in the scope of supply)	Yes; With PS/2 USB adapter (not included in the scope of supply)
• PS/2	Yes	Yes
• Cable length	1.75 m	1.75 m
Frame size/design		
• Standard	Yes; For industrial applications	Yes; For industrial applications
Installation type/mounting		
Rack mounting	No; Desktop housing	No; Desktop housing
Battery		
Battery-operated	No; maintenance-free	No; maintenance-free
Degree and class of protection		
IP (all-round)	IP65	IP65
Splashproof	Yes	Yes
Standards, approvals, certificates		
CE mark	Yes	Yes
RoHS conformity	Yes	Yes
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	40 °C	40 °C
Relative humidity		
• Operation, max.	90 %; no condensation	90 %; no condensation
• Condensation permissible	No	No
Operating systems		
Runs under operating system		
• Windows CE	Yes	Yes
• Windows Vista	Yes	Yes
• Windows XP	Yes	Yes
• Windows 7	Yes	Yes
• Windows 10	Yes	Yes
Mechanics/material		
Material		
• plastic	Yes; AUTOTEX (R) V150	Yes; AUTOTEX (R) V150
• Sheet metal	No	No
Enclosure material (front)		
• Plastic	Yes; AUTOTEX (R) V150	Yes; AUTOTEX (R) V150
Service life		
• Number of operating cycles, keys	1 000 000; Operations (minimum)	1 000 000; Operations (minimum)

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Technical specifications (continued)

Article number	6GF6710-2AC PS2 foil keyboard de, touchpad	6GF6710-2BC PS2 foil keyboard INT, touchpad
Dimensions		
Width	478.5 mm	478.5 mm
Height	28 mm	28 mm
Depth	180 mm	180 mm
Weights		
Weight (without packaging)	2 260 g	2 260 g
Scope of supply		
Delivery quantity in pieces	1; Membrane keyboard with mouse pad	1; Membrane keyboard with mouse pad
Other		
Merchandise	Yes; TIPRO no. K-547	Yes; TIPRO no. K-547
Manufacturer name	TIPRO Representative Office	TIPRO Representative Office
Manufacturer's address	Vogelweg 20, 31785 Hameln, Germany	Vogelweg 20, 31785 Hameln, Germany
Target devices	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)
Note:	Suitable PS/2 USB adapter (keyboard/mouse): 1x USB 1.1, plug A on 2x PS/2 sockets, 0.20 m, black; manufacturer: Renkforce; supply by Conrad Elektronik, order no.: 1360251 - 62	Suitable PS/2 USB adapter (keyboard/mouse): 1x USB 1.1, plug A on 2x PS/2 sockets, 0.20 m, black; manufacturer: Renkforce; supply by Conrad Elektronik, order no.: 1360251 - 62

Article number	6GF6710-3BJ PS2 keyboard 19" de Trackb.	6GF6710-3BK PS2 keyboard 19" INT Trackb.
General information		
Product type designation	PS/2 withdrawable keyboard DEU	PS/2 withdrawable keyboard INT
Control elements		
Keyboard		
• Design	Membrane keyboard	Membrane keyboard
• Keyboard assignment	84 (Germany (QWERTZ))	84 (US version)
• Color of the buttons	light gray	light gray
• Color of the key inscription	dark gray	dark gray
• Key illumination	No	No
• Function keys		
- Number of function keys	12	12
• Number pad	Yes; Integrated into key layout	Yes; Integrated into key layout
• status LED displays	Yes; Num, Caps, Scroll and Pad	Yes; Num, Caps, Scroll and Pad
- for number pad	Yes	Yes
- for Shift keys	Yes	Yes
Connection type		
• Bluetooth radio standard	No	No
• USB	No	No
• PS/2	Yes	Yes
• Cable length	1.5 m	1.5 m
Frame size/design		
• Standard	Yes; For industrial applications	Yes; For industrial applications
• 19" keyboard	Yes	Yes
Installation type/mounting		
Rack mounting	Yes	Yes
Front mounting	No	No
Wall mounting/direct mounting	No	No
maximum permissible angle of inclination without external ventilation	0°	0°
Supply voltage		
Design of the power supply	via PS/2	via PS/2
Battery		
Battery-operated	No; maintenance-free	No; maintenance-free
Degree and class of protection		
Splashproof	No	No

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Technical specifications (continued)

Article number	6GF6710-3BJ PS2 keyboard 19" de Trackb.	6GF6710-3BK PS2 keyboard 19" INT Trackb.
Standards, approvals, certificates		
CE mark	Yes	Yes
RoHS conformity	Yes	Yes
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	50 °C	50 °C
Relative humidity		
• Operation, max.	80 %; no condensation	80 %; no condensation
• Condensation permissible	No	No
Operating systems		
Runs under operating system		
• Windows CE	Yes	Yes
• Windows Vista	Yes	Yes
• Windows XP	Yes	Yes
• Windows 7	Yes	Yes
• Windows 8	Yes	Yes
• Windows 10		Yes
Connection method		
Connector type	PS/2	PS/2
Mechanics/material		
Material		
• plastic	Yes; Keyboard itself	Yes; Keyboard itself
• Sheet metal	Yes; Powder-coated drawer	Yes; Powder-coated drawer
Service life		
• Number of operating cycles, keys	20 000 000; Operations (approx.)	20 000 000; Operations (approx.)
Dimensions		
Width	370 mm; Keyboard	370 mm; Keyboard
Height	20 mm; Keyboard	20 mm; Keyboard
Depth	138.5 mm; Keyboard	138.5 mm; Keyboard
Width of the housing front	485 mm; Keyboard incl. drawer	485 mm; Keyboard incl. drawer
Height of housing front	45 mm; Keyboard incl. drawer	45 mm; Keyboard incl. drawer
Enclosure diameter	465 mm; Mounting depth drawer	465 mm; Mounting depth drawer
Weights		
Weight (without packaging)	8 000 g; Without accessories	8 000 g; Without accessories
Scope of supply		
Delivery quantity in pieces	1; Keyboard incl. drawer	1; Keyboard incl. drawer
Other		
Merchandise	Yes	Yes
Manufacturer name	ZF Friedrichshafen AG, Cherry GmbH, Electronic Systems	ZF Friedrichshafen AG, Cherry GmbH, Electronic Systems
Manufacturer's address	Cherrystr., 91275 Auerbach/OPf., Germany	Cherrystr., 91275 Auerbach/OPf., Germany
Target devices	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)

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Technical specifications (continued)

Article number	6GF6710-3AE PS2 keyboard 19" de, touch pad	6GF6710-3BG PS2 keyboard 19" INT, track ball	6GF6710-3BE PS2 keyboard 19" INT, touch pad
General information			
Product type designation	PS/2 built-in keyboard DEU	PS/2 built-in keyboard INT	PS/2 built-in keyboard INT
Control elements			
Keyboard			
• Design	Membrane keyboard	Membrane keyboard	Membrane keyboard
• Keyboard assignment	B3F, 101/102 or 104/105 OMRON	B3F, 101/102 or 104/105 OMRON	B3F, 101/102 or 104/105 OMRON
• Color of the buttons		light gray	
• Color of the key inscription		Black	
• Key illumination	No	No	No
• Function keys			
- Number of function keys	12	12	12
- Programmable	Yes	Yes	Yes
• Number pad	Yes	Yes; Free-standing	Yes
• status LED displays	Yes; Num, Caps and Scroll	Yes; Num, Caps and Scroll	Yes; Num, Caps and Scroll
- for number pad	Yes	Yes	Yes
- for Shift keys	Yes	Yes	Yes
Connection type			
• USB	Yes; With PS/2 USB adapter (not included in the scope of supply)	Yes; With PS/2 USB adapter (not included in the scope of supply)	Yes; With PS/2 USB adapter (not included in the scope of supply)
• PS/2	Yes	Yes	Yes
Frame size/design			
• Standard	Yes; For industrial applications	Yes; For industrial applications	Yes; For industrial applications
• 19" keyboard	Yes	Yes	Yes
Installation type/mounting			
Rack mounting	No; Built-in keyboard, 19" rack	No	No; Built-in keyboard, 19" rack
Front mounting		Yes	
Wall mounting/direct mounting		No	
Battery			
Battery-operated	No; maintenance-free	No; maintenance-free	No; maintenance-free
Degree and class of protection			
IP (all-round)		IP65 when the ball is actuated; mouse only IP55	
IP (at the front)	IP65		IP65
IP (rear)	IP20		IP20
Splashproof	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
RoHS conformity	Yes	Yes	Yes
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	40 °C	40 °C	40 °C
Relative humidity			
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation
• Condensation permissible	No	No	No
Operating systems			
Runs under operating system			
• Windows CE	Yes	Yes	Yes
• Windows Vista	Yes	Yes	Yes
• Windows XP	Yes	Yes	Yes
• Windows 7	Yes	Yes	Yes
• Windows 10	Yes	Yes	Yes
Connection method			
Connector type	PS/2	PS/2	PS/2

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Technical specifications (continued)

Article number	6GF6710-3AE PS2 keyboard 19" de, touch pad	6GF6710-3BG PS2 keyboard 19" INT, track ball	6GF6710-3BE PS2 keyboard 19" INT, touch pad
Mechanics/material			
Material			
• Sheet metal	Yes	Yes	Yes
Enclosure material (front)			
• Plastic	Yes; AUTOTEX (R) V150	Yes; AUTOTEX (R) V150	Yes; AUTOTEX (R) V150
Service life			
• Number of operating cycles, keys	1 000 000; Operations (minimum)	1 000 000; Operations (minimum)	1 000 000; Operations (minimum)
Dimensions			
Width	482.6 mm	482.6 mm	482.6 mm
Height	42.5 mm	38 mm	42.5 mm
Depth	177.8 mm	177.8 mm	177.8 mm
Weights			
Weight (without packaging)	1 480 g	1 490 g	1 480 g
Scope of supply			
Delivery quantity in pieces	1; Built-in keyboard rack mounting	1; Built-in keyboard with stud bolts	1; Built-in keyboard rack mounting
Other			
Merchandise	Yes; TIPRO no. K-647 (K-847)	Yes; TIPRO no. K-842 (K-642)	Yes; TIPRO no. K-647 (K-847)
Manufacturer name	TIPRO Representative Office	TIPRO Representative Office	TIPRO Representative Office
Manufacturer's address	Vogelweg 20, 31785 Hameln, Germany	Vogelweg 20, 31785 Hameln, Germany	Vogelweg 20, 31785 Hameln, Germany
Target devices	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)
Note:	Suitable PS/2 USB adapter (keyboard/mouse): 1x USB 1.1, plug A on 2x PS/2 sockets, 0.20 m, black; manufacturer: Renkforce; supply by Conrad Elektronik, order no.: 1360251 - 62	Suitable PS/2 USB adapter (keyboard/mouse): 1x USB 1.1, plug A on 2x PS/2 sockets, 0.20 m, black; manufacturer: Renkforce; supply by Conrad Elektronik, order no.: 1360251 - 62	Suitable PS/2 USB adapter (keyboard/mouse): 1x USB 1.1, plug A on 2x PS/2 sockets, 0.20 m, black; manufacturer: Renkforce; supply by Conrad Elektronik, order no.: 1360251 - 62

Article number	6AV2181-8AT00-0AX1 USB 2.0 mouse
General information	
Product type designation	USB mouse
Control elements	
With parameterizable keys	Yes; 5 buttons including scroll wheel button
Input device	
• Scroll wheel	Yes; Vertical and horizontal scrolling
• Movement tracking	Optical
• Movement resolution	3 200 dpi; adaptable to 400, 800, 1 600 and 3 200 (standard)
Connection type	
• USB	Yes; USB 2.0 type A
• Cable length	1.8 m
Frame size/design	
• Standard	Yes; For industrial applications
Supply voltage	
Rated value (DC)	5 V; via USB
Battery	
Battery-operated	No
Interfaces	
Number of USB interfaces	1

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Technical specifications (continued)

Article number	6AV2181-8AT00-0AX1 USB 2.0 mouse
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
UL approval	Yes
REACH	Yes
KC approval	Yes
FCC Class B	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-10 °C
• max.	50 °C
Relative humidity	
• Operation, max.	95 %
• Condensation permissible	No
Operating systems	
Runs under operating system	
• Windows 7	Yes
• Windows 8	Yes
• Windows 10	Yes
• Linux	Yes
• other	Yes; Windows 11, MacOS, Chrome, Android OS
Cables	
Cable length	180 cm
Mechanics/material	
Material	
• plastic	Yes; Black
Dimensions	
Width	62.9 mm
Height	38.9 mm
Length	115.3 mm
Weights	
Weight (without packaging)	98 g
Scope of supply	
Delivery quantity in pieces	1
Other	
Merchandise	Yes; MS3220
Manufacturer name	Dell Inc.
Manufacturer's address	PS4-30 Round Rock, Texas USA 78682
Target devices	Suitable for HMI Panels and IPCs with USB interface

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Overview



Touch pen system ELO for capacitive or resistive touch screen pen ELO, including holder for 22.5 mm

Input tools

Input tools facilitate operation and input in difficult environments.

Touch pens are often extremely useful when operating touch displays, particularly if you are wearing gloves, because you can operate small buttons or entry fields precisely despite the gloves.

Touch pens also protect the display from dirt and scratching during operation and when used in extreme environments.

The following input tools are available for operating the touch display:

- Touch pen
- Touch pen holder
- Spare caps for touch pens

Please be sure to note the correct touch system when ordering (resistive or capacitive).

Not all touch pens are compatible with all touch types. There are touch pens available for both resistive and capacitive touch systems.

Note:

Continuous operation with hard touch pens on the same part of the display can significantly reduce the service life of a touch screen.

A longer service life can be achieved by using soft, wide-tip pens and variable-position entry fields.

Selection and ordering data

Touch pen, thin, resistive For purely resistive touch screens, incl. retaining cord.	**6AV6645-7AB14-0AS1**
Touch pen system ELO For capacitive and resistive touch screens, pen black anodized and suitable for industrial use, including adhesive or screw-on holder. Alternatives to "Touch pen system, aluminum, classic" and "Touch pen, thick, resistive"	**6AV6881-0AV21-0AA0**
Touch pen system V2A, food-safe For capacitive and resistive touch screens, pen V2A high-gloss polished and food-safe, incl. stick-on holder (e.g. glass front). Alternative to touch pen system ELO.	**6AV6881-0AV22-0AA0**
Touch pen caps, classic Replacement caps for touch pen systems for capacitive and resistive touch screens. Only suitable for touch pen system classic!	**6AV2181-8AV60-0AX0**
Touch pen caps ELO Replacement caps for touch pen systems for capacitive and resistive touch screens. Only suitable for touch pen system ELO!	**6AV6881-0AV61-0AA0**
Touch pen caps V2A Replacement caps for touch pen systems for capacitive and resistive touch screens. Not suitable for touch pen system classic!	**6AV6881-0AV62-1AA0**
Touch pen caps RES Replacement caps for touch pen systems optimized exclusively for resistive touch screens. Only suitable for touch pen system ELO and touch pen system V2A!	**6AV6881-0AV63-0BA0**

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Technical specifications

Article number	6AV2181-8AV60-0AX0 Touch pen caps	6AV6881-0AV61-0AA0 Touch pen caps ELO	6AV6881-0AV62-1AA0 Touch pen caps V2A	6AV6881-0AV63-0BA0 Touch pen caps RES
General information				
Product type designation	Touch pen caps	Touch pen caps	Touch pen caps	Touch pen caps
Control elements				
Frame size/design				
• Standard	Yes; Special cap for capacitive touch pens	Yes; threaded special cap for universal touch system	Yes; threaded special cap for universal touch system	Yes; special cap only for resistive touch systems
Installation type/mounting				
Wall mounting/direct mounting	Yes; Capacitive touch system	Yes; can be used for touch pen system ELO	Yes; can be used for touch pen system ELO and V2A	Yes; can be used for touch pen system ELO and V2A
Standards, approvals, certificates				
CE mark			No; No CE marking obligation	No; No CE marking obligation
RoHS conformity		Yes; Threaded insert screw tip - according to Article 33 of the REACH Regulation, we hereby inform you that the threaded insert supplied by us contains a substance included on the REACH Candidate List (SVHC). The substance in question is lead. CAS number: 7439-92-1 / EC number: 231-100-4	Yes; FDA§177.2600 compliant	Yes; FDA§177.2600 compliant
FDA-compliant			Yes; FDA§177.2600 compliant	Yes; FDA§177.2600 compliant
Ambient conditions				
Suited for indoor use		Yes	Yes	Yes
Suited for outdoor use	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased
Ambient temperature during operation				
• min.	-40 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	-40 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	-40 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	-40 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended
• max.	80 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	80 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	80 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	80 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended
Relative humidity				
• Operation, max.	95 %	95 %	95 %	95 %
Mechanics/material				
Material				
• plastic	Yes	Yes; special cap only for resistive and capacitive touch systems	Yes; special cap only for resistive and capacitive touch systems	Yes; special cap only for resistive touch systems
• Aluminum		Yes		
• Stainless steel			Yes; food safe, suitable for F&B	
Color		Aluminum paint	stainless steel, polished	light beige
Torques/forces				
• Tightening torque, max.		Hand-tight	Hand-tight	Hand-tight
Dimensions				
Height	8 mm	8 mm	8 mm	8 mm
Diameter	8 mm	8 mm	8 mm	8 mm
Weights				
Weight (without packaging)	0.8 g	0.8 g	0.8 g	0.8 g
Scope of supply				
Delivery quantity in pieces	10; Caps for touch pen	5; Caps for touch pen	5; Caps for touch pen	5; Caps for touch pen

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Technical specifications (continued)

Article number	6AV2181-8AV60-0AX0 Touch pen caps	6AV6881-0AV61-0AA0 Touch pen caps ELO	6AV6881-0AV62-1AA0 Touch pen caps V2A	6AV6881-0AV63-0BA0 Touch pen caps RES
Other				
Merchandise	Yes; Function depending on touch sensitivity, not suitable for Ceran cooktops, MP377 Daylight, possibly others	Yes; touch replacement cap ELO	Yes; touch replacement cap V2A	Yes; touch replacement cap RES
Manufacturer name	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG
Manufacturer's address	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer	email: querumproducts@web.de	email: querumproducts@web.de	email: querumproducts@web.de	email: querumproducts@web.de
Target devices	For common capacitive and resistive touch systems	For common capacitive and resistive touch systems	For common capacitive and resistive touch systems	for common capacitive touch systems
Note:	only usable for touch pen 6AV2181-8AV20-0AX0	for Business	food safe, suitable for F&B	food safe, suitable for F&B

Article number	6AV6645-7AB14-0AS1 Touch pen, thin, ALU resistive	6AV6881-0AV21-0AA0 Touch pen system ELO	6AV6881-0AV22-0AA0 Touch pen system V2A
General information			
Product type designation	touch pen, thin, aluminum, resistive technology	universal touch pen system (resistive/capacitive), including support	universal touch pen system (resistive/capacitive), including support
Control elements			
Touch operation			
• operator help touch operation design (resistive)	Yes	Yes	Yes
• operator help touch operation design (capacitive)	No	Yes	Yes
Frame size/design			
• Standard	Yes; For industrial applications	Yes; For industrial applications	Yes; For industrial applications
• Exceptional		Yes; Spare caps can be stowed in the pen	Yes; Spare caps can be stowed in the pen
• Ergonomic		Yes; With holder	Yes; With holder
Installation type/mounting			
Mounting type		Wall-mounting bracket can be mounted with mounting disk, 2x M3 screw or adhesive pads	Wall-mounting bracket can be mounted with mounting disk, 2x M3 screw or adhesive pads
Mounting position		Horizontal	Horizontal
Front mounting		Yes; also optimized for PRO Extension Unit 22.5 mm opening (from HS01)	Yes; also optimized for PRO Extension Unit 22.5 mm opening (from HS01)
Wall mounting/direct mounting	Yes; using approx. 35 cm retaining cord	Yes; using approx. 60 cm retaining cord	Yes; using approx. 60 cm retaining cord
Degree and class of protection			
IP (at the front)		IP65 (depending on mounting)	IP65 (depending on mounting)
Standards, approvals, certificates			
CE mark	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation
REACH	Yes	Yes; Threaded insert screw tip - according to Article 33 of the REACH Regulation, we hereby inform you that the threaded insert supplied by us contains a substance included on the REACH Candidate List (SVHC). The substance in question is lead. CAS number: 7439-92-1 / EC number: 231-100-4	Yes; Threaded insert screw tip - according to Article 33 of the REACH Regulation, we hereby inform you that the threaded insert supplied by us contains a substance included on the REACH Candidate List (SVHC). The substance in question is lead. CAS number: 7439-92-1 / EC number: 231-100-4
RoHS conformity	Yes	Yes	Yes
FDA-compliant			Yes; the included adhesive pads are RoHS compliant, but not FDA§177.2600 compliant

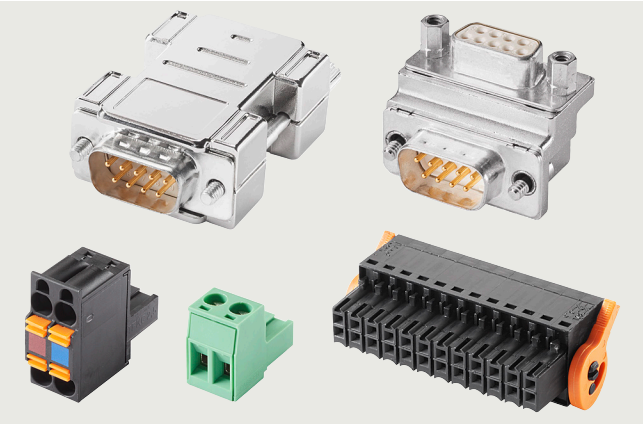
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Technical specifications (continued)

Article number	6AV6645-7AB14-0AS1 Touch pen, thin, ALU resistive	6AV6881-0AV21-0AA0 Touch pen system ELO	6AV6881-0AV22-0AA0 Touch pen system V2A
Ambient conditions			
Suited for indoor use	Yes	Yes	Yes
Suited for outdoor use	Yes	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased
Ambient temperature during operation			
• min.	-40 °C	-40 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	-40 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended
• max.	80 °C	80 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended	80 °C; at temperatures below 10 °C and above 30 °C, the use of suitable gloves is recommended
Relative humidity			
• Operation, max.	90 %	95 %	95 %
Mechanics/material			
Material			
• plastic		Yes; Attachment cord	Yes; Attachment cord
• Aluminum	Yes; pen, anodized	Yes; pen, anodized	
• Stainless steel			Yes; food safe, suitable for F&B
Enclosure material (front)			
• Plastic		Yes; pen holder	Yes; pen holder
Color	Aluminum paint	black, anodized	stainless steel, polished
Enclosure color (front)		Black	Black
Dimensions			
Length	125 mm	150 mm	150 mm
Diameter	8 mm	14 mm	14 mm
Enclosure diameter		37 mm; Diameter wall-mounting bracket	37 mm; Diameter wall-mounting bracket
Mounting cutout, height		39 mm; Height wall-mounting bracket	39 mm; Height wall-mounting bracket
Weights			
Weight (without packaging)		0.13 kg	0.13 kg
Scope of supply			
Delivery quantity in pieces	5; Incl. retaining cord for Mobile Panel 277 10"	1; 1x touch pen, 1x attachment cord, 1x resistive/capacitive cap, 1x resistive cap (in the touch pen), 1x complete wall bracket	1; 1x touch pen, 1x attachment cord, 1x resistive/capacitive cap, 1x resistive cap (in the touch pen), 1x complete wall bracket
Other			
Merchandise	Yes; touch pen, thin, aluminum, resistive technology	Yes; ELO touch pen, small	Yes; touch pen V2A
Manufacturer name	QUERUM products UG	QUERUM products UG	QUERUM products UG
Manufacturer's address	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer	email: querumproducts@web.de	email: querumproducts@web.de	email: querumproducts@web.de
Target devices	for resistive touch screens	For common capacitive and resistive touch systems	For common capacitive and resistive touch systems
Note:	length of the interconnecting lead approx. 35 cm	length of the interconnecting lead approx. 55 cm ... 62 cm	length of the interconnecting lead approx. 55 cm ... 62 cm

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Overview



HMI connecting components

The following HMI connecting components are available for our operator panels and industrial PCs:

- Converters
  change signals from one physical system to another.
  Example: An RS 232 V.24 signal is converted to a TTY 20mA signal. The transmitted data is not affected.
- Connectors
  are used for connecting devices or expansion components to the power supply, data cables or I/O devices.
- Adapters
  can modify the pinning, as well as the output direction of a connector attached to the core product. It is also possible to implement transitions from "n"-pin" to "x"-pin.

Selection and ordering data

Converters	
RS422 to RS232 converter 9-pin male contact (on HMI) to 9-pin male contact, to be screwed onto HMI RS422 interface, cable outlet 180 degrees, for connection of non-Siemens PLC	**6AV6671-8XE00-0AX0**
RS422 to TTY converter 9-pin male contact (on HMI) to 15-pin socket, to be screwed onto HMI RS422 interface, 180 degree cable outlet, for the connection to SIMATIC S5	**6AV6671-8XJ00-0AX0**

Plugs	
24 V DC plug (2-pin) For all SIMATIC HMI Panels, without screw fixing, loop-through not possible. Approved for all SIMATIC HMI Panels except Key Panels.	**6AV6671-8XA00-0AX0**
24 V DC plug (2-pin) (can be looped through) For all SIMATIC HMI Panels, without screw fixing, loop through possible, even with unconnected plug. Approved for Key Panels.	**6ES7193-4JB00-0AA0**
8-pin connection plug 8-pin, 24 V DC for Extension Unit, etc.	**6AV6881-0HE20-0AA0**
12-pin connection plug 12-pin, 24 V DC for SIMATIC HMI Key Panel KP8 PN	**6AV6671-3XY38-4AX0**
16-pin connection plug 16-pin, 24 V DC for SIMATIC HMI Key Panel KP8F PN and Key Panel KP32F PN	**6AV6671-3XY48-4AX0**
24-pin connection plug 24-pin, 24 V DC for SIMATIC HMI Key Panel KP32F PN	**6AV6671-3XY58-4AX0**

Adapters	
90 degree angle adapter 9-pin male contact (on HMI) to 9-pin socket, 1:1 connection, to be screwed onto the RS485/422/232 HMI interface, or any other suitable interface	**6AV6671-8XD00-0AX0**
VGA and DVI adapters For onboard interfaces and PCI-Express graphics card NVS 295	
• Display port to VGA adapter	**6ES7648-3AG00-0XA0**
• Display port to DVI-D adapter	**6ES7648-3AF00-0XA0**

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Technical specifications

Article number	6AV6671-8XE00-0AX0 RS422 to RS232 converter	6AV6671-8XJ00-0AX0 RS422 to TTY converter
General information		
Product type designation	Converter, RS 422 to RS 232	Converter RS 422 to TTY
Installation type/mounting		
Wall mounting/direct mounting	Yes; Can be screwed onto the HMI	Yes; Can be screwed onto the HMI
Interfaces		
HMI-side interface		
• Number of pins HMI-side	9; Male (RS 422)	9; Male (RS 422)
Device-side interface		
• Number of pins device-side	9; Female (RS 232)	15; Female (TTY)
Degree and class of protection		
IP (all-round)	none	none
Standards, approvals, certificates		
CE mark	Yes	Yes
RoHS conformity	Yes	Yes
China RoHS compliance	Yes	Yes
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	55 °C	55 °C
Relative humidity		
• Operation, max.	95 %	95 %
Mechanics/material		
Enclosure material (front)		
• plastic	Yes	Yes
Screw type		
• 4.5 V	Yes; HMI page	Yes; HMI page
Torques/forces		
• Tightening torque, min.	0.18 N·m; Insufficient torque can lead to loosening of the screws	0.18 N·m; Insufficient torque can lead to loosening of the screws
• Tightening torque, max.	0.2 N·m	0.2 N·m
• Tightening torque, recommended	0.2 N·m; Higher torques may damage the product	0.2 N·m; Higher torques may damage the product
Dimensions		
Width	31 mm	42 mm
Height	50 mm	62 mm
Thickness	11 mm	11 mm
Weights		
Weight (without packaging)	26 g	28 g
Scope of supply		
Delivery quantity in pieces	1	1
Other		
Merchandise	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	suitable for all SIMATIC HMI RS 422 interfaces, for details refer to the operating instructions of the respective device	suitable for all SIMATIC HMI RS 422 interfaces, for details refer to the operating instructions of the respective device

Article number	6AV6671-8XA00-0AX0 Connector, female, 2-pin, type 1
General information	
Product type designation	Connector, female, 2-pin, type 1
Control elements	
Frame size/design	
• Standard	Yes; Z shape

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Technical specifications (continued)

Article number	6AV6671-8XA00-0AX0 Connector, female, 2-pin, type 1
Installation type/mounting	
Wall mounting/direct mounting	Yes; can be plugged into SIMATIC HMI device
Supply voltage	
Rated value (DC)	24 V
Interfaces	
HMI-side interface	
• Number of pins HMI-side	2; Male
Device-side interface	
• Number of pins device-side	2; Female, screw terminals
Standards, approvals, certificates	
RoHS conformity	Yes
China RoHS compliance	Yes
Use in hazardous areas	
• ATEX Zone 2	Yes; Device-dependent, see operating instructions
• ATEX Zone 22	Yes; Device-dependent, see operating instructions
• IECEx Zone 2	Yes; Device-dependent, see operating instructions
• IECEx Zone 22	Yes; Device-dependent, see operating instructions
• cULus Class I Zone 1	Yes; Device-dependent, see operating instructions
• cULus Class I Zone 2, Division 2	Yes; Device-dependent, see operating instructions
• FM Class I Division 2	Yes; Device-dependent, see operating instructions
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	95 %
Mechanics/material	
Material	
• plastic	Yes; green
Enclosure material (front)	
• plastic	Yes; Contact spacing 5.08 mm
Screw type	
• 4.5 V	Yes; Screw terminals
Dimensions	
Width	10 mm
Height	15 mm
Thickness	27 mm
Scope of supply	
Delivery quantity in pieces	10
Other	
Merchandise	Yes
Manufacturer name	PHOENIX CONTACT
Manufacturer's address	Flachsmarktstraße 8, 32825 Blomberg, Germany
Target devices	for Comfort Panel, IPC, Flat Panel, Thin Client

Article number	6ES7193-4JB00-0AA0 Connector, female, 2x2-pin
General information	
Product type designation	Connector, female, 2x2-pin
Installation type/mounting	
Wall mounting/direct mounting	Yes; can be plugged into SIMATIC HMI device
Supply voltage	
Rated value (DC)	24 V

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Technical specifications (continued)

Article number	6ES7193-4JB00-0AA0 Connector, female, 2x2-pin
Interfaces	
HMI-side interface	
• Number of pins HMI-side	2; Outgoing side jumpered internally, color-coded
Device-side interface	
• Number of pins device-side	4; Female, spring-loaded terminals 0.75 mm²
Standards, approvals, certificates	
CE mark	Yes
RoHS conformity	Yes
China RoHS compliance	Yes
Ambient conditions	
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	70 °C
Mechanics/material	
Design of housing	plastic
Dimensions	
Width	10 mm
Height	22 mm
Thickness	25 mm
Scope of supply	
Delivery quantity in pieces	10
Other	
Merchandise	No
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Note:	For ET 200S, interface module, KP32F, PN/PN coupler

Article number	6AV6881-0HE20-0AA0 Connector, female, 8-pin	6AV6671-3XY38-4AX0 Connector, female, 12-pin	6AV6671-3XY48-4AX0 Connector, female, 16-pin	6AV6671-3XY58-4AX0 Connector, female, 24-pin
General information				
Product type designation	Connector, female, 8-pin	Connector, female, 12-pin	Connector, female, 16-pin	Connector, female, 24-pin
Installation type/mounting				
Mounting type		Conductor cross-section 0.14 to 1.5 mm²	Conductor cross-section 0.14 to 1.5 mm²	
Wall mounting/direct mounting	Yes; can be plugged into SIMATIC HMI device	Yes; can be plugged into SIMATIC HMI device	Yes; can be plugged into SIMATIC HMI device	Yes; can be plugged into SIMATIC HMI device
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Interfaces				
HMI-side interface				
• Number of pins HMI-side	8; Female	12; Female, spring-loaded terminals, 3.5 mm grid	16; Female, spring-loaded terminals, 3.5 mm grid	24; Female
Device-side interface				
• Number of pins device-side	8; Female, spring-loaded terminals	12; Female, spring-loaded terminals	16; Female, spring-loaded terminals 0.75 mm²	24; Female, spring-loaded terminals 0.75 mm²

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Technical specifications (continued)

Article number	6AV6881-0HE20-0AA0 Connector, female, 8-pin	6AV6671-3XY38-4AX0 Connector, female, 12-pin	6AV6671-3XY48-4AX0 Connector, female, 16-pin	6AV6671-3XY58-4AX0 Connector, female, 24-pin
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
CSA approval	Yes	Yes; 200039-1121690	Yes; 200039-1121690	
UL approval	Yes; E60693	Yes; E60693	Yes; E60693	
cULus		Yes; cURus	Yes; cURus	
EAC (formerly Gost-R)	Yes	Yes	Yes	
RoHS conformity	Yes	Yes	Yes	Yes
China RoHS compliance				Yes
Use in hazardous areas				
• ATEX Zone 2		Yes; Device-dependent, see operating instructions	Yes; Device-dependent, see operating instructions	
• ATEX Zone 22		Yes; Device-dependent, see operating instructions	Yes; Device-dependent, see operating instructions	
• IECEx Zone 2		Yes; Device-dependent, see operating instructions	Yes; Device-dependent, see operating instructions	
• IECEx Zone 22		Yes; Device-dependent, see operating instructions	Yes; Device-dependent, see operating instructions	
• cULus Class I Zone 1		Yes; Device-dependent, see operating instructions	Yes; Device-dependent, see operating instructions	
• cULus Class I Zone 2, Division 2		Yes; Device-dependent, see operating instructions	Yes; Device-dependent, see operating instructions	
• FM Class I Division 2		Yes; Device-dependent, see operating instructions	Yes; Device-dependent, see operating instructions	
Marine approval				
• Germanischer Lloyd (GL)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• American Bureau of Shipping (ABS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Bureau Veritas (BV)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Det Norske Veritas (DNV)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Korean Register of Shipping (KRS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Lloyds Register of Shipping (LRS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Nippon Kaiji Kyokai (Class NK)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Polski Rejestr Statkow (PRS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Chinese Classification Society (CCS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
Ambient conditions				
Suited for indoor use		Yes; Flammability class according to UL 94-V0	Yes; Flammability class according to UL 94-V0	
Suited for outdoor use		Yes; possible under certain conditions	Yes; possible under certain conditions	
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Relative humidity				
• Operation, max.	80 %	80 %	80 %	95 %

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Technical specifications (continued)

Article number	6AV6881-0HE20-0AA0 Connector, female, 8-pin	6AV6671-3XY38-4AX0 Connector, female, 12-pin	6AV6671-3XY48-4AX0 Connector, female, 16-pin	6AV6671-3XY58-4AX0 Connector, female, 24-pin
Mechanics/material				
Material				
• plastic	Yes; PA 66 GF 30	Yes; Insulating material PA66 GF30, actuators PA66/6	Yes; Insulating material PA66 GF30, actuators PA66/6	
Enclosure material (front)				
• Plastic	Yes; Spring-loaded terminals 1.5 mm²	Yes; Spring-loaded terminals 1.5 mm²	Yes; Spring-loaded terminals 1.5 mm²	Yes; Spring-loaded terminals 1.5 mm²
Enclosure color (front)	RAL 9011 (black)	Black	Black	
Enclosure color (rear)	RAL 9011 (black)			
Service life				
• Mechanical service life (mating cycles)		25	25	
Dimensions				
Width	10.5 mm; 8-pin connector	21 mm; 12-pin connector	28 mm; 16-pin connector	16 mm
Height	20 mm	15.2 mm	15.2 mm	54 mm
Depth		26.25 mm	26.25 mm	
Thickness	20 mm			20 mm
Weights				
Weight, approx.		7.9 g	10.5 g	
Weight (without packaging)	5.3 g; Per unit			
Scope of supply				
Delivery quantity in pieces	10; Without ejector	10; Without ejector	10; Without ejector	4; with ejector
Other				
Merchandise	Yes; B2CF 3.50/08/180 SN BK BX O/N:1277480000	Yes	No	No
Manufacturer name	Weidmüller Interface GmbH & Co. KG	Weidmüller Interface GmbH & Co. KG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Klingenbergstraße 16, 32758 Detmold, Germany	Klingenbergstraße 16, 32758 Detmold, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	suitable for all appropriate interfaces	for KP8 PN	for KP8F PN, KP32F PN	for KP32F PN

Article number	6AV6671-8XD00-0AX0 90 degree bracket adapter, 1:1
General information	
Product type designation	90 degree angle adapter, 1:1
Installation type/mounting	
Wall mounting/direct mounting	Yes; Can be screwed onto the HMI
Interfaces	
HMI-side interface	
• Number of pins HMI-side	9; Male
Device-side interface	
• Number of pins device-side	9; Female
Degree and class of protection	
IP (all-round)	none
Standards, approvals, certificates	
CE mark	Yes
RoHS conformity	Yes
China RoHS compliance	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	95 %

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Technical specifications (continued)

Article number	6AV6671-8XD00-0AX0 90 degree bracket adapter, 1:1
Mechanics/material	
Enclosure material (front)	
• Aluminum casting	Yes
Screw type	
• 4.5 V	Yes; HMI page
Torques/forces	
• Tightening torque, min.	0.18 N·m; Insufficient torque can lead to loosening of the screws
• Tightening torque, max.	0.2 N·m
• Tightening torque, recommended	0.2 N·m; Higher torques may damage the product
Dimensions	
Width	31 mm
Height	25 mm
Thickness	25 mm
Weights	
Weight (without packaging)	34 g
Scope of supply	
Delivery quantity in pieces	1
Other	
Merchandise	No
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	suitable for all appropriate interfaces

Article number	6ES7648-3AG00-0XA0 Displayport to VGA adapter	6ES7648-3AF00-0XA0 Displayport to DVI-D Adapter
General information		
Product type designation	Adapter	Adapter
Interfaces		
Interfaces/bus type	DisplayPort to VGA adapter	DisplayPort to DVI-D adapter
Device-side interface	For onboard interfaces and PCI graphics card NVS 295	For onboard interfaces and PCI Express graphics card NVS 295
Standards, approvals, certificates		
CE mark	Yes	Yes
KC approval		Yes
FCC Class B	Yes	Yes
RoHS conformity	Yes	Yes
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	50 °C	50 °C
Relative humidity		
• Condensation permissible	No	No
Cables		
Cable length	178 mm; incl. connector	203 mm; incl. connector
Mechanics/material		
Material		
• plastic	Yes; PVC	Yes; PVC
Color	PBT, blue / LCP, black	
Dimensions		
Width	36 mm; widest point	44 mm; widest point
Height	11.9 mm; Highest point	20 mm; Highest point
Length	178 mm; total length	203 mm; total length
Width of the housing front	36 mm	
Height of housing front	19 mm	

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Technical specifications (continued)

Article number	6ES7648-3AG00-0XA0 Displayport to VGA adapter	6ES7648-3AF00-0XA0 Displayport to DVI-D Adapter
Scope of supply		
Delivery quantity in pieces	1; Quantity	1; Quantity
Other		
Merchandise	Yes; 117G0-038482-R1 / KS10073-172	Yes; 11720009 / KS10009-172
Manufacturer name	BizLink Technology, Inc.	BizLink Technology, Inc.
Manufacturer's address	47211 Bayside Parkway, Fremont, CA 94538, USA	47211 Bayside Parkway, Fremont, CA 94538, USA
contacting the manufacturer	Phone +1 510 252 0786, email: sales@bizlinktech.com	Phone +1 510 252 0786, email: sales@bizlinktech.com
Target devices	SIMATIC Rack IPC427D, IPC477D, IPC547D, IPC547E, IPC627D, IPC647C, IPC647D, IPC677D, IPC827D, IPC847C, IPC847D	SIMATIC Rack IPC227E, IPC277E, IPC427D, IPC477D, IPC547D, IPC547E, IPC627D, IPC647C, IPC647D, IPC677D, IPC827D, IPC847C, IPC847D

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Overview





HMI accessories, power supply units, cables, series

Power supply unit and connecting cables

The external power supply unit is intended for laboratory and office operation only.

The following power supply units and non-heating apparatus cables are available:

- Mobile Panel IWLAN power supply unit without non-heating apparatus cable
- Mobile Panel IWLAN power supply unit with non-heating apparatus cable
- Non-heating apparatus cable for Box and Panel PCs

Selection and ordering data

Power supply units	
Power supply unit, external, Mobile Panel IWLAN without non-heating apparatus cable Suitable only for operation under laboratory/office conditions.	**6AV6671-5CN00-0AX3**
Power supply unit, external, Mobile Panel IWLAN with 90° non-heating apparatus cable Suitable only for operation under laboratory/office conditions.	
• Power supply unit with non-heating apparatus cable for Germany, France, Spain, the Netherlands, Belgium, Sweden, Austria, Finland	**6AV2181-5AL10-0AX0**
• Power supply unit with non-heating apparatus cable for the United Kingdom	**6AV2181-5AL20-0AX0**
• Power supply unit with non-heating apparatus cable for Switzerland	**6AV2181-5AL30-0AX0**
• Power supply unit with non-heating apparatus cable for USA	**6AV2181-5AL40-0AX0**
• Power supply unit with non-heating apparatus cable for Italy	**6AV2181-5AL50-0AX0**
• Power supply unit with non-heating apparatus cable for China	**6AV2181-5AL60-0AX0**
Power supply cable	
Power supply cable 230 V AC, angled 90° For Box PCs and Panel PCs	
• For Germany, France, Spain, the Netherlands, Belgium, Sweden, Austria, Finland	**6ES7900-1AA00-0XA0**
• For the United Kingdom	**6ES7900-1BA00-0XA0**
• For Switzerland	**6ES7900-1CA00-0XA0**
• For the USA	**6ES7900-1DA00-0XA0**
• For Italy	**6ES7900-1EA00-0XA0**
• For China	**6ES7900-1FA00-0XA0**
Power supply cable 230 V AC, straight 180° For Box PCs and Panel PCs	
• For Germany, France, Spain, the Netherlands, Belgium, Sweden, Austria, Finland	**6ES7900-0AA00-0XA0**
• For the United Kingdom	**6ES7900-0BA00-0XA0**
• For Switzerland	**6ES7900-0CA00-0XA0**
• For the USA	**6ES7900-0DA00-0XA0**
• For Italy	**6ES7900-0EA00-0XA0**
• For China	**6ES7900-0FA00-0XA0**

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Technical specifications

Article number	6AV6671-5CN00-0AX3 Power supply AC/DC, external
General information	
Product type designation	Power supply unit
Control elements	
Functional lighting	Yes; LED indicator for power on
Frame size/design	
• Standard	Yes; For industrial applications
Supply voltage	
Rated value (AC)	100 - 240 V AC
Output voltage	
Rated value (DC)	12 V
Output current	
Current output (rated value)	5 A
Standards, approvals, certificates	
CE mark	Yes; TÜV EN 60950-1, BSMI CNS14336
UKCA mark	Yes
CSA approval	Yes; CSA C22.2
UL approval	Yes; UL 60950-1
cULus	Yes; UL 62368-1
KC approval	Yes; KC K60950-1
EAC (formerly Gost-R)	Yes; Approved EAC TP TC 004
CCC	Yes; CCC GB4943
FCC Class B	Yes; EN 55032 (CISPR 32), FCC PART 15 / CISPR 22, CAN ICES-3(B)/NMB-3(B), CNS13438, GB17625.1, EAC TP TC 020, MSIP KN32
China RoHS compliance	Yes
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
• min.	-30 °C
• max.	50 °C; Up to 70 °C, see manufacturer's data sheet
Relative humidity	
• Operation, max.	90 %; Non-condensing (max. 95% humidity for storage)
Cables	
Cable length	
• Input side	0 m; 3-pole AC inlet IEC320-C14, Class power unit
• Output side	1 m; With ferrite core
Color of cable sheath	Black
Connection method	
Connector type	Connector 5.5 mm jack (-) / 2.1 mm pin (+) 12 V DC
Mechanics/material	
Material	
• plastic	Yes
Enclosure material (front)	
• plastic	Yes
Color	Black
Service life	
• Mechanical service life (mating cycles)	1; See manufacturer's data sheet
Dimensions	
Width	125 mm
Height	50 mm
Thickness	31.5 mm
Weights	
Weight (without packaging)	305 g
Scope of supply	
Delivery quantity in pieces	1; Incl. DC cable with P1J jack connector, excl. 3-pin AC connecting cable IEC320-C14

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Technical specifications (continued)

Article number	6AV6671-5CN00-0AX3
	Power supply AC/DC, external
Other	
Merchandise	Yes; MeanWell GST60A12-P1J
Manufacturer name	MEAN WELL EUROPE B.V.
Manufacturer's address	Langs de Werf 8, 1185 XT Amstelveen, Netherlands
Target devices	Standard power supply, e.g. suitable for Mobile Panel IWLAN (always see the Operating Instructions for the target device)
Note:	Manufacturer's address = importer's address (for manufacturer, see commercial goods information text)

Article number	6AV2181-5AL10-0-AX0	6AV2181-5AL20-0-AX0	6AV2181-5AL30-0-AX0	6AV2181-5AL40-0-AX0	6AV2181-5AL50-0-AX0	6AV2181-5AL60-0-AX0
	Power supply, ext., Mobile P. IWLAN DE	Power supply, ext., Mobile P. IWLAN UK	Power supply, ext., Mobile P. IWLAN SW	Power supply, ext., Mobile P. IWLAN US	Power supply, ext., Mobile P. IWLAN IT	Power supply, ext., Mobile P. IWLAN CN
General information						
Product type designation	External power supply unit	External power supply unit	External power supply unit	External power supply unit	External power supply unit	External power supply unit
Supply voltage						
Rated value (AC)	100 - 240 V AC	100 - 240 V AC	100 - 240 V AC	100 - 240 V AC	100 - 240 V AC	100 - 240 V AC
Output voltage						
Rated value (DC)	12 V	12 V	12 V	12 V	12 V	12 V
Output current						
Current output (rated value)	5 A	5 A	5 A	5 A	5 A	5 A
Standards, approvals, certificates						
CE mark	Yes; UL 69950, TÜV EN 600950-1, BSMI CNS14336, CCC GB4942 approved	Yes; UL 69950, TÜV EN 600950-1, BSMI CNS14336, CCC GB4942 approved	Yes; UL 69950, TÜV EN 600950-1, BSMI CNS14336, CCC GB4942 approved	Yes; UL 69950, TÜV EN 600950-1, BSMI CNS14336, CCC GB4942 approved	Yes; UL 69950, TÜV EN 600950-1, BSMI CNS14336, CCC GB4942 approved	Yes; UL 69950, TÜV EN 600950-1, BSMI CNS14336, CCC GB4942 approved
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Ambient temperature during operation						
• min.	-10 °C	-10 °C	-10 °C	-10 °C	-10 °C	-10 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Relative humidity						
• Operation, max.	90 %	90 %	90 %	90 %	90 %	90 %
Cables						
Cable length						
• Input side	3 m	3 m	3 m	3 m	3 m	3 m
• Output side	0.9 m	0.9 m	0.9 m	0.9 m	0.9 m	0.9 m
Color of cable sheath	Black	Black	Black	Black	Black	Black
Connection method						
Connector type	Connector 5.5 mm jack (-) / 2.1 mm pin (+) 12 V DC	Connector 5.5 mm jack (-) / 2.1 mm pin (+) 12 V DC	Connector 5.5 mm jack (-) / 2.1 mm pin (+) 12 V DC	Connector 5.5 mm jack (-) / 2.1 mm pin (+) 12 V DC	Connector 5.5 mm jack (-) / 2.1 mm pin (+) 12 V DC	Connector 5.5 mm jack (-) / 2.1 mm pin (+) 12 V DC
Mechanics/material						
Material						
• plastic	Yes	Yes	Yes	Yes	Yes	Yes
Color	Black	Black	Black	Black	Black	Black
Dimensions						
Width	125 mm	125 mm	125 mm	125 mm	125 mm	125 mm
Height	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm
Thickness	31.5 mm	31.5 mm	31.5 mm	31.5 mm	31.5 mm	31.5 mm
Weights						
Weight (without packaging)	540 g	560 g	525 g	540 g	520 g	540 g

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Technical specifications (continued)

Article number	6AV2181-5AL10-0-AX0	6AV2181-5AL20-0-AX0	6AV2181-5AL30-0-AX0	6AV2181-5AL40-0-AX0	6AV2181-5AL50-0-AX0	6AV2181-5AL60-0-AX0
	Power supply, ext., Mobile P. IWLAN DE	Power supply, ext., Mobile P. IWLAN UK	Power supply, ext., Mobile P. IWLAN SW	Power supply, ext., Mobile P. IWLAN US	Power supply, ext., Mobile P. IWLAN IT	Power supply, ext., Mobile P. IWLAN CN
Scope of supply						
Delivery quantity in pieces	1; Incl. AC and DC connecting cable	1; Incl. AC and DC connecting cable	1; Incl. AC and DC connecting cable	1; Incl. AC and DC connecting cable	1; Incl. AC and DC connecting cable	1; Incl. AC and DC connecting cable
• Parts per unit	1; AC cable for DE, FR, ES, NL, BE, SE, AT, FI	1; AC cable for GB	1; AC cable for CH	1; AC cable for US	1; AC cable for IT	1; AC cable for CN
Other						
Merchandise	Yes	Yes	Yes	Yes	Yes	Yes
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	for Mobile Panel IWLAN	for Mobile Panel IWLAN	for Mobile Panel IWLAN	for Mobile Panel IWLAN	for Mobile Panel IWLAN	for Mobile Panel IWLAN

Article number	6ES7900-0AA00-0-XA0	6ES7900-0BA00-0-XA0	6ES7900-0CA00-0-XA0	6ES7900-0DA00-0-XA0	6ES7900-0EA00-0-XA0	6ES7900-0FA00-0-XA0
	Power cord, Germany and others	Power cord, United Kingdom,	Power cord, Switzerland	Power cord, USA, Canada	Power cord, Italy type L	Power cord, China GB 1002 and others
General information						
Product type designation	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus
Interfaces						
Interfaces/bus type	Line-side, country-specific connector: Type CEE 7/7 Schuko	Line-side, country-specific connector: Type BS 1363 (Commonwealth connector)	Line-side, country-specific connector: Type J (SEV 1011)	Line-side, country-specific connector: Type B (NEMA 5-15)	Line-side, country-specific connector: Type L (CEI 23-50)	Line-side, country-specific connector: Type I: GB 1002 (China), AS 3112 (Australia), IRAM 2073 (Argentina)
Device-side interface						
• Number of pins device-side	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes; Max. 10 A	Yes; Equipped with internal 13 A melting fuse	Yes; Max. 10 A	Yes; Max. 10 A	Yes; Max. 10 A	Yes; Max. 10 A
Ambient temperature during operation						
• min.	-10 °C	-10 °C	-10 °C	-10 °C	-10 °C	-10 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Relative humidity						
• Operation, max.	90 %	90 %	90 %	90 %	90 %	90 %
Cables						
Cable length	3 m	3 m	3 m	3 m	3 m	3 m
Color of cable sheath	Black	Black	Black	Black	Black	Black
Weights						
Weight, approx.	290 g	300 g	260 g	230 g	255 g	280 g
Scope of supply						
Delivery quantity in pieces	1; AC cable for DE, FR, ES, NL, BE, SE, AT, FI	1; AC cable for GB	1; AC cable for CH	1; AC cable for US	1; AC cable for IT	1; AC cable for CN

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Technical specifications (continued)

Article number	6ES7900-0AA00-0-XA0	6ES7900-0BA00-0-XA0	6ES7900-0CA00-0-XA0	6ES7900-0DA00-0-XA0	6ES7900-0EA00-0-XA0	6ES7900-0FA00-0-XA0
	Power cord, Germany and others	Power cord, United Kingdom,	Power cord, Switzerland	Power cord, USA, Canada	Power cord, Italy type L	Power cord, China GB 1002 and others
Other						
Merchandise	Yes; VII-H05VVF3G100-C13-/3,00M SW9005 (L50/PROD)	Yes; BS13/13-H05VVF3-G100-C13/3,00M SW9005	Yes; 12G-H05VVF3G100-C13-/3,00M SW9005	Yes; 498G-SVT3X18AWG-C13/3,00M SW9005 (GNSWWS)	Yes; I/3G-H05VVF3G100-C13-/3,00M SW9005	Yes; PRC/3-H05VVF3G10-0-C13/3,00M SW9005
Manufacturer name	FELLER GmbH	FELLER GmbH	FELLER GmbH	FELLER GmbH	FELLER GmbH	FELLER GmbH
Manufacturer's address	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com
Target devices	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces
Note:	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com

Article number	6ES7900-1AA00-0-XA0	6ES7900-1BA00-0-XA0	6ES7900-1CA00-0-XA0	6ES7900-1DA00-0-XA0	6ES7900-1EA00-0-XA0	6ES7900-1FA00-0-XA0
	Power cord, Germany	Power cord, United Kingdom,	Power cord, Switzerland	Power cord, USA	Power cord, Italy	Power cord, China
General information						
Product type designation	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus	Cable for non-heating apparatus
Interfaces						
Interfaces/bus type	Line-side, country-specific connector: Type CEE 7/7 Schuko	Line-side, country-specific connector: Type BS 1363 (Commonwealth connector)	Line-side, country-specific connector: Type J (SEV 1011)	Line-side, country-specific connector: Type B (NEMA 5-15)	Line-side, country-specific connector: Type L (CEI 23-50)	Line-side, country-specific connector: Type I: GB 1002 (China), AS 3112 (Australia), IRAM 2073 (Argentina)
Device-side interface						
• Number of pins device-side	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type	3; Female, C13 connector type
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes; Max. 10 A	Yes; Equipped with internal 13 A melting fuse	Yes; Max. 10 A	Yes; Max. 10 A	Yes; Max. 10 A	Yes; Max. 10 A
Ambient temperature during operation						
• min.	-10 °C	-10 °C	-10 °C	-10 °C	-10 °C	-10 °C
• max.	50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
Relative humidity						
• Operation, max.	90 %	90 %	90 %	90 %	90 %	90 %
Cables						
Cable length	3 m	3 m	3 m	3 m	3 m	3 m
Color of cable sheath	Black	Black	Black	Black	Black	Black
Weights						
Weight, approx.	290 g	300 g	260 g	230 g	255 g	280 g
Scope of supply						
Delivery quantity in pieces	1; AC cable for DE, FR, ES, NL, BE, SE, AT, FI	1; AC cable for GB	1; AC cable for CH	1; AC cable for US	1; AC cable for IT	1; AC cable for CN

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Technical specifications (continued)

Article number	6ES7900-1AA00-0-XA0	6ES7900-1BA00-0-XA0	6ES7900-1CA00-0-XA0	6ES7900-1DA00-0-XA0	6ES7900-1EA00-0-XA0	6ES7900-1FA00-0-XA0
	Power cord, Germany	Power cord, United Kingdom,	Power cord, Switzerland	Power cord, USA	Power cord, Italy	Power cord, China
Other						
Merchandise	Yes; VII-H05VVF3G100-C13-W/3,00M SW9005 (L53)	Yes; BS13/13-H05VVF3-G100-C13W/3,00M SW9005	Yes; 12G-H05VVF3G100-C13-W/3,00M SW9005	Yes; 498G-SVT3X18AWG-C13W/3,00M SW9005 (GNSWWS)	Yes; I/3G-H05VVF3G100-C13-W/3,00M SW9005	Yes; PRC/3-H05VVF3G10-0-C13W/3,00M SW9005
Manufacturer name	FELLER GmbH	FELLER GmbH	FELLER GmbH	FELLER GmbH	FELLER GmbH	FELLER GmbH
Manufacturer's address	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com	Wärndorferstraße 3, 2525 Günselsdorf, Austria; email: sales@feller-at.com
Target devices	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces	suitable for all appropriate AC interfaces
Note:	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com	http://www.feller-at.com

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Overview



Protective film 24"; front type 5, full-area adhesive matt reflection shield

Protective films

Protective films are available for almost all SIMATIC HMI devices. They protect the display from dirt and scratching during operation and in harsh environments. The SIMATIC protective films are non-reflective. This ensures that the display is always easy to read, even when using protective films.
The protective film can be removed without leaving any adhesive residue on the front. Adhesive-edged protective films are now available for resistive touch systems (membrane touch).
For multi-touch systems (typically with glass fronts), full-width adhesive protective films are available. Full-width adhesive films should not be used on single-touch systems, as the touch system could be damaged when removing the film. All full-width adhesive films can be trimmed to any size, this does not affect the quality of the film. Adhesive-edged films should not be trimmed, as this would lead to the loss of the adhesive edge.

For complete protection of the front side in harsh environments, protective covers are also available for some devices.

Benefits of protective films/protective covers:

- Reduced reflections and mirroring
- Lightweight, thin and frameless design
- Simple and fast to attach
- Residue-free removal
- Dust-resistant
- Antibacterial coating, e.g. for medical area or food and beverage (please note: only options with BAC [1] marking)

The protective film does not always need to cover the whole front. For compatibility reasons, not all protective films extend as far as the edge of the enclosure. This does not in any way impair the function of protecting the display.

[1] BAC stands for antibacterial coating. These films are suitable in particular for the F&B and pharmaceuticals industries, or wherever hygiene is a priority.

Selection and ordering data

Protective films 4"	
• Touch devices	**6AV6671-2EC00-0AX0**
• Widescreen	**6AV2124-6DJ00-0AX0**
• Widescreen, type 5 Unified / IPC	**6AV6881-0DJ22-0AA0**
• Widescreen, type 5 Unified / IPC	**6AV6881-0DJ22-1AA0**
• Widescreen, type 13	**6AV2181-5DJ00-0AX0**
Protective films 6"	
• Touch devices, type 1	**6AV6574-1AD00-4AX0**
• Touch devices, type 2	**6AV6574-1AD00-4DX0**
• Touch devices, type 4	**6AV6671-2XC00-0AX0**
• Touch devices, type 10	**6AV6574-1AD04-4AA0**
Protective films 7"	
• Widescreen	**6AV2124-6GJ00-0AX0**
• Widescreen, type 5 Unified / IPC	**6AV6881-0GJ22-0AA0**
• Widescreen, type 5 BAC[1] Unified / IPC	**6AV6881-0GJ22-1AA0**
• Widescreen, type 13	**6AV2181-5GJ00-0AX0**
Protective films 8"	
• Touch devices, type 1	**6AV6671-3CC00-0AX0**
• Touch devices, type 2	**6AV6671-3CC00-0AX5**
• Touch devices, type 10	**6AV6671-5BC00-0AX0**
Protective films 9"	
• Widescreen, type 1	**6AV2124-6JJ00-0AX0**
• Widescreen, type 2	**6AV2181-3JJ20-0AX0**
• Widescreen, type 13	**6AV2181-5JJ00-0AX0**
Protective films 10"	
• Touch devices, type 1	**6AV6671-3DC00-0AX0**
• Touch devices, type 2	**6AV6671-3DC00-0AX5**
• Protective film 10" edge-adhesive, type 4	**6AV6881-0AJ11-0AA0**
• Widescreen "full-surface bonding", type 4	**6AV6881-0AJ21-0AA0**
• Widescreen, type 5 Unified / IPC	**6AV6881-0KJ22-0AA0**
• Widescreen, type 5 BAC[1] Unified / IPC	**6AV6881-0KJ22-1AA0**
• Touch devices, type 10	**6AV6645-7AB15-0AS0**
Protective films for 10" to 12" touch devices	**6AV6574-1AD00-4CX0**
Protective films 12"	
• Widescreen, type 1	**6AV2124-6MJ00-0AX0**
• Widescreen, type 2	**6AV2181-3MJ20-0AX0**
• Widescreen, type 5 Unified / IPC	**6AV6881-0MJ22-0AA0**
• Widescreen, type 5 BAC[1] Unified / IPC	**6AV6881-0MJ22-1AA0**
• Protective film, type 6 IFP	**6AV6881-7MJ13-2AA0**
• Protective film IPC	**6AV7671-2BA00-0AA0**
Protective films 15"	
• Touch devices	**6AV6574-1AD00-4EX0**
• Widescreen	**6AV2124-6QJ00-0AX1**
• Widescreen, type 5 Unified / IPC	**6AV6881-0QJ22-0AA0**
• Widescreen, type 5 BAC[1] Unified / IPC	**6AV6881-0QJ22-1AA0**
• Protective film, type 6 IFP	**6AV6881-7QJ13-2AA0**

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Selection and ordering data (continued)

Protective films 19"	
• Touch devices	**6AV7672-1CE00-0AA0**
• Widescreen	**6AV2124-6UJ00-0AX1**
• Widescreen "full-surface bonding"	**6AV6881-0UJ20-0AA0**
• Widescreen, type 5 Unified / IPC	**6AV6881-0UJ22-0AA0**
• Widescreen, type 5 BAC[1)] Unified / IPC	**6AV6881-0UJ22-1AA0**
• Protective film, type 6 IFP	**6AV6881-7UJ13-2AA0**
Protective films 22"	
• Widescreen	**6AV2124-6XJ00-0AX1**
• Widescreen type 1	**6AV6881-0VJ20-0AA0**
• Widescreen, type 5 Unified / IPC	**6AV6881-0VJ22-0AA0**
• Widescreen, type 5 BAC [1)] Unified / IPC	**6AV6881-0VJ22-1AA0**
• Protective film, type 6 IFP	**6AV6881-7VJ13-2AA0**
Protective films 24"	
• Widescreen, type 5 Unified / IPC	**6AV6881-0WJ22-0AA0**

1) BAC stands for antibacterial coating. These films are suitable in particular for the F&B and pharmaceuticals industries, or wherever hygiene is a priority.

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Technical specifications

Article number	6AV6671-2EC00-0AX0 Protect. Film 4" Touch Device	6AV2124-6DJ00-0AX0 Protect. Film 4" Widescreen	6AV2181-5DJ00-0AX0 Protect. film 4" widescreen, type 13
General information			
Product type designation	Protective film 4"	Protective film 4" widescreen	Protective film 4" widescreen
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
RoHS conformity	Yes	Yes	
Ambient conditions			
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
• Condensation permissible		No	No
Mechanics/material			
Material			
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Nonreflecting
Dimensions			
Width	120 mm	131.6 mm	110.1 mm
Height	105 mm	107.6 mm	68.9 mm
Thickness	0.125 mm	0.125 mm	0.125 mm
Scope of supply			
Delivery quantity in pieces	10	10	10
Other			
printable with laser printer	Yes	Yes	No
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	for TP 177B 4", KTP 400 Basic	For KTP400 Basic, KTP400 Basic 2nd, KTP400 Comfort, KTP400F Mobile	KTP400F Mobile 4"

Article number	6AV6671-3DC00-0-AX0 Protect. Film 10" Touch Device, Type 1	6AV6671-3DC00-0-AX5 Protect. Film 10" Touch Device, Type 2	6AV6881-0AJ21-0-AA0 Protect. film 10" widescreen, type 4	6AV6881-0KJ22-0-AA0 Protect. film 10" front, type 5	6AV6645-7AB15-0-AS0 Protect. film 10" Touch device, type10	6AV6574-1AD00-4-CX0 Protect. Film 10" to 12" Touch Device
General information						
Product type designation	Protective film 10"	Protective film 10"	Protective film 10" widescreen, type 4	Protective film 10" front, surface, type 5	Protective film 10"	Protective film 10" ... 12"
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	No; No CE marking obligation	No; No CE marking obligation	Yes	Yes
REACH			Yes; Tested			
EAC (formerly Gost-R)				Yes		
RoHS conformity		Yes	Yes; unnecessary	Yes; unnecessary		

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Technical specifications (continued)

Article number	6AV6671-3DC00-0-AX0	6AV6671-3DC00-0-AX5	6AV6881-0AJ21-0-AA0	6AV6881-0KJ22-0-AA0	6AV6645-7AB15-0-AS0	6AV6574-1AD00-4-CX0
	Protect. Film 10" Touch Device, Type 1	Protect. Film 10" Touch Device, Type 2	Protect. film 10" widescreen, type 4	Protect. film 10" front, type 5	Protect. film 10" Touch device, type10	Protect. Film 10" to 12" Touch Device
Ambient conditions						
Suited for indoor use			Yes	Yes; Processing temperature 5 °C to 32 °C, empirical value		
Suited for outdoor use			No; possible under certain conditions	No; possible under certain conditions		
Ambient temperature during operation						
• min.	-40 °C	-40 °C	0 °C	-20 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	55 °C	80 °C	80 °C	50 °C
Relative humidity						
• Operation, max.	90 %	90 %	50 %	50 %	90 %	90 %
Mechanics/material						
Material			Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer	Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer		
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant	Yes; Nonreflecting	Yes; Polyester; non-reflecting
• PET			Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue	Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue		
Enclosure material (front)			Scratching hardness 2H, adhesive force 0.011 N/25 mm	Scratch resistance 2H (acc. to JIS K 5600), adhesive force 0.011 N/25 mm (acc. to JIS Z 0237)		
• Plastic				Yes; Haze 11.9% acc. to JIS K 7136 and transmission 90.5% acc. to JIS K 7361-1		
• PET				Yes; Basic foil, storage life > 1 year		
Dimensions						
Width	292 mm	299.8 mm	216.96 mm	277 mm	223.17 mm	297.4 mm
Height	248 mm	259.9 mm	135.6 mm	198 mm	170.37 mm	254.4 mm
Thickness	0.125 mm	0.125 mm	0.225 mm; Corners radius 0 mm	0.225 mm; Corners radius 3.1 mm	0.3 mm	0.125 mm
Weights						
Weight (without packaging)			30 g; Per unit	16 g; Per unit		
Scope of supply						
Delivery quantity in pieces	10	10	5; Units per set	5; Units per set	10	10
Components included			5x removers, 5x cleaning cloths, 5x spatulas for applying	5x removers, 5x cleaning cloths, 1x spatula for applying		

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Technical specifications (continued)

Article number	6AV6671-3DC00-0-AX0	6AV6671-3DC00-0-AX5	6AV6881-0AJ21-0-AA0	6AV6881-0KJ22-0-AA0	6AV6645-7AB15-0-AS0	6AV6574-1AD00-4-CX0
	Protect. Film 10" Touch Device, Type 1	Protect. Film 10" Touch Device, Type 2	Protect. film 10" widescreen, type 4	Protect. film 10" front, type 5	Protect. film 10" Touch device, type10	Protect. Film 10" to 12" Touch Device
Other						
printable with laser printer	Yes	Yes; Test printer suitability beforehand. No liability for printer damage	No; suitable for screen printing or UV printing	No	Yes	Yes
Merchandise	No	No	Yes; URM55 reflection shield, matte	Yes; URM55 reflection shield, matte		No
Manufacturer name	SIEMENS AG	SIEMENS AG	Bedifol GmbH	Bedifol GmbH	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
contacting the manufacturer			Phone +49 (7531) 12738 10, email: info@bedifol.com	phone: +49 (7531) 12738-60, email: shop@schutzfolien-24.de		
Target devices				Panels and IPC with start of delivery from 2020 (WFP2.3)	for Mobile Panel 277 10"	
Note:			Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems	Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems		

Article number	6AV6574-1AD00-4AX0	6AV6574-1AD00-4DX0	6AV6671-2XC00-0AX0	6AV6574-1AD04-4AA0
	Protect. Film 6" Touch Device, Type 1	Protect. Film 6" Touch Device, Type 2	Protect. Film 6" Touch Device, Type 3	Protect. Film 6" Touch Device, Type 10
General information				
Product type designation	Protective film 6"	Protective film 6"	Protective film 6"	Protective film 6"
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	-40 °C	-40 °C	-40 °C	-40 °C
• max.	50 °C	50 °C	80 °C	80 °C
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
Mechanics/material				
Material				
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Nonreflecting
Dimensions				
Width	118.4 mm	178.4 mm	179.4 mm	120.5 mm
Height	89 mm	135.4 mm	141.4 mm	91 mm
Thickness	0.125 mm	0.125 mm	0.125 mm	0.125 mm
Scope of supply				
Delivery quantity in pieces	10	10	10	10

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Technical specifications (continued)

Article number	6AV6574-1AD00-4AX0	6AV6574-1AD00-4DX0	6AV6671-2XC00-0AX0	6AV6574-1AD04-4AA0
	Protect. Film 6" Touch Device, Type 1	Protect. Film 6" Touch Device, Type 2	Protect. Film 6" Touch Device, Type 3	Protect. Film 6" Touch Device, Type 10
Other				
printable with laser printer	Yes	Yes	Yes	Yes
Merchandise	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For TP070, TP170micro, TP170A/B, C7-635 touch	For TP270 6", TP277 6", MP177 6" touch, MP270B 6" touch	for TP 177micro, TP 177A, TP 177B, OP 177B, KTP 600 Basic	For Mobile Panel 170, Mobile Panel 177

Article number	6AV2181-5GJ00-0AX0	6AV2124-6GJ00-0AX0	6AV6881-0GJ22-0AA0
	Protect. film 7" widescreen, type 13	Protect. film 7" widescreen	Protect. film 7" front, type 5
General information			
Product type designation	Protective film 7" widescreen	Protective film 7" widescreen	Protective film 7" front, surface, type 5
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	No; No CE marking obligation
EAC (formerly Gost-R)			Yes
RoHS conformity		Yes	Yes; unnecessary
Ambient conditions			
Suited for indoor use			Yes; Processing temperature 5 °C to 32 °C, empirical value
Suited for outdoor use			No; possible under certain conditions
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-20 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	50 %
• Condensation permissible	No	No	
Mechanics/material			
Material			Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant
• PET			Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue
Enclosure material (front)			Scratch resistance 2H (acc. to JIS K 5600), adhesive force 0.011 N/25 mm (acc. to JIS Z 0237)
• Plastic			Yes; Haze 11.9% acc. to JIS K 7136 and transmission 90.5% acc. to JIS K 7361-1
• PET			Yes; Basic foil, storage life > 1 year
Dimensions			
Width	169.5 mm	205.6 mm	206 mm
Height	108.5 mm	149.6 mm	150 mm
Thickness	0.125 mm	0.125 mm	0.225 mm; Corners radius 3.1 mm
Weights			
Weight (without packaging)			8 g; Per unit

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Technical specifications (continued)

Article number	6AV2181-5GJ00-0AX0 Protect. film 7" widescreen, type 13	6AV2124-6GJ00-0AX0 Protect. film 7" widescreen	6AV6881-0GJ22-0AA0 Protect. film 7" front, type 5
Scope of supply			
Delivery quantity in pieces	10; Units per set	10	5; Units per set
Components included	10x protective films without additional accessories/components		5x removers, 5x cleaning cloths, 1x spatula for applying
Other			
printable with laser printer	No	No; digital UV printing	No
Merchandise	No	No	Yes; URM55 reflection shield, matte
Manufacturer name	SIEMENS AG	SIEMENS AG	Bedifol GmbH
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany
contacting the manufacturer			phone: +49 (7531) 12738-60, email: shop@schutzfolien24.de
Target devices	KTP700 Mobile, KTP700F Mobile	for KTP700 Basic 2nd, TP700 Comfort, IPC277D	Panels and IPC with start of delivery from 2020 (WFP2.3)
Note:		Edge-adhesive film, can be trimmed to a limited extent, printable, observe target device manual before attaching, high suitability for resistive touch systems, limited suitability for glass fronts	Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems

Article number	6AV6671-3CC00-0AX0 Protect. Film 8" Touch Device, Type 1	6AV6671-3CC00-0AX5 Protect. Film 8" Touch Device, Type 2	6AV6671-5BC00-0AX0 Protect. film 8" Touch device, type 10
General information			
Product type designation	Protective film 8"	Protective film 8"	Protective film 8"
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
RoHS conformity		Yes	
Ambient conditions			
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
Mechanics/material			
Material			
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Nonreflecting
Dimensions			
Width	207 mm	217 mm	155.5 mm
Height	165 mm	217 mm	117.7 mm
Thickness	0.125 mm	0.125 mm	0.3 mm
Scope of supply			
Delivery quantity in pieces	10	10	2
Other			
printable with laser printer	Yes	Yes	Yes
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For MP277 8" touch up to product version "ES 14"	For MP277 8" touch in product version "ES 15" and later	for Mobile Panel 277 8"

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Technical specifications (continued)

Article number	6AV2124-6JJ00-0AX0 Protect. Film 9" Widescreen	6AV2181-3JJ20-0AX0 Protect. Film 9" Widescreen, Type 2	6AV2181-5JJ00-0AX0 Protect. film 9" widescreen, type 13
General information			
Product type designation	Protective film 9" widescreen	Protective film 9" widescreen	Protective film 9" widescreen
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
RoHS conformity	Yes		
Ambient conditions			
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
• Condensation permissible	No	No	No
Mechanics/material			
Material			
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Nonreflecting
Dimensions			
Width	265.6 mm	258.4 mm	214.6 mm
Height	181.6 mm	173.4 mm	134.6 mm
Thickness	0.125 mm	0.125 mm	0.125 mm
Scope of supply			
Delivery quantity in pieces	10	10	10
Other			
printable with laser printer	Yes	Yes	No
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	for TP900 Comfort, IPC277D	for KTP900 Basic	KTP900 Mobile, KTP900F Mobile

Article number	6AV2124-6MJ00-0AX0 Protect. Film 12" Widescreen	6AV2181-3MJ20-0AX0 Protect. Film 12" Widescreen, Type 2	6AV6881-0MJ22-0AA0 Protect. film 12" front, type 5
General information			
Product type designation	Protective film 12" widescreen	Protective film 12" widescreen	Protective film 12" front, surface, type 5
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	No; No CE marking obligation
EAC (formerly Gost-R)			Yes
RoHS conformity	Yes		Yes; unnecessary
Ambient conditions			
Suited for indoor use			Yes; Processing temperature 5 °C to 32 °C, empirical value
Suited for outdoor use			No; possible under certain conditions
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-20 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	50 %
• Condensation permissible	No	No	

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Technical specifications (continued)

Article number	6AV2124-6MJ00-0AX0	6AV2181-3MJ20-0AX0	6AV6881-0MJ22-0AA0
	Protect. Film 12" Widescreen	Protect. Film 12" Widescreen, Type 2	Protect. film 12" front, type 5
Mechanics/material			
Material			Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant
• PET			Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue
Enclosure material (front)			Scratch resistance 2H (acc. to JIS K 5600), adhesive force 0.011 N/25 mm (acc. to JIS Z 0237)
• plastic			Yes; Haze 11.9% acc. to JIS K 7136 and transmission 90.5% acc. to JIS K 7361-1
• PET			Yes; Basic foil, storage life > 1 year
Dimensions			
Width	321.6 mm	321.4 mm	318 mm
Height	232.6 mm	236.8 mm	229 mm
Thickness	0.125 mm	0.125 mm	0.225 mm; Corners radius 3.1 mm
Weights			
Weight (without packaging)			22 g; Per unit
Scope of supply			
Delivery quantity in pieces	10	10	5; films per package
Components included			5x removers, 5x cleaning cloths, 1x spatula for applying
Other			
printable with laser printer	Yes	Yes	No
Merchandise	No	No	Yes; URM55 reflection shield, matte
Manufacturer name	SIEMENS AG	SIEMENS AG	Bedifol GmbH
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany
contacting the manufacturer			phone: +49 (7531) 12738-60, email: shop@schutzfolien24.de
Target devices	for TP1200 Comfort, IPC277D	for KTP1200 Basic	Panels and IPC with start of delivery from 2020 (WFP2.3)
Note:			Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems

Article number	6AV2124-6QJ00-0AX1	6AV6574-1AD00-4EX0	6AV6881-0QJ22-0AA0
	Protect. Film 15" Widescreen	Protect. Film 15" Touch Device	Protect. film 15" front, type 5
General information			
Product type designation	Protective film 15" widescreen	Protective film 15", 4:3	Protective film 15" front, surface, type 5
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark		Yes	No; No CE marking obligation
EAC (formerly Gost-R)			Yes
RoHS conformity			Yes; unnecessary

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Technical specifications (continued)

Article number	6AV2124-6QJ00-0AX1	6AV6574-1AD00-4EX0	6AV6881-0QJ22-0AA0
	Protect. Film 15" Widescreen	Protect. Film 15" Touch Device	Protect. film 15" front, type 5
Ambient conditions			
Suited for indoor use	Yes		Yes; Processing temperature 5 °C to 32 °C, empirical value
Suited for outdoor use	No		No; possible under certain conditions
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-20 °C
• max.	80 °C	50 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	50 %
Mechanics/material			
Material			Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant
• PET			Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue
Enclosure material (front)			Scratch resistance 2H (acc. to JIS K 5600), adhesive force 0.011 N/25 mm (acc. to JIS Z 0237)
• Plastic			Yes; Haze 11.9% acc. to JIS K 7136 and transmission 90.5% acc. to JIS K 7361-1
• PET			Yes; Basic foil, storage life > 1 year
Dimensions			
Width	368.2 mm	362 mm	390 mm
Height	259.2 mm	289 mm	249 mm
Thickness	0.125 mm	0.125 mm	0.225 mm; Corners radius 5.5 mm
Weights			
Weight (without packaging)	26 g; Per unit		150 g; Per unit
Scope of supply			
Delivery quantity in pieces	10; Units per set	10	5; films per package
Components included			5x removers, 5x cleaning cloths, 1x spatula for applying
Other			
printable with laser printer	Yes	Yes	No; Suitable for screen printing
Merchandise	No	No	Yes; URM55 reflection shield, matte
Manufacturer name	SIEMENS AG	SIEMENS AG	Bedifol GmbH
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany
contacting the manufacturer			Phone +49 (7531) 12738 10, email: info@bedifol.com
Target devices	for Comfort Panel, IPC, Flat Panel, Thin Client		Panels and IPC with start of delivery from 2020 (WFP2.3)
Note:	not suitable for multi-touch (glass front)	Not suitable for widescreen	Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems

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Technical specifications (continued)

Article number	6AV7672-1CE00-0AA0	6AV2124-6UJ00-0AX1	6AV6881-0UJ20-0AA0	6AV6881-0UJ22-0AA0
	Protect. Film 19" Touch Device	Protect. Film 19" Widescreen	Protect. film 19" glass front, type 1	Protect. film 19" front, type 5
General information				
Product type designation	Protective film 19", 4:3	Protective film 19" widescreen	Protective film, 19" glass front	Protective film 19" front, surface, type 5
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes		No; No CE marking obligation	No; No CE marking obligation
REACH			Yes; Tested	
EAC (formerly Gost-R)				Yes
RoHS conformity			Yes; unnecessary	Yes; unnecessary
Ambient conditions				
Suited for indoor use		Yes	Yes	Yes; Processing temperature 5 °C to 32 °C, empirical value
Suited for outdoor use		No	No; possible under certain conditions	No; possible under certain conditions
Ambient temperature during operation				
• min.	-40 °C	-40 °C	0 °C	-20 °C
• max.	80 °C	80 °C	55 °C	80 °C
Relative humidity				
• Operation, max.	90 %	90 %	50 %	50 %
Mechanics/material				
Material			Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer	Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer
• plastic	Yes; Nonreflecting	Yes; Nonreflecting	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant
• PET			Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue	Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue
Enclosure material (front)			Scratching hardness 2H, adhesive force 0.011 N/25 mm	Scratch resistance 2H (acc. to JIS K 5600), adhesive force 0.011 N/25 mm (acc. to JIS Z 0237)
• Plastic				Yes; Haze 11.9% acc. to JIS K 7136 and transmission 90.5% acc. to JIS K 7361-1
• PET				Yes; Basic foil, storage life > 1 year
Dimensions				
Width	378 mm	451.2 mm	409 mm	456 mm
Height	302.5 mm	285.2 mm	231 mm	286 mm
Thickness	0.2 mm	0.125 mm	0.225 mm; Corners radius 0.5 mm	0.225 mm; Corners radius 5.5 mm
Weights				
Weight (without packaging)		34 g; Per unit	34 g; Per unit	190 g; Per unit
Scope of supply				
Delivery quantity in pieces	10	10; Units per set	5; Units per set	5; films per package
Components included			5x removers, 5x cleaning cloths, 5x spatulas for applying	5x removers, 5x cleaning cloths, 1x spatula for applying

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Technical specifications (continued)

Article number	6AV7672-1CE00-0AA0	6AV2124-6UJ00-0AX1	6AV6881-0UJ20-0AA0	6AV6881-0UJ22-0AA0
	Protect. Film 19" Touch Device	Protect. Film 19" Widescreen	Protect. film 19" glass front, type 1	Protect. film 19" front, type 5
Other				
printable with laser printer	Yes	Yes	No; suitable for screen printing or UV printing	No; Suitable for screen printing
Merchandise	No	No	Yes; URM55 reflection shield, matte	Yes; URM55 reflection shield, matte
Manufacturer name	SIEMENS AG	SIEMENS AG	Bedifol GmbH	Bedifol GmbH
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany
contacting the manufacturer			Phone +49 (7531) 12738 10, email: info@bedifol.com	Phone +49 (7531) 12738 10, email: info@bedifol.com
Target devices		for Comfort Panel, IPC, Flat Panel, Thin Client	For 19" widescreen flat panels, can also be cut to size for smaller, glass front displays, not suitable for membrane fronts	Panels and IPC with start of delivery from 2020 (WFP2.3)
Note:	Not suitable for widescreen	not suitable for multi-touch (glass front)	Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems	Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems

Article number	6AV2124-6XJ00-0AX1	6AV6881-0VJ22-0AA0	6AV6881-0WJ22-0AA0
	Protect. Film 22" Widescreen	Protect. film 22" front, type 5	Protect. film 24" front, type 5
General information			
Product type designation	Protective film 22" widescreen	Protective film 22" front, surface, type 5	Protective film 24" front, surface, type 5
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark		No; No CE marking obligation	No; No CE marking obligation
EAC (formerly Gost-R)		Yes	Yes
RoHS conformity		Yes; unnecessary	Yes; unnecessary
Ambient conditions			
Suited for indoor use	Yes	Yes; Processing temperature 5 °C to 32 °C, empirical value	Yes; Processing temperature 5 °C to 32 °C, empirical value
Suited for outdoor use	No	No; possible under certain conditions	No; possible under certain conditions
Ambient temperature during operation			
• min.	-40 °C	-20 °C	-20 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	50 %	50 %
Mechanics/material			
Material		Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer	Polyester with functional hard layer, dirt-repellant, URM55, silicone adhesive layer
• plastic	Yes; Nonreflecting	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant	Yes; Non-reflecting, matte, can be removed without residue, hard-coated, dirt-repellant
• PET		Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue	Yes; Non-antistatic, non-reflecting, scratch-resistant, can be removed without residue
Enclosure material (front)		Scratch resistance 2H (acc. to JIS K 5600), adhesive force 0.011 N/25 mm (acc. to JIS Z 0237)	Scratch resistance 2H (acc. to JIS K 5600), adhesive force 0.011 N/25 mm (acc. to JIS Z 0237)
• Plastic		Yes; Haze 11.9% acc. to JIS K 7136 and transmission 90.5% acc. to JIS K 7361-1	Yes; Haze 11.9% acc. to JIS K 7136 and transmission 90.5% acc. to JIS K 7361-1
• PET		Yes; Basic foil, storage life > 1 year	Yes; Basic foil, storage life > 1 year

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Technical specifications (continued)

Article number	6AV2124-6XJ00-0AX1	6AV6881-0VJ22-0AA0	6AV6881-0WJ22-0AA0
	Protect. Film 22" Widescreen	Protect. film 22" front, type 5	Protect. film 24" front, type 5
Dimensions			
Width	518.2 mm	521 mm	577 mm
Height	334.2 mm	323 mm	355 mm
Thickness	0.125 mm	0.225 mm; Corners radius 5.5 mm	0.225 mm; Corners radius 5.5 mm
Weights			
Weight (without packaging)	44 g; Per unit	220 g; Per unit	240 g; Per unit
Scope of supply			
Delivery quantity in pieces	10; Units per set	5; films per package	5; films per package
Components included		5x removers, 5x cleaning cloths, 1x spatula for applying	5x removers, 5x cleaning cloths, 1x spatula for applying
Other			
printable with laser printer	Yes	No; Suitable for screen printing	No; Suitable for screen printing
Merchandise	No	Yes; URM55 reflection shield, matte	Yes; URM55 reflection shield, matte
Manufacturer name	SIEMENS AG	Bedifol GmbH	Bedifol GmbH
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany	Byk-Gulden-Straße 2 // F22, 78467 Constance, Germany
contacting the manufacturer		Phone +49 (7531) 12738 10, email: info@bedifol.com	Phone +49 (7531) 12738 10, email: info@bedifol.com
Target devices	for Comfort Panel, IPC, Flat Panel, Thin Client	Panels and IPC with start of delivery from 2020 (WFP2.3)	Panels and IPC with start of delivery from 2020 (WFP2.3)
Note:	not suitable for multi-touch (glass front)	Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems	Surface-adhesive film, can be trimmed, printable, observe target device manual before attaching, limited suitability for resistive touch systems

Article number	6AV6881-7MJ13-2AA0	6AV6881-7UJ13-2AA0	6AV6881-7QJ13-2AA0	6AV6881-7VJ13-2AA0
	Protect. film 12" Front, type 6	Protect. film 19" Front, type 6	Protect. film 15" Front, type 6	Protect. film 22" Front, type 6
General information				
Product type designation	protective film 12" type 6	Protective film 19" type 6	protective film 15" type 6	Protective film 22" type 6
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased	Yes; only suitable under certain conditions due to different environmental conditions; replacement cycle can be increased
Ambient temperature during operation				
• min.	-40 °C	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C	80 °C
Relative humidity				
• Operation, max.	90 %	90 %	90 %	90 %
• Condensation permissible	No	No	No	No
Mechanics/material				
Material				
• plastic	Yes; Autoflex EB Antiglare	Yes; Autoflex EB Antiglare	Yes; Autoflex EB Antiglare	Yes; Autoflex EB Antiglare
Enclosure material (front)				
• Plastic	Yes; resistant to alcohols, diluted acids, diluted alkali, esters, hydrocarbons, ketones and household cleaners	Yes; resistant to alcohols, diluted acids, diluted alkali, esters, hydrocarbons, ketones and household cleaners	Yes; resistant to alcohols, diluted acids, diluted alkali, esters, hydrocarbons, ketones and household cleaners	Yes; resistant to alcohols, diluted acids, diluted alkali, esters, hydrocarbons, ketones and household cleaners

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Technical specifications (continued)

Article number	6AV6881-7MJ13-2AA0	6AV6881-7UJ13-2AA0	6AV6881-7QJ13-2AA0	6AV6881-7VJ13-2AA0
	Protect. film 12" Front, type 6	Protect. film 19" Front, type 6	Protect. film 15" Front, type 6	Protect. film 22" Front, type 6
Dimensions				
Width	311 mm	464 mm	397 mm	531 mm
Height	217 mm	288 mm	249 mm	326 mm
Thickness	0.2 mm	0.2 mm	0.2 mm	0.2 mm
Scope of supply				
Delivery quantity in pieces	10; Units per set	10; Units per set	10; Units per set	10; Units per set
Other				
printable with laser printer	No	No	No	No
Merchandise	Yes	Yes	Yes	Yes
Manufacturer name	Kolb-Siebdruck GmbH & Co. KG	Kolb-Siebdruck GmbH & Co. KG	Kolb-Siebdruck GmbH & Co. KG	Kolb-Siebdruck GmbH & Co. KG
Manufacturer's address	Espenstraße 5, 95632 Wunsiedel, Germany	Espenstraße 5, 95632 Wunsiedel, Germany	Espenstraße 5, 95632 Wunsiedel, Germany	Espenstraße 5, 95632 Wunsiedel, Germany
Note:	edge-adhesive, cannot be trimmed, for resistive touch systems or membrane fronts	edge-adhesive, cannot be trimmed, for resistive touch systems or membrane fronts	edge-adhesive, cannot be trimmed, for resistive touch systems or membrane fronts	edge-adhesive, cannot be trimmed, for resistive touch systems or membrane fronts

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Overview





INOX frame 12" and 15"

INOX frame

When using the INOX frame with protective film, areas are opened up where on the front an increased degree of protection up to IP69 is required.

INOX frames can be used when installing Unified Comfort Panels, Industrial Thin Clients, Industrial Flat Panels, and Industrial PCs.

Protective covers and dust caps

Protective covers

With a protective cover the complete panel front can be additionally protected. This gives IP65 degree of protection to the complete panel front.

Protective covers with IP65 degree of protection provide complete front protection of the panel and IPC against dirt and scratches.

If the protective cover is now attacked by corrosive substances, the actual front of the device remains unaffected. If it is damaged, the protective cover can easily be replaced at any time.

Self-adhesive protective films are available for simple display protection.

The protective covers can be kept clean using high-pressure cleaning equipment.

Ready-made templates can be downloaded to help you create and print out your own low-cost frame designs between panel and protective cover.

Unfortunately, no protective covers are available for the Basic and Comfort Panels, or the IPCs.

Overview (continued)

Dust caps

It is also possible to dustproof unused or rarely used interfaces on the back or underside of the device.

For this purpose we offer dust caps.

Selection and ordering data

INOX frame Can be used, for example, for Unified Comfort Panels, Industrial Thin Clients and Industrial Flat Panels. The Panel front is completely covered and protected. The degree of protection is raised to IP69 The set of protective films (antibacterial or standard) must be ordered separately. **Attention: not approved for hazardous and marine environments!** **INOX frames:**	
• 7" Type 1, without mounting frame	**6AV6881-0GH21-2AA0**
• 10" Type 1, without mounting frame	**6AV6881-0KH21-2AA0**
• 12" Type 1, without mounting frame	**6AV6881-0MH21-2AA0**
• 15" Type 1, without mounting frame	**6AV6881-0QH21-2AA0**
• 19" Type 1, without mounting frame	**6AV6881-0UH21-2AA0**
• 22" Type 1, without mounting frame	**6AV6881-0VH21-2AA0**
INOX frame sets INOX frame and required mounting frame in set. Only the protective film set (antibacterial or standard) must still be ordered separately. **Attention: not approved for hazardous and marine environments!**	
• 7" Type 1, with mounting frame	**6AV6881-0GH21-2BA0**
• 10" Type 1, with mounting frame	**6AV6881-0KH21-2BA0**
• 12" Type 1, with mounting frame	**6AV6881-0MH21-2BA0**
• 15" Type 1, with mounting frame	**6AV6881-0QH21-2BA0**
• 19" Type 1, with mounting frame	**6AV6881-0UH21-2BA0**
• 22" Type 1, with mounting frame	**6AV6881-0VH21-2BA0**
Protective covers for 6" touch devices for TP 070, TP 170micro, TP 177micro, TP 170A/B, TP 177A/B, TP 270 6", TP 277 6" MP 177 6" touch, MP 270 6" touch	**6AV6574-1AE00-4AX0**
Protective covers for OP 77 for OP77 and OP77B	**6AV6671-1AJ00-0AX0**
Protective covers for OP 177 for OP177B	**6AV6671-2DJ00-0AX0**
Protective covers for MP 277 8" touch devices Only suitable for MP 277 8" touch up to E14 [1] (for devices with a narrow frame geometry)	**6AV6671-3CK01-0AX0**
Protective covers for MP 277 10" touch devices Only suitable for MP 277 10" touch up to E14 [1] and 10" Thin Client up to E03 [2] (for devices with a narrow frame geometry)	**6AV6671-3CK00-0AX0**
Dust protection set for USB and RJ45 interfaces SIMATIC PC, dust protection set accessory, interfaces for Panels, Thin Clients and IPCs with suitable USB or RJ45 (LAN) interface	**6ES7648-1AA50-0XG0**

1) E14 = Product version 14
2) E03 = Product version 03

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Technical specifications

Article number	6AV6881-0MH21--2AA0	6AV6881-0GH21-2-AA0	6AV6881-0QH21-2-AA0	6AV6881-0UH21-2-AA0	6AV6881-0KH21-2-AA0	6AV6881-0VH21-2-AA0
	INOX frame 12", type 1, Unified	INOX frame 7", type 1, Unified	INOX frame 15", type 1, Unified	INOX frame 19", type 1, Unified	INOX frame 10", type 1, Unified	INOX frame 22", type 1, Unified
General information						
Product type designation	protective frame INOX	protective frame INOX	protective frame INOX	protective frame INOX	protective frame INOX	protective frame INOX
Display						
Suitable for screen diagonal	12.1 in	7 in	15.6 in	18.5 in	10.1 in	21.5 in
Installation type/mounting						
Mounting	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel
Mounting type	screw fixing	screw fixing	screw fixing	screw fixing	screw fixing	screw fixing
Mounting position	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device
Front mounting	Yes	Yes	Yes	Yes	Yes	Yes
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
Splashproof	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
responsibility with the manufacturer	Yes	Yes	Yes	Yes	Yes	Yes
CE mark	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation
UL approval	No	No	No	No	No	No
REACH	Yes	Yes	Yes	Yes	Yes	Yes
RoHS conformity	Yes	Yes	Yes	Yes	Yes	Yes
FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
Ambient temperature during operation						
• min.	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C
Relative humidity						
• Operation, max.	95 %	95 %	95 %	95 %	95 %	95 %
Mechanics/material						
Material	Matte	Matte	Matte	Matte	Matte	Matte
• Stainless steel	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300
Enclosure material (rear)	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Enclosure color (front)	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted
Screw type						
• Torx	Yes; T20	Yes; T20	Yes; T20	Yes; T20	Yes; T20	Yes; T20
Torques/forces						
• Tightening torque, min.	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed
• Tightening torque, max.	14 N·m	14 N·m	14 N·m	14 N·m	14 N·m	14 N·m

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Technical specifications (continued)

Article number	6AV6881-0MH21--2AA0	6AV6881-0GH21-2-AA0	6AV6881-0QH21-2-AA0	6AV6881-0UH21-2-AA0	6AV6881-0KH21-2-AA0	6AV6881-0VH21-2-AA0
	INOX frame 12", type 1, Unified	INOX frame 7", type 1, Unified	INOX frame 15", type 1, Unified	INOX frame 19", type 1, Unified	INOX frame 10", type 1, Unified	INOX frame 22", type 1, Unified
Dimensions						
Width	353.2 mm	241.2 mm	425.2 mm	491.2 mm	307.2 mm	556.2 mm
Height	264.2 mm	185.2 mm	284.2 mm	321.2 mm	232.2 mm	358.2 mm
Depth	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm
Scope of supply						
Delivery quantity in pieces	1; 1x protective frame INOX	1; 1x protective frame INOX	1; 1x protective frame INOX	1; 1x protective frame INOX	1; 1x protective frame INOX	1; 1x protective frame INOX
• Parts per unit	1; 1x protective frame INOX incl. screws and seals (mounting frame and protective films can be ordered separately)	1; 1x protective frame INOX incl. screws and seals (mounting frame and protective films can be ordered separately)	1; 1x protective frame INOX incl. screws and seals (mounting frame and protective films can be ordered separately)	1; 1x protective frame INOX incl. screws and seals (mounting frame and protective films can be ordered separately)	1; 1x protective frame INOX incl. screws and seals (mounting frame and protective films can be ordered separately)	1; 1x protective frame INOX incl. screws and seals (mounting frame and protective films can be ordered separately)
Other						
Merchandise	Yes; INOX frame	Yes; INOX frame	Yes; INOX frame	Yes; INOX frame	Yes; INOX frame	Yes; INOX frame
Manufacturer name	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG
Manufacturer's address	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de
Target devices	Unified Comfort Panels, Industrial Thin Clients, Industrial Flat Panels and Industrial Pcs with suitable dimensions	Unified Comfort Panels, Industrial Thin Clients, Industrial Flat Panels and Industrial Pcs with suitable dimensions	Unified Comfort Panels, Industrial Thin Clients, Industrial Flat Panels and Industrial Pcs with suitable dimensions	Unified Comfort Panels, Industrial Thin Clients, Industrial Flat Panels and Industrial Pcs with suitable dimensions	Unified Comfort Panels, Industrial Thin Clients, Industrial Flat Panels and Industrial Pcs with suitable dimensions	Unified Comfort Panels, Industrial Thin Clients, Industrial Flat Panels and Industrial Pcs with suitable dimensions
Note:	Not released for hazardous areas and marine applications!	Not released for hazardous areas and marine applications!	Not released for hazardous areas and marine applications!	Not released for hazardous areas and marine applications!	Not released for hazardous areas and marine applications!	Not released for hazardous areas and marine applications!

Article number	6AV6881-0VH21-2-BA0	6AV6881-0KH21-2-BA0	6AV6881-0QH21-2-BA0	6AV6881-0GH21-2-BA0	6AV6881-0MH21--2BA0	6AV6881-0UH21-2-BA0
	INOX frame 22", type 1, SET	INOX frame 10", type 1, SET	INOX frame 15", type 1, SET	INOX frame 7", type 1, SET	INOX frame 12", type 1, SET	INOX frame 19", type 1, SET
General information						
Product type designation	protective frame INOX SET	protective frame INOX SET	protective frame INOX SET	protective frame INOX SET	protective frame INOX SET	protective frame INOX SET
Display						
Suitable for screen diagonal	21.5 in	10.1 in	15.6 in	7 in	12.1 in	18.5 in
Installation type/mounting						
Mounting	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel	for mounting in a built-in widescreen Panel
Mounting type	screw fixing	screw fixing	screw fixing	screw fixing	screw fixing	screw fixing
Mounting position	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device
Front mounting	Yes	Yes	Yes	Yes	Yes	Yes
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
Splashproof	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV6881-0VH21-2-BA0	6AV6881-0KH21-2-BA0	6AV6881-0QH21-2-BA0	6AV6881-0GH21-2-BA0	6AV6881-0MH21--2BA0	6AV6881-0UH21-2-BA0
	INOX frame 22", type 1, SET	INOX frame 10", type 1, SET	INOX frame 15", type 1, SET	INOX frame 7", type 1, SET	INOX frame 12", type 1, SET	INOX frame 19", type 1, SET
Standards, approvals, certificates						
responsibility with the manufacturer	Yes	Yes	Yes	Yes	Yes	Yes
CE mark	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation	No; No CE marking obligation
UL approval	No	No	No	No	No	No
REACH	Yes	Yes	Yes	Yes	Yes	Yes
RoHS conformity	Yes	Yes	Yes	Yes	Yes	Yes
FDA-compliant	Yes; gaskets are FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant	gaskets are FDA-compliant	Yes; gaskets are FDA-compliant
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
Ambient temperature during operation						
• min.	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C
Relative humidity						
• Operation, max.	95 %	95 %	95 %	95 %	95 %	95 %
Accessories						
Function description	contains further article numbers	contains further article numbers	contains further article numbers	contains further article numbers	contains further article numbers	contains further article numbers
Mechanics/material						
Material	Matte	Matte	Matte	Matte	Matte	Matte
• Sheet metal	Yes; powder-coated mounting frame	Yes; powder-coated mounting frame	Yes; powder-coated mounting frame	Yes; powder-coated mounting frame	Yes; powder-coated mounting frame	Yes; powder-coated mounting frame
• Stainless steel	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300	Yes; V2A 1.4300
Enclosure material (rear)	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Enclosure color (front)	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted	matte, ceramic-blasted
Screw type						
• Torx	Yes; T20	Yes; T20	Yes; T20	Yes; T20	Yes; T20	Yes; T20
Torques/forces						
• Tightening torque, min.	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed	12 N·m; If there is not enough torque, the degree of protection on the front may not be guaranteed
• Tightening torque, max.	14 N·m	14 N·m	14 N·m	14 N·m	14 N·m	14 N·m
Dimensions						
Width	556.2 mm	307.5 mm	425.2 mm	241.2 mm	353.2 mm	491.2 mm
Height	358.2 mm	232.2 mm	284.2 mm	185.2 mm	264.2 mm	321.2 mm
Depth	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm

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Technical specifications (continued)

Article number	6AV6881-0VH21-2-BA0	6AV6881-0KH21-2-BA0	6AV6881-0QH21-2-BA0	6AV6881-0GH21-2-BA0	6AV6881-0MH21--2BA0	6AV6881-0UH21-2-BA0
	INOX frame 22", type 1, SET	INOX frame 10", type 1, SET	INOX frame 15", type 1, SET	INOX frame 7", type 1, SET	INOX frame 12", type 1, SET	INOX frame 19", type 1, SET
Scope of supply						
Delivery quantity in pieces	1; 1 set contains a stainless steel front frame and a mounting frame for IP69 mounting. The required protective film, standard or antibacterial, must be ordered separately and is not included in the scope of delivery.	1; 1 set contains a stainless steel front frame and a mounting frame for IP69 mounting. The required protective film, standard or antibacterial, must be ordered separately and is not included in the scope of delivery.	1; 1 set contains a stainless steel front frame and a mounting frame for IP69 mounting. The required protective film, standard or antibacterial, must be ordered separately and is not included in the scope of delivery.	1; 1 set contains a stainless steel front frame and a mounting frame for IP69 mounting. The required protective film, standard or antibacterial, must be ordered separately and is not included in the scope of delivery.	1; 1 set contains a stainless steel front frame and a mounting frame for IP69 mounting. The required protective film, standard or antibacterial, must be ordered separately and is not included in the scope of delivery.	1; 1 set contains a stainless steel front frame and a mounting frame for IP69 mounting. The required protective film, standard or antibacterial, must be ordered separately and is not included in the scope of delivery.
• Parts per unit	1x protective frame INOX including screws, 1x mounting frame	1x protective frame INOX including screws, 1x mounting frame	1x protective frame INOX including screws, 1x mounting frame	1x protective frame INOX including screws, 1x mounting frame	1x protective frame INOX including screws, 1x mounting frame	1x protective frame INOX including screws, 1x mounting frame
Components included	complete MLFB (set) contains other article numbers	complete MLFB (set) contains other article numbers	complete MLFB (set) contains other article numbers	complete MLFB (set) contains other article numbers	complete MLFB (set) contains other article numbers	complete MLFB (set) contains other article numbers
Other						
Merchandise	Yes; INOX front frame panel	Yes; INOX front frame panel	Yes; INOX front frame panel	Yes; INOX front frame panel	Yes; INOX front frame panel	Yes; INOX front frame panel
Manufacturer name	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG	QUERUM products UG
Manufacturer's address	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany	Wirtsstr. 23, 85110 Kipfenberg-Böhming, Germany
contacting the manufacturer	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de	email: querumproducts@-web.de
Target devices	Unified Panels and IPC with suitable dimensions	Unified Panels and IPC with suitable dimensions	Unified Panels and IPC with suitable dimensions	Unified Panels and IPC with suitable dimensions	Unified Panels and IPC with suitable dimensions	Unified Panels and IPC with suitable dimensions
Note:	not released for hazardous areas and marine applications! increase of the degree of protection only when using the clamping frame	not released for hazardous areas and marine applications! increase of the degree of protection only when using the clamping frame	not released for hazardous areas and marine applications! increase of the degree of protection only when using the clamping frame	not released for hazardous areas and marine applications! increase of the degree of protection only when using the clamping frame	not released for hazardous areas and marine applications! increase of the degree of protection only when using the clamping frame	not released for hazardous areas and marine applications! increase of the degree of protection only when using the clamping frame

Article number	6AV6574-1AE00-4-AX0	6AV6671-1AJ00-0-AX0	6AV6671-2DJ00-0-AX0	6AV6671-3CK01-0-AX0	6AV6671-3CK00-0-AX0	6ES7648-1AA50-0-XG0
	Protective Cover 6" Touch Devices	Protective Cover OP 77	Protective Cover OP 177	Protective Cover MP 277-8" Touch	Protective Cover MP 277 10" Touch	Dust protection set interfaces
General information						
Product type designation	Protective cover 6" touch devices	Protective cover	Protective cover	Protective cover MP277 8" touch	Protective cover MP277 10" touch	Dust protection set interfaces
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	
Mounting in landscape format possible	Yes	Yes	Yes	Yes	Yes	
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	

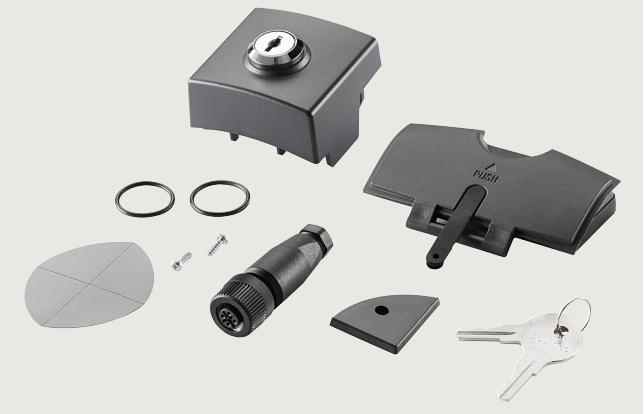
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Technical specifications (continued)

Article number	6AV6574-1AE00-4-AX0	6AV6671-1AJ00-0-AX0	6AV6671-2DJ00-0-AX0	6AV6671-3CK01-0-AX0	6AV6671-3CK00-0-AX0	6ES7648-1AA50-0-XG0
	Protective Cover 6" Touch Devices	Protective Cover OP 77	Protective Cover OP 177	Protective Cover MP 277-8" Touch	Protective Cover MP 277 10" Touch	Dust protection set interfaces
Ambient conditions						
Ambient temperature during operation						
• min.	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C	
• max.	80 °C	80 °C	80 °C	80 °C	80 °C	
Relative humidity						
• Operation, max.	95 %	95 %	95 %	95 %	95 %	
Mechanics/material						
Material						
• plastic	Yes	Yes	Yes	Yes	Yes	
Dimensions						
Width	242.3 mm	178.6 mm	274.3 mm	270.8 mm	355.8 mm	
Height	186.3 mm	214.6 mm	243.26 mm	211 mm	294 mm	
Thickness	10 mm	7.8 mm	7.8 mm	7.8 mm	7.8 mm	
Mounting cutout, width	198 mm	135 mm	229 mm	226 mm	310 mm	
Mounting cutout, height	142 mm	171 mm	196 mm	166 mm	248 mm	
Weights						
Weight (without packaging)	750 g	750 g	750 g	750 g	750 g	
Scope of supply						
Delivery quantity in pieces						
• Parts per unit	2; 2 cover frames, 2 base frames, 2 protective covers, molded (for TP070, TP170micro, TP170A/B), 2 protective covers, smooth (for TP177micro, TP177A/B, TP270 6", MP177 6" touch, MP270 6" touch)	2; 2 cover frames, 2 base frames, 2 protective covers	2; 2 cover frames, 2 base frames, 2 protective covers	2; 2 cover frames, 2 base frames, 2 protective covers	2; 2 cover frames, 2 base frames, 2 protective covers	
Other						
Merchandise	No	No	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For TP070, TP170A, TP170B, TP170micro, TP177micro, TP177A, TP177B, TP270 6 ", TP277 6 ", MP270 6" touch	for OP 77A, OP 77B	For OP177B	For MP277 8" touch as far as product version "ES 14" with narrow frame	For MP277 10" touch up to product version "ES 14 ", Thin Client 10" up to "ES 03" (6AV6646-0AA21-2-AX0) with narrow frame	

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Overview



Service sets

A service set contains all the typical parts that are required for a core product.

If several identical parts are required, e.g. mounting clips, it makes more sense to order these separately.

Detailed information and quantities can be obtained from the relevant technical specifications. The number and contents are optimized in terms of functionality and cost. For this reason, accessories can only be obtained in the specified pack sizes.

Selection and ordering data

Service sets **For contents and matching devices, see Technical specifications in the Mall**	
For 6" devices, type 1 Service set for TP 070, TP 170A/B, OP 170B, TP 170micro, OP 270, TP 270B, MP 270B touch	**6AV6574-1AA00-4AX0**
For 6" devices, type 2 Service set for TP 070, TP 170A/B, OP 170B, TP 170micro, TP/OP 270 6", MP 270B 6" touch	**6AV2181-8XA80-0AX0**
For 6" devices, type 3 Service set for TP 177micro, TP 177A/B, OP 177B	**6AV6671-2XA00-0AX0**
For 6" to 10" devices Service set for TP/OP 277 6", MP 277 8" touch, MP 277 8" key, MP 277 10" key and MP 277 10" touch devices up to product version "ES 14"	**6AV6671-3XA01-0AX0**
For 8" to 10" devices Service set for MP 277 8" touch and key devices from product version "ES 15", MP 277 10" touch devices from product version "ES 15"	**6AV6671-3XA01-0AX1**
For 10", type 1 Service set for OP 270 10", MP 270B key devices	**6AV6574-1AA00-2DX0**
For 10" to 15" devices Service set for C7-636 touch, TP 270 10", MP 270B 10" touch, MP 370 12"/15" touch devices	**6AV6574-1AA00-2CX0**
For 12" devices Service set suitable for MP 370 12"/15" touch/key devices and TP37	**6AV6574-1AA00-2BX0**
For 12" to 19" devices Service set for MP 377 12" touch and key devices, MP 377 15" touch, MP 377 19" touch devices	**6AV6671-4XA00-0AX0**
For Mobile Panel 177/277	**6AV6574-1AA04-4AA0**
For Mobile Panel 277(F) IWLAN V1	**6AV6671-5CA00-0AX1**
For Mobile Panel 277(F) IWLAN V2	**6AV6671-5CA00-0AX2**
For Industrial USB Hub 4	**6AV6671-3EA01-0AX0**
For Pushbutton Panels Service set for PP7, PP17I, PP17 II, PP17 mounting gasket, 5x mounting clamps, 2-pin 24 V DC plug, 3-pin 24 V DC plug, 4-pin plug, 16-pin plug	**6AV3678-3XC30**
For TD17, OP7/17 Service set for OP7/OP17 and TD17; TD17 mounting gasket, OP7 mounting gasket, OP17 mounting gasket 5x mounting clamps	**6AV3678-1CC10**
For OP73 micro, OP73, OP77 Service set for OP73micro, OP 73, OP 77A, OP 77B	**6AV6671-1XA00-0AX0**
KTP Mobile covers Cable clamp, USB cover	**6AV6881-5AA00-0AA1**
KTP Mobile protective caps Screws	**6AV6881-0VJ20-0AA0**
KTP Mobile screw set M3x10 M3x10 screws	**6AV6881-0AG11-0AA0**

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Technical specifications

Article number	6AV6574-1AA00-4AX0	6AV2181-8XA80-0AX0	6AV6671-2XA00-0AX0	6AV6671-3XA01-0AX0	6AV6671-3XA01-0AX1
	Service set for 6" devices, type 1	Service set for 6" devices, type 2	Service set for 6" devices, type 3	Service set for 6" to 10" devices	Service set for 8" to 10" devices
General information					
Product type designation			Service set	Service set 6" ... 10"	Service set 8" ... 10"
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
RoHS conformity		Yes			Yes
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C	55 °C
Relative humidity					
• Operation, max.	95 %	95 %	95 %	95 %	95 %
Scope of supply					
Delivery quantity in pieces					
• Parts per unit	1; Content: 3x mounting seal, 2x labeling strip, 7x plastic mounting clip, 1x 2-pin female connector	1; Content: 3x mounting seal, 2x labeling strip, 7x plastic mounting clip, 20x aluminum mounting clip, 1x 2-pin female connector	1; Content: 1x mounting seal TP 177, 1x mounting seal OP 177, 7x plastic mounting clip, 1x 2-pin female connector	1; Content: 6x device-specific seals, 15x aluminum mounting clips, 1x 2-pin female connector, 1x product information clamp	1; Content: 14x spring mounting clip, 1x 2-pin female connector
Other					
Merchandise	No	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For TP070, TP170A/B, OP170B, TP170micro, OP270 6", TP270 6", MP270B 6" touch	For TP070, TP170A/B, OP170B, TP170micro, OP/TP270 6", MP177 6"T, MP270B 6" touch	for TP 177micro, TP 177A, TP 177B, OP 177B	For TP/OP277 6", MP277 8" touch, MP277 8" key, MP277 10" key product version "ES 14" and later, MP277 10" touch product version "ES 14" and later	For MP277 8" touch, MP277 8" key product version "ES 15" and later, MP277 10" touch product version "ES 15" and later

Article number	6AV6574-1AA00-2DX0	6AV6574-1AA00-2CX0	6AV6574-1AA00-2BX0
	Service set for 10" devices, type 1	Service set for 10" to 15" devices	Service set for 12" devices
General information			
Product type designation			Service set, 12" ... 15"
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
Ambient conditions			
Ambient temperature during operation			
• min.			0 °C
• max.			55 °C
Relative humidity			
• Operation, max.	95 %	95 %	95 %
Mechanics/material			
Screw type			
• Hexagon socket			Yes; 2.5 mm

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Technical specifications (continued)

Article number	6AV6574-1AA00-2DX0 Service set for 10" devices, type 1	6AV6574-1AA00-2CX0 Service set for 10" to 15" devices	6AV6574-1AA00-2BX0 Service set for 12" devices
Scope of supply			
Delivery quantity in pieces			
• Parts per unit	1; Content: 1x slide-in label strip for OP270 10" and MP270 10" key, 1x installation seal for OP270 10" and MP270 10" key, 10x cast aluminum mounting clips, 1x 2-pin female connector, 1x Allen key	1; Content: 10x aluminum mounting clips, 1x 2-pin female connector, 1x CF card interlock, 1x PC card interlock, 1x installation seal, C7-636, TP/MP270(B), MP370-12"T, 1x installation seal for MP370-15"T, all other panels have a non-replaceable foam seal	1; Content: 1x mounting gasket sold by the meter, 2x memory card lock wide, 2x memory card lock narrow, 10x mounting clip cast aluminum, 6x mounting bracket, 1x female connector 2-pole 90 degrees, 1x female connector 2-pole 180 degrees, 2x Allen key and labeling strips for Key Panel
Other			
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	for OP270 10", MP270B key	For C7-636 touch, TP270 10", MP270B 10" touch, MP370 12" touch, MP370 15" touch	For MP370 12" ... 15" Touch/Key and TP37

Article number	6AV6671-4XA00-0AX0 Service set for 12" to 19" devices
General information	
Product type designation	Service set 12" ... 19"
Standards, approvals, certificates	
CE mark	Yes
RoHS conformity	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Relative humidity	
• Operation, max.	95 %
Mechanics/material	
Screw type	
• 4.5 V	Yes
Scope of supply	
Delivery quantity in pieces	
• Parts per unit	1; Content: 1x mounting seal MP377 12" key, 1x mounting seal MP377 12" touch, 1x mounting seal MP377 15" touch, 1x mounting seal MP377 19" touch, 18x aluminum mounting clip, 1x 2-pin female connector
Other	
Merchandise	No
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For MP377 12" key, MP377 12" touch, MP377 15" touch, MP377 19" touch

Article number	6AV6574-1AA04-4AA0 Service set Mobile Panel	6AV6671-5CA00-0AX1 Service set Mobile Panel Wireless V1	6AV6671-5CA00-0AX2 Service set Mobile Panel Wireless V2
General information			
Product type designation		Service set Mobile Panel 277 (F) IWLAN V1	Service set Mobile Panel 277 (F) IWLAN V2
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV6574-1AA04-4AA0 Service set Mobile Panel	6AV6671-5CA00-0AX1 Service set Mobile Panel Wireless V1	6AV6671-5CA00-0AX2 Service set Mobile Panel Wireless V2
Ambient conditions			
Ambient temperature during operation			
• min.		0 °C	0 °C
• max.		55 °C	55 °C
Relative humidity			
• Operation, max.	95 %	95 %	95 %
Scope of supply			
Delivery quantity in pieces			
• Parts per unit	1; Content: 1x blanking plug, 2x PG cable gland A-box, 1x screw set cover A-box, 2x 12-pin terminal box, 1x 3-pin terminal box, 1x dummy cap A-box, 2x corner seal l/r and O-ring, 4x decorative film corner seal l/r	1; Content: 2x covers for charging station l/r, 1x connector for charging station, 2x corner seals l/r, 2x gasket corner seals, 4x decorative film corner seals l/r, 1x backup battery 3.6 V / 1.5 Ah including cover, 1x spare key for charging cradle	1; Content: 1x battery slot cover device with seal, 2x cover charging station l/r, 1x circular connector charging station, 2x corner seal l/r, 2x O-ring seal, 4x decorative foil, 1x charging tray spare key incl. lock and lock holder, screws
Other			
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For Mobile Panel 170, Mobile Panel 177	for Mobile Panel 277 IWLAN V1, Mobile Panel 277F IWLAN V1	for Mobile Panel 277 IWLAN V2, Mobile Panel 277F IWLAN V2

Article number	6AV6671-3EA01-0AX0 Service set Industrial USB Hub 4	6AV3678-3XC30 Service Package F: PP7, PP17 I, PP17 II	6AV3678-1CC10 Service Package f.OP7/17 and TD17	6AV6671-1XA00-0AX0 OP73Micro, OP73, OP77 Service Set
General information				
Product type designation	Service set	Service pack	Service pack	Service set
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
RoHS conformity	Yes			
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Relative humidity				
• Operation, max.	95 %	95 %	95 %	95 %
Scope of supply				
Delivery quantity in pieces				
• Parts per unit	1; Content: 1x mounting seal, 1x mounting frame, 5x plastic mounting clip, 1x 2-pin female connector	1; Content: 1x mounting seal PP7, 1x mounting seal PP17, 5x plastic mounting clip, 1x 2-pin female connector, 1x 3-pin female connector, 1x 4-pin female connector, 2x 16-pin female connector	1; Content: 1x mounting seal TD17, 1x mounting seal OP7, 1x mounting seal TD/OP17, 5x plastic mounting clip	1; Content: 1x mounting seal OP73, 1x mounting seal OP77, 4x plastic mounting clip, 1x 2-pin female connector
Other				
Merchandise	Yes			
Manufacturer name	SIEMENS AG			
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany			
Target devices	For the Industrial USB Hub 4			
Note:		for PP7, PP17-I, PP17-II	for TD17, OP7, OP17	for OP73micro, OP73, OP77A, OP77B

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Technical specifications (continued)

Article number	6AV6881-5AA00-0AA1 Service set KTP Mobile covers	6AV6881-0AG11-0AA0 Service set KTP Mobile screws M3
General information		
Product type designation	Mobile Panel Cover Set without M3	Mobile Panel M3 screw
Standards, approvals, certificates		
CE mark	No; No CE marking obligation	No; No CE marking obligation
RoHS conformity	Yes; unnecessary	Yes; unnecessary
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	No; possible under certain conditions	No; possible under certain conditions
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	55 °C	55 °C
Relative humidity		
• Operation, max.	95 %	95 %
Mechanics/material		
Material		general requirement according to DIN ISO 8992
• plastic	Yes; Misc. parts	
• Sheet metal	Yes; Miscellaneous screws	
Screw type		
• Cross-tip	Yes; Cross-tip including slot	Yes; Cross-tip including slot
Dimensions		
Height		12 mm; Overall
Depth		10 mm; Up to underside of screw head
Thickness		11 mm; Screw head
Weights		
Weight (without packaging)	40 g	2.2 g
Scope of supply		
Delivery quantity in pieces	1; 5x plastic cable clamps, 5x USB covers	5; Combination cross-tip collar screw (M3x10)
Components included	5x plastic cable clamps, 5x USB covers	Screws for attachment
Other		
Merchandise	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	Wired Mobile Panel (PROFIBUS and PROFINET)	Wired Mobile Panel (PROFIBUS and PROFINET)
Note:	Observe documentation of the target device	Observe documentation of the target device

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Overview



Memory media

Memory media which has been tested and approved by Siemens ensure the best possible functionality and compatibility.

SIMATIC HMI memory media are suitable for industry and optimized for the requirements in industrial environments. Special formatting and write algorithms ensure fast read/write cycles and a long service life of the memory cells.

Multi Media Cards can also be used in operator panels with SD slots. Detailed information on usability can be found in the memory media and panels technical specifications.

The actual memory capacity of the memory cards or USB flash drives may change depending on production factors. This means that the specified memory capacity may not always be 100% available to the user. When selecting or searching for core products using the SIMATIC selection guide, accessories appropriate to the core product are always automatically displayed or offered.

Due to the nature of the technology used, the reading/writing speed can diminish over time. This is always dependent on the environment, the size of the files saved, the extent to which the card is filled and a number of additional factors. SIMATIC memory cards, however, are always designed so that typically all of the data is reliably written to a card even when the device is being switched off. More information can be taken from the operating instructions of the respective devices.

The following memory media are available:

- MM memory card (Multi Media Card)
- Secure Digital Memory Card
- SD memory card Outdoor
- PC memory card (PC Card)
- PC memory card adapter (PC Card Adapter)
- CF memory card (CompactFlash Card)
- CFast memory card
- SIMATIC HMI USB memory stick
- SIMATIC HMI USB FlashDrive
- Pushbutton Panel memory module
- IPC memory expansions

Note:

SIMATIC S7 Memory Cards from S7 controllers **may not** be used in operator panels or PC systems.
If used in this way, the memory cards lose their functionality and can then no longer be used with S7 controllers.

SIMATIC HMI system cards **must not be formatted** because this irrevocably deletes system files, and **they can then no longer be used for their usual functions,** or may even become totally worthless.

Cyclic archiving may place very high stress on the memory and could lead to failure. In this case, it is necessary to calculate the write cycles in respect of the frequency and size of the data volume in advance. Network drives are more suitable for archiving larger data volumes at short to very short intervals.
In cases of doubt, please clarify with your Siemens contact person. Failure to comply rules out any repair or replacement.

Selection and ordering data

Memory cards [1]	
Indoor use only	
SIMATIC MM memory card 128 MB	6AV6671-1CB00-0AX2
SIMATIC SD memory card 512 MB	6AV6671-8XB10-0AX1
SIMATIC SD memory card 2 GB	6AV2181-8XP00-0AX0
SIMATIC SD memory card 32 GB [2]	6AV6881-0AP40-0AA0
SIMATIC CF memory card 512 MB	6AV6574-2AC00-2AA1
PC memory card, 512 MB (PCMCIA)	6AV6574-2AC00-2AF1
PC card adapter for CF memory card	6AV6574-2AF00-8AX0
Can be used indoors and outdoors	
SIMATIC SD memory card, outdoor 2 GB	6AV6881-0AQ10-0AA0
SIMATIC SD memory card, outdoor 32 GB	6AV6881-0AQ40-0AA0
USB flash drive [3] 32 GB, USB 3.0, metal enclosure, boot capability, without software, for current and new SIMATIC HMI Panels and IPCs.	6AV6881-0AS42-0AA1
SIMATIC IPC CFast	
• 2 GB	6ES7648-2BF10-0XF0
• 4 GB	6ES7648-2BF10-0XG0
• 8 GB	6ES7648-2BF10-0XH0
• 16 GB	6ES7648-2BF10-0XJ0
• 30 GB	6ES7648-2BF10-0XK1
• 128 GB	6ES7648-2BF10-0XM1

1) Not all memory is compatible with every target device. Please observe the current technical specifications of the memory. For compatibility and innovations, see SIMATIC Support pages, search term "Status Accessories" or entry "40466415"
2) For compatibility and innovations, see SIMATIC Support pages, entry 109759104
3) Note: This memory stick does not support Classic Panels such as TPs, OPs, and Multi Panels.
The following software in SIOS is available for download for IPC systems. SIMATIC IPC Image & Partition Creator V3.3.2 and SIMATIC IPC BIOS Manager V3.3 (Win PE) preinstalled, incl. CD.

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Technical specifications

Article number	6AV6671-1CB00-0AX2 SIMATIC MM memory card 128 MB	6AV6671-8XB10-0AX1 SIMATIC SD memory card 512 MB	6AV2181-8XP00-0AX0 SIMATIC SD memory card 2 GB	6AV6881-0AP40-0AA0 SIMATIC SD indoor card 32 GB
General information				
Product type designation	MM memory card	SD memory card	SD memory card	SD memory card
Control elements				
Frame size/design				
• Standard	Yes; Typically 10 000 insertion cycles	Yes; Typically 10 000 insertion cycles	Yes; Typically 10 000 insertion cycles	Yes; Typically 10 000 insertion cycles
• Flat	Yes	Yes	Yes	Yes
Installation type/mounting				
Mounting position	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	3.3 V; Max 3.6 V	3.3 V; Max 3.6 V	3.3 V; Max 3.6 V	3.3 V; Max 3.6 V
Storage				
Type of memory	MultiMediaCard	Secure Digital memory card	Secure Digital memory card	Secure Digital memory card
Memory size	128 Mbyte	512 Mbyte	2 Gbyte	32 Gbyte
Transmission rate for reading, max.	0 kbit/s; No value available	1.6 Mbit/s; Minimum, typical for newly formatted memory	600 Mbit/s; Typical	600 Mbit/s; Typical
Transmission rate for writing, max.	300 kbit/s; Minimum, typical for newly formatted memory	1.6 Mbit/s; Minimum, typical for newly formatted memory	600 Mbit/s; Typical	600 Mbit/s; Typical
Wear leveling (distributed writing)	Yes; > 100 000 write/read cycles per cell and > 3 000 000 write/read cycles per card	Yes; > 100 000 write/read cycles per cell and > 3 000 000 write/read cycles per card	Yes	Yes
Write protection switch	No	Yes; Effectiveness depends on the device	Yes; Effectiveness depends on the device	Yes; Effectiveness depends on the device
Interfaces				
Device-side interface				
• Number of pins device-side	7	9	9	9

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Technical specifications (continued)

Article number	6AV6671-1CB00-0AX2 SIMATIC MM memory card 128 MB	6AV6671-8XB10-0AX1 SIMATIC SD memory card 512 MB	6AV2181-8XP00-0AX0 SIMATIC SD memory card 2 GB	6AV6881-0AP40-0AA0 SIMATIC SD indoor card 32 GB
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes
UL approval		Yes	Yes	Yes
cULus		Yes	Yes	Yes
KC approval		Yes	Yes	Yes
EAC (formerly Gost-R)		Yes	Yes	Yes
RoHS conformity		Yes	Yes	Yes
China RoHS compliance		Yes	Yes	Yes
Marine approval	Yes; Passive component, therefore dependent on target device	Yes; Passive component, therefore dependent on target device	Yes; Passive component, therefore dependent on target device	Yes; Passive component, therefore dependent on target device
Use in hazardous areas				
• ATEX Zone 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• ATEX Zone 22	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• IECEx Zone 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• IECEx Zone 22	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• cULus Class I Zone 2, Division 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• FM Class I Division 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
Marine approval				
• Germanischer Lloyd (GL)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• American Bureau of Shipping (ABS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Bureau Veritas (BV)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Det Norske Veritas (DNV)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Lloyds Register of Shipping (LRS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Nippon Kaiji Kyokai (Class NK)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Polski Rejestr Statkow (PRS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Chinese Classification Society (CCS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Compass working clearance	5 m	5 m	5 m	5 m

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Technical specifications (continued)

Article number	6AV6671-1CB00-0AX2 SIMATIC MM memory card 128 MB	6AV6671-8XB10-0AX1 SIMATIC SD memory card 512 MB	6AV2181-8XP00-0AX0 SIMATIC SD memory card 2 GB	6AV6881-0AP40-0AA0 SIMATIC SD indoor card 32 GB
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use		No	No	No
Ambient temperature during operation				
• min.	0 °C; Indoor	0 °C; Indoor	0 °C	0 °C
• max.	50 °C; Indoor	50 °C; Indoor	55 °C	55 °C
Relative humidity				
• Operation, max.	90 %	90 %	95 %	95 %; no condensation
• Condensation permissible	No; Condensation not permissible	No; Condensation not permissible	No; Condensation not permissible	No; Condensation not permissible
Operating systems				
pre-installed operating system				
• Windows CE			No; Preinstalled system files	No; Preinstalled system files
Runs under operating system				
• Windows CE	Yes	Yes	Yes	Yes
• Windows Vista	Yes	Yes	Yes	Yes
• Windows XP	Yes	Yes	Yes	Yes
• Windows 7	Yes	Yes	Yes	Yes
• Windows 8	Yes	Yes	Yes	Yes
• Windows 10	Yes	Yes	Yes	Yes
• Linux	No	No	Yes	Yes
• other	Yes; Card must not be formatted!	Yes; Card must not be formatted!	Yes; Card must not be formatted!	Yes; Card must not be formatted!
Mechanics/material				
Enclosure material (front)				
• plastic	Yes; Gold contacts	Yes; Gold contacts	Yes; Gold contacts	Yes; Gold contacts
Enclosure color (front)	RAL 6034 (color deviation possible)	RAL 6034 (color deviation possible)	RAL 6034 (color deviation possible)	RAL 6034 (color deviation possible)
Service life				
• Number of operating cycles, keys	10; Min. data storage without loss (in years)	10; Min. data storage without loss (in years)	10; min. data storage without loss of data (in years) with new card	10; min. data storage without loss of data (in years) with new card
Dimensions				
Width	24 mm	24 mm	24 mm	24 mm
Height	32 mm	32 mm	32 mm	32 mm
Thickness	2.1 mm	2.1 mm	2.1 mm	2.1 mm
Weights				
Weight (without packaging)	3 g	3 g	3 g	3 g
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Other				
Merchandise	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	for OP77B, TP177B, OP177B, TP277, OP277, C7-635, MP177, MP277, MP377, Mobile Panel 177, Mobile Panel 277, Comfort Panel	for MP177, MP277, MP377 and Mobile Panel 277, WinCC flexible 2008 SP1 and higher for OP77, TP/OP177, TP/OP277, Mobile Panel 177, with SD/MMC slot	Especially for KTP Mobile Panels 2nd Generation, MP377 and Comfort Panels, but also for all other panels (other than Classic Panels) and PCs with suitable slot	Storage medium especially for indoor areas, suitable for Panels as of TIA V16 (observe manual for target panel) but also for PCs with a suitable slot. Formatting destroys the system properties of the card
Note:		MP377 only up to and including FS:04 or ES:04 - Alternatively 2 GB SD card	Not suitable for MP177, MP277, Mobile Panel 277, OP77, TP/OP177, TP/OP277 and Mobile Panel 177	can only be used with TIA V16 or higher, panel firmware must be upgraded if necessary (cannot be used in Classic Panels)

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Technical specifications (continued)

Article number	6AV6574-2AC00-2AA1 SIMATIC HMI CF memory card, 512 MB	6AV6574-2AC00-2AF1 PC memory card 512 MB	6AV6574-2AF00-8AX0 PC card adapter for CF memory card
General information			
Product type designation	CompactFlash card	PC memory card	PC card adapter
Control elements			
Connection type			
• USB		No	
Frame size/design			
• Standard	Yes	Yes	Yes
• Flat	Yes	Yes	Yes
Installation type/mounting			
Mounting position	Any, dependent on target device	Any, dependent on target device	Any, dependent on target device
Mounting in portrait format possible	Yes	Yes	Yes
Mounting in landscape format possible	Yes	Yes	Yes
Supply voltage			
Rated value (DC)	3.3 V; Selectable power supply: 3.3 V ±10% or 5.0 V ±10%	3.3 V	
Storage			
Type of memory	CompactFlash memory CF type I	Personal computer memory card type II	Personal computer memory card type II
Design	CompactFlash		
Memory size	512 Mbyte	512 Mbyte	0 byte; Only adapter
SLC flash write cycles	2; Millions, consumer quality		
Write protection switch	No	No	No
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
UKCA mark	Yes		Yes
UL approval	No		No
cULus	No		No
KC approval	No		No
EAC (formerly Gost-R)	No		No
RoHS conformity	Yes	Yes	Yes
China RoHS compliance	Yes	Yes	Yes
Marine approval	Yes; Passive component, therefore dependent on target device		Yes; Passive component, therefore dependent on target device
Use in hazardous areas			
• ATEX Zone 2	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• ATEX Zone 22	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• IECEx Zone 2	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• IECEx Zone 22	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• cULus Class I Zone 2, Division 2	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• FM Class I Division 2	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
Marine approval			
• Germanischer Lloyd (GL)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• American Bureau of Shipping (ABS)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.

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Technical specifications (continued)

Article number	6AV6574-2AC00-2AA1 SIMATIC HMI CF memory card, 512 MB	6AV6574-2AC00-2AF1 PC memory card 512 MB	6AV6574-2AF00-8AX0 PC card adapter for CF memory card
• Bureau Veritas (BV)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• Det Norske Veritas (DNV)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• Lloyds Register of Shipping (LRS)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• Nippon Kaiji Kyokai (Class NK)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• Polski Rejestr Statkow (PRS)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• Chinese Classification Society (CCS)	Yes; Always comply with the operating instructions of the target device.		Yes; Always comply with the operating instructions of the target device.
• Compass working clearance	5 m		5 m
Ambient conditions			
Suited for indoor use	Yes		Yes
Ambient temperature during operation			
• min.	0 °C; Any mounting angle	0 °C	0 °C; Indoor
• max.	50 °C; Any mounting angle	50 °C	50 °C; Indoor
Relative humidity			
• Operation, max.	90 %	90 %	90 %
• Condensation permissible	No; Condensation not permissible	No	No; Condensation not permissible
Operating systems			
Runs under operating system			
• Windows CE	Yes	Yes	Yes
• Windows Vista	Yes	Yes	Yes
• Windows XP	Yes	Yes	Yes
• Windows 7	Yes	Yes	Yes
• Windows 8	Yes	Yes	Yes
• Linux	No	No	No
• other	Yes; Card must not be formatted!		No
Mechanics/material			
Enclosure material (front)			
• plastic	Yes	Yes	
• Sheet metal			Yes
Service life			
• Number of operating cycles, keys	10; Min. data storage without loss (in years)		
Dimensions			
Width	42.8 mm	54 mm	54 mm
Height	36.4 mm	85.6 mm	85.6 mm
Thickness	3.3 mm	5 mm	5 mm
Weights			
Weight (without packaging)	10 g	34 g	24 g
Scope of supply			
Delivery quantity in pieces	1	1; Content: CF memory card, 512 MB, and PC card adapter	1
Other			
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	for SIMATIC HMI devices with CF slot	for SIMATIC HMI devices with PC card slot	for SIMATIC HMI devices with PC card slot

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Technical specifications (continued)

Article number	6AV6881-0AQ10-0AA0 SIMATIC SD outdoor card 2 GB	6AV6881-0AQ40-0AA0 SIMATIC SD outdoor card 32 GB
General information		
Product type designation	SD memory card	SD memory card
Control elements		
Frame size/design		
• Standard	Yes; Typically 10 000 insertion cycles	Yes; Typically 10 000 insertion cycles
• Flat	Yes	Yes
Installation type/mounting		
Mounting position	Any, dependent on target device	Any, dependent on target device
Mounting in portrait format possible	Yes	Yes
Mounting in landscape format possible	Yes	Yes
Supply voltage		
Rated value (DC)	3.3 V; Max 3.6 V	3.3 V; Max 3.6 V
Storage		
Type of memory	Secure Digital memory card	Secure Digital memory card
Memory size	2 Gbyte	32 Gbyte
Transmission rate for reading, max.	600 Mbit/s; Typical	600 Mbit/s; Typical
Transmission rate for writing, max.	600 Mbit/s; Typical	600 Mbit/s; Typical
Wear leveling (distributed writing)	Yes	Yes
Write protection switch	Yes; Effectiveness depends on the device	Yes; Effectiveness depends on the device
Interfaces		
Device-side interface		
• Number of pins device-side	9	9
Standards, approvals, certificates		
CE mark	Yes	Yes
UKCA mark	Yes	Yes
UL approval	Yes	Yes
cULus	Yes	Yes
KC approval	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes
RoHS conformity	Yes	Yes
China RoHS compliance	Yes	Yes
Marine approval	Yes; Passive component, therefore dependent on target device	Yes; Passive component, therefore dependent on target device
Use in hazardous areas		
• ATEX Zone 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• ATEX Zone 22	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• IECEx Zone 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• IECEx Zone 22	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• cULus Class I Zone 2, Division 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• FM Class I Division 2	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
Marine approval		
• Germanischer Lloyd (GL)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• American Bureau of Shipping (ABS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.

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Technical specifications (continued)

Article number	6AV6881-0AQ10-0AA0 SIMATIC SD outdoor card 2 GB	6AV6881-0AQ40-0AA0 SIMATIC SD outdoor card 32 GB
• Bureau Veritas (BV)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Det Norske Veritas (DNV)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Lloyds Register of Shipping (LRS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Nippon Kaiji Kyokai (Class NK)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Polski Rejestr Statkow (PRS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Chinese Classification Society (CCS)	Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.
• Compass working clearance	5 m	5 m
Ambient conditions		
Suited for indoor use	Yes	Yes
Suited for outdoor use	Yes	Yes
Ambient temperature during operation		
• min.	-30 °C; Indoor/outdoor	-30 °C; Indoor/outdoor
• max.	60 °C; Indoor/outdoor	60 °C; Indoor/outdoor
Relative humidity		
• Operation, max.	95 %; no condensation	95 %; no condensation
• Condensation permissible	No; Condensation not permissible	No; Condensation not permissible
Operating systems		
pre-installed operating system		
• Windows CE	No; Preinstalled system files	No; Preinstalled system files
Runs under operating system		
• Windows CE	Yes	Yes
• Windows Vista	Yes	Yes
• Windows XP	Yes	Yes
• Windows 7	Yes	Yes
• Windows 8	Yes	Yes
• Windows 10	Yes	Yes
• Linux	Yes	Yes
• other	Yes; Card must not be formatted!	Yes; Card must not be formatted!
Mechanics/material		
Enclosure material (front)		
• plastic	Yes; Gold contacts	Yes; Gold contacts
Enclosure color (front)	RAL 6034 (color deviation possible)	RAL 6034 (color deviation possible)
Service life		
• Number of operating cycles, keys	10; min. data storage without loss of data (in years) with new card	10; min. data storage without loss of data (in years) with new card
Dimensions		
Width	24 mm	24 mm
Height	32 mm	32 mm
Thickness	2.1 mm	2.1 mm
Weights		
Weight (without packaging)	3 g	3 g
Scope of supply		
Delivery quantity in pieces	1	1

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Technical specifications (continued)

Article number	6AV6881-0AQ10-0AA0 SIMATIC SD outdoor card 2 GB	6AV6881-0AQ40-0AA0 SIMATIC SD outdoor card 32 GB
Other		
Merchandise	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	Storage medium especially for outdoor or indoor areas, suitable for Panels as of TIA V16 (observe manual for target panel) but also for PCs with a suitable slot. Formatting destroys the system properties of the card	Storage medium especially for outdoor or indoor areas, suitable for Panels as of TIA V16 (observe manual for target panel) but also for PCs with a suitable slot. Formatting destroys the system properties of the card
Note:	can only be used with TIA V16 or higher, panel firmware must be upgraded if necessary (cannot be used in Classic Panels)	can only be used with TIA V16 or higher, panel firmware must be upgraded if necessary (cannot be used in Classic Panels)

Article number	6AV6881-0AS42-0AA1 USB flash drive, 32 GB
General information	
Product type designation	USB flash drive (without software)
Control elements	
Connection type	
• USB	Yes; USB 3.0 type A
Frame size/design	
• Standard	Yes
• Flat	Yes
Installation type/mounting	
Mounting position	Any, dependent on target device
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
Supply voltage	
Rated value (DC)	5 V
Storage	
Type of memory	Multi-level cell (MLC)
Memory size	32 Gbyte
Speed class	Up to: read: 75 MB/s, write: 21 MB/s
File format	FAT32
Write cycles MLC flash	3 000; Program/Erase cycle
Write protection switch	No
Interfaces	
Number of USB interfaces	1; USB 3.0 type A
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Relative humidity	
• Operation, max.	85 %
• Condensation permissible	No

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Technical specifications (continued)

Article number	6AV6881-0AS42-0AA1 USB flash drive, 32 GB
Operating systems	
pre-installed operating system	
• Windows CE	Yes
Runs under operating system	
• Windows CE	Yes
• Windows Vista	No
• Windows XP	Yes
• Windows 7	Yes
• Windows 8	Yes
• Windows 10	Yes
• Linux	Yes
Mechanics/material	
Enclosure material (front)	
• Aluminum	Yes
Dimensions	
Width	16.7 mm
Height	59.1 mm
Thickness	7 mm
Weights	
Weight (without packaging)	12 g
Scope of supply	
Delivery quantity in pieces	1; Without content
Other	
Merchandise	No
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)
Note:	TP1500 Comfort Outdoor, TP700 Comfort Outdoor: Observe the temperature range

Article number	6ES7648-2BF10-0XF0 SIMATIC CFAST memory card, 2 GB	6ES7648-2BF10-0XG0 SIMATIC CFAST memory card, 4 GB
General information		
Product type designation	CFast memory card	CFast memory card
Supply voltage		
Type of supply voltage	DC	DC
Rated value (DC)	3.3 V; ±5 %	3.3 V; ±5 %
Power		
Active power input, typ.	0.7 W; Inactive 0.3 W	0.7 W; Inactive 0.3 W
Storage		
Type of memory	CFast Type I	CFast Type I
Design	SLC NAND flash	SLC NAND flash
Memory size	2 Gbyte; 1 year (data retention)	4 Gbyte; 1 year (data retention)
Speed class	Write speed: up to 60 MB/s (UDMA6), read speed: up to 100 MB/s (UDMA6)	Write speed: up to 60 MB/s (UDMA6), read speed: up to 100 MB/s (UDMA6)
SLC flash write cycles	4; TB; number of write cycles determines the lifetime - with flash mass storage devices, the maximum number of possible write cycles is limited due to the physical properties of the flash cells. The intelligent data management of the flash controller ensures that the write cycle count of the mass storage device far surpasses the write cycles of a single flash memory cell. To ensure overall performance, it is recommended not use the memory area completely.	4.5; TB; number of write cycles determines the lifetime - with flash mass storage devices, the maximum number of possible write cycles is limited due to the physical properties of the flash cells. The intelligent data management of the flash controller ensures that the write cycle count of the mass storage device far surpasses the write cycles of a single flash memory cell. To ensure overall performance, it is recommended not use the memory area completely.
Standards, approvals, certificates		
CE mark	Yes	Yes

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Technical specifications (continued)

Article number	6ES7648-2BF10-0XF0 SIMATIC CFAST memory card, 2 GB	6ES7648-2BF10-0XG0 SIMATIC CFAST memory card, 4 GB
Ambient conditions		
Ambient temperature during operation		
• min.	-40 °C; Any mounting angle	-40 °C; Any mounting angle
• max.	85 °C; Any mounting angle	85 °C; Any mounting angle
Relative humidity		
• Operation, max.	85 %	85 %
• Condensation permissible	No	No
Dimensions		
Width	42.8 mm	42.8 mm
Height	36.4 mm	36.4 mm
Depth	3.6 mm	3.6 mm
Weights		
Weight, approx.	10 g	10 g
Other		
Merchandise	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For SIMATIC HMI devices and IPCs with the appropriate slot	For SIMATIC HMI devices and IPCs with the appropriate slot
Note:	bootable, real-time capable, error correction, wear leveling, power loss protection and diagnostics-capable	bootable, real-time capable, error correction, wear leveling, power loss protection and diagnostics-capable

Article number	6ES7648-2BF10-0XH0 SIMATIC CFAST memory card, 8 GB	6ES7648-2BF10-0XM1 SIMATIC CFAST memory card, 128 GB	6ES7648-2BF10-0XK1 SIMATIC CFAST memory card, 30 GB	6ES7648-2BF10-0XJ0 SIMATIC CFAST memory card, 16 GB
General information				
Product type designation	CFast memory card	CFast memory card	CFast memory card	CFast memory card
Supply voltage				
Type of supply voltage	DC	DC	DC	DC
Rated value (DC)	3.3 V; ±5 %	3.3 V; ±5 %	3.3 V; ±5 %	3.3 V; ±5 %
Input current				
Current consumption (rated value)		100 mA; Typical		
Power				
Active power input, typ.	0.7 W; Inactive 0.3 W	1.1 W; Inactive 0.4 W	1.3 W; Inactive 0.4 W	0.7 W; Inactive 0.3 W

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Technical specifications (continued)

Article number	6ES7648-2BF10-0XH0 SIMATIC CFAST memory card, 8 GB	6ES7648-2BF10-0XM1 SIMATIC CFAST memory card, 128 GB	6ES7648-2BF10-0XK1 SIMATIC CFAST memory card, 30 GB	6ES7648-2BF10-0XJ0 SIMATIC CFAST memory card, 16 GB
Storage				
Type of memory	CFast Type I	CFast Type I	CFast Type I	CFast Type I
Design	SLC NAND flash		Multi-level cell (MLC)	SLC NAND flash
Memory size	8 Gbyte; 1 year (data retention)	128 Gbyte; 1 year (data retention)	30 Gbyte; 1 year (data retention)	16 Gbyte; 1 year (data retention)
Speed class	Write speed: up to 60 MB/s (UDMA6), read speed: up to 100 MB/s (UDMA6)	Write speed: up to 200 MB/s (UDMA6), read speed: up to 100 MB/s (UDMA6)	Write speed: up to 45 MBps (UDMA6), read speed: up to 200 MBps (UDMA6)	Write speed: up to 60 MB/s (UDMA6), read speed: up to 100 MB/s (UDMA6)
SLC flash write cycles	4; TB; number of write cycles determines the lifetime - with flash mass storage devices, the maximum number of possible write cycles is limited due to the physical properties of the flash cells. The intelligent data management of the flash controller ensures that the write cycle count of the mass storage device far surpasses the write cycles of a single flash memory cell. To ensure overall performance, it is recommended not use the memory area completely.			17; TB; number of write cycles determines the lifetime - with flash mass storage devices, the maximum number of possible write cycles is limited due to the physical properties of the flash cells. The intelligent data management of the flash controller ensures that the write cycle count of the mass storage device far surpasses the write cycles of a single flash memory cell. To ensure overall performance, it is recommended not use the memory area completely.
Write cycles MLC flash		8.8; Terabytes, industrial quality	8.8; Terabytes, industrial quality	
Wear leveling (distributed writing)		Yes		
Write protection switch		No		

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Technical specifications (continued)

Article number	6ES7648-2BF10-0XH0 SIMATIC CFAST memory card, 8 GB	6ES7648-2BF10-0XM1 SIMATIC CFAST memory card, 128 GB	6ES7648-2BF10-0XK1 SIMATIC CFAST memory card, 30 GB	6ES7648-2BF10-0XJ0 SIMATIC CFAST memory card, 16 GB
Standards, approvals, certificates				
CE mark	Yes	Yes; Certificates, Declaration of Conformity can be downloaded from SIOS, for commodities directly from the manufacturer	Yes	Yes
Use in hazardous areas				
• ATEX Zone 2		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• ATEX Zone 22		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• IECEx Zone 1		No	No	
• IECEx Zone 11		No	No	
• IECEx Zone 2		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• IECEx Zone 22		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• cULus Class I Zone 1		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• cULus Class I Zone 2, Division 2		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• cULus Class II Division 2		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• FM Class I Division 2		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• FM Class II Division 2		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
Marine approval				
• Germanischer Lloyd (GL)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• American Bureau of Shipping (ABS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Bureau Veritas (BV)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Det Norske Veritas (DNV)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Korean Register of Shipping (KRS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Lloyds Register of Shipping (LRS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Nippon Kaiji Kyokai (Class NK)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Polski Rejestr Statkow (PRS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
• Chinese Classification Society (CCS)		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	

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Technical specifications (continued)

Article number	6ES7648-2BF10-0XH0 SIMATIC CFAST memory card, 8 GB	6ES7648-2BF10-0XM1 SIMATIC CFAST memory card, 128 GB	6ES7648-2BF10-0XK1 SIMATIC CFAST memory card, 30 GB	6ES7648-2BF10-0XJ0 SIMATIC CFAST memory card, 16 GB
Ambient conditions				
Suited for indoor use		Yes; Always comply with the operating instructions of the target device.	Yes; Always comply with the operating instructions of the target device.	
Suited for outdoor use		Yes; Always comply with the operating instructions of the target device.	No	
Ambient temperature during operation				
• min.	-40 °C; Any mounting angle	0 °C; Any mounting angle	-40 °C; Any mounting angle	-40 °C; Any mounting angle
• max.	85 °C; Any mounting angle	55 °C; Any mounting angle	85 °C; Any mounting angle	85 °C; Any mounting angle
Relative humidity				
• Operation, max.	85 %	85 %	85 %	85 %
• Condensation permissible	No	No	No	No
Dimensions				
Width	42.8 mm	42.8 mm	42.8 mm	42.8 mm
Height	36.4 mm	36.4 mm	36.4 mm	36.4 mm
Depth	3.6 mm	3.6 mm	3.6 mm	3.6 mm
Weights				
Weight, approx.	10 g	10 g	10 g	10 g
Other				
Merchandise	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For SIMATIC HMI devices and IPCs with the appropriate slot	Suitable for IPC and HMI devices with the corresponding interfaces (see manual)	For SIMATIC HMI devices and IPCs with the appropriate slot	For SIMATIC HMI devices and IPCs with the appropriate slot
Note:	bootable, real-time capable, error correction, wear leveling, power loss protection and diagnostics-capable	bootable, real-time capable, error correction, wear leveling, power loss protection and diagnostics-capable	bootable, real-time capable, error correction, wear leveling, power loss protection and diagnostics-capable	bootable, real-time capable, error correction, wear leveling, power loss protection and diagnostics-capable

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Overview



Tablet PC transport case



Tablet PC additional case



Tablet PC storage case

Transport and storage cases

Transport and storage cases are perfectly suited for tablet PCs and industrial tablet PCs such as the ITP100.

The basic transport case was created especially for mobile operation of a tablet PC with all of the required accessories, such as a power supply unit, mouse, keyboard, etc. It can be modularly expanded. Various expansion pockets are available for this purpose.

Additional expansion pockets can easily be connected to the basic case. Covered holes allow the tablet to be connected to the power supply unit even during transport without the cable visibly hanging out of the case. This ensures particularly fast access times when used. The basic case features a hook-and-loop strip and a wrist rest for using an optional Bluetooth keyboard. The rear part of the transport case can be opened to allow the tablet PC to be optimally set up in the case as well. The outer fabric straps can be used for securing anything from tools to writing materials, meaning that everything is at your fingertips during a service call.

Optimal ventilation during operation is also provided for. Thick, elastic material ribs not only protect against small impacts, but also against over-heating. A rugged shoulder strap, a double carrying handle, and side reflective strips round off the well thought out transport case.

A case with all-round protection meant purely for storage purposes is also available for tablet PCs.

Note:

The expansion module pockets must be ordered separately. 1 to 3 small expansion pockets or 1 small and 1 medium expansion pocket can be attached to one basic case at the same time.

Selection and ordering data

Basic transport bag for tablet PC: Multifunctional transport bag, suitable, for example, for the tablet PC ITP1000 or other tablet PCs, laptops. Can be expanded. Can be used as stand, with carrying strap.	**6AV6881-0AW11-3AA0**
Small expansion pocket for tablet PC Expansion pocket, small, suitable for transport bag ITP1000.	**6AV6881-0AW12-3AA0**
Medium expansion pocket for tablet PC Expansion pocket, medium-size, suitable for transport bag ITP1000. Can be used instead of 2 small ones.	**6AV6881-0AW13-3AA0**
Storage bag for tablet PC Universal storage bag, suitable for all tablet PCs.	**6AV6881-0AW11-2AA0**
Tablet PC support with handle for ITP1000	**6AV6881-0AW21-3AA0**
Tablet PC carrying strap for ITP1000	**6AV6881-0AW31-3AA0**

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Technical specifications

Article number	6AV6881-0AW11-3-AA0 Transport bag Basic Tablet	6AV6881-0AW12-3-AA0 Additional pocket small Tablet	6AV6881-0AW13-3-AA0 Additional pocket medium Tablet	6AV6881-0AW11-2-AA0 Storage bag Tablet	6AV6881-0AW21-3-AA0 Tablet PC support with handle	6AV6881-0AW31-3-AA0 Tablet PC carrying strap
General information						
Product type designation	Transport pouch basic	Transport pouch small	Transport pouch medium	Transport pouch storage	Tablet PC holder with handle	Tablet PC carrying strap
Control elements						
Frame size/design						
• Exceptional	Yes; Integrated ventilation, laying of cables possible	No	Yes; With integrated cable opening	No	Yes; Optimized for tablet PC, ITP1000	Yes; Optimized for tablet PC, ITP1000
Ergonomics						
• Trackball rest	Yes	No	No	No	No; Adjustable handle with hook-and-loop connection, any useful angle can be set	No; Carrying strap with adjustable shoulder pad
• Adjustable height	No; Case with stand function	No	No	No	No	No; Strap can be adjusted for length
Installation type/mounting						
Mounting type					Real assembly with provided screws	Rear lug mounting, also suitable as a belt strap
Degree and class of protection						
IP (all-round)					none	none
Standards, approvals, certificates						
CE mark					No; No CE marking obligation	No; No CE marking obligation
Ambient conditions						
Suited for indoor use	Yes; Washable	Yes; Washable	Yes; Washable	Yes; Washable	Yes	Yes
Suited for outdoor use	Yes; Washable	Yes; Washable	Yes; Washable	Yes; Washable	Yes	Yes
Ambient temperature during operation						
• min.	-30 °C; Indoor/outdoor	-30 °C; Indoor/outdoor	-30 °C; Indoor/outdoor	-30 °C; Indoor/outdoor	0 °C	0 °C
• max.	60 °C; Indoor/outdoor	60 °C; Indoor/outdoor	60 °C; Indoor/outdoor	60 °C; Indoor/outdoor	50 °C	50 °C
Relative humidity						
• Operation, max.	95 %	95 %	95 %	95 %	90 %	90 %
• Condensation permissible	Yes; Applies only for case, not for contents	Yes; Applies only for case, not for contents	Yes; Applies only for case, not for contents	Yes; Applies only for case, not for contents		
Mechanics/material						
Material						
• plastic	Yes; 420 HD nylon	Yes; 420 HD nylon	Yes; 420 HD nylon	Yes; 420 HD nylon		
Torques/forces						
• Tightening torque, min.					1 N·m; Insufficient torque can lead to loosening of the screws	1 N·m; Insufficient torque can lead to loosening of the screws
• Tightening torque, max.					1.5 N·m	1.5 N·m

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Technical specifications (continued)

Article number	6AV6881-0AW11-3-AA0	6AV6881-0AW12-3-AA0	6AV6881-0AW13-3-AA0	6AV6881-0AW11-2-AA0	6AV6881-0AW21-3-AA0	6AV6881-0AW31-3-AA0
	Transport bag Basic Tablet	Additional pocket small Tablet	Additional pocket medium Tablet	Storage bag Tablet	Tablet PC support with handle	Tablet PC carrying strap
Dimensions						
Width	40 cm; Approximate dimension	18 cm; Approximate dimension	25 cm; Approximate dimension	35 cm; Approximate dimension		
Height	30 cm; Approximate dimension	12 cm; Approximate dimension	18 cm; Approximate dimension	24 cm; Approximate dimension		
Depth	10 cm; Approximate dimension	5 cm; Approximate dimension	5 cm; Approximate dimension	5 cm; Approximate dimension		
Mounting cutout, width	33 cm; Max. device width	10 cm; Max. device width	20 cm; Max. device width	33 cm; Max. device width		
Mounting cutout, height	23 cm; Max. device height	14 cm; Max. device height	14 cm; Max. device height	23 cm; Max. device height		
mounting depth	3 cm; Max. device depth	3 cm; Max. device depth	3 cm; Max. device depth	3 cm; Max. device depth		
Weights						
Weight (without packaging)	280 g	35 g	50 g	50 g	0.4 kg	0.25 kg
Scope of supply						
Delivery quantity in pieces	1	1	1	1	1; 1x mounting plate with 4 lugs, 1x handle with hook-and-loop pad, 4x M4 screws, 4x washers	1; 1x carrying strap, adjustable length with snap hooks, 2 lugs, 2x M4 screws, 2x washers
Other						
Merchandise	Yes; Tatonka 6540.040	Yes; Tatonka 6541.040	Yes; Tatonka 6542.040	Yes; Tatonka 6539.040	Yes	Yes
Manufacturer name	TATONKA GmbH	TATONKA GmbH	TATONKA GmbH	TATONKA GmbH	ADViTEX GmbH	ADViTEX GmbH
Manufacturer's address	Robert-Bosch-Straße 3, 86451 Dasing, Germany	Robert-Bosch-Straße 3, 86451 Dasing, Germany	Robert-Bosch-Straße 3, 86451 Dasing, Germany	Robert-Bosch-Straße 3, 86451 Dasing, Germany	Eisenbahnstraße 40, 75228 Ispringen, Germany	Eisenbahnstraße 40, 75228 Ispringen, Germany
Target devices	Suitable laptops and tablets, or similar	Suitable laptops and tablets, or similar	Suitable laptops and tablets, or similar	Suitable laptops and tablets, or similar	suitable for all appropriate interfaces	suitable for all appropriate interfaces
Note:	Integrated cable inlets for power supply unit, hard disks etc. - simply flip open to get started	Integrated cable inlets for power supply unit, hard disks etc. - simply flip open to get started	Integrated cable inlets for power supply unit, hard disks etc. - simply flip open to get started	Integrated cable inlets for power supply unit, hard disks etc. - simply flip open to get started	Commodity, can be used for ITP1000	Commodity, can be used for ITP1000

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Overview

Distribution boards

Industrial distribution boards are used for extending and/or multiplying interfaces. The distribution boards offered here are optimized for SIMATIC devices and intended for industrial use.

This also includes the interface extensions. A USB device interface with IP65 [1] degree of protection is provided on the front of the control cabinet or console.

[1] The stated degree of protection always refers to the closed interface. The stated degree of protection can differ significantly from the stated value when using the USB interfaces.

USB extension

Installation of an external USB interface is practical if external input devices or mass storage devices are frequently connected to a SIMATIC HMI PRO device. The USB interface can optionally be mounted at the top or bottom of the device. Use of the USB interface increases the availability of the system to be operated. It is also no longer necessary to open the backplane of the SIMATIC HMI PRO device to connect I/O.

Further benefits:

- Accessible to any operator without the need for tools
- Also suitable for retrofitting in enclosure
- Mountable on the front
- Increased degree of protection at front if protective cover is closed

Selection and ordering data

1-port USB interface set RAL9023 RAL9023 (gray), with USB 2.0 socket, type A, for basic adapter for PRO devices, max. current consumption USB with Thin Client, MP377 and Flat Panel must be observed	**6AV7674-0LX00-0AA0**
2-port USB interface set RAL9023 RAL9023 (gray), with USB 2.0 socket, type A, for basic adapter for PRO devices, max. current consumption USB with Thin Client, MP377 and Flat Panel must be observed	**6AV7674-0LX01-0AA0**

Technical specifications

Article number	6AV7674-0LX00-0AA0	6AV7674-0LX01-0AA0
	1 port USB interface set RAL9023	2 port USB interface set RAL9023
General information		
Product type designation	USB port	USB port
Standards, approvals, certificates		
CE mark	No; No CE marking obligation	No; No CE marking obligation
RoHS conformity	Yes	Yes
Scope of supply		
Delivery quantity in pieces	1	1
Other		
Merchandise	Yes; 1-port USB interface	Yes; 2-port USB interface
Manufacturer name	RITTAL GmbH & Co. KG	RITTAL GmbH & Co. KG
Manufacturer's address	Auf dem Stützelberg, 35745 Herborn, Germany	Auf dem Stützelberg, 35745 Herborn, Germany
Note:	for general use or for PRO devices with a suitable USB interface	for general use or for PRO devices with a suitable USB interface

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Overview



SIMATIC small components are also perfected for the industrial environment and optimally matched to the SIMATIC HMI devices.

In order to achieve attractive prices, it is only possible in some cases to order packages containing larger quantities.

Note:

Keys for KTP Mobile come with a preset breaking point. This ensures that a key can still always be removed from a KTP Mobile lock even if it breaks off.

Selection and ordering data

Spare key for Mobile Panel, Type 10 For key-operated switch of the Mobile Panel.	**6AV6574-1AG04-4AA0**
Spare key for Mobile Panel, Type 13 For key-operated switch of the Mobile Panel 2nd Generation.	**6AV2181-5AR80-0AX0**
Spare key PRO, Type 14 For Extension Unit	**6AV6881-4AR23-0AA0**
Spare key PRO, Safety, Type 14 For Extension Unit	**6AV6881-4AR23-1AA0**
Battery compartment lid for all IWLAN Mobile Panels with Article No. 6AV6645-0...	**6AV6881-5AM52-0AA0**

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Technical specifications

Article number	6AV6574-1AG04-4AA0 Spare key Mobile Panel, type 10	6AV2181-5AR80-0AX0 Spare key Mobile Panel, type 13	6AV6881-5AM52-0AA0 Battery cover IWLAN Mobile Panel
General information			
Product type designation	Spare key Mobile Panel 1st Generation	Spare key	Battery compartment cover
Standards, approvals, certificates			
CE mark	Yes	No; No CE marking obligation	No; No CE marking obligation
RoHS conformity	Yes		
Ambient conditions			
Ambient temperature during operation			
• min.	-40 °C	-40 °C	-40 °C
• max.	80 °C	80 °C	80 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
Mechanics/material			
Material			
• plastic			Yes; Incl. seal
• Sheet metal	Yes; Handle made of plastic	Yes; Handle made of plastic	
Dimensions			
Width	35 mm	15 mm	8 mm; Approximate dimension
Height	18 mm	35 mm	10 mm; Approximate dimension
Depth			5 mm; Approximate dimension
Thickness	4 mm	4 mm	
Weights			
Weight (without packaging)	30 g	5 g	22 g
Scope of supply			
Delivery quantity in pieces	10; Coupled with key ring	5	1
Other			
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
Target devices	For Mobile Panel 1st Generation	For Mobile Panel 2nd Generation	For Mobile Panel 2nd Generation
Note:			Only required for IWLAN

Article number	6AV6881-4AR23-1AA0 Spare key PRO, Safety, type 14	6AV6881-4AR23-0AA0 Spare key PRO, type 14
General information		
Product type designation	Spare key	Spare key
Standards, approvals, certificates		
CE mark	No; No CE marking obligation	No; No CE marking obligation
Ambient conditions		
Ambient temperature during operation		
• min.	-40 °C	-40 °C
• max.	80 °C	80 °C
Relative humidity		
• Operation, max.	90 %	90 %
Mechanics/material		
Material		
• Sheet metal	Yes	Yes
Dimensions		
Width	15 mm; Approximate dimension	15 mm; Approximate dimension
Height	35 mm; Approximate dimension	35 mm; Approximate dimension
Thickness	4 mm	4 mm
Weights		
Weight (without packaging)	5 g	5 g

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Technical specifications (continued)

Article number	6AV6881-4AR23-1AA0 Spare key PRO, Safety, type 14	6AV6881-4AR23-0AA0 Spare key PRO, type 14
Scope of supply		
Delivery quantity in pieces	6; 3 pairs	6; 3 pairs
Other		
Merchandise	Yes; RAFI 9.30.275.011/0000	Yes; RAFI 9.30.275.005/0000
Manufacturer name	RAFI GmbH & Co.KG	RAFI GmbH & Co.KG
Manufacturer's address	Ravensburger Str. 128-134, 88276 Berg, Germany	Ravensburger Str. 128-134, 88276 Berg, Germany
Target devices	6AV7674-1ME50-0AA0	6AV7674-1ME00-0AA0

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Overview



SCALANCE W1788 M12 for indoor use:

The SCALANCE W-1788 M12 Access Points are rugged IP65 IWLAN devices with an M12 connector for 10/100/1000 Mbps with Power over Ethernet according to IEEE 802.3at Type 2 for applications outside the control cabinet. They enable wireless local networking of plant parts with a requirement for high bandwidths, for example through Gigabit data rates or high user density in the network. The access points are therefore especially suitable for cabinet-free industrial applications indoors.

The integrated, innovative MU-MIMO (Multi-user MIMO) technology ensures an even more efficient data throughput and the option to structure data flows. In addition, the switch integrated in the access point offers various networking options thanks to two Ethernet Gigabit ports.

Permanently mounted M12 and N-Connect connectors and the high IP65 degree of protection ensure simple and secure mounting outside the control cabinet while the proven iPRP iFeature enables bumpless redundancy via WLAN. In mobile applications, such as automated guided vehicles or railway applications, redundant wireless communication ensures reliable data transmission.

Product versions:

SCALANCE W1788-1 M12

- One radio card permanently installed in the device; functional scope can be expanded using a CLP

SCALANCE W1788-2 M12

- Two radio cards permanently installed in the device; functional scope can be expanded using a CLP.

SCALANCE W1788-2IA M12

- Two radio cards permanently installed in the device; eight internal antennas; functional scope can be expanded using a CLP.

SCALANCE W1788 M12 EEC for an extended range of ambient conditions:

The SCALANCE W-1788 M12 EEC Access Point is a rugged IP65 IWLAN device with one M12 connector for 10/100/1000 Mbps with Power over Ethernet according to IEEE 802.3at Type 2 for applications outside the control cabinet.

It also offers an extended temperature range, special approvals and conformal coating. This means it allows wireless local networking of plant parts in especially harsh industrial environments with a requirement for high bandwidths, for example through Gigabit data rates or high user density in the network. The access point is suitable for use in industrial and automation applications, especially in the rail transport environment.

The integrated, innovative MU-MIMO (Multi-user MIMO) technology ensures an even more efficient data throughput and the option to structure data flows. In addition, the switch integrated in the access point offers various networking options, such as link aggregation or redundancy, thanks to two Ethernet Gigabit ports.

Overview (continued)

Permanently mounted M12 and N-Connect connectors and the high IP65 degree of protection ensure simple and secure mounting outside the control cabinet while the proven iPRP iFeature enables bumpless redundancy via WLAN. In mobile applications, such as automated guided vehicles or railway applications, redundant wireless communication ensures reliable data transmission.

Product version:

SCALANCE W1788-2 M12 EEC

- Two radio cards permanently installed in the device; extended ambient conditions and conformal coating
- Functional scope can be expanded using a CLP

SCALANCE W788 RJ45 for use in control cabinet:

The rugged SCALANCE W788 RJ45 Access Points with IP30 degree of protection and one RJ45 connector for 10/100/1000 Mbps with Power over Ethernet according to IEEE 802.3at are perfectly suitable for setting up Industrial Wireless LAN (IWLAN) wireless networks in which the access point is to be mounted in the control cabinet.

With data transfer rates of up to 450 Mbps according to the standard IEEE 802.11n, the access points enable reliable, wireless data transmission in real time. The access point portfolio also includes an extensive range of antennas as well as numerous mounting options for a wide variety of applications.

With iFeatures such as iPCF (industrial Point Coordination Function) activated via the KEY-PLUG W780 iFeatures, new application areas are opened up: Data transmission along rail tracks, in amusement parks or even applications with EMERGENCY OFF function with PROFIsafe over wireless become possible.

Product versions:

SCALANCE W788-1 RJ45

- A radio card is permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W788-2 RJ45

- Two radio cards permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W788 M12 for indoor use:

The rugged SCALANCE W788 RJ45 Access Points with IP65 degree of protection and one M12 connector for 10/100/1000 Mbps with Power over Ethernet according to IEEE 802.3at are perfectly suitable for setting up Industrial Wireless LAN (IWLAN) wireless networks and for applications outside the control cabinet.

With data transfer rates of up to 450 Mbps according to the standard IEEE 802.11n, the access points enable reliable, wireless data transmission in real time. The access point portfolio also includes an extensive range of antennas as well as numerous mounting options for a wide variety of applications.

With iFeatures such as iPCF (industrial Point Coordination Function) activated via the KEY-PLUG W780 iFeatures, new application areas are opened up: Data transmission along rail tracks, in amusement parks or even applications with EMERGENCY OFF function with PROFIsafe over wireless become possible.

Product versions:

SCALANCE W788-1 M12

- A radio card is permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W788-2 M12

- Two radio cards permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

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Overview (continued)

SCALANCE W788 M12 EEC for an extended range of ambient conditions:

The rugged SCALANCE W788 RJ45 access point with IP65 degree of protection and one M12 connector for 10/100/1000 Mbps with Power over Ethernet according to IEEE 802.3at Type 2 is perfectly suitable for setting up Industrial Wireless LAN (IWLAN) wireless networks and for applications outside the control cabinet. It also offers an extended temperature range, special approvals and conformal coating. This means it enables wireless local networking of plant parts in especially harsh industrial environments and is therefore suitable for use in industrial and automation applications, especially in the rail transport environment.

With data transfer rates of up to 450 Mbps according to the standard IEEE 802.11n, the access points enable reliable, wireless data transmission in real time. The access point portfolio also includes an extensive range of antennas as well as numerous mounting options for a wide variety of applications.

With iFeatures such as iPCF (industrial Point Coordination Function) activated via the KEY-PLUG W780 iFeatures, new application areas are opened up: Data transmission along rail tracks, in amusement parks or even applications with EMERGENCY OFF function with PROFIsafe over wireless become possible.

Product version:

SCALANCE W788-2 M12 EEC

- Two radio cards permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W786 RJ45 for outdoor use:

The rugged SCALANCE W786 RJ45 Access Point with IP65 degree of protection and one RJ45 connector for 10/100/1000 Mbps with Power over Ethernet according to IEEE 802.3at for integrated solutions from the control level to the field with easy mounting in the control cabinet. This access point is particularly well-suited to outdoor applications with demanding climatic requirements and in areas accessible to the public.

With data transfer rates of up to 450 Mbps according to the standard IEEE 802.11n, the access points enable reliable, wireless data transmission in real time. The access point portfolio also includes an extensive range of antennas as well as numerous mounting options for a wide variety of applications.

With iFeatures such as iPCF (industrial Point Coordination Function) activated via the KEY-PLUG W780 iFeatures, new application areas are opened up: Data transmission along rail tracks, in amusement parks or even applications with EMERGENCY OFF function with PROFIsafe over wireless become possible.

Product versions:

SCALANCE W786-1 RJ45

- A radio card is permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W786-2 RJ45

- Two radio cards permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W786-2IA RJ45

- Two radio cards permanently installed in the device; six internal antennas; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W786 SFP for outdoor use:

The rugged SCALANCE W786 SFP Access Point with IP65 degree of protection and 6 x R-SMA sockets for connection of remote antennas as well as two slots for SFP plug-in transceivers (optical 2 port switch) for integrated solutions from the control level to the field with easy mounting in the control cabinet. This access point is particularly well-suited to outdoor applications with demanding climatic requirements and in areas accessible to the public.

With data transfer rates of up to 450 Mbps according to the standard IEEE 802.11n, the access points enable reliable, wireless data transmission in real time. The access point portfolio also includes an extensive range of antennas as well as numerous mounting options for a wide variety of applications.

With iFeatures such as iPCF (industrial Point Coordination Function) activated via the KEY-PLUG W780 iFeatures, new application areas are opened up: Data transmission along rail tracks, in amusement parks or even applications with EMERGENCY OFF function with PROFIsafe over wireless become possible.

Product version:

SCALANCE W786-2 SFP

- Two radio cards permanently installed in the device; can be expanded to establish wireless connections with KEY-PLUG W780 iFeatures

SCALANCE W774 RJ45 for use in control cabinet:

The SCALANCE W774 RJ45 Access Point with IP30 degree of protectionis a WLAN-capable device with two RJ45 connectors for 10/100 Mbps, where one connector has Power over Ethernet according to IEEE 802.3at, for integrated solutions from the control level to the field with easy mounting in the control cabinet. The W774-1 RJ45 enables local, wireless access to the plant and coexistence with other wireless systems by supporting 2.4 GHz and 5 GHz frequency bands. The access points in SIMATIC S7-1500 design are especially suitable for applications where the device is to be mounted in the control cabinet.

In perfect interaction with SIMATIC S7-1500, the device enables wireless transmission of data as well as communication between the PLC and an ET 200MP. It can be used to implement simple machine networks all the way to large wireless areas using MIMO technology with data transfer rates of up to 300 Mbps. In addition, it offers wireless data transmission in real time via PROFINET IO thanks to optional iFeatures provided by the KEY-PLUG W780 iFeature.

Product version:

SCALANCE W774-1 RJ45

- A radio card is permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

SCALANCE W774 M12 EEC for an extended range of ambient conditions:

The compact SCALANCE W774 M12 EEC Access Point with IP30 degree of protection is a WLAN-capable device with two M12 connectors for 10/100 Mbps, where one connector has Power over Ethernet according to IEEE 802.3at; it has railway approval and is suitable for partition wall installation.

In perfect interaction with SIMATIC S7-1500, the device enables wireless transmission of data as well as communication between the PLC and an ET 200MP. It can be used to implement simple machine networks all the way to large wireless areas using MIMO technology with data transfer rates of up to 300 Mbps. In addition, it offers wireless data transmission in real time via PROFINET IO thanks to optional iFeatures provided by the KEY-PLUG W780 iFeature.

Thanks to coated printed circuit boards (conformal coating), the SCALANCE W774-1 M12 EEC access point meets the requirements for traffic and transportation (EN 50155, E1).

Product version:

SCALANCE W774-1 M12 EEC

- A radio card is permanently installed in the device; functional scope can be expanded by using a KEY-PLUG W780 iFeatures

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Overview (continued)

SCALANCE W778-1 M12 for indoor use:

The rugged SCALANCE W778-1 M12 Access Point with IP65 degree of protection and two M12 connectors for 10/100 Mbps, where one connector has Power over Ethernet according to IEEE 802.3at, is perfectly suitable for setting up Industrial Wireless LAN (IWLAN) wireless networks and for applications outside the control cabinet. Low-wear communication can be set up to movable stations using a PROFINET or EtherNet/IP connection via WLAN. The access point is suitable for easy, space-saving and cabinet-free on-site assembly in industrial and automation applications.

In perfect interaction with SIMATIC S7-1500, the device enables wireless transmission of data as well as communication between the PLC and an ET 200MP. It can be used to implement simple machine networks all the way to large wireless areas using MIMO technology with data transfer rates of up to 300 Mbps. In addition, it offers wireless data transmission in real time via PROFINET IO thanks to optional iFeatures provided by the KEY-PLUG W780 iFeature.

Due to their IP65 rating and compact design, the devices can be used in harsh ambient conditions and offer various mounting options using a DIN rail mounting adapter, angled adapter or direct wall mounting with screws. The access point portfolio also includes an extensive range of antennas.

Product version:

SCALANCE W778-1 M12

- Access point with one radio card permanently installed in the device; functional scope can be expanded using a KEY-PLUG W780 iFeature

SCALANCE W778-1 M12 EEC for an extended range of ambient conditions:

The rugged SCALANCE W778-1 M12 access point with IP65 degree of protection and two M12 connectors for 10/100 Mbps, where one connector has Power over Ethernet according to IEEE 802.3at, is perfectly suitable for setting up Industrial Wireless LAN (IWLAN) wireless networks and for applications outside the control cabinet. In addition, the device increases security in the network in combination with KEY-PLUG W700 Security when "Inter AP-Blocking" is activated. The access point is suitable for use in general industrial and automation applications, but especially for extended ambient conditions such as in the rail transport environment

In perfect interaction with SIMATIC S7-1500, the device enables wireless transmission of data as well as communication between the PLC and an ET 200MP. It can be used to implement simple machine networks all the way to large wireless areas using MIMO technology with data transfer rates of up to 300 Mbps. In addition, it offers wireless data transmission in real time via PROFINET IO thanks to optional iFeatures provided by the KEY-PLUG W780 iFeature.

Due to their IP65 rating and compact design, the devices can be used in harsh ambient conditions and offer various mounting options using a DIN rail mounting adapter, angled adapter or direct wall mounting with screws. The access point portfolio also includes an extensive range of antennas.

Thanks to coated printed circuit boards (conformal coating), the SCALANCE W774-1 M12 EEC and SCALANCE W778-1 M12 EEC access points meet the requirements for traffic and transportation (EN 50155, E1).

Product version:

SCALANCE W778-1 M12 EEC

- Access point with one radio card permanently installed in the device; functional scope can be expanded using a KEY-PLUG W780 iFeature

SCALANCE W761 RJ45 for use in control cabinet:

The SCALANCE W761 RJ45 Access Point with IP20 degree of protection and one RJ45 connector for 10/100 Mbps is perfectly suitable for setting up Industrial Wireless LAN (IWLAN) wireless networks for integrated solutions from the control level to the field. The space-saving device supports 2.4 GHz and 5 GHz frequency bands and is suitable for applications where the device is to be mounted in the control cabinet.

The SCALANCE W761 RJ45 Access Point gives you the option to easily and cost-efficiently implement wireless machine networks. The access point portfolio also includes an extensive range of antennas. It is the counterpart of the W721 clients for cost-efficient point-to-point connections and enables wireless commissioning of the plant.

Thanks to their SIMATIC design, automation components such as an ET 200SP can be seamlessly integrated into an Industrial Wireless LAN to save space in the control cabinet. This is implemented according to the IEEE 802.11n standard and with data transfer rates of up to 150 Mbps; thanks to the increased bandwidth, it can be expanded to include video data.

Product version:

SCALANCE W761-1 RJ45

- One radio card permanently installed in the device

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Overview



- Space-saving access point, suitable for applications where the device is to be mounted in the control cabinet

Selection and ordering data

	Article No.
SCALANCE W761 access points	
IWLAN access point with built-in wireless interface; wireless networks IEEE 802.11a/b/g/h/n at 2.4/5 GHz up to 150 Mbps; WPA2/AES; degree of protection IP20 (0 °C to +55 °C); scope of delivery: Mounting hardware, 3-pin screw terminal for 24 V DC; manual on CD-ROM; German/English	
SCALANCE W761-1 RJ45	
IWLAN access point with one built-in wireless interface	
• Country approvals for operation outside the USA	**6GK5761-1FC00-0AA0**
• Country approvals for operation within the USA[1)]	**6GK5761-1FC00-0AB0**

1) Please note country approvals under http://www.siemens.com/wireless-approvals

Accessories

	Article No.
IE FC RJ45 plug 180 2 x 2	
RJ45 plug-in connector for Industrial Ethernet with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables; with a 180° cable outlet; for network components and CPs/CPUs with Industrial Ethernet interface	
• 1 pack = 1 unit	**6GK1901-1BB10-2AA0**
• 1 pack = 10 units	**6GK1901-1BB10-2AB0**
• 1 pack = 50 units	**6GK1901-1BB10-2AE0**
IE FC standard cable GP 2 x 2	**6XV1840-2AH10**
4-core, shielded TP installation cable for connection to IE FC RJ45 outlet plug/ IE FC RJ45 plug; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
IE FC stripping tool	**6GK1901-1GA00**
Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables	
Antennas and additional IWLAN accessories	See Industrial Wireless LAN/Accessories

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Technical specifications

Article number product type designation [1]	6GK5761-1FC00-0AA0 W761-1 RJ45	6GK5761-1FC00-0AB0 W761-1 RJ45 (USA)
product brand name	SCALANCE	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5761-1FC00-0AA0	https://i.siemens.com/1P6GK5761-1FC00-0AB0
transfer rate		
transfer rate		
• with WLAN maximum	150 Mbit/s	150 Mbit/s
• for Industrial Ethernet	10 Mbit/s, 100 Mbit/s	10 Mbit/s, 100 Mbit/s
interfaces		
number of electrical connections		
• for network components or terminal equipment	1	1
• for power supply	1	1
• for redundant voltage supply	0	0
type of electrical connection		
• for network components or terminal equipment	RJ45 socket	RJ45 socket
• for power supply	3-pole screw terminal	3-pole screw terminal
memory		
design of the removable storage		
• C-PLUG	No	No
• KEY-PLUG	No	No
interfaces wireless		
number of radio cards permanently installed	1	1
number of electrical connections for external antenna(s)	1	1
type of electrical connection for external antenna(s)	R-SMA (socket)	R-SMA (socket)
product feature external antenna can be mounted directly on device	Yes	Yes
supply voltage, current consumption, power loss		
type of voltage of the supply voltage	DC	DC
consumed current		
• at DC at 24 V typical	0.15 A	0.15 A
power loss [W]		
• at DC at 24 V typical	3.6 W	3.6 W
supply voltage 1		
• from terminal block	19.2 V	19.2 V
supply voltage 2		
• from terminal block	28.8 V	28.8 V
ambient conditions		
ambient temperature		
• during operation	0 ... 55 °C	0 ... 55 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C
relative humidity at 25 °C without condensation during operation maximum	95 %	95 %
ambient condition for operation	When used under hazardous conditions (Zone 2), the SCALANCE W761-1 RJ45 or W72x-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.	When used under hazardous conditions (Zone 2), the SCALANCE W761-1 RJ45 or W72x-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
protection class IP	IP20	IP20

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Technical specifications (continued)

Article number	6GK5761-1FC00-0AA0	6GK5761-1FC00-0AB0
product type designation [1]	W761-1 RJ45	W761-1 RJ45 (USA)
design, dimensions and weights		
width	50 mm	50 mm
height	114 mm	114 mm
depth	74 mm	74 mm
width of the enclosure without antenna	50 mm	50 mm
height of the enclosure without antenna	114 mm	114 mm
depth of the enclosure without antenna	74 mm	74 mm
net weight	0.13 kg	0.13 kg
fastening method		
• S7-300 rail mounting	No	No
• S7-1500 rail mounting	No	No
• 35 mm DIN-rail mounting	Yes	Yes
• wall mounting	No	No
radio frequencies		
operating frequency		
• for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals
• for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals
product features, product functions, product components general		
product function Access Point Mode	Yes	Yes
product function client Mode	Yes	Yes
number of SSIDs	1	1
product function		
• iPCF Access Point	No	No
• iPCF client	No	No
• iPCF-MC Access Point	No	No
• iPCF-MC client	No	No
product function iREF	No	No
product function iPRP	No	No
product functions management, configuration, engineering		
number of manageable IP addresses in client	4	4
product function		
• CLI	Yes	Yes
• web-based management	Yes	Yes
• MIB support	Yes	Yes
• TRAPs via email	Yes	Yes
• configuration with STEP 7	Yes	Yes
• configuration with STEP 7 in the TIA Portal	Yes	Yes
• operation with IWLAN controller	No	No
• operation with Enterasys WLAN controller	No	No
• forced roaming on IP down with IWLAN	Yes	Yes
• forced roaming on link down with IWLAN	Yes	Yes
• WDS	Yes	Yes
protocol is supported		
• Address Resolution Protocol (ARP)	Yes	Yes
• ICMP	Yes	Yes
• Telnet	Yes	Yes
• HTTP	Yes	Yes
• HTTPS	Yes	Yes

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Technical specifications (continued)

Article number product type designation [1]	6GK5761-1FC00-0AA0 W761-1 RJ45	6GK5761-1FC00-0AB0 W761-1 RJ45 (USA)
• TFTP	Yes	Yes
• DCP	Yes	Yes
• LLDP	Yes	Yes
identification & maintenance function		
• I&M0 - device-specific information	Yes	Yes
• I&M1 - higher level designation/location designation	Yes	Yes
product function is supported identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
product functions diagnostics		
product function		
• PROFINET IO diagnosis	No	No
• link check	No	No
• connection monitoring IP-Alive	No	No
• localization via Aeroscout	No	No
• SysLog	Yes	Yes
protocol is supported		
• SNMP v1	Yes	Yes
• SNMP v2	Yes	Yes
• SNMP v3	Yes	Yes
product functions VLAN		
product function		
• function VLAN with IWLAN	Yes	Yes
product functions DHCP		
product function		
• DHCP client	Yes	Yes
• DHCP server	Yes	Yes
• DHCP Option 82	Yes	Yes
product functions redundancy		
protocol is supported		
• STP/RSTP	Yes	Yes
• MSTP	Yes	Yes
• RSTP	Yes	Yes
product functions security		
product function		
• ACL - MAC-based	Yes	Yes
• management security, ACL-IP based	Yes	Yes
• IEEE 802.1x (radius)	Yes	Yes
• NAT/NAPT	Yes	Yes
• access protection according to IEEE802.11i	Yes	Yes
• WPA/WPA2	Yes	Yes
• TKIP/AES	Yes	Yes
protocol is supported		
• SSH	Yes	Yes
• RADIUS	Yes	Yes
product functions time		
protocol is supported		
• NTP	Yes	Yes
• SNTP	Yes	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes	Yes

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Technical specifications (continued)

Article number	6GK5761-1FC00-0AA0	6GK5761-1FC00-0AB0
product type designation [1]	W761-1 RJ45	W761-1 RJ45 (USA)
standards, specifications, approvals		
standard		
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
• for safety from CSA and UL	UL 60950-1 E115352, CSA C22.2 No. 60950-1	UL 60950-1 E115352, CSA C22.2 No. 60950-1
certificate of suitability		
• EC Declaration of Conformity	Yes	Yes
• CE marking	Yes	Yes
• C-Tick	Yes	Yes
• E1 approval	No	No
• railway application in accordance with EN 50155	No	No
• railway application in accordance with EN 50121-4	No	No
• NEMA TS2	No	No
• IEC 61375	No	No
• IEC 61850-3	No	No
• NEMA4X	No	No
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	No	No
• Power-over-Ethernet according to IEEE802.3at for type 2	No	No
standard for wireless communication		
• IEEE 802.11a	Yes	Yes
• IEEE 802.11b	Yes	Yes
• IEEE 802.11e	Yes	Yes
• IEEE 802.11g	Yes	Yes
• IEEE 802.11h	Yes	Yes
• IEEE 802.11i	Yes	Yes
• IEEE 802.11n	Yes	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen	You will find the current list of countries at: www.siemens.de/funkzulassungen
standards, specifications, approvals marine classification		
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	No	No
• French marine classification society (BV)	No	No
• DNV GL	No	No
• Korean Register of Shipping (KRS)	No	No
• Lloyds Register of Shipping (LRS)	No	No
• Nippon Kaiji Kyokai (NK)	No	No
• Polski Rejestr Statkow (PRS)	No	No
• Royal Institution of Naval Architects (RINA)	No	No
standards, specifications, approvals hazardous environments		
standard for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480
certificate of suitability CCC for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8	Yes; GB3836.1, GB3836.8
• as marking	Ex nA IIC T4 Gc	Ex nA IIC T4 Gc
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
global warming potential [CO2 eq]		
• total	125.8 kg	125.8 kg
• during manufacturing	12.97 kg	12.97 kg
• during operation	112.66 kg	112.66 kg
• after end of life	0.17 kg	0.17 kg

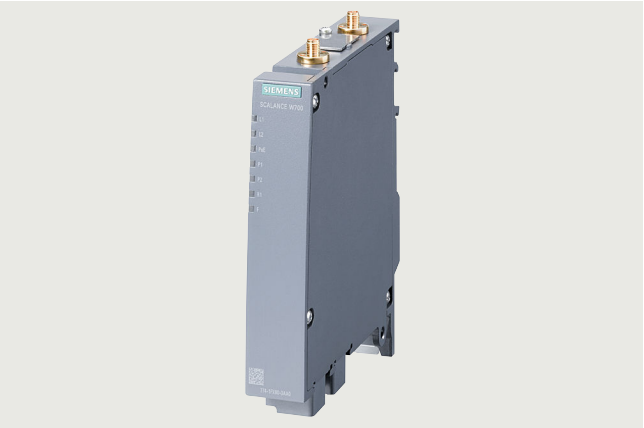
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Technical specifications (continued)

Article number product type designation [1]	6GK5761-1FC00-0AA0 W761-1 RJ45	6GK5761-1FC00-0AB0 W761-1 RJ45 (USA)
accessories		
accessories	24 V DC screw terminal included in scope of delivery	24 V DC screw terminal included in scope of delivery
further information internet links		
internet link		
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: WLAN country approval	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals
• to the website: IWLAN	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com
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Overview



- Access points in SIMATIC S7-1500 design are suitable for applications where the device is to be mounted in the control cabinet

Selection and ordering data

	Article No.
SCALANCE W774 access points	
IWLAN access points with built-in wireless interface for establishing radio connections with iFeatures; wireless networks IEEE 802.11a/b/g/h/n at 2.4/5 GHz up to 300 Mbps; WPA2/AES; integrated 2-port switch; Power over Ethernet (PoE), IP30 degree of protection (-20 °C to +60 °C); scope of delivery: Mounting hardware, 4-pin screw terminal for 24 V DC; manual on CD-ROM; German/English	
SCALANCE W774-1 RJ45	
IWLAN access point with one built-in wireless interface	
• Country approvals for operation outside the USA	**6GK5774-1FX00-0AA0**
• Country approvals for operation within the USA[1)]	**6GK5774-1FX00-0AB0**
• Country approvals for operation in Israel[1)]	**6GK5774-1FX00-0AC0**

1) Please note country approvals under http://www.siemens.com/wireless-approvals

Accessories

	Article No.
KEY-PLUG W780 iFeatures Removable data storage medium for enabling additional iFeatures, simple device replacement in the event of a fault and storage of configuration data; can be used in SCALANCE W access points with PLUG slot	**6GK5907-8PA00**
Security KEY-PLUG Removable data storage medium for enabling security features for SCALANCE W700 access points	**6GK5907-0PA00**
KEY-PLUG W740 Removable data storage medium for activating iFeatures for SCALANCE W in Client Mode	**6GK5907-4PA00**
C-PLUG Removable data storage medium for simple device replacement in the event of a fault; for storing configuration data; can be used in SIMATIC NET products with PLUG slot	**6GK1900-0AB10**
IE FC RJ45 plug 180 2 x 2 RJ45 connector for Industrial Ethernet with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables; with a 180° cable outlet; for network components and CPs/CPUs with Industrial Ethernet interface	
• 1 pack = 1 unit	**6GK1901-1BB10-2AA0**
• 1 pack = 10 units	**6GK1901-1BB10-2AB0**
• 1 pack = 50 units	**6GK1901-1BB10-2AE0**
IE FC standard cable GP 2 x 2 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet plug/ IE FC RJ45 plug; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1840-2AH10**
IE FC stripping tool Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables	**6GK1901-1GA00**
Antennas and additional IWLAN accessories	See Industrial Wireless LAN/Accessories

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Technical specifications

Article number product type designation [1]	6GK5774-1FX00-0AA0 W774-1 RJ45	6GK5774-1FX00-0AB0 W774-1 RJ45 (USA)	6GK5774-1FX00-0AC0 W774-1 RJ45 (ISR)
product brand name	SCALANCE	SCALANCE	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5774-1FX00-0AA0	https://i.siemens.com/1P6GK5774-1FX00-0AB0	https://i.siemens.com/1P6GK5774-1FX00-0AC0
transfer rate			
transfer rate			
• with WLAN maximum	300 Mbit/s	300 Mbit/s	300 Mbit/s
• for Industrial Ethernet	10 Mbit/s, 100 Mbit/s	10 Mbit/s, 100 Mbit/s	10 Mbit/s, 100 Mbit/s
interfaces			
number of electrical connections			
• for network components or terminal equipment	2	2	2
• for power supply	1	1	1
• for redundant voltage supply	1	1	1
type of electrical connection			
• for network components or terminal equipment	RJ45 socket	RJ45 socket	RJ45 socket
• for power supply	4-pole screw terminal, PoE	4-pole screw terminal, PoE	4-pole screw terminal, PoE
memory			
design of the removable storage			
• C-PLUG	Yes	Yes	Yes
• KEY-PLUG	Yes	Yes	Yes
interfaces wireless			
number of radio cards permanently installed	1	1	1
transmission mode for multiple input multiple output (MIMO)	2x2	2x2	2x2
number of spatial streams	2	2	2
number of electrical connections for external antenna(s)	2	2	2
type of electrical connection for external antenna(s)	R-SMA (socket)	R-SMA (socket)	R-SMA (socket)
product feature external antenna can be mounted directly on device	Yes	Yes	Yes
supply voltage, current consumption, power loss			
type of voltage of the supply voltage	DC	DC	DC
supply voltage			
• from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af	48 V	48 V	48 V
consumed current			
• at DC at 24 V typical	0.25 A	0.25 A	0.25 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af typical	0.125 A	0.125 A	0.125 A
power loss [W]			
• at DC at 24 V typical	6 W	6 W	6 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af typical	6 W	6 W	6 W
supply voltage 1			
• from terminal block	19.2 V	19.2 V	19.2 V
supply voltage 2			
• from terminal block	28.8 V	28.8 V	28.8 V

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Technical specifications (continued)

Article number product type designation [1]	6GK5774-1FX00-0AA0 W774-1 RJ45	6GK5774-1FX00-0AB0 W774-1 RJ45 (USA)	6GK5774-1FX00-0AC0 W774-1 RJ45 (ISR)
ambient conditions			
ambient temperature			
• during operation	-20 ... +60 °C	-20 ... +60 °C	-20 ... +60 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
relative humidity at 25 °C without condensation during operation maximum	97 %	97 %	97 %
ambient condition for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 RJ45 or W734-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 RJ45 or W734-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 RJ45 or W734-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
protection class IP	IP30	IP30	IP30
design, dimensions and weights			
width	26 mm	26 mm	26 mm
height	156 mm	156 mm	156 mm
depth	127 mm	127 mm	127 mm
width of the enclosure without antenna	26 mm	26 mm	26 mm
height of the enclosure without antenna	147 mm	147 mm	147 mm
depth of the enclosure without antenna	127 mm	127 mm	127 mm
net weight	0.52 kg	0.52 kg	0.52 kg
fastening method	wall mounting only if flat mounted	wall mounting only if flat mounted	wall mounting only if flat mounted
• S7-300 rail mounting	Yes	Yes	Yes
• S7-1500 rail mounting	Yes	Yes	Yes
• 35 mm DIN-rail mounting	Yes	Yes	Yes
• wall mounting	Yes	Yes	Yes
radio frequencies			
operating frequency			
• for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals
• for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals
product features, product functions, product components general			
product function Access Point Mode	Yes	Yes	Yes
product function client Mode	Yes	Yes	Yes
number of SSIDs	4	4	4
product function			
• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
• iPCF-MC Access Point	No	No	No
• iPCF-MC client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
number of iPCF-capable radio modules	1	1	1
product function iREF	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
number of iREF-capable radio modules	1	1	1
product function iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only

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Technical specifications (continued)

Article number product type designation [1]	6GK5774-1FX00-0AA0 W774-1 RJ45	6GK5774-1FX00-0AB0 W774-1 RJ45 (USA)	6GK5774-1FX00-0AC0 W774-1 RJ45 (ISR)
product functions management, configuration, engineering			
number of manageable IP addresses in client	8	8	8
product function			
• CLI	Yes	Yes	Yes
• web-based management	Yes	Yes	Yes
• MIB support	Yes	Yes	Yes
• TRAPs via email	Yes	Yes	Yes
• configuration with STEP 7	Yes	Yes	Yes
• configuration with STEP 7 in the TIA Portal	Yes	Yes	Yes
• operation with IWLAN controller	No	No	No
• operation with Enterasys WLAN controller	No	No	No
• forced roaming on IP down with IWLAN	Yes	Yes	Yes
• forced roaming on link down with IWLAN	Yes	Yes	Yes
• WDS	Yes	Yes	Yes
protocol is supported			
• Address Resolution Protocol (ARP)	Yes	Yes	Yes
• ICMP	Yes	Yes	Yes
• Telnet	Yes	Yes	Yes
• HTTP	Yes	Yes	Yes
• HTTPS	Yes	Yes	Yes
• TFTP	Yes	Yes	Yes
• DCP	Yes	Yes	Yes
• LLDP	Yes	Yes	Yes
identification & maintenance function			
• I&M0 - device-specific information	Yes	Yes	Yes
• I&M1 - higher level designation/location designation	Yes	Yes	Yes
product function is supported identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
product functions diagnostics			
product function			
• PROFINET IO diagnosis	Yes	Yes	Yes
• link check	No	No	No
• connection monitoring IP-Alive	No	No	No
• localization via Aeroscout	Yes	Yes	Yes
• SysLog	Yes	Yes	Yes
protocol is supported			
• SNMP v1	Yes	Yes	Yes
• SNMP v2	Yes	Yes	Yes
• SNMP v3	Yes	Yes	Yes
product functions VLAN			
product function			
• function VLAN with IWLAN	Yes	Yes	Yes
product functions DHCP			
product function			
• DHCP client	Yes	Yes	Yes
• DHCP server	Yes	Yes	Yes
• DHCP Option 82	Yes	Yes	Yes
product functions redundancy			
protocol is supported			
• STP/RSTP	Yes	Yes	Yes
• MSTP	Yes	Yes	Yes
• RSTP	Yes	Yes	Yes

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Technical specifications (continued)

Article number product type designation [1]	6GK5774-1FX00-0AA0 W774-1 RJ45	6GK5774-1FX00-0AB0 W774-1 RJ45 (USA)	6GK5774-1FX00-0AC0 W774-1 RJ45 (ISR)
product functions security			
product function			
• ACL - MAC-based	Yes	Yes	Yes
• management security, ACL-IP based	Yes	Yes	Yes
• IEEE 802.1x (radius)	Yes	Yes	Yes
• NAT/NAPT	Yes	Yes	Yes
• access protection according to IEEE802.11i	Yes	Yes	Yes
• WPA/WPA2	Yes	Yes	Yes
• TKIP/AES	Yes	Yes	Yes
protocol is supported			
• SSH	Yes	Yes	Yes
• RADIUS	Yes	Yes	Yes
product functions time			
protocol is supported			
• NTP	Yes	Yes	Yes
• SNTP	Yes	Yes	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes	Yes	Yes
standards, specifications, approvals			
standard			
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
• for safety from CSA and UL	UL 60950-1 E115352, CSA C22.2 No. 60950-1	UL 60950-1 E115352, CSA C22.2 No. 60950-1	UL 60950-1 E115352, CSA C22.2 No. 60950-1
certificate of suitability			
• EC Declaration of Conformity	Yes	Yes	No
• CE marking	Yes	Yes	No
• C-Tick	Yes	Yes	Yes
• E1 approval	No	No	No
• railway application in accordance with EN 50155	No	No	No
• railway application in accordance with EN 50121-4	No	No	No
• NEMA TS2	No	No	No
• IEC 61375	No	No	No
• IEC 61850-3	No	No	No
• NEMA4X	No	No	No
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	Yes	Yes	Yes
• Power-over-Ethernet according to IEEE802.3at for type 2	Yes	Yes	Yes
standard for wireless communication			
• IEEE 802.11a	Yes	Yes	Yes
• IEEE 802.11b	Yes	Yes	Yes
• IEEE 802.11e	Yes	Yes	Yes
• IEEE 802.11g	Yes	Yes	Yes
• IEEE 802.11h	Yes	Yes	Yes
• IEEE 802.11i	Yes	Yes	Yes
• IEEE 802.11n	Yes	Yes	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen	You will find the current list of countries at: www.siemens.de/funkzulassungen	You will find the current list of countries at: www.siemens.de/funkzulassungen

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Technical specifications (continued)

Article number	6GK5774-1FX00-0AA0	6GK5774-1FX00-0AB0	6GK5774-1FX00-0AC0
product type designation [1]	W774-1 RJ45	W774-1 RJ45 (USA)	W774-1 RJ45 (ISR)
standards, specifications, approvals marine classification			
Marine classification association			
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes
• French marine classification society (BV)	Yes	Yes	Yes
• DNV GL	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes
• Nippon Kaiji Kyokai (NK)	Yes	Yes	Yes
• Polski Rejestr Statkow (PRS)	Yes	Yes	Yes
• Royal Institution of Naval Architects (RINA)	Yes	Yes	Yes
standards, specifications, approvals hazardous environments			
standard for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480
certificate of suitability CCC for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8	Yes; GB3836.1, GB3836.8	Yes; GB3836.1, GB3836.8
• as marking	Ex nA IIC T4 Gc	Ex nA IIC T4 Gc	Ex nA IIC T4 Gc
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes
global warming potential [CO2 eq]			
• total	195.91999 kg	195.91999 kg	195.91999 kg
• during manufacturing	29.7 kg	29.7 kg	29.7 kg
• during operation	166.06 kg	166.06 kg	166.06 kg
• after end of life	0.16 kg	0.16 kg	0.16 kg
accessories			
accessories	24 V DC screw terminal included in scope of delivery	24 V DC screw terminal included in scope of delivery	24 V DC screw terminal included in scope of delivery
further information internet links			
internet link			
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: WLAN country approval	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals
• to the website: IWLAN	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
	0.25 A	0.25 A	0.25 A

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Overview



- Suitable for use in industrial and automation applications in general, but especially in railway applications where the access point is to be mounted in the control cabinet

Selection and ordering data

	Article No.
SCALANCE W774 M12 EEC access points IWLAN Access Points with built-in wireless interface; wireless networks IEEE 802.11a/b/g/h/n at 2.4/5 GHz up to 300 Mbps; railway approval in accordance with EN 50155; conformal coating; WPA2/AES; Power over Ethernet (PoE), IP20 degree of protection; scope of delivery: Mounting hardware; manual on CD-ROM, English/German	
SCALANCE W774-1 M12 EEC IWLAN access point with one integrated wireless interface	
• Country approvals for operation outside the USA	**6GK5774-1FY00-0TA0**
• Country approvals for operation within the USA[1)]	**6GK5774-1FY00-0TB0**

1) Please note country approvals under http://www.siemens.com/wireless-approvals

Accessories

	Article No.
KEY-PLUG W780 iFeatures Removable data storage medium for enabling additional iFeatures, simple device replacement in the event of a fault and storage of configuration data; can be used in SCALANCE W access points with PLUG slot	**6GK5907-8PA00**
C-PLUG Removable data storage medium for simple device replacement in the event of a fault; for storing configuration data; can be used in SIMATIC NET products with PLUG slot	**6GK1900-0AB10**
IE FC M12 plug PRO 2 x 2 M12 plug-in connector (D-coded, IP65/IP67) suitable for on-site assembly, metal enclosure, FastConnect connection system, for SCALANCE W774-1 M12 EEC	
• 1 unit	**6GK1901-0DB20-6AA0**
• 8 units	**6GK1901-0DB30-6AA8**
IE FC standard cable GP 2 x 2 (type A) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/ IE FC RJ45 plug; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1840-2AH10**
IE FC stripping tool Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables	**6GK1901-1GA00**
Power M12 cable connector PRO Terminal socket for connection of SCALANCE W700 for 24 V DC supply voltage; 4-pin, A-coded, with installation instructions, 3 units	**6GK1907-0DC10-6AA3**
Power cable 2 x 0.75 Connecting cable for Power M12 cable connector PRO, sold by the meter	**6XV1812-8A**
Antennas and additional IWLAN accessories	See Industrial Wireless LAN/Accessories

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Technical specifications

Article number product type designation [1]	6GK5774-1FY00-0TA0 W774-1 M12 EEC	6GK5774-1FY00-0TB0 W774-1 M12 EEC (USA)
product brand name	SCALANCE	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5774-1FY00-0TA0	https://i.siemens.com/1P6GK5774-1FY00-0TB0
transfer rate		
transfer rate		
• with WLAN maximum	300 Mbit/s	300 Mbit/s
• for Industrial Ethernet	10 Mbit/s, 100 Mbit/s	10 Mbit/s, 100 Mbit/s
interfaces		
number of electrical connections		
• for network components or terminal equipment	2	2
• for power supply	1	1
• for redundant voltage supply	1	1
type of electrical connection		
• for network components or terminal equipment	M12 interface (4-pole, D-coded), PoE	M12 interface (4-pole, D-coded), PoE
• for power supply	M12 interface (4-pole, A-coded)	M12 interface (4-pole, A-coded)
memory		
design of the removable storage		
• C-PLUG	Yes	Yes
• KEY-PLUG	Yes	Yes
interfaces wireless		
number of radio cards permanently installed	1	1
transmission mode for multiple input multiple output (MIMO)	2x2	2x2
number of spatial streams	2	2
number of electrical connections for external antenna(s)	2	2
type of electrical connection for external antenna(s)	R-SMA (socket)	R-SMA (socket)
product feature external antenna can be mounted directly on device	Yes	Yes
supply voltage, current consumption, power loss		
type of voltage of the supply voltage	DC	DC
supply voltage		
• from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af	48 V	48 V
consumed current		
• at DC at 24 V typical	0.25 A	0.25 A
power loss [W]		
• at DC at 24 V typical	6 W	6 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af typical	6 W	6 W
supply voltage 1		
• from M12 Power Connector (A-coded) for redundant power supply	16.8 V	
supply voltage 2		
• from M12 Power Connector (A-coded) for redundant power supply	31.2 V	
ambient conditions		
ambient temperature		
• during operation	-30 ... +65 °C	-30 ... +65 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C
relative humidity at 25 °C without condensation during operation maximum	100 %	100 %
ambient condition for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 M12 EEC product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 M12 EEC product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
protection class IP	IP30	IP30

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Technical specifications (continued)

Article number	6GK5774-1FY00-0TA0	6GK5774-1FY00-0TB0
product type designation [1]	W774-1 M12 EEC	W774-1 M12 EEC (USA)
design, dimensions and weights		
width	26 mm	26 mm
height	156 mm	156 mm
depth	127 mm	127 mm
width of the enclosure without antenna	26 mm	26 mm
height of the enclosure without antenna	147 mm	147 mm
depth of the enclosure without antenna	127 mm	127 mm
net weight	0.52 kg	0.52 kg
product feature conformal coating	Yes	Yes
fastening method	wall mounting only if flat mounted	wall mounting only if flat mounted
• S7-300 rail mounting	Yes	Yes
• S7-1500 rail mounting	Yes	Yes
• 35 mm DIN-rail mounting	Yes	Yes
• wall mounting	Yes	Yes
radio frequencies		
operating frequency		
• for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals
• for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals
product features, product functions, product components general		
product function Access Point Mode	Yes	Yes
product function client Mode	Yes	Yes
number of SSIDs	4	4
product function		
• iPCF Access Point	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures'
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
• iPCF-MC Access Point	No	No
• iPCF-MC client	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W740 iFeatures'
number of iPCF-capable radio modules	1	1
product function iREF	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
number of iREF-capable radio modules	1	1
product function iPRP	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only	Yes; In combination with the 'KEY-PLUG W780 iFeatures' only

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Technical specifications (continued)

Article number product type designation [1]	6GK5774-1FY00-0TA0 W774-1 M12 EEC	6GK5774-1FY00-0TB0 W774-1 M12 EEC (USA)
product functions management, configuration, engineering		
number of manageable IP addresses in client	8	8
product function		
• CLI	Yes	Yes
• web-based management	Yes	Yes
• MIB support	Yes	Yes
• TRAPs via email	Yes	Yes
• configuration with STEP 7	Yes	Yes
• configuration with STEP 7 in the TIA Portal	Yes	Yes
• operation with IWLAN controller	No	No
• operation with Enterasys WLAN controller	No	No
• forced roaming on IP down with IWLAN	Yes	Yes
• forced roaming on link down with IWLAN	Yes	Yes
• WDS	Yes	Yes
protocol is supported		
• Address Resolution Protocol (ARP)	Yes	Yes
• ICMP	Yes	Yes
• Telnet	Yes	Yes
• HTTP	Yes	Yes
• HTTPS	Yes	Yes
• TFTP	Yes	Yes
• DCP	Yes	Yes
• LLDP	Yes	Yes
identification & maintenance function		
• I&M0 - device-specific information	Yes	Yes
• I&M1 - higher level designation/location designation	Yes	Yes
product function is supported identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
product functions diagnostics		
product function		
• PROFINET IO diagnosis	Yes	Yes
• link check	No	No
• connection monitoring IP-Alive	No	No
• localization via Aeroscout	Yes	Yes
• SysLog	Yes	Yes
protocol is supported		
• SNMP v1	Yes	Yes
• SNMP v2	Yes	Yes
• SNMP v3	Yes	Yes
product functions VLAN		
product function		
• function VLAN with IWLAN	Yes	Yes
product functions DHCP		
product function		
• DHCP client	Yes	Yes
• DHCP server	Yes	Yes
• DHCP Option 82	Yes	Yes
product functions redundancy		
protocol is supported		
• STP/RSTP	Yes	Yes
• MSTP	Yes	Yes
• RSTP	Yes	Yes

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Technical specifications (continued)

Article number	6GK5774-1FY00-0TA0	6GK5774-1FY00-0TB0
product type designation [1]	W774-1 M12 EEC	W774-1 M12 EEC (USA)
product functions security		
product function		
• ACL - MAC-based	Yes	Yes
• management security, ACL-IP based	Yes	Yes
• IEEE 802.1x (radius)	Yes	Yes
• NAT/NAPT	Yes	Yes
• access protection according to IEEE802.11i	Yes	Yes
• WPA/WPA2	Yes	Yes
• TKIP/AES	Yes	Yes
protocol is supported		
• SSH	Yes	Yes
• RADIUS	Yes	Yes
product functions time		
protocol is supported		
• NTP	Yes	Yes
• SNTP	Yes	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes	Yes
standards, specifications, approvals		
standard		
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
• for safety from CSA and UL	UL 60950-1 E115352, CSA C22.2 No. 60950-1	UL 60950-1 E115352, CSA C22.2 No. 60950-1
certificate of suitability		
• EC Declaration of Conformity	Yes	Yes
• CE marking	Yes	Yes
• C-Tick	Yes	Yes
• E1 approval	Yes	Yes
• railway application in accordance with EN 50155	Yes	Yes
• railway application in accordance with EN 50121-4	Yes	Yes
• fire protection in accordance with EN 45545-2	Yes	Yes
• NEMA TS2	No	No
• IEC 61375	No	No
• IEC 61850-3	No	No
• NEMA4X	No	No
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	Yes	Yes
• Power-over-Ethernet according to IEEE802.3at for type 2	Yes	Yes
standard for wireless communication		
• IEEE 802.11a	Yes	Yes
• IEEE 802.11b	Yes	Yes
• IEEE 802.11e	Yes	Yes
• IEEE 802.11g	Yes	Yes
• IEEE 802.11h	Yes	Yes
• IEEE 802.11i	Yes	Yes
• IEEE 802.11n	Yes	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen	You will find the current list of countries at: www.siemens.de/funkzulassungen

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Technical specifications (continued)

Article number product type designation [1]	6GK5774-1FY00-0TA0 W774-1 M12 EEC	6GK5774-1FY00-0TB0 W774-1 M12 EEC (USA)
standards, specifications, approvals marine classification		
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes
• French marine classification society (BV)	Yes	Yes
• DNV GL	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes
• Nippon Kaiji Kyokai (NK)	Yes	Yes
• Polski Rejestr Statkow (PRS)	Yes	Yes
• Royal Institution of Naval Architects (RINA)	Yes	Yes
standards, specifications, approvals hazardous environments		
standard for hazardous zone	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X	EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• from CSA and UL	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480	ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC E240480
certificate of suitability CCC for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8	Yes; GB3836.1, GB3836.8
• as marking	Ex nA IIC T4 Gc	Ex nA IIC T4 Gc
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
global warming potential [CO2 eq]		
• total	195.91999 kg	195.91999 kg
• during manufacturing	29.7 kg	29.7 kg
• during operation	166.06 kg	166.06 kg
• after end of life	0.16 kg	0.16 kg
further information internet links		
internet link		
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: WLAN country approval	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals
• to the website: IWLAN	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com
	0.25 A	0.25 A

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Overview



- Removable data storage medium with which iFeatures and security features are enabled
- If a fault occurs, it allows fast and simple device replacement of SCALANCE W components without a PG
- Can be used in all SCALANCE W700 IEEE 802.11n products with a PLUG compartment
- For the automatic backup of configuration data

Mode of operation

During startup, the device automatically backs up the configuration data on a KEY-PLUG (as-supplied from the factory) plugged into a SCALANCE W component. Changes to the configuration during operation are also saved on the KEY-PLUG without any additional operator intervention being necessary.

During startup, an unconfigured device automatically loads the configuration data from an inserted KEY-PLUG that has been written, provided the data was written by a compatible device type.

Diagnostics

Incorrect use of the KEY-PLUG, such as inserting a KEY-PLUG containing the configuration of a different device group or general malfunctions of the KEY-PLUG, are indicated by diagnostics mechanisms of the respective terminal device (LEDs, SNMP, web-based management, etc.).

Selection and ordering data

	Article No.
KEY-PLUG W780 iFeatures Removable data storage medium for enabling additional iFeatures, for simple device replacement in the event of a fault, and for storing configuration data. Can be used in SCALANCE W access points with a PLUG slot	**6GK5907-8PA00**
KEY-PLUG W740 iFeatures Removable data storage medium for enabling additional iFeatures, for simple device replacement in the event of a fault, and for storing configuration data. Can be used in SCALANCE W client modules with a PLUG slot	**6GK5907-4PA00**
KEY-PLUG W700 Security Removable data storage medium for enabling security features for SCALANCE W700, for simple device replacement in the event of a fault, and for storing configuration data.	**6GK5907-0PA00**

Technical specifications

KEY-PLUG W700	
Supply voltage	Via terminal device
Power loss	0.015 mW
Installation	Can be plugged into C-PLUG slot
Constructional design	
• Dimensions (W x H x D) in mm	24.3 x 17 x 8.1
• Approx. weight	5 g
Memory capacity	256 MB
Degree of protection	IP20

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Overview



- Removable data storage medium with which iFeatures and security features are enabled
- If a fault occurs, it allows fast and simple device replacement of SCALANCE W components without a PG
- Can be used in all SCALANCE W700 IEEE 802.11ac and IEEE 802.11ax products with a CLP slot
- For the automatic backup of configuration data

Mode of operation

During startup, the device automatically backs up the configuration data on a CLP (as-supplied from the factory) plugged into a SCALANCE W component. Changes to the configuration during operation are also saved on the CLP without requiring any additional operator intervention.

During startup, an unconfigured device automatically loads the configuration data from an inserted, written CLP, provided the data were written by a compatible device type.

Diagnostics

Incorrect use of the CLP, such as inserting a CLP containing the configuration of a different device group or general malfunctions of the CLP, are indicated by diagnostics mechanisms of the respective terminal device (LEDs, SNMP, web-based management, etc.).

Selection and ordering data

	Article No.
SCALANCE CLP 2GB W700 Client iFeatures Removable data storage medium for enabling iFeatures for SCALANCE W in client mode, enables easy device replacement in the event of a fault, as well as storage of configuration data or engineering and application data, for all SCALANCE W1700 devices.	**6GK5907-4UA00-0AA0**
SCALANCE CLP 2GB W700 AP iFeatures Removable data storage medium for enabling iFeatures for SCALANCE W in access point mode, enables easy device replacement in the event of a fault, as well as storage of configuration data or engineering and application data, for all SCALANCE W1700 devices.	**6GK5907-8UA00-0AA0**

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Technical specifications

Article number	6GK5907-4UA00-0AA0	6GK5907-8UA00-0AA0
product type designation		
product brand name	SCALANCE	SCALANCE
product type designation	CLP 2GB W700 Client iFeatures	CLP 2GB W700 AP iFeatures
product description	removable data storage medium for activating iFeatures for SCALANCE W in client mode and for simple device replacement in an error case	removable data storage medium for activating iFeatures for SCALANCE in access point or client mode and for simple device replacement in an error case
Technical Product Detail Page	https://i.siemens.com/1P6GK5907-4UA00-0AA0	https://i.siemens.com/1P6GK5907-8UA00-0AA0
suitability for use	activation of SCALANCE W iFeatures, e.g. iPRP, iPCF-2, etc.	activation of SCALANCE W iFeatures, e.g. iPRP, iPCF-2, etc.
suitability for operation	SCALANCE W devices greater than or equal to Wi-Fi 5	SCALANCE W devices greater than or equal to Wi-Fi 5
ambient conditions		
ambient temperature		
• during operation	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C
relative humidity		
• at 25 °C without condensation during operation maximum	95 %	95 %
protection class IP	IP20	IP20
design, dimensions and weights		
width	17.5 mm	17.5 mm
height	7 mm	7 mm
depth	32 mm	32 mm
net weight	3.1 g	3.1 g
product feature conformal coating	No	No
product features, product functions, product components general		
storage capacity	2 048 Mibyte	2 048 Mibyte
standards, specifications, approvals		
MTBF	343 a	343 a
range of validity for MTBF determination	at 25 °C	at 25 °C
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
global warming potential [CO2 eq]		
• total	1 264 kg	1 264 kg
• during manufacturing	0.92 kg	0.92 kg
• during operation	0.34 kg	0.34 kg
• after end of life	0.0042 kg	0.0042 kg
further information internet links		
internet link		
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com
security information		
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are

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Technical specifications (continued)

Article number	6GK5907-4UA00-0AA0	6GK5907-8UA00-0AA0
	responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview



Industrial access point according to IEEE 802.11ax (WiFi 6).

- Particularly suitable for industrial applications with cabinet-free setup

Selection and ordering data

	Article No.
SCALANCE WAM766-1 access points IWLAN access point; 1 radio, 2.4/5 GHz, 2 N-Connect connectors, iFeatures support via CLP, IEEE 802.11ax (Wi-Fi 6), 1201 Mbps (gross) per radio, 1x10/100/1000 Mbps M12 port, redundant 24 V DC, M12 L-coded, PoE, IP65 (non-EEC variant: -30 °C to +60 °C; EEC variant: -30 °C to +75 °C), CLP slot, DI/DQ, A-coded, note country approvals! CERT ID: MSAX65-W1-M12-E2, FCCID: LYHMSAX*, scope of delivery: Manuals on DVD, English/German, sealing caps for connectors	
SCALANCE WAM766-1	
• Country approvals for operation outside the USA/Israel[1)]	**6GK5766-1GE00-7DA0**
• Country approval for operation in the USA[1)]	**6GK5766-1GE00-7DB0**
SCALANCE WAM766-1 EEC	
• Country approvals for operation outside the USA/ME[1)]	**6GK5766-1GE00-7TA0**
• Country approval for operation in the USA[1)]	**6GK5766-1GE00-7TB0**
• Country approval for operation in Egypt[1)]	**6GK5766-1GE00-7DC0**

1) Please note country approvals under http://www.siemens.com/wireless-approvals

Accessories

	Article No.
SCALANCE CLP 2GB Removable data storage medium for simple device replacement in the event of a fault and storage of configuration data; can be used in SIMATIC NET products with CLP slot	**6GK1900-0UB00-0AA0**
SCALANCE CLP EEC 2GB Removable data storage medium for simple device replacement in the event of a fault and storage of configuration data; can be used in SIMATIC NET products with CLP slot	**6GK1900-0UQ00-0AA0**
SCALANCE CLP 2GB W700 AP iFeatures Removable data storage medium for simple device replacement in the event of a fault and storage of configuration data; can be used in SIMATIC NET products with CLP slot	**6GK5907-8UA00-0AA0**
IE TP cord M12/M12 4 x 2 Pre-assembled flexible connecting cable 4 x 2 with two M12 plugs (X-coded)	
• 0.3 m	**6XV1878-5HE30**
• 0.5 m	**6XV1878-5HE50**
• 1 m	**6XV1878-5HH10**
• 1.5 m	**6XV1878-5HH15**
• 2 m	**6XV1878-5HH20**
• 3 m	**6XV1878-5HH30**
• 5 m	**6XV1878-5HH50**
• 10 m	**6XV1878-5HN10**
• 15 m	**6XV1878-5HN15**
IE FC standard cable GP 4 x 2 8-core, shielded TP installation cable for connection to IE FC RJ45 plug 4 x 2 and IE M12 plug PRO 4 x 2; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1878-2A**
IE FC M12 plug PRO 4 x 2 M12 plug-in connector suitable for on-site assembly (X-coded, IP65/IP67), metal enclosure, insulation displacement fast connection method, for SCALANCE W	
• 1 unit	**6GK1901-0DB30-6AA0**
• 8 units	**6GK1901-0DB30-6AA8**
Antennas and additional IWLAN accessories	See Industrial Wireless LAN/Accessories

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Technical specifications

Article number	6GK5766-1GE00-7DA0	6GK5766-1GE00-7DB0	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7DC0
product type designation [1]	WAM766-1	WAM766-1 (USA)	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
product brand name	SCALANCE	SCALANCE	SCALANCE	SCALANCE	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5766-1GE00-7DA0	https://i.siemens.com/1P6GK5766-1GE00-7DB0	https://i.siemens.com/1P6GK5766-1GE00-7TA0	https://i.siemens.com/1P6GK5766-1GE00-7TB0	https://i.siemens.com/1P6GK5766-1GE00-7DC0
suitability for use	www.siemens.com/iwlan	www.siemens.com/iwlan	www.siemens.com/iwlan	www.siemens.com/iwlan	www.siemens.com/iwlan
transfer rate					
transfer rate					
• with WLAN maximum	1 201 Mbit/s	1 201 Mbit/s	1 201 Mbit/s	1 201 Mbit/s	1 201 Mbit/s
• for Industrial Ethernet	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s
interfaces					
number of electrical/optical connections for network components or terminal equipment maximum note	1	1	1	1	1
number of electrical/optical connections for gigabit Ethernet maximum	1	1	1	1	1
number of electrical connections					
• for network components or terminal equipment	1	1	1	1	1
• for power supply	1	1	1	1	1
• for redundant voltage supply	1	1	1	1	1
type of electrical connection					
• for network components or terminal equipment	M12 interface (8-pole, X-coded), PoE	M12 interface (8-pole, X-coded), PoE	M12 interface (8-pole, X-coded), PoE	M12 interface (8-pole, X-coded), PoE	M12 interface (8-pole, X-coded), PoE
• for redundant voltage supply	M12 interface (4-pin, L-coded)	M12 interface (4-pin, L-coded)	M12 interface (4-pin, L-coded)	M12 interface (4-pin, L-coded)	M12 interface (4-pin, L-coded)
memory					
design of the removable storage					
• CLP	Yes	Yes	Yes	Yes	Yes
• CLP iFeatures	Yes	Yes	Yes	Yes	Yes
interfaces wireless					
number of radio cards permanently installed	2	2	2	2	2
number of radio interfaces parallel operable					2
transmission mode for multiple input multiple output (MIMO)	2x2	2x2	2x2	2x2	2x2
number of spatial streams	2	2	2	2	2
number of electrical connections for external antenna(s)	2	2	2	2	2
type of electrical connection for external antenna(s)	N-Connect (socket)	N-Connect (socket)	N-Connect (socket)	N-Connect (socket)	N-Connect (socket)
product feature external antenna can be mounted directly on device	Yes	Yes	Yes	Yes	Yes
signal inputs/outputs					
number of digital inputs	1	1	1	1	1
number of digital outputs	1	1	1	1	1
type of electrical connection at the digital inputs/outputs	M12 interface (4-pin, A-coded)	M12 interface (4-pin, A-coded)	M12 interface (4-pin, A-coded)	M12 interface (4-pin, A-coded)	M12 interface (4-pin, A-coded)
input voltage at digital input at DC	-30 ... +30 V	-30 ... +30 V	-30 ... +30 V	-30 ... +30 V	-30 ... +30 V
output voltage at digital output at DC maximum	24 V; 0,5 A	24 V; 0,5 A	24 V; 0,5 A	24 V; 0,5 A	24 V; 0,5 A
operational current of the signaling contacts at DC at 30 V maximum	0.008 A	0.008 A	0.008 A	0.008 A	0.008 A

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Technical specifications (continued)

Article number	6GK5766-1GE00-7DA0	6GK5766-1GE00-7DB0	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7DC0
product type designation [1]	WAM766-1	WAM766-1 (USA)	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
supply voltage, current consumption, power loss					
type of voltage of the supply voltage	Redundant 24 V DC Power Supply, M12, L-coded	Redundant 24 V DC Power Supply, M12, L-coded	Redundant 24 V DC Power Supply, M12, L-coded	Redundant 24 V DC Power Supply, M12, L-coded	Redundant 24 V DC Power Supply, M12, L-coded
supply voltage					
• from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af	48 V	48 V	48 V	48 V	48 V
consumed current					
• at DC at 24 V	0.55 A	0.55 A	0.55 A	0.55 A	0.55 A
• at DC at 24 V sleep mode maximum	0.013 A	0.013 A	0.013 A	0.013 A	0.013 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af typical	0.27 A	0.27 A	0.27 A	0.27 A	0.27 A
power loss [W]					
• at DC at 24 V	13.2 W	13.2 W	13.2 W	13.2 W	13.2 W
• at DC at 24 V sleep mode maximum	0.3 W	0.3 W	0.3 W	0.3 W	0.3 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af typical	12.96 W	12.96 W	12.96 W	12.96 W	12.96 W
supply voltage 1					
• from M12 power Connector (L-coded) for redundant voltage supply	24 V	24 V	24 V	24 V	24 V
supply voltage 1 rated value	24 V	24 V	24 V	24 V	24 V
• type of voltage 1 of the supply voltage	DC	DC	DC	DC	DC
supply voltage 2					
• from M12 power Connector (L-coded) for redundant voltage supply	24 V	24 V	24 V	24 V	24 V
supply voltage 2 rated value	24 V	24 V	24 V	24 V	24 V
• type of voltage 2 of the supply voltage	DC	DC	DC	DC	DC
supply voltage 3 rated value	48 V	48 V	48 V	48 V	48 V
• type of voltage 3 of the supply voltage	DC, PoE	DC, PoE	DC, PoE	DC, PoE	DC, PoE
ambient conditions					
ambient temperature					
• during operation	-30 ... +60 °C	-30 ... +60 °C	-30 ... +75 °C	-30 ... +75 °C	-30 ... +60 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
relative humidity at 25 °C without condensation during operation maximum	90 %	90 %	90 %	90 %	90 %
protection class IP	IP65	IP65	IP65/IP67	IP65/IP67	IP65

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Technical specifications (continued)

Article number	6GK5766-1GE00-7DA0	6GK5766-1GE00-7DB0	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7DC0
product type designation [1]	WAM766-1	WAM766-1 (USA)	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
design, dimensions and weights					
width	150 mm	150 mm	150 mm	150 mm	150 mm
height	179.5 mm	179.5 mm	179.5 mm	179.5 mm	179.5 mm
depth	45 mm	45 mm	45 mm	45 mm	45 mm
width of the enclosure without antenna	150 mm	150 mm	150 mm	150 mm	150 mm
height of the enclosure without antenna	179.5 mm	179.5 mm	179.5 mm	179.5 mm	179.5 mm
depth of the enclosure without antenna	45 mm	45 mm	45 mm	45 mm	45 mm
net weight	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg
product feature conformal coating			Yes	Yes	
fastening method	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.
• S7-300 rail mounting	Yes	Yes	Yes	Yes	Yes
• S7-1500 rail mounting	Yes	Yes	Yes	Yes	Yes
• 35 mm DIN-rail mounting	Yes	Yes	Yes	Yes	Yes
• wall mounting	Yes	Yes	Yes	Yes	Yes
• VESA mounting	Yes; 75 x 75mm	Yes; 75 x 75mm	Yes; 75 x 75mm	Yes; 75 x 75mm	Yes; 75 x 75mm
radio frequencies					
operating frequency					
• for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals
• for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals
product features, product functions, product components general					
product function Access Point Mode	Yes	Yes	Yes	Yes	Yes
product function client Mode	Yes	Yes	Yes	Yes	Yes
number of SSIDs	8	8	8	8	8
product function					
• iPCF Access Point	No	No	No	No	No
• iPCF-2 access point	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.
• iPCF client	No	No	No	No	No
• iPCF-2 client	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.
product function iPRP	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6GK5766-1GE00-7DA0	6GK5766-1GE00-7DB0	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7DC0
product type designation [1]	WAM766-1	WAM766-1 (USA)	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
product functions management, configuration, engineering					
number of manageable IP addresses in client	2	2	2	2	2
product function					
• CLI	Yes	Yes	Yes	Yes	Yes
• web-based management	Yes	Yes	Yes	Yes	Yes
• MIB support	Yes	Yes	Yes	Yes	Yes
• TRAPs via email	Yes	Yes	Yes	Yes	Yes
• configuration with STEP 7	Yes	Yes	Yes	Yes	Yes
• configuration with STEP 7 in the TIA Portal	Yes	Yes	Yes	Yes	Yes
• WDS	No	No	No	No	No
protocol is supported					
• Address Resolution Protocol (ARP)	Yes	Yes	Yes	Yes	Yes
• ICMP	Yes	Yes	Yes	Yes	Yes
• Telnet	Yes	Yes	Yes	Yes	Yes
• HTTP	Yes	Yes	Yes	Yes	Yes
• HTTPS	Yes	Yes	Yes	Yes	Yes
• TFTP	Yes	Yes	Yes	Yes	Yes
• DCP	Yes	Yes	Yes	Yes	Yes
• LLDP	Yes	Yes	Yes	Yes	Yes
identification & maintenance function					
• I&M0 - device-specific information	Yes	Yes	Yes	Yes	Yes
• I&M1 - higher level designation/location designation	Yes	Yes	Yes	Yes	Yes
product function is supported identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
product functions diagnostics					
product function					
• PROFINET IO diagnosis	Yes	Yes	Yes	Yes	Yes
• SysLog	Yes	Yes	Yes	Yes	Yes
protocol is supported					
• SNMP v1	Yes	Yes	Yes	Yes	Yes
• SNMP v2	Yes	Yes	Yes	Yes	Yes
• SNMP v3	Yes	Yes	Yes	Yes	Yes
product functions VLAN					
product function					
• function VLAN with IWLAN	Yes	Yes	Yes	Yes	Yes
number of VLANs maximum	24	24	24	24	24
product functions DHCP					
product function					
• DHCP client	Yes	Yes	Yes	Yes	Yes
product functions redundancy					
protocol is supported					
• STP/RSTP	Yes	Yes	Yes	Yes	Yes
• MSTP	Yes	Yes	Yes	Yes	Yes
• RSTP	Yes	Yes	Yes	Yes	Yes
product function					
• redundancy procedure MSTP	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6GK5766-1GE00-7DA0	6GK5766-1GE00-7DB0	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7DC0
product type designation [1]	WAM766-1	WAM766-1 (USA)	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
product functions security					
product function					
• management security, ACL-IP based	No	No	No	No	No
• IEEE 802.1x (radius)	Yes	Yes	Yes	Yes	Yes
• NAT/NAPT	Yes	Yes	Yes	Yes	Yes
• access protection according to IEEE802.11i	Yes	Yes	Yes	Yes	Yes
• WPA/WPA2	Yes	Yes	Yes	Yes	Yes
• WPA3	Yes	Yes	Yes	Yes	Yes
• TKIP/AES	Yes	Yes	Yes	Yes	Yes
• RADIUS client	Yes	Yes	Yes	Yes	Yes
protocol is supported					
• SSH	Yes	Yes	Yes	Yes	Yes
key length					
• with SSL	4 096 bit	4 096 bit	4 096 bit	4 096 bit	4 096 bit
product functions time					
protocol is supported					
• NTP	Yes	Yes	Yes	Yes	Yes
• SNTP	Yes	Yes	Yes	Yes	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes	Yes	Yes	Yes	Yes
standards, specifications, approvals					
certificate of suitability					
• EC Declaration of Conformity	Yes	Yes	Yes	Yes	Yes
• CE marking	Yes	Yes	Yes	Yes	Yes
• E1 approval	Yes	Yes	Yes	Yes	Yes
• railway application in accordance with EN 50155			Yes	Yes	
• railway application in accordance with EN 50121-4			Yes	Yes	
• fire protection in accordance with EN 45545-2			Yes	Yes	
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	Yes	Yes	Yes	Yes	Yes
standard for wireless communication					
• IEEE 802.11a	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11b	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11e	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11g	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11h	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11i	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11n	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11ac	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11ax	Yes	Yes	Yes	Yes	Yes
• IEEE 802.11r	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6GK5766-1GE00-7DA0	6GK5766-1GE00-7DB0	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7DC0
product type designation [1]	WAM766-1	WAM766-1 (USA)	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
wireless approval	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device
MTBF	24 a	24 a	24 a	24 a	24 a
• reference temperature	40 °C	40 °C	40 °C	40 °C	40 °C
standards, specifications, approvals hazardous environments					
standard for hazardous zone	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc
• from CSA and UL	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480
standards, specifications, approvals Environmental Product Declaration					
Environmental Product Declaration	Yes	Yes	Yes	Yes	Yes
global warming potential [CO2 eq]					
• total	395.329 kg	394.88999 kg	394.88999 kg	394.88999 kg	394.88999 kg
• during manufacturing	33.7 kg	33.7 kg	33.7 kg	33.7 kg	33.7 kg
• during operation	361 kg	361 kg	361 kg	361 kg	361 kg
• after end of life	0.191 kg	0.19 kg	0.19 kg	0.19 kg	0.19 kg
further information internet links					
internet link					
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: WLAN country approval	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals
• to the website: IWLAN	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
	0.55 A	0.55 A	0.55 A	0.55 A	0.55 A

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Overview



Industrial access point according to IEEE 802.11ax (WiFi 6).

- Particularly suitable for industrial applications with cabinet-free setup

Selection and ordering data

	Article No.
SCALANCE WAM766-1 EEC access points IWLAN access point; 1 radio, 2.4/5 GHz, 2 N-Connect connectors, iFeatures support via CLP, IEEE 802.11ax (Wi-Fi 6), 1201 Mbps (gross) per radio, 1x10/100/1000 Mbps M12 socket, redundant 24 V DC, M12 L-coded, PoE, IP65 (-30 °C to +75 °C), CLP slot, DI/DQ, A-coded, note country approvals! CERT ID: MSAX65-W1-M12-E2, FCCID: LYHMSAX*, scope of delivery: Manuals on DVD, English/German, sealing caps for connectors	
SCALANCE WAM766-1 EEC	
• Country approvals for operation outside the USA/ME[1)]	**6GK5766-1GE00-7TA0**
• Country approval for operation in the USA[1)]	**6GK5766-1GE00-7TB0**
• Country approval for operation in Egypt[1)]	**6GK5766-1GE00-7TC0**

1) Please note country approvals under http://www.siemens.com/wireless-approvals

Accessories

	Article No.
SCALANCE CLP EEC 2GB Removable data storage medium for simple device replacement in the event of a fault and storage of configuration data; can be used in SIMATIC NET products with CLP slot	**6GK1900-0UQ00-0AA0**
SCALANCE CLP 2GB W700 AP iFeatures Removable data storage medium for simple device replacement in the event of a fault and storage of configuration data; can be used in SIMATIC NET products with CLP slot	**6GK5907-8UA00-0AA0**
IE TP cord M12/M12 4 x 2 Pre-assembled flexible connecting cable 4 x 2 with two M12 plugs (X-coded)	
• 0.3 m	**6XV1878-5HE30**
• 0.5 m	**6XV1878-5HE50**
• 1 m	**6XV1878-5HH10**
• 1.5 m	**6XV1878-5HH15**
• 2 m	**6XV1878-5HH20**
• 3 m	**6XV1878-5HH30**
• 5 m	**6XV1878-5HH50**
• 10 m	**6XV1878-5HN10**
• 15 m	**6XV1878-5HN15**
IE FC standard cable GP 4 x 2 8-core, shielded TP installation cable for connection to IE FC RJ45 plug 4 x 2 and IE M12 plug PRO 4 x 2; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1878-2A**
IE FC M12 plug PRO 4 x 2 M12 plug-in connector suitable for on-site assembly (X-coded, IP65/IP67), metal enclosure, insulation displacement fast connection method, for SCALANCE W	
• 1 unit	**6GK1901-0DB30-6AA0**
• 8 units	**6GK1901-0DB30-6AA8**
Antennas and additional IWLAN accessories	See Industrial Wireless LAN/Accessories

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Technical specifications

Article number	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7TC0
product type designation [1]	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 EEC (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
product brand name	SCALANCE	SCALANCE	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5766-1GE00-7TA0	https://i.siemens.com/1P6GK5766-1GE00-7TB0	https://i.siemens.com/1P6GK5766-1GE00-7TC0
suitability for use	www.siemens.com/iwlan	www.siemens.com/iwlan	www.siemens.com/iwlan
transfer rate			
transfer rate			
• with WLAN maximum	1 201 Mbit/s	1 201 Mbit/s	1 201 Mbit/s
• for Industrial Ethernet	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s
interfaces			
number of electrical/optical connections for network components or terminal equipment maximum note	1	1	1
number of electrical/optical connections for gigabit Ethernet maximum	1	1	1
number of electrical connections			
• for network components or terminal equipment	1	1	1
• for power supply	1	1	1
• for redundant voltage supply	1	1	1
type of electrical connection			
• for network components or terminal equipment	M12 interface (8-pole, X-coded), PoE	M12 interface (8-pole, X-coded), PoE	M12 interface (8-pole, X-coded), PoE
• for redundant voltage supply	M12 interface (4-pin, L-coded)	M12 interface (4-pin, L-coded)	M12 interface (4-pin, L-coded)
memory			
design of the removable storage			
• CLP	Yes	Yes	Yes
• CLP iFeatures	Yes	Yes	Yes
interfaces wireless			
number of radio cards permanently installed	2	2	2
number of radio interfaces parallel operable			2
transmission mode for multiple input multiple output (MIMO)	2x2	2x2	2x2
number of spatial streams	2	2	2
number of electrical connections for external antenna(s)	2	2	2
type of electrical connection for external antenna(s)	N-Connect (socket)	N-Connect (socket)	N-Connect (socket)
product feature external antenna can be mounted directly on device	Yes	Yes	Yes
signal inputs/outputs			
number of digital inputs	1	1	1
number of digital outputs	1	1	1
type of electrical connection at the digital inputs/outputs	M12 interface (4-pin, A-coded)	M12 interface (4-pin, A-coded)	M12 interface (4-pin, A-coded)
input voltage at digital input at DC	-30 ... +30 V	-30 ... +30 V	-30 ... +30 V
output voltage at digital output at DC maximum	24 V; 0,5 A	24 V; 0,5 A	24 V; 0,5 A
operational current of the signaling contacts at DC at 30 V maximum	0.008 A	0.008 A	0.008 A

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Technical specifications (continued)

Article number	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7TC0
product type designation [1]	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 EEC (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
supply voltage, current consumption, power loss			
type of voltage of the supply voltage	Redundant 24 V DC Power Supply, M12, L-coded	Redundant 24 V DC Power Supply, M12, L-coded	Redundant 24 V DC Power Supply, M12, L-coded
supply voltage			
• from Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af	48 V	48 V	48 V
consumed current			
• at DC at 24 V	0.55 A	0.55 A	0.55 A
• at DC at 24 V sleep mode maximum	0.013 A	0.013 A	0.013 A
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af typical	0.27 A	0.27 A	0.27 A
power loss [W]			
• at DC at 24 V	13.2 W	13.2 W	13.2 W
• at DC at 24 V sleep mode maximum	0.3 W	0.3 W	0.3 W
• with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af typical	12.96 W	12.96 W	12.96 W
supply voltage 1			
• from M12 power Connector (L-coded) for redundant voltage supply	24 V	24 V	24 V
supply voltage 1 rated value	24 V	24 V	24 V
• type of voltage 1 of the supply voltage	DC	DC	DC
supply voltage 2			
• from M12 power Connector (L-coded) for redundant voltage supply	24 V	24 V	24 V
supply voltage 2 rated value	24 V	24 V	24 V
• type of voltage 2 of the supply voltage	DC	DC	DC
supply voltage 3 rated value	48 V	48 V	48 V
• type of voltage 3 of the supply voltage	DC, PoE	DC, PoE	DC, PoE
ambient conditions			
ambient temperature			
• during operation	-30 ... +75 °C	-30 ... +75 °C	-30 ... +75 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
relative humidity at 25 °C without condensation during operation maximum	90 %	90 %	90 %
protection class IP	IP65/IP67	IP65/IP67	IP65/IP67
design, dimensions and weights			
width	150 mm	150 mm	150 mm
height	179.5 mm	179.5 mm	179.5 mm
depth	45 mm	45 mm	45 mm
width of the enclosure without antenna	150 mm	150 mm	150 mm
height of the enclosure without antenna	179.5 mm	179.5 mm	179.5 mm
depth of the enclosure without antenna	45 mm	45 mm	45 mm
net weight	1.1 kg	1.1 kg	1.1 kg
product feature conformal coating	Yes	Yes	Yes
fastening method	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.	wall mounting and assembly on VESA support 75 x 75 mm, mounting on DIN rail with separate mounting adapter.
• S7-300 rail mounting	Yes	Yes	Yes
• S7-1500 rail mounting	Yes	Yes	Yes
• 35 mm DIN-rail mounting	Yes	Yes	Yes
• wall mounting	Yes	Yes	Yes
• VESA mounting	Yes; 75 x 75mm	Yes; 75 x 75mm	Yes; 75 x 75mm

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Technical specifications (continued)

Article number	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7TC0
product type designation [1]	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 EEC (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
radio frequencies			
operating frequency			
• for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals	2.41 ... 2.48 GHz; depending on the country approvals
• for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals	4.9 ... 5.8 GHz; depending on the country approvals
product features, product functions, product components general			
product function Access Point Mode	Yes	Yes	Yes
product function client Mode	Yes	Yes	Yes
number of SSIDs	8	8	8
product function			
• iPCF Access Point	No	No	No
• iPCF-2 access point	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.
• iPCF client	No	No	No
• iPCF-2 client	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.	Yes; iPCF-2 is not compatible with iPCF. See documentation for function description.
product function iPRP	Yes	Yes	Yes
product functions management, configuration, engineering			
number of manageable IP addresses in client	2	2	2
product function			
• CLI	Yes	Yes	Yes
• web-based management	Yes	Yes	Yes
• MIB support	Yes	Yes	Yes
• TRAPs via email	Yes	Yes	Yes
• configuration with STEP 7	Yes	Yes	Yes
• configuration with STEP 7 in the TIA Portal	Yes	Yes	Yes
• WDS	No	No	No
protocol is supported			
• Address Resolution Protocol (ARP)	Yes	Yes	Yes
• ICMP	Yes	Yes	Yes
• Telnet	Yes	Yes	Yes
• HTTP	Yes	Yes	Yes
• HTTPS	Yes	Yes	Yes
• TFTP	Yes	Yes	Yes
• DCP	Yes	Yes	Yes
• LLDP	Yes	Yes	Yes
identification & maintenance function			
• I&M0 - device-specific information	Yes	Yes	Yes
• I&M1 - higher level designation/location designation	Yes	Yes	Yes
product function is supported identification link	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022	Yes; acc. to IEC 61406-1:2022
product functions diagnostics			
product function			
• PROFINET IO diagnosis	Yes	Yes	Yes
• SysLog	Yes	Yes	Yes
protocol is supported			
• SNMP v1	Yes	Yes	Yes
• SNMP v2	Yes	Yes	Yes
• SNMP v3	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7TC0
product type designation [1]	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 EEC (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
product functions VLAN			
product function			
• function VLAN with IWLAN	Yes	Yes	Yes
number of VLANs maximum	24	24	24
product functions DHCP			
product function			
• DHCP client	Yes	Yes	Yes
product functions redundancy			
protocol is supported			
• STP/RSTP	Yes	Yes	Yes
• MSTP	Yes	Yes	Yes
• RSTP	Yes	Yes	Yes
product function			
• redundancy procedure MSTP	Yes	Yes	Yes
product functions security			
product function			
• management security, ACL-IP based	No	No	No
• IEEE 802.1x (radius)	Yes	Yes	Yes
• NAT/NAPT	Yes	Yes	Yes
• access protection according to IEEE802.11i	Yes	Yes	Yes
• WPA/WPA2	Yes	Yes	Yes
• WPA3	Yes	Yes	Yes
• TKIP/AES	Yes	Yes	Yes
• RADIUS client	Yes	Yes	Yes
protocol is supported			
• SSH	Yes	Yes	Yes
key length			
• with SSL	4 096 bit	4 096 bit	4 096 bit
product functions time			
protocol is supported			
• NTP	Yes	Yes	Yes
• SNTP	Yes	Yes	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes	Yes	Yes
standards, specifications, approvals			
certificate of suitability			
• EC Declaration of Conformity	Yes	Yes	Yes
• CE marking	Yes	Yes	Yes
• E1 approval	Yes	Yes	Yes
• railway application in accordance with EN 50155	Yes	Yes	Yes
• railway application in accordance with EN 50121-4	Yes	Yes	Yes
• fire protection in accordance with EN 45545-2	Yes	Yes	Yes
• Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af	Yes	Yes	Yes
standard for wireless communication			
• IEEE 802.11a	Yes	Yes	Yes
• IEEE 802.11b	Yes	Yes	Yes
• IEEE 802.11e	Yes	Yes	Yes
• IEEE 802.11g	Yes	Yes	Yes
• IEEE 802.11h	Yes	Yes	Yes
• IEEE 802.11i	Yes	Yes	Yes
• IEEE 802.11n	Yes	Yes	Yes
• IEEE 802.11ac	Yes	Yes	Yes
• IEEE 802.11ax	Yes	Yes	Yes
• IEEE 802.11r	Yes	Yes	Yes

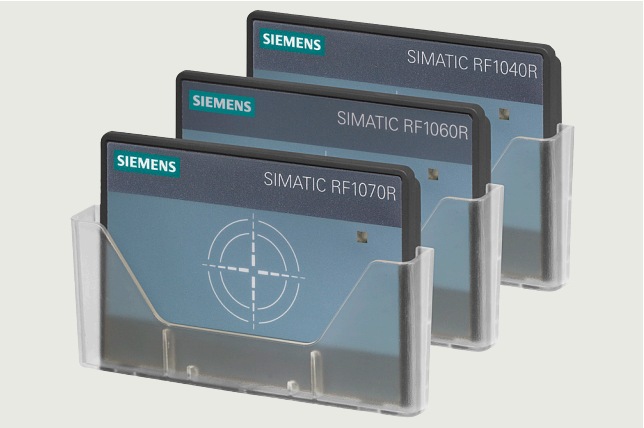
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Technical specifications (continued)

Article number	6GK5766-1GE00-7TA0	6GK5766-1GE00-7TB0	6GK5766-1GE00-7TC0
product type designation [1]	WAM766-1 EEC	WAM766-1 EEC (USA)	WAM766-1 EEC (USA)
product description	IWLAN Access Point	IWLAN Access Point	IWLAN Access Point
wireless approval	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device	You will find the current list of countries at: www.siemens.com/wireless-approvals or directly on the device
MTBF	24 a	24 a	24 a
• reference temperature	40 °C	40 °C	40 °C
standards, specifications, approvals hazardous environments			
standard for hazardous zone	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc
• from CSA and UL	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, UL File E240480
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes
global warming potential [CO2 eq]			
• total	394.88999 kg	394.88999 kg	394.88999 kg
• during manufacturing	33.7 kg	33.7 kg	33.7 kg
• during operation	361 kg	361 kg	361 kg
• after end of life	0.19 kg	0.19 kg	0.19 kg
further information internet links			
internet link			
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: WLAN country approval	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals	https://www.siemens.com/wireless-approvals
• to the website: IWLAN	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan	https://www.siemens.com/iwlan
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
	0.55 A	0.55 A	0.55 A

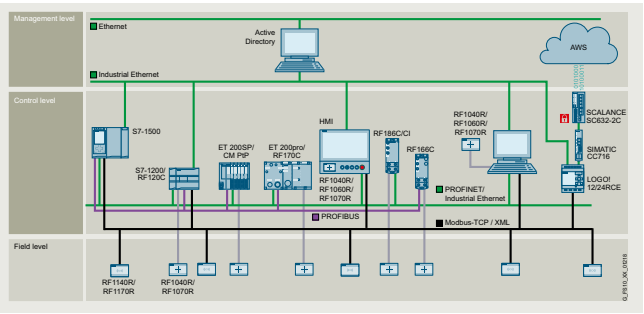
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Overview



With the SIMATIC RF1000 readers, Siemens provides an RFID-based solution which enables simple and versatile implementation of electronic authorization management. Existing employee ID provides the basis for identification. which increases user friendliness and minimizes costs.

SIMATIC RF1000 series readers allow realization of finely-graded access concepts, documentation of processes and storage of user-specific instructions to be stored – according to the customer-made application and all with a single card.



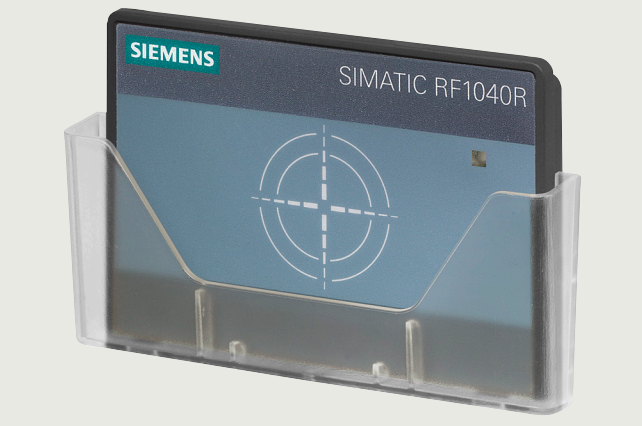
SIMATIC RF1000 integration graphic

The SIMATIC RF1000 identification system offers the following performance features:

- 13.56 MHz and 125 kHz operating frequency
- Supports the ISO 15693, ISO 14443 A/B (MIFARE), LEGIC Prime and LEGIC Advant, Hitag 1/2/S, and EM41xx standards.
- 3-color LED status display on the front. Acoustic signaling element and acoustic signaling element.
- Compact design with low overall depth
- IP65 degree of protection (at front).
- USB 2.0 interface and RS232 serial interface for direct connection to communications modules (CMs) and PCs.

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Overview



SIMATIC RF1040R Reader with card holder

The SIMATIC RF1040R Reader allows individual control of access rights on machinery and systems. The reader operates primarily in the LF range with 125 kHz and supports conventional standards for employee IDs (Hitag 1/2/S, EM41xx, Cotag, EKS). Transponders with ISO 14443 A/B (MIFARE) and ISO 15693 standards can also be read.

SIMATIC RF1000 readers feature a USB interface for connection to Windows-based computers and third-party HMIs (1.8 m cable with USB plug, type A). Due to its rugged, compact design and shallow installation depth, the reader is ideally suited for applications where mounting space is at a premium or in harsh industrial environments, such as in panels.

The RF1040R Reader features an additional RS232 interface. This allows the reader to be easily integrated into a wide range of system environments:

- PROFINET via RF18xC/CI
- S7-1200 via RF120C
- PROFIBUS via RF166C
- ET 200pro via RF170C
- ET 200SP, PCs, third-party HMI, other control systems

The reader features a 3-color LED status display as well as an acoustic signaling element.

Selection and ordering data

	Article No.
SIMATIC RF1040R Reader Access control reader (LF 125 kHz) for HITAG 1/2/S, EM41xx/45xx, EKS as well as (HF 13.56 MHz) for ISO14443 A/B (MIFARE), ISO15693, with USB connection (incl. 1.8 m connecting cable) and RS232	**6GT2831-6CA60**
Accessories	
Card holder for RF1040R 	**6GT2890-0CA00**
Config card RF1100T for all RF1000 readers MIFARE DESFire EV2 8kB Memory EEPROM, IP67, -25 ... +60 °C, 85 x 54 x 0.8 mm	**6GT2300-0CC00-0AX0**
Optional USB cable 0.5 m (type A plug)  Reader with USB cable and card holder	**6GT2891-0UE50**

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Technical specifications

Article number	6GT2831-6CA60
product type designation	Reader RF1040R USB/RS232
product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2831-6CA60
suitability for operation	HiTag 1/2/S, EM4xxx, ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems
radio frequencies	
operating frequency	0.125 ... 13.56 MHz
range maximum	0.03 m; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
protocol with radio transmission	HiTag 1/2/S, EM41xx/45xx, EKS key, ISO 15693, ISO 14443 A/B, Felica, NXP NTAG21x, HID iClass
transfer rate with radio transmission maximum	424 kbit/s
product feature multitag-capable	Yes
operating frequency 1	2.4 GHz (only for BLE support)
electrical data	
transfer rate at the point-to-point connection serial maximum	115.2 kbit/s
interfaces	
standard for interfaces for communication	USB 2.0, RS232
type of electrical connection	1.8 m connecting cable with USB 2.0 type A connector or RS232 connecting cable
mechanical data	
material	PC-GF
color	titanium gray
mounting distance relating to metal surfaces recommended minimum	0 mm
supply voltage, current consumption, power loss	
supply voltage at DC	
• rated value	5 V
•	4.6 ... 5.25 V
consumed current at DC	
• at 5 V typical	0.15 A
• at 5 V maximum	0.3 A
ambient conditions	
ambient temperature	
• during operation	-25 ... +55 °C
• during storage	-25 ... +55 °C
• during transport	-25 ... +55 °C
protection class IP	IP65; on front after cabinet installation, IP20 rear
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	300 m/s²
vibrational acceleration	50 m/s²
design, dimensions and weights	
width	90 mm
height	62 mm
depth	23.5 mm
net weight	0.12 kg
fastening method	4 M4 screws for cabinet installation
product features, product functions, product components general	
display version	3-color LED
product feature silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
certificate of suitability	
• IECEx	No
accessories	
accessories	card holder, USB cable 0.5 m, table/wall box, clean room cover, BLE license, HID license

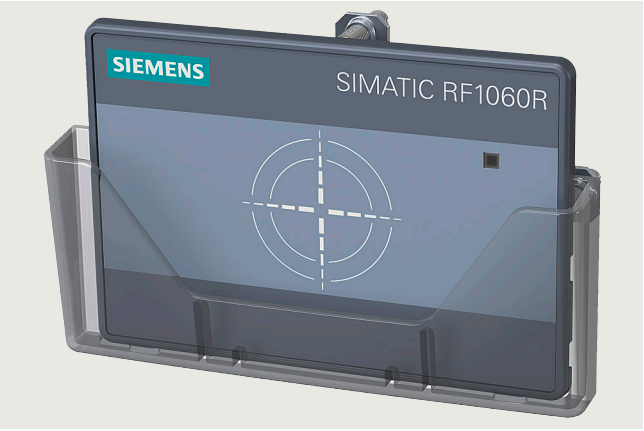
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Technical specifications (continued)

Article number product type designation	6GT2831-6CA60 Reader RF1040R USB/RS232
further information internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: RFID country approval	https://www.siemens.com/rfid-approvals
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview



SIMATIC RF1060R Reader with card holder

The SIMATIC RF1060R Reader makes it easy to use existing employee IDs (ISO 14443 A/B and ISO 15693 standards) for the operation of machines and plants. The RF1060R Reader features a USB interface (1.8 m cable with USB plug, type A) for connection to Windows-based computers.

Due to its compact design and shallow installation depth, the reader is ideally suited for applications where mounting space is at a premium, such as in panels.

Selection and ordering data

	Article No.
SIMATIC RF1060R Reader Access control reader (13.56 MHz) for ISO 14443 A/B (MIFARE) and ISO 15693, with USB connection (incl. 1.8 m connecting cable)	**6GT2831-6AA60**
Accessories	
Card holder for RF1060R 	**6GT2890-0CA00**
Config card RF1100T for all RF1000 readers MIFARE DESFire EV2 8kB Memory EEPROM, IP67, -25 ... +60 °C, 85 x 54 x 0.8 mm	**6GT2300-0CC00-0AX0**
Optional USB cable 0.5 m (type A plug)  Reader with USB cable and card holder	**6GT2891-0UE50**

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Technical specifications

Article number	6GT2831-6AA60
product type designation	RF1060R USB reader
product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2831-6AA60
suitability for operation	ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems
radio frequencies	
operating frequency rated value	13.56 MHz
range maximum	0.03 m; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
protocol with radio transmission	ISO 15693, ISO 14443 A/B, Felica, NXP NTAG21x, HID iClass
transfer rate with radio transmission maximum	424 kbit/s
product feature multitag-capable	Yes
interfaces	
standard for interfaces for communication	USB 2.0
type of electrical connection	1.8 m connecting cable with USB 2.0 type A connector
mechanical data	
material	PC-GF
color	titanium gray
mounting distance relating to metal surfaces recommended minimum	0 mm
supply voltage, current consumption, power loss	
supply voltage at DC	
• rated value	5 V
•	4.5 ... 5.25 V
consumed current at DC	
• at 5 V typical	0.15 A
• at 5 V maximum	0.3 A
ambient conditions	
ambient temperature	
• during operation	-25 ... +55 °C
• during storage	-25 ... +55 °C
• during transport	-25 ... +55 °C
protection class IP	IP65; on front after cabinet installation, IP20 rear
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	300 m/s²
vibrational acceleration	50 m/s²
design, dimensions and weights	
width	90 mm
height	62 mm
depth	23.5 mm
net weight	0.12 kg
fastening method	4 M4 screws for cabinet installation
product features, product functions, product components general	
display version	3-color LED
product feature silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
certificate of suitability	
• IECEx	No
accessories	
accessories	card holder, USB cable 0.5 m, table/wall box, clean room cover,

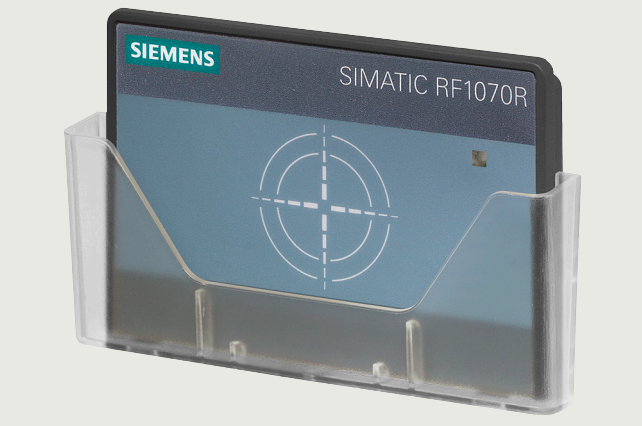
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Technical specifications (continued)

Article number product type designation	6GT2831-6AA60 RF1060R USB reader
further information internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: RFID country approval	https://www.siemens.com/rfid-approvals
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview



SIMATIC RF1070R Reader with card holder

The SIMATIC RF1070R Reader allows individual control of access rights on machinery and systems. In addition to ISO 14443 A/B (MIFARE) and ISO 15693, the reader also complies with the LEGIC Prime and LEGIC Advant standards, thus enabling the use of existing employee IDs.

Readers of the SIMATIC RF1000 series feature a USB interface for connection to Windows-based computers and third-party HMIs (1.8 m cable with USB plug, type A). Due to its rugged, compact design and shallow installation depth, the reader is ideally suited for applications where mounting space is at a premium or in harsh industrial environments, such as in panels.

The RF1070R Reader features an additional RS232 interface. This allows the reader to be easily integrated into a wide range of system environments:

- PROFINET via RF18xC/CI
- S7-1200 via RF120C
- PROFIBUS via RF166C
- ET 200pro via RF170C
- ET 200SP, PCs, third-party HMI, other control systems

The reader features a 3-color LED status display as well as an acoustic signaling element.

The reader is also available as RF1070R OEM version with neutral front film. In addition to the supplied neutral front film, you can also create your own design and attach this to the reader.

Selection and ordering data

	Article No.
SIMATIC RF1070R Reader Access control reader (13.56 MHz) for ISO 14443 A/B (MIFARE), ISO 15693, Legic Prime, Legic Advant, with USB connection (incl. 1.8 m connecting cable) and RS232	**6GT2831-6BA60**
SIMATIC RF1070R OEM Reader Access control reader (13.56 MHz) for ISO 14443 A/B (MIFARE), ISO 15693, Legic Prime, Legic Advant, with USB connection (incl. 1.8 m connecting cable) and RS232 with supplied neutral front film	**6GT2831-6BA60-0AX0**
Accessories	
Card holder for RF1070R	**6GT2890-0CA00**
Config card RF1100T for all RF1000 readers MIFARE DESFire EV2 8kB Memory EEPROM, IP67, -25 ... +60 °C, 85 x 54 x 0.8 mm	**6GT2300-0CC00-0AX0**
Optional USB cable 0.5 m (type A plug)	**6GT2891-0UE50**



Reader with USB cable and card holder

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Technical specifications

Article number	6GT2831-6BA50-0AX0
product type designation	Reader RF1070R OEM USB/RS232
suitability for operation	Legic, ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems, for front panels with customer-specific design
radio frequencies	
operating frequency rated value	13.56 MHz
range maximum	30 mm; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
protocol with radio transmission	Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B, chip set: SM4200M, Felica, NXP NTAG21x, HID iClass
transfer rate with radio transmission maximum	106 kbit/s
product feature multitag-capable	Yes
electrical data	
transfer rate at the point-to-point connection serial maximum	115.2 kbit/s
interfaces	
standard for interfaces for communication	USB 2.0, RS232
type of electrical connection	1.8 m connecting cable with USB 2.0 type A connector or RS232 connecting cable
mechanical data	
material	PC-GF
color	titanium gray
mounting distance relating to metal surfaces recommended minimum	0 mm
supply voltage, current consumption, power loss	
supply voltage at DC	
• rated value	5 V
•	4.6 ... 5.25 V
consumed current at DC	
• at 5 V typical	0.15 A
• at 5 V maximum	0.3 A
ambient conditions	
ambient temperature	
• during operation	-25 ... +55 °C
• during storage	-25 ... +55 °C
• during transport	-25 ... +55 °C
protection class IP	IP65; on front after professional gluing of the included front label and cabinet installation, IP20 rear
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	300 m/s²
vibrational acceleration	50 m/s²
design, dimensions and weights	
width	90 mm
height	62 mm
depth	23.5 mm
net weight	0.12 kg
fastening method	4 M4 screws for cabinet installation
product features, product functions, product components general	
display version	3-color LED
product feature silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
certificate of suitability	
• IECEx	No
reference code	
• according to IEC 81346-2:2019	BYB
accessories	
accessories	card holder, USB cable 0.5 m, RS232 connecting cable, front label in customer design is to be created by the customer, cleanroom cover, desktop housing

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Technical specifications (continued)

Article number product type designation	6GT2831-6BA50-0AX0 Reader RF1070R OEM USB/RS232
further information internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: RFID country approval	https://www.siemens.com/rfid-approvals
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview



Universal data memory (752 bytes EEPROM) in credit card format (85 mm × 54 mm × 0.8 mm), degree of protection IP68, temperature range up to +60 °C and max. read/write distance of 70 mm.

Selection and ordering data

	Article No.
Transponder MDS E600	
MOBY E Mobile data storage unit MDS E600 ISO card, 752 byte EEPROM, IP68, -25 ... +60 °C, 85× 54× 0.8 mm • For RF300, MOBY E • Minimum order quantity: 50 units	**6GT2300-0AA00**
Accessories	
Fixing lug pocket for MDS E600	**6GT2390-0AA00**
Fixing lug for MDS E600/E611	**6GT2190-0AB00**
Spacer for fixing lug, thickness 20 mm	**6GT2190-0AA00**

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Technical specifications

Article number	**6GT2300-0AA00**
product type designation	**MDS E600 transponder**
suitability for operation	**RF300, MOBY E**
product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2300-0AA00
radio frequencies	
operating frequency rated value	13.56 MHz
range maximum	70 mm; Range depends on reader
protocol with radio transmission	ISO 14443-A
transfer rate with radio transmission maximum	106 kbit/s
product feature multitag-capable	No
electrical data	
product component backup battery	No
memory	
type of memory	EEPROM
storage capacity of the user memory	752 byte
type of memory organization	UID (permanently coded) 4 bytes, user memory 752 bytes,
number of read cycles at ambient temperature < 40 °C maximum	100 000 000 000 000
number of write cycles at ambient temperature < 40 °C maximum	100 000
data retention time at ambient temperature < 40 °C not less than	10 a
mechanical data	
material	PVC
color	Anthracite/white
mounting distance relating to metal surfaces recommended minimum	20 mm
ambient conditions	
ambient temperature	
• during read/write access	-25 ... +60 °C
• outside the read/write area	-25 ... +60 °C
• during storage	-25 ... +60 °C
protection class IP	IP68
resistance to mechanical stress	Shock and vibration according to ISO 10373 / ISO 7810, torsion and twisting according to ISO 10373 / ISO 7816-1
design, dimensions and weights	
width	54 mm
height	0.8 mm
depth	86 mm
net weight	6 g
fastening method	gluing, mounting bag (see accessories)
product features, product functions, product components general	
product feature	
• silicon-free	Yes
• printable	No
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
MTBF	234 a
accessories	
accessories	Fixing strap, holder, spacer
further information internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of

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Technical specifications (continued)

Article number	6GT2300-0AA00
product type designation	MDS E600 transponder
suitability for operation	RF300, MOBY E
	plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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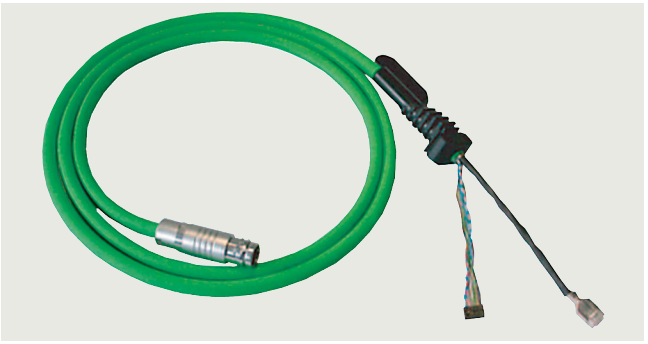
Overview



Connecting cables



Connecting cable DP (PROFIBUS) for Mobile Panels



Connecting cable PN (PROFINET) for Mobile Panels

Key

P = PROCESS COUPLING

K = Optional process coupling (option required)

D = DOWNLOAD (update operating system, project, ...)

U = Booting (factory setting in the case of a missing or damaged operating system)

MBP = Mobile Panel

Overview of SIMATIC HMI connection options

	RS 232 external (15/9-pin)	TD-PPI (incl. voltage)	RS 232 Null modem	RS 232/PPI multi-master cable	USB/PPI multi-master cable	MPI (PG-S7) up to 187.5 kbaud
	6XV1440-2Kxxx	6ES7901-3EB10-0X-A0	6ES7901-1BF00--0XA0	6ES7901-3CB30-0XA0	6ES7901-3DB30-0XA0	6ES7901-0BF00-0A-A0
Key Panel KP8/KP8F, KP32F	-	-	-	-	-	-
PP7, PP17-I, PP17-II	-	-	-	-	-	-
KTP400 Basic mono PN	-	-	-	-	-	-
KTP600 Basic mono PN	-	-	-	-	-	-
KTP600 Basic color DP	-	-	-	D/U	D/U	P/D
KTP600 Basic color PN	-	-	-	-	-	-
KTP1000 Basic color DP	-	-	-	D/U	D/U	P/D
KTP1000 Basic color PN	-	-	-	-	-	-
KTP1500 Basic color PN	-	-	-	-	-	-
K(T)P400 Comfort	-	-	-	-	-	P/D
K(T)P700 - KP1500 Comfort	-	-	-	-	-	P/D
TP700 -TP2200 Comfort	-	-	-	-	-	P/D
MBP 177	-	-	-	D/U	-	-
MBP 277	-	-	-	D/U	-	-
TD200	-	P	-	D/U	-	P
TD400C	-	P	-	D/U	-	P
OP73micro	-	P	-	D/U	D/U	P
TP177micro	-	-	-	D/U	D/U	-
OP73	-	P	-	D/U	D/U	P/D

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Overview (continued)

	RS 232 external (15/9-pin)	TD-PPI (incl. voltage)	RS 232 Null modem	RS 232/PPI multi-master cable	USB/PPI multi-master cable	MPI (PG-S7) up to 187.5 kbaud
OP77A	-	-	-	D/U	D/U	P/D
OP77B	P	-	D/U	-	-	P/D
TP177A	-	-	-	D/U	D/U	P/D
TP177B	P 1)	-	-	D/U	-	P/D
TP177B 4"	P 1)	-	D	D	-	P/D
OP177B	P 1)	-	-	D/U	-	P/D
TP277-6	P 1)	-	-	D/U	-	P/D
OP277-6	P 1)	-	-	D/U	-	P/D
MP177-6 T	P 1)	-	-	D/U	-	P/D
MP277-8 T	P 1)	-	-	D/U	-	P/D
MP277-10 T	P 1)	-	-	D/U	-	P/D
MP377-12 T	P 1)	-	-	D	-	P/D
MP377-15 T	P 1)	-	-	D	-	P/D
MP377-19 T	P 1)	-	-	D	-	P/D

1) Only in conjunction with the RS 422/RS 232 Converter

	DP PtP	DP Standard	DP (Mobile Panel)	PN (cross cable) 1) Point-to-point	PN (standard cable) 1)	PN (Mobile Panel)	RS 422-RS 232 Converter	RS 232 to TTY converter (20 mA)	90° angular (9-pin 1:1)
	6XV1830-0A-xxx	Standard PROFIBUS (2-pin)	6XV1440-4Axxx	6XV1870-3R-H20	Standard Ethernet CAT5	6XV1440-4Bx-xx	6AV6671-8XE00-0-AX0	6ES5734-1BD20	6AV6671-8XD00--0AX0
Key Panel KP8/KP8F, KP32F	-	-	-	P/D	P/D	-	-	-	-
PP7, PP17-I, PP17-II	P	P	-	-	-	-	-	-	-
KTP400 Basic mono PN	-	-	-	P/D/U	P/D/U	-	-	-	-
KTP600 Basic mono PN	-	-	-	P/D/U	P/D/U	-	-	-	-
KTP600 Basic color DP	P/D	P/D	-	-	-	-	-	-	P/D/U
KTP600 Basic color PN	-	-	-	P/D/U	P/D/U	-	-	-	-
KTP1000 Basic color DP	P/D	P/D	-	-	-	-	-	-	P/D/U
KTP1000 Basic color PN	-	-	-	P/D/U	P/D/U	-	-	-	-
KTP1500 Basic color PN	-	-	-	P/D/U	P/D/U	-	-	-	-
K(T)P400 Comfort	P/D	P/D	-	P/D/U	P/D/U	-	-	-	P/D/U
K(T)P700 - TP1500 Comfort	P/D	P/D	-	P/D/U	P/D/U	-	-	-	P/D/U
TP700 -TP2200 Comfort	P/D	P/D	-	P/D/U	P/D/U	-	-	-	P/D/U
MBP 177 DP	P/D	P/D	P/D	-	-	-	-	-	-
MBP 177 PN	-	-	-	-	-	P/D	-	-	-
MBP 277	P/D	P/D	P/D	-	-	P/D	-	-	-
TD200	-	-	-	-	-	-	-	-	-
TD400C	-	-	-	-	-	-	-	-	-
OP73micro	P	-	-	-	-	-	-	-	-
TP177micro	P	P	-	-	-	-	-	-	P/D/U

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Overview (continued)

	DP PtP	DP Standard	DP (Mobile Panel)	PN (cross cable) 1) Point-to-point	PN (standard cable) 1)	PN (Mobile Panel)	RS 422-RS 232 Converter	RS 232 to TTY converter (20 mA)	90° angular (9-pin 1:1)
OP73	P	P	-	-	-	-	-	-	-
OP77A	P	P	-	-	-	-	-	-	P/D/U
OP77B	P/D	P/D	-	-	-	-	-	P	P/D/U
TP177A	P	P	-	-	-	-	-	-	P/D/U
TP177B DP	P/D	P/D	-	-	-	-	P	P 2)	P/D/U
TP177B PN/DP	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
TP177B 4"	P/D	P/D	-	P/D/U	P/D/U	-	P	P 2)	P/D/U
OP177B DP	P/D	P/D	-	-	-	-	P	P 2)	P/D/U
OP177B PN/DP	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
TP277-6	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
OP277-6	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
MP177-6 T	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
MP277-8 T	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
MP277-8 K	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
MP277-10 T	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
MP277-10 K	P/D	P/D	-	P/D	P/D	-	P	P 2)	P/D/U
MP377-12 T	P/D	P/D	-	P/D/U	P/D/U	-	P	P 2)	P/D
MP377-12 K	P/D	P/D	-	P/D/U	P/D/U	-	P	P 2)	P/D
MP377-15 T	P/D	P/D	-	P/D/U	P/D/U	-	P	P 2)	P/D
MP377-19 T	P/D	P/D	-	P/D/U	P/D/U	-	P	P 2)	P/D

Note:
This table is for basic orientation only. Technical characteristics are described in the communication manual or the respective user manual.

1) PROFINET IRT (isochronous runtime); isochronous mode only possible with IRT-enabled switch
2) WinCC flexible 2008 SP2 and higher

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Selection and ordering data

Connecting cables	
SIMATIC S7 connecting cables	
MPI cable between SIMATIC S7 and programming device via MPI max. 187.5 kBaud, standard length 5.0 m	**6ES7901-0BF00-0AA0**
Connecting cable between HMI adapter and PC/TS Adapter (RS 232 cable/null-modem cable) for OP 77B, TP 177A/B, OP 177B, standard length 5.0 m	**6ES7901-1BF00-0XA0**
PROFIBUS 830-1T connecting cable For connection of data terminals, pre-assembled with two D-sub connectors, 9-pin terminated at both ends for PP, OP 73micro, OP 73, TP 177micro, OP 77A/B, TP 177A, TP/OP 177B	
• 1.5 m	**6XV1830-1CH15**
• 3.0 m	**6XV1830-1CH30**
PROFIBUS FC standard cable [2]	**6XV1830-0EH10**
For connection to PPI; standard type with special design for quick mounting, 2-wire, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m	
Industrial Ethernet TP XP cord RJ45/RJ45 Crossed twisted pair line 4 x 2, preassembled with 2 x RJ45 connectors	
• 0.5 m	**6XV1870-3RE50**
• 1.0 m	**6XV1870-3RH10**
• 2.0 m	**6XV1870-3RH20**
• 6.0 m	**6XV1870-3RH60**
• 10.0 m	**6XV1870-3RN10**
DP connecting cable (MPI/PROFIBUS) For wired Mobile Panels 177, Mobile Panels 277, standard lengths	
• 2 m	**6XV1440-4AH20**
• 5 m	**6XV1440-4AH50**
• 8 m	**6XV1440-4AH80**
• 10 m	**6XV1440-4AN10**
• 15 m	**6XV1440-4AN15**
• 20 m	**6XV1440-4AN20**
• 25 m [1]	**6XV1440-4AN25**
PN connecting cable (PROFINET) For wired Mobile Panels 177, Mobile Panels 277, standard lengths	
• 2 m	**6XV1440-4BH20**
• 5 m	**6XV1440-4BH50**
• 8 m	**6XV1440-4BH80**
• 10 m	**6XV1440-4BN10**
• 15 m	**6XV1440-4BN15**
• 20 m	**6XV1440-4BN20**
• 25 m [1]	**6XV1440-4BN25**

Selection and ordering data (continued)

Connecting cable for KTP Mobile Panels	
• 2 m	**6AV2181-5AF02-0AX0**
• 5 m	**6AV2181-5AF05-0AX0**
• 8 m	**6AV2181-5AF08-0AX0**
• 10 m	**6AV2181-5AF10-0AX0**
• 15 m	**6AV2181-5AF15-0AX0**
• 20 m	**6AV2181-5AF20-0AX0**
• 25 m	**6AV2181-5AF25-0AX0**
USB connecting cable Optional 0.5 m USB cable (type A connector) female to male, can be used as extension for USB cable with type "A" connector	**6GT2891-0UE50**

1) Instead of using longer cables, we recommend that you use additional connection boxes.
2) See length code.

Length code for connecting cables

With connecting cables whose length is freely selectable according to the following lists, the blanks (...) in the Article No. must be completed in accordance with the length codes given.
The different length codes must be taken into account here! Other lengths on request.

Length code for 6XV connecting cables

6XV. ... connecting cables	
Length of the connecting cable = Multiplier x length key	**Article No. supplement of the connecting cable 6XV....-.....**
Multiplier	
• 0.01 m	**6XV....-..E..**
• 0.1 m	**6XV....-..H..**
• 1.0 m	**6XV....-..N..**
• 10.0 m	**6XV....-..T..**
• 100.0 m	**6XV....-..U..**
Length digit	
• 10	**6XV....-...10**
• 12	**6XV....-...12**
• 15	**6XV....-...15**
• 16	**6XV....-...16**
• 20	**6XV....-...20**
• 25	**6XV....-...25**
• 32	**6XV....-...32**
• 40	**6XV....-...40**
• 50	**6XV....-...50**
• 60	**6XV....-...60**
• 63	**6XV....-...63**
• 80	**6XV....-...80**

Ordering example:

The 6XV1404-0A... connecting cable must be 16 m long.
Multiplier 1.0 m (N) x length digit 16 (16) gives a length of 16 m.
The Article No. supplement is N16. Enter this in the blank spaces of the Article No.
The complete Article No. for the 16-m-long connecting cable is then:
6XV1404-0AN16
.

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Technical specifications

Article number	6ES7901-0BF00-0AA0 S7 MPI Cable, 5m
General information	
Product type designation	MPI cable
Cables	
Cable length	5 m
Weights	
Weight, approx.	293 g

Article number	6XV1440-4AH20 Connecting cable MOBILE PANELS, 2M	6XV1440-4AH50 Connecting cable MOBILE PANELS, 5M	6XV1440-4AH80 Connecting cable MOBILE PANELS, 8M	6XV1440-4AN10 Connecting cable MOBILE PANELS, 10M	6XV1440-4AN15 Connecting cable MOBILE PANELS, 15M	6XV1440-4AN20 Connecting cable MOBILE PANELS, 20M	6XV1440-4AN25 Connecting cable MOBILE PANELS, 25M
General information							
Product type designation	MPI/DP connecting cable	MPI/DP connecting cable	MPI/DP connecting cable	MPI/DP connecting cable	MPI/DP connecting cable	MPI/DP connecting cable	MPI/DP connecting cable
Supply voltage							
Rated value (DC)	24 V; DC	24 V; DC	24 V; DC		24 V; DC	24 V; DC	24 V; DC
Degree and class of protection							
IP (at the front)	IP65	IP65	IP65		IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65		IP65	IP65	IP65
Standards, approvals, certificates							
CE mark	Yes	Yes	Yes		Yes	Yes	Yes
Ambient conditions							
Ambient temperature during operation							
• min.	0 °C	0 °C	0 °C		0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C		55 °C	55 °C	55 °C
Relative humidity							
• Operation, max.	85 %	85 %	85 %		85 %	85 %	85 %
Cables							
Cable length	2 m	5 m	8 m	10 m	15 m	20 m	25 m
smallest bending radius	45 mm	45 mm	45 mm		45 mm	45 mm	45 mm
Color of cable sheath	red	red	red		red	red	red
Oil resistance of outer sheath	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils		Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils
Resistance to MEK, xylene, toluene, isopropanol	Yes	Yes	Yes		Yes	Yes	Yes
Mechanics/material							
Material of cable sheath	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963		Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963
Dimensions							
Thickness	9 mm	9 mm	9 mm		9 mm	9 mm	9 mm
Scope of supply							
Delivery quantity in pieces	1	1	1		1	1	1
Other							
Merchandise	No	No	No	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
contacting the manufacturer	Email: simatic_hmi_panel_-helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_-helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_-helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_-helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_-helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_-helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_-helpdesk.i-ia@siemens.com

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Technical specifications (continued)

Article number	6XV1440-4BH20 Conn. cable PN for MOBILE PANELS, 2M	6XV1440-4BH50 Conn. cable PN for MOBILE PANELS, 5M	6XV1440-4BH80 Conn. cable PN for MOBILE PANELS, 8M
General information			
Product type designation	PN connecting cable	PN connecting cable	PN connecting cable
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Degree and class of protection			
IP (at the front)	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C
Relative humidity			
• Operation, max.	85 %	85 %	85 %
Cables			
Cable length	2 m	5 m	8 m
smallest bending radius	45 mm	45 mm	45 mm
Color of cable sheath	green	green	green
Oil resistance of outer sheath	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils
Resistance to MEK, xylene, toluene, isopropanol	Yes	Yes	Yes
Mechanics/material			
Material of cable sheath	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963
Dimensions			
Thickness	9 mm	9 mm	9 mm
Scope of supply			
Delivery quantity in pieces	1	1	1
Other			
Merchandise	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
contacting the manufacturer	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com

Article number	6XV1440-4BN10 Conn. cable PN for MOBILE PANELS,10M	6XV1440-4BN15 Conn. cable PN for MOBILE PANELS,15M	6XV1440-4BN20 Conn. cable PN for MOBILE PANELS,20M	6XV1440-4BN25 Conn. cable PN for MOBILE PANELS,25M
General information				
Product type designation	PN connecting cable	PN connecting cable	PN connecting cable	PN connecting cable
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP65	IP65	IP65	IP65
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6XV1440-4BN10	6XV1440-4BN15	6XV1440-4BN20	6XV1440-4BN25
	Conn. cable PN for MOBILE PANELS,10M	Conn. cable PN for MOBILE PANELS,15M	Conn. cable PN for MOBILE PANELS,20M	Conn. cable PN for MOBILE PANELS,25M
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Relative humidity				
• Operation, max.	85 %	85 %	85 %	85 %
Cables				
Cable length	10 m	15 m	20 m	25 m
smallest bending radius	45 mm	45 mm	45 mm	45 mm
Color of cable sheath	green	green	green	green
Oil resistance of outer sheath	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils	Yes; Hydrolysis-resistant and oil-resistant acc. to VDE 0472 Part 803/B, also resistant to commercially available lubricants and hydraulic oils
Resistance to MEK, xylene, toluene, isopropanol	Yes	Yes	Yes	Yes
Mechanics/material				
Material of cable sheath	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963	Special PUR, flame-resistant acc. to VDE 0472 Part 804 Test Type B, Shore A 88 Flame-Retardant UR Style 20963
Dimensions				
Thickness	9 mm	9 mm	9 mm	9 mm
Scope of supply				
Delivery quantity in pieces	1	1	1	1
Other				
Merchandise	No	No	No	No
Manufacturer name	SIEMENS AG	SIEMENS AG	SIEMENS AG	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany	Gleiwitzerstraße 555, 90475 Nuremberg, Germany
contacting the manufacturer	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com	Email: simatic_hmi_panel_helpdesk.i-ia@siemens.com

Article number	6AV2181-5AF02-0AX0	6AV2181-5AF05-0AX0	6AV2181-5AF08-0AX0	6AV2181-5AF10-0AX0	6AV2181-5AF15-0AX0	6AV2181-5AF20-0AX0	6AV2181-5AF25-0AX0
	Connecting Cable 2 M KTP Mobile	Connecting Cable 5 M KTP Mobile	Connecting Cable 8 M KTP Mobile	Connecting Cable 10 M KTP Mobile	Connecting Cable 15 M KTP Mobile	Connecting Cable 20 M KTP Mobile	Connecting Cable 25 M KTP Mobile
General information							
Product type designation	Connecting cable	Connecting cable	Connecting cable	Connecting cable	Connecting cable	Connecting cable	Connecting cable
Standards, approvals, certificates							
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions							
Ambient temperature during operation							
• min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C	55 °C	55 °C	55 °C
Cables							
Cable length	2 m	5 m	8 m	10 m	15 m	20 m	25 m
Maximum tensile load	300 N	300 N	300 N	300 N	300 N	300 N	300 N
Color of cable sheath							
• green	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6AV2181-5AF02-0AX0	6AV2181-5AF05-0AX0	6AV2181-5AF08-0AX0	6AV2181-5AF10-0AX0	6AV2181-5AF15-0AX0	6AV2181-5AF20-0AX0	6AV2181-5AF25-0AX0
	Connecting Cable 2 M KTP Mobile	Connecting Cable 5 M KTP Mobile	Connecting Cable 8 M KTP Mobile	Connecting Cable 10 M KTP Mobile	Connecting Cable 15 M KTP Mobile	Connecting Cable 20 M KTP Mobile	Connecting Cable 25 M KTP Mobile
Scope of supply							
Delivery quantity in pieces	1	1	1	1	1	1	1
Other							
Merchandise	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Manufacturer name	On request	On request	On request	On request	On request	SIEMENS AG	On request
Manufacturer's address						Gleiwitzerstraße 555, 90475 Nuremberg, Germany	
Note:	halogen-free according to EN 50267-2-1	halogen-free according to EN 50267-2-1	halogen-free according to EN 50267-2-1	halogen-free according to EN 50267-2-1	halogen-free according to EN 50267-2-1	halogen-free according to EN 50267-2-1	halogen-free according to EN 50267-2-1

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Overview



- Patch cable, available pre-assembled
- With 4 x 2 cores for 10/100/1 000/10 000 Mbps Ethernet
- Small cable diameter
- Cat6_A (4 x 2) of the ISO/IEC 11801 and EN 50173 international cabling standards

Selection and ordering data

	Article No.
IE TP cord RJ45/RJ45	
TP cable 4 x 2 with 2 RJ45 plugs, color of cable sheath: green	
• 0.3 m	**6XV1870-3QE30**
• 0.5 m	**6XV1870-3QE50**
• 1 m	**6XV1870-3QH10**
• 2 m	**6XV1870-3QH20**
• 3 m	**6XV1870-3QH30**
• 4 m	**6XV1870-3QH40**
• 6 m	**6XV1870-3QH60**
• 10 m	**6XV1870-3QN10**
• 15 m	**6XV1870-3QN15**
• 20 m	**6XV1870-3QN20**
• 25 m	**6XV1870-3QN25**
• 30 m	**6XV1870-3QN30**
• 35 m	**6XV1870-3QN35**
• 40 m	**6XV1870-3QN40**
• 45 m	**6XV1870-3QN45**
• 50 m	**6XV1870-3QN50**
IE TP cord RJ45/RJ45	
TP cable 4 x 2 with 2 RJ45 plugs, color of cable sheath: yellow	
• 0.5 m	**6XV1870-4GE50**
• 1 m	**6XV1870-4GH10**
• 2 m	**6XV1870-4GH20**
• 3 m	**6XV1870-4GH30**
• 4 m	**6XV1870-4GH40**
• 6 m	**6XV1870-4GH60**
• 10 m	**6XV1870-4GN10**
• 15 m	**6XV1870-4GN15**
• 20 m	**6XV1870-4GN20**
• 25 m	**6XV1870-4GN25**
• 30 m	**6XV1870-4GN30**
IE TP cord RJ45/RJ45	
TP cable 4 x 2 with 2 RJ45 plugs, color of cable sheath: red	
• 0.5 m	**6XV1870-4RE50**
• 1 m	**6XV1870-4RH10**
• 2 m	**6XV1870-4RH20**
• 3 m	**6XV1870-4RH30**
• 4 m	**6XV1870-4RH40**
• 6 m	**6XV1870-4RH60**
• 10 m	**6XV1870-4RN10**
• 15 m	**6XV1870-4RN15**
• 20 m	**6XV1870-4RN20**
• 25 m	**6XV1870-4RN25**
• 30 m	**6XV1870-4RN30**

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Selection and ordering data (continued)

	Article No.
IE TP cord RJ45/RJ45	
TP cable 4 x 2 with 2 RJ45 plugs, color of cable sheath: blue	
• 0.5 m	**6XV1870-4BE50**
• 1 m	**6XV1870-4BH10**
• 2 m	**6XV1870-4BH20**
• 3 m	**6XV1870-4BH30**
• 4 m	**6XV1870-4BH40**
• 6 m	**6XV1870-4BH60**
• 10 m	**6XV1870-4BN10**
• 15 m	**6XV1870-4BN15**
• 20 m	**6XV1870-4BN20**
• 25 m	**6XV1870-4BN25**
• 30 m	**6XV1870-4BN30**
IE TP cord RJ45/RJ45	
TP cable 4 x 2 with 2 RJ45 plugs, color of cable sheath: gray	
• 0.5 m	**6XV1870-4UE50**
• 1 m	**6XV1870-4UH10**
• 2 m	**6XV1870-4UH20**
• 3 m	**6XV1870-4UH30**
• 4 m	**6XV1870-4UH40**
• 6 m	**6XV1870-4UH60**
• 10 m	**6XV1870-4UN10**
• 15 m	**6XV1870-4UN15**
• 20 m	**6XV1870-4UN20**
• 25 m	**6XV1870-4UN25**
• 30 m	**6XV1870-4UN30**
IE TP cord PLUS RJ45/RJ45	
TP cable 4 x 2 with 2 RJ45 plugs for EasyClip interlock	
• 0.5 m	**6XV1870-4HE50**
• 1 m	**6XV1870-4HH10**
• 2 m	**6XV1870-4HH20**
• 3 m	**6XV1870-4HH30**
• 4 m	**6XV1870-4HH40**
• 6 m	**6XV1870-4HH60**
• 10 m	**6XV1870-4HN10**
• 15 m	**6XV1870-4HN15**
IE TP XP cord RJ45/RJ45	
crossed TP cable 4 x 2 with 2 RJ45 plugs, color of cable sheath: green	
• 0.5 m	**6XV1870-3RE50**
• 1 m	**6XV1870-3RH10**
• 2 m	**6XV1870-3RH20**
• 6 m	**6XV1870-3RH60**
• 10 m	**6XV1870-3RN10**

Selection and ordering data (continued)

	Article No.
IE TP cord M12-180/RJ45-180	
TP cable 4 x 2 with 1 x RJ45 plugs and 1 x M12 (X-coded)	
• 0.5 m	**6XV1878-5TE50**
• 1 m	**6XV1878-5TH10**
• 1.5 m	**6XV1878-5TH15**
• 2 m	**6XV1878-5TH20**
• 3 m	**6XV1878-5TH30**
• 5 m	**6XV1878-5TH50**
• 10 m	**6XV1878-5TN10**
• 15 m	**6XV1878-5TN15**
• 30 m	**6XV1878-5TN30**
• 50 m	**6XV1878-5TN50**
IE TP cord M12-90/RJ45-180	
TP cable 4 x 2 with 1 x RJ45 plugs and 1 x M12 (X-coded, 90° angled)	
• 0.5 m	**6XV1878-5SE50**
• 1 m	**6XV1878-5SH10**
• 1.5 m	**6XV1878-5SH15**
• 2 m	**6XV1878-5SH20**
• 3 m	**6XV1878-5SH30**
• 5 m	**6XV1878-5SH50**
• 10 m	**6XV1878-5SN10**
• 15 m	**6XV1878-5SN15**

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Accessories

	Article No.
IE FC RJ45 outlet For connection of Industrial Ethernet FC cables and TP cords; graded prices from 10 and 50 units	**6GK1901-1FC00-0AA0**
IE FC standard cable GP 2 x 2 (AWG22) (PROFINET type A), TP installation cable for connection to IE FC RJ45 2 x 2/IE FC RJ45 outlet, for universal applications, 4-core, shielded CAT5e; sold by the meter; max. delivery unit 4000 m, minimum order quantity 20 m	**6XV1840-2AH10**
Preferred lengths:	
• 500 m	**6XV1840-2AT50**
• 1000 m	**6XV1840-2AU10**
IE FC TP flexible cable, GP 2 x 2 (AWG22/7) (PROFINET type B), TP installation cable with flexible cores, PROFINET type B, 4-core, shielded, CAT5; sold by the meter; max. delivery unit 2500 m, minimum order quantity 20 m	**6XV1870-2B**
Preferred length:	
• 1000 m	**6XV1870-2BU10**
IE FC RJ45 modular outlet FastConnect RJ45 outlet for Industrial Ethernet with interface for insertion of a replaceable insert	
• **With insert 2FE**; replaceable insert for 2 x 100 Mbps interfaces	**6GK1901-1BE00-0AA1**
• **With insert 1GE**; replaceable insert for 1 x 1000 Mbps interfaces	**6GK1901-1BE00-0AA2**
• **With power insert**; replaceable insert for 1 x 24 V DC and 1 x 100 Mbps interface	**6GK1901-1BE00-0AA3**
IE FC TP standard cable 4 x 2 (AWG22) IE FC TP standard cable 4 x 2, TP installation cable CAT6 for connecting to FC RJ45 modular outlet; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1870-2E**

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Technical specifications

Article number	6XV1870-3QH10	6XV1870-3RH10
product type designation	IE TP Cord RJ45/RJ45, 4x2	IE TP XP Cord RJ45/RJ45, 4x2
product description	Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)	Crossover patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)
product brand name	SIMATIC NET	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1870-3QH10	https://i.siemens.com/1P6XV1870-3RH10
suitability for use	Easy connection of terminal devices to the IE FC cabling system	Easy connection of terminal devices to the IE FC cabling system
cable designation	S/FTP, LI 02YSCH 4x2x0,15 PIMF GN FRNC	S/FTP, LI 02YSCH 4x2x0,15 PIMF RD FRNC
wire length	1 m	1 m
electrical data		
number of electrical connections	2	2
attenuation factor per length		
• at 10 MHz maximum	86 dB/km	86 dB/km
• at 100 MHz maximum	280 dB/km	280 dB/km
• at 300 MHz maximum	501 dB/km	501 dB/km
• at 600 MHz maximum	735 dB/km	735 dB/km
impedance		
• at 1 MHz ... 100 MHz	100 Ω	100 Ω
• at 10 MHz ... 600 MHz	100 Ω	100 Ω
relative symmetrical tolerance		
• of the characteristic impedance at 1 MHz ... 100 MHz	15 %	15 %
• of the characteristic impedance at 10 MHz ... 600 MHz	10 %	10 %
coupling loss at 30 MHz ... 100 MHz minimum	70 dB	
transfer impedance per length at 10 MHz	10 mΩ/m	10 mΩ/m
loop resistance per length maximum	290 mΩ/m	290 mΩ/m
insulation resistance coefficient	500 GΩ·m	
operating voltage		
• RMS value	80 V	80 V
NVP value in percent	80 %	80 %
mechanical data		
number of electrical cores	8	8
design of the shield	S/FTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires	S/FTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires
core diameter		
• of AWG26 insulated conductor	0.5 mm	0.5 mm
outer diameter		
• of inner conductor	0.5 mm	0.5 mm
• of the wire insulation	1 mm	1 mm
• of cable sheath	6.2 mm	6.2 mm
symmetrical tolerance of the outer diameter of cable sheath	0.3 mm	0.3 mm
material		
• of the wire insulation	polyethylene (PE)	polyethylene (PE)
• of cable sheath	FRNC	FRNC
color		
• of the insulation of data wires	white/blue, white/orange, white/green, white/brown	white/blue, white/orange, white/green, white/brown
• of cable sheath	green	green
bending radius		
• with single bend minimum permissible	31 mm	31 mm
• with multiple bends minimum permissible	43.5 mm	43.5 mm
weight per length	50 kg/km	50 kg/km
plug		
connector type	RJ45	RJ45
type of plug interlock	latched	latched
design of plug-in connection	RJ45-180	RJ45-180

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Technical specifications (continued)

Article number	6XV1870-3QH10	6XV1870-3RH10
product type designation	IE TP Cord RJ45/RJ45, 4x2	IE TP XP Cord RJ45/RJ45, 4x2
product description	Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)	Crossover patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)
ambient conditions		
ambient temperature		
• during operation	-25 ... +80 °C	-25 ... +80 °C
• during storage	-25 ... +80 °C	-25 ... +80 °C
• during transport	-25 ... +80 °C	-25 ... +80 °C
• during installation	-25 ... +80 °C	-25 ... +80 °C
• note	In fixed installation -40 °C to 80 °C	In fixed installation -40 °C to 80 °C
fire behavior	flame resistant acc. to IEC 60332-1-2, EN 60332-3-24, smoke density acc. to IEC 61034	flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034
class of burning behaviour according to EN 13501-6	Eca	Eca
chemical resistance		
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance	Conditional resistance
radiological resistance to UV radiation	not resistant	not resistant
protection class IP	IP20	IP20
product features, product functions, product components general		
product feature		
• halogen-free	Yes; halogen-free according to EN 60754-2	Yes
• PoE capability	Yes	Yes
• PoE+ capability	Yes	Yes
• PoE++ capability	Yes	Yes
• silicon-free	Yes	Yes
test voltage		
• at AC core-to-core	500 V	500 V
• at AC core shield	1 500 V	1 500 V
standards, specifications, approvals		
UL/ETL listing 300 V Rating	No	No
UL/ETL style 600 V Rating	Yes; E502506 AWM STYLE 21279, Wiring Harness	Yes; E130266 AWM STYLE 21279
certificate of suitability	ISO/IEC 11801-1, IEC 61035	ISO/IEC 11801-1, IEC 61035
• EAC approval	Yes	Yes
• UL approval	Yes	Yes
• RoHS conformity	Yes	Yes
standard for structured cabling	Cat6A	Cat6A
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	No	No
• French marine classification society (BV)	No	No
• Det Norske Veritas (DNV)	No	No
• Germanische Lloyd (GL)	No	No
• Lloyds Register of Shipping (LRS)	No	No
• Nippon Kaiji Kyokai (NK)	No	No
• Polski Rejestr Statkow (PRS)	No	No
further information internet links		
internet link		
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com

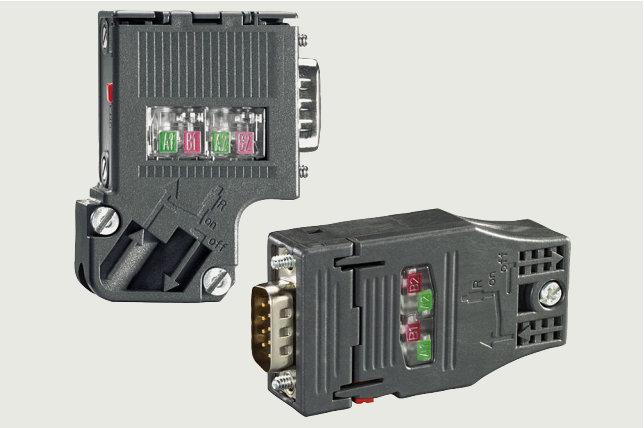
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Technical specifications (continued)

Article number	6XV1870-3QH10	6XV1870-3RH10
product type designation	IE TP Cord RJ45/RJ45, 4x2	IE TP XP Cord RJ45/RJ45, 4x2
product description	Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)	Crossover patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)
security information		
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview



- Used for connecting PROFIBUS nodes to the PROFIBUS bus cable
- Easy installation
- FastConnect plugs ensure extremely short assembly times due to their insulation-displacement technology
- Integrated terminating resistors (not in the case of 6ES7972-0BA30-0XA0)
- Connectors with D-sub sockets permit PG connection without the additional installation of network nodes

Selection and ordering data

	Article No.
RS485 bus connector with axial cable outlet (180°)	**6GK1500-0EA02**
For industrial PC, SIMATIC HMI OP, OLM; max. transfer rate 12 Mbps	
PROFIBUS FastConnect RS485 bus connector plug 180	**6GK1500-0FC10**
With 180° cable outlet, with insulation displacement terminals	
SIPLUS DP PB RS485 plug with axial cable outlet (180°)	**6AG1500-0EA02-2AA0**
For exposure to environmental substances; Based-on 6GK1 500-0EA02	
RS485 bus connector with 90° cable outlet	
With screw terminals, max. transfer rate 12 Mbps	
• Without programming device interface	**6ES7972-0BA12-0XA0**
• With programming device interface	**6ES7972-0BB12-0XA0**
SIPLUS DP PB RS485 plug with 90° cable outlet	
For extended temperature range -25 ... +60 °C	
• Without programming device interface Based on 6ES7 972-0BA12-0XA0	**6AG1972-0BA12-2XA0**
• With programming device interface Based on 6ES7 972-0BB12-0XA0	**6AG1972-0BB12-2XA0**
RS485 bus connector with angled cable outlet (35°)	
With screw terminals, max. transfer rate 12 Mbps	
• Without programming device interface	**6ES7972-0BA42-0XA0**
• With programming device interface	**6ES7972-0BB42-0XA0**
SIPLUS DP PB RS485 plug with angled cable outlet (35°)	
For extended temperature range -25 ... +60 °C	
• Without programming device interface Based on 6ES7 942-0BA42-0XA0	**6AG1972-0BA42-7XA0**
• With programming device interface Based on 6ES7 942-0BB42-0XA0	**6AG1972-0BB42-7XA0**
RS485 bus connector with 30° cable outlet	**6ES7972-0BA30-0XA0**
With screw terminals low-cost variant, max. transfer rate 1.5 Mbps	
PROFIBUS RS485 bus connector with FastConnect technology	
PROFIBUS FastConnect RS485 bus connector with 90° cable outlet	
With insulation displacement terminals, max. transfer rate 12 Mbps	
Without programming device interface	
• 1 unit	**6ES7972-0BA52-0XA0**
• 100 units	**6ES7972-0BA52-0XB0**
With programming device interface	
• 1 unit	**6ES7972-0BB52-0XA0**
• 100 units	**6ES7972-0BB52-0XB0**
Without programming device interface, grounding via control cabinet cover	
• 1 unit	**6ES7972-0BA70-0XA0**
With programming device interface, grounding via control cabinet cover	
• 1 unit	**6ES7972-0BB70-0XA0**

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Selection and ordering data (continued)

	Article No.
PROFIBUS FastConnect RS485 bus connector with angled cable outlet (35°) With insulation displacement terminals, max. transfer rate 12 Mbps	
• Without programming device interface	**6ES7972-0BA61-0XA0**
• With programming device interface	**6ES7972-0BB61-0XA0**
PROFIBUS FastConnect RS485 bus connector plug 180 With insulation displacement terminals, with 180° cable outlet, for industrial PC, SIMATIC HMI OP, OLM; max. transfer rate 12 Mbps	**6GK1500-0FC10**
SIMATIC S5/S7 connecting cable for PROFIBUS Pre-assembled with two 9-pin D-sub connectors; max. transfer rate 12 Mbps; 3 m	**6ES7901-4BD00-0XA0**

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Technical specifications

Article number	6ES7972-0BA70-0XA0	6ES7972-0BB70-0XA0	6GK1500-0EA02	6GK1500-0FC10
product type designation	PROFIBUS connector	PROFIBUS connector	PROFIBUS plug RS 485	PROFIBUS FC bus connector RS 485
product description	PROFIBUS bus connector, RS 485, Fast Connect, without programming port, 90°	PROFIBUS bus connector, RS 485, Fast Connect, with programming port, 90°	Bus connector with axial cable outlet (180°)	Bus connector with axial cable outlet (180°)
product brand name	SIMATIC	SIMATIC	SIMATIC NET	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6ES7972-0BA70-0X-A0	https://i.siemens.com/1P6ES7972-0BB70-0X-A0	https://i.siemens.com/1P6GK1500-0EA02	https://i.siemens.com/1P6GK1500-0FC10
suitability for use	for connecting PROFIBUS stations to the PROFIBUS bus cable	for connecting PROFIBUS stations to the PROFIBUS bus cable	For connecting PROFIBUS nodes to the PROFIBUS bus cable	For connecting PROFIBUS nodes to the PROFIBUS bus cable
transfer rate				
transfer rate with PROFIBUS			9.6 kbit/s ... 12 Mbit/s	9.6 kbit/s ... 12 Mbit/s
transfer rate with PROFIBUS DP	9.6 kbit/s ... 12 Mbit/s	9.6 kbit/s ... 12 Mbit/s		
interfaces				
number of electrical connections				
• for PROFIBUS cables	2	2	2	2
• for network components or terminal equipment	1	1	1	1
type of electrical connection				
• for PROFIBUS cables	Integrated insulation displacement terminals for 2-core PB FC installation cables	Integrated insulation displacement terminals for 2-core PB FC installation cables	Terminal blocks	Integrated insulation displacement terminals for 2-core PB FC installation cables
• for network components or terminal equipment	9-pin sub D connector	9-pin sub D connector	Sub-D connector (9-pin)	Sub-D connector (9-pin)
type of electrical connection FastConnect	Yes	Yes	No	Yes
mechanical data				
design of terminating resistor	Resistor combination integrated and connectable via slide switch. Isolation function: When resistor is connected, outgoing bus is disconnected	Resistor combination integrated and connectable via slide switch	Integrated resistor combination that can be selected with slide switch. Disconnect function: When the resistor is connected, the outgoing bus is isolated.	Integrated resistor combination that can be selected with slide switch. Disconnect function: When the resistor is connected, the outgoing bus is isolated.
material of the enclosure	plastic	plastic	metal	plastic
locking mechanism design	Screwed joint	Screwed joint	Screwed joint	Screwed joint
design, dimensions and weights				
type of cable outlet	90 degree cable outlet	90 degree cable outlet	180° cable outlet	180° cable outlet
width	15.8 mm	15.8 mm	15 mm	16 mm
height	72 mm	72 mm	57 mm	62 mm
depth	36.4 mm	36.4 mm	39 mm	34.5 mm
net weight	34 g	45 g	100 g	40 g
ambient conditions				
ambient temperature				
• during operation	-25 ... +60 °C	-25 ... +60 °C	0 ... 60 °C	-40 ... +70 °C
• during storage	-40 ... +70 °C	-40 ... +70 °C	-25 ... +80 °C	-25 ... +80 °C
• during transport	-40 ... +70 °C	-40 ... +70 °C	-25 ... +80 °C	-25 ... +80 °C
relative humidity				
• at 25 °C without condensation during operation maximum			75 %	75 %
protection class IP	IP20	IP20	IP20	IP20
product features, product functions, product components general				
product feature				
• silicon-free	Yes	Yes	Yes	Yes
product component				
• PG connection socket	No	Yes	No	No
• strain relief	Yes	Yes	Yes	Yes

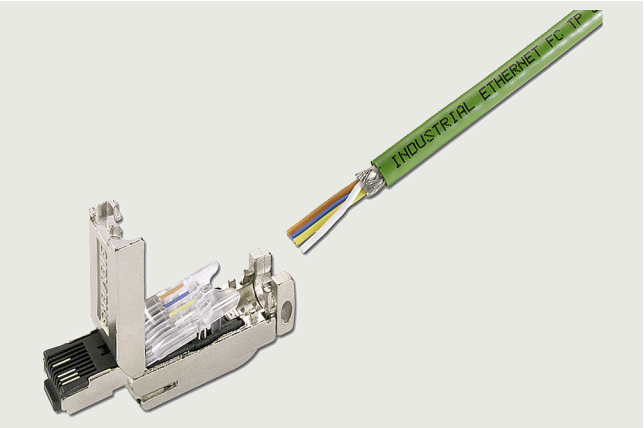
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Technical specifications (continued)

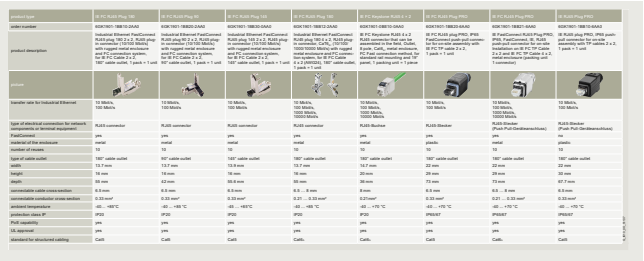
Article number	6ES7972-0BA70-0XA0	6ES7972-0BB70-0XA0	6GK1500-0EA02	6GK1500-0FC10
product type designation	PROFIBUS connector	PROFIBUS connector	PROFIBUS plug RS 485	PROFIBUS FC bus connector RS 485
product description	PROFIBUS bus connector, RS 485, Fast Connect, without programming port, 90°	PROFIBUS bus connector, RS 485, Fast Connect, with programming port, 90°	Bus connector with axial cable outlet (180°)	Bus connector with axial cable outlet (180°)
standards, specifications, approvals				
certificate of suitability				
• RoHS conformity	Yes	Yes	Yes	Yes
• UL approval	Yes	Yes	No	Yes
• cULus approval			No	Yes
• railway application in accordance with EN 50155			No	No
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration				Yes
global warming potential [CO2 eq]				
• total				0.73 kg
• during manufacturing				0.44 kg
• during operation				0.24 kg
• after end of life				0.05 kg
further information internet links				
internet link				
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/10976-6358	https://support.industry.siemens.com/cs/ww/en/view/10976-6358	https://support.industry.siemens.com/cs/ww/en/view/10976-6358	https://support.industry.siemens.com/cs/ww/en/view/10976-6358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com	https://sieportal.siemens.com	https://sieportal.siemens.com	https://sieportal.siemens.com
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• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com

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Overview



- Implementation of direct device connections of up to 100 m with Industrial Ethernet FC installation cable 2 x 2 without using patch technology
- Easy connection (insulation displacement contacts) for 4-wire Twisted Pair installation cables (100 Mbps) without the need for special tools
- Error-minimizing connection system thanks to visible connection area as well as colored insulation displacement termination
- Industry-compatible design (rugged metal enclosure, no easy-to-lose small parts)
- Good EMC shielding and deflection (metal enclosure)
- Integrated strain relief for installation cables
- Compatible with the EN 50173 (RJ45) / ISO IEC 11801 standard
- Additional strain and bending relief of plug-in connection possible through latching of plug on device enclosure, e.g. with SCALANCE X, SCALANCE S, SCALANCE M, SIMATIC CPs, SIMATIC S7-1500.



[Enlarge image]

Industrial Ethernet FastConnect RJ45 plugs - Overview

Selection and ordering data

	Article No.
IE FC RJ45 plugs RJ45 plug-in connector for Industrial Ethernet with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables	
IE FC RJ45 plug 180 180° cable outlet; for network components and CPs/CPUs with Industrial Ethernet interface	
• 1 pack = 1 unit	**6GK1901-1BB10-2AA0**
• 1 pack = 10 units	**6GK1901-1BB10-2AB0**
• 1 pack = 50 units	**6GK1901-1BB10-2AE0**
IE FC RJ45 plug 90 90° cable outlet; e.g. for ET 200S	
• 1 pack = 1 unit	**6GK1901-1BB20-2AA0**
• 1 pack = 10 units	**6GK1901-1BB20-2AB0**
• 1 pack = 50 units	**6GK1901-1BB20-2AE0**
IE FC RJ45 plug 145 145° cable outlet; e.g. for SIMOTION and SINAMICS	
• 1 pack = 1 unit	**6GK1901-1BB30-0AA0**
• 1 pack = 10 units	**6GK1901-1BB30-0AB0**
• 1 pack = 50 units	**6GK1901-1BB30-0AE0**

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Accessories

	Article No.
IE RJ45 port lock RJ45 port lock for network components and terminal devices with RJ45 Industrial Ethernet interface	
• 1 pack = 1 unit + key	**6GK1901-1BB50-0AA0**
IE FC stripping tool Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables	**6GK1901-1GA00**
IE FC TP standard cable GP 2 x 2 (type A) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug; PROFINET-compatible; with UL approval; Sold by the meter; max. delivery unit 1000 m; minimum order quantity 20 m	**6XV1840-2AH10**
Preferred length	
• 20 m	**6XV1840-2AN20**
• 50 m	**6XV1840-2AN50**
• 100 m	**6XV1840-2AT10**
• 200 m	**6XV1840-2AT20**
• 500 m	**6XV1840-2AT50**
• 1000 m	**6XV1840-2AU10**
IE FC TP flexible cable GP 2 x 2 (type B) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug for occasional movement; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1870-2B**
Preferred length	
• 1000 m	**6XV1870-2BU10**
IE FC TP trailing cable GP 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug for use in cable carriers; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1870-2D**
IE FC TP trailing cable 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug 180/90 for use in cable carriers; PROFINET-compatible; without UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1840-3AH10**
IE TP torsion cable GP 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug for use with robots; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1870-2F**
IE FC TP marine cable 2 x 2 (type B) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug 180/90 with marine approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1840-4AH10**

Accessories (continued)

	Article No.
IE FC TP FRNC cable GP 2 x 2 (type B) 4-core, shielded, halogen-free TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug for occasional movement; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2F**
Preferred length	
• 1000 m	**6XV1871-2FU10**
IE FC TP festoon cable GP 2 x 2 (type B) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug 180/90 for use in festoon applications; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2S**
IE FC TP food cable GP 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug 180/90 for the food and beverages industry; PROFINET-compatible; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2L**
IE TP ground cable 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug 180/90 (after removal of additional protective jacket) for laying in soil; PROFINET-compatible; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2G**
IE TP robust ground cable 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO (additional protective jacket must be removed) for laying in soil, with metallic rodent protection; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2N**
IE TP train cable GP 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45 plug 180/90 for railway applications; PROFINET-compatible; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2T**
IE FC blade cassettes (5 mm) Replacement blade cassette for the Industrial Ethernet stripping tool; for use with IE FC RJ45 plugs and modular outlet, 5 units	**6GK1901-1GB01**

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Technical specifications

Article number	6GK1901-1BB20-2AA0	6GK1901-1BB10-2AA0	6GK1901-1BB30-0AA0
product type designation product description	IE FC RJ45 Plug 90 (2x2) RJ45 data connector	IE FC RJ45 Plug 180 (2x2) RJ45 data connector	IE FC RJ45 Plug 145 (2x2) RJ45 data connector
product brand name	SIMATIC NET	SIMATIC NET	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6GK1901-1BB20-2AA0	https://i.siemens.com/1P6GK1901-1BB10-2AA0	https://i.siemens.com/1P6GK1901-1BB30-0AA0
suitability for use	For connection to IE FC TP cables 2x2, suitable for fast assembly with the FastConnect system	For connection to IE FC TP cables 2x2, suitable for fast assembly with the FastConnect system	For connection to IE FC TP cables 2x2, suitable for fast assembly with the FastConnect system
transfer rate			
transfer rate for Industrial Ethernet	10 Mbit/s, 100 Mbit/s	10 Mbit/s, 100 Mbit/s	10 Mbit/s, 100 Mbit/s
interfaces			
number of electrical connections			
• for Industrial Ethernet FC TP cables	4	4	4
• for network components or terminal equipment	1	1	1
type of electrical connection			
• for Industrial Ethernet FC TP cables	integrated cut-and-clamp contacts for 4-wire TP FC installation cable AWG22	integrated cut-and-clamp contacts for 4-wire TP FC installation cable AWG22	integrated cut-and-clamp contacts for 4-wire TP FC installation cable AWG22
• for network components or terminal equipment	RJ45 connector	RJ45 connector	RJ45 connector
type of electrical connection FastConnect	Yes	Yes	Yes
mechanical data			
material of the enclosure	metal	metal	metal
number of reuses	10	10	10
locking mechanism design	other	other	other
design, dimensions and weights			
type of cable outlet	90° cable outlet	180° cable outlet	145° cable outlet
width	13.7 mm	13.7 mm	13.9 mm
height	16 mm	16 mm	16 mm
depth	42 mm	55 mm	55.6 mm
net weight	35 g	35 g	35 g
connectable cable cross-section	6.5 ... 6.5 mm	6.5 ... 6.5 mm	6.5 ... 6.5 mm
connectable conductor cross-section	0.33 mm²	0.33 mm²	0.33 mm²
ambient conditions			
ambient temperature			
• during operation	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
relative humidity			
• at 25 °C without condensation during operation maximum	95 %	95 %	95 %
protection class IP	IP20	IP20	IP20
product features, product functions, product components general			
product feature			
• PoE capability	Yes	Yes	Yes
• PoE+ capability	Yes	Yes	Yes
• silicon-free	Yes	Yes	Yes
product component			
• strain relief	Yes	Yes	Yes
test voltage			
• at AC core-to-core	500 V	500 V	500 V
• at AC core shield	1 500 V	1 500 V	1 500 V

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Technical specifications (continued)

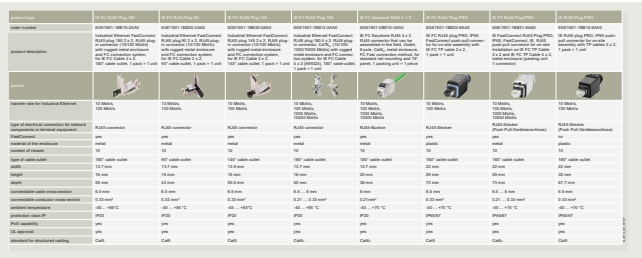
Article number	6GK1901-1BB20-2AA0	6GK1901-1BB10-2AA0	6GK1901-1BB30-0AA0
product type designation product description	IE FC RJ45 Plug 90 (2x2) RJ45 data connector	IE FC RJ45 Plug 180 (2x2) RJ45 data connector	IE FC RJ45 Plug 145 (2x2) RJ45 data connector
standards, specifications, approvals			
certificate of suitability			
• RoHS conformity	Yes	Yes	Yes
• UL approval	Yes	Yes	Yes
• cULus approval	Yes	Yes	Yes
• railway application in accordance with EN 50155	No	No	No
resistance to air pollution conformity according to ANSI/ISA-71.04	Yes; G3	Yes; G3	Yes; G3
standard for structured cabling	Cat5	Cat5	Cat5
standards, specifications, approvals Environmental Product Declaration			
Environmental Product Declaration	Yes	Yes	Yes
global warming potential [CO2 eq]			
• total	0.277 kg	0.277 kg	0.277 kg
• during manufacturing	0.263 kg	0.263 kg	0.263 kg
• during operation	0.0086 kg	0.0086 kg	0.0086 kg
• after end of life	0.0062 kg	0.0062 kg	0.0062 kg
further information internet links			
internet link			
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com	https://sieportal.siemens.com	https://sieportal.siemens.com
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax	https://www.siemens.com/cax	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com

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Overview



- Implementation of direct device connections of up to 100 m using IE FC RJ45 plug 4 x 2 with Industrial Ethernet FC installation cable 4 x 2 without patch technology
- Connection of rack switches (e.g. SCALANCE XR-500) in a 19" cabinet by means of FC installation cables 4 x 2 and patch cable via IE FC keystone RJ45 4 x 2 in 19" racks
- Easy connection (insulation displacement contacts) for 8-core twisted pair installation cables (10/100/1000/10000 Mbps) without the need for special tools
- Error-minimizing connection system thanks to visible connection area as well as color-coded insulation displacement contacts
- Industry-compatible design (rugged metal enclosure, no easy-to-lose small parts)
- Excellent EMC shielding and deflection (metal enclosure)
- Integrated cable grip for installation cables
- Compatible with the EN 50173 (RJ45) / ISO IEC 11801 standard
- Additional strain and bending relief of the plug-in connection possible by latching of the IE FC RJ45 plug 4 x 2 onto the device enclosure, e.g. with SCALANCE X, SCALANCE S, SCALANCE W.



[Enlarge image]

Industrial Ethernet FastConnect RJ45 plugs - Overview

Selection and ordering data

	Article No.
IE FC RJ45 plug 4 x 2	
RJ45 plug-in connector for Industrial Ethernet (10/100/1000/10000 Mbps, Cat6$_A$) with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables; 180° cable outlet; for network components and CPs/CPUs with Industrial Ethernet interface	
• 1 pack = 1 unit	**6GK1901-1BB12-2AA0**
• 1 pack = 10 units	**6GK1901-1BB12-2AB0**
• 1 pack = 50 units	**6GK1901-1BB12-2AE0**
IE FC keystone RJ45 4 x 2	
RJ45 socket for Industrial Ethernet (10/100/1000/10000 Mbps, Cat 6$_A$) with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables; 180° cable outlet; for mounting on DIN rails and 19" racks	
• 1 pack = 1 unit	**6GK1901-0BE10-0AA0**

Accessories

	Article No.
IE RJ45 port lock	
RJ45 port lock for network components and terminal devices with RJ45 Industrial Ethernet interface	
• 1 pack = 1 unit + enclosure	**6GK1901-1BB50-0AA0**
IE FC stripping tool Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables	**6GK1901-1GA00**
IE FC TP standard cable GP 4 x 2	
8-core, shielded TP installation cable for universal applications; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG 24, for connection to IE FC RJ45 plug 4 x 2	**6XV1878-2A**
Preferred length:	
• 1000 m	**6XV1878-2AU10**
IE FC TP flexible cable GP 4 x 2	
8-core, shielded TP installation cable for occasional movement; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG 24, for connection to IE FC RJ45 plug 4 x 2	**6XV1878-2B**
IE FC blade cassettes (5 mm) Replacement blade cassette for the Industrial Ethernet stripping tool; for use with IE FC RJ45 plugs and modular outlet, 5 units	**6GK1901-1GB01**

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Technical specifications

Article number	6GK1901-1BB12-2AA0	6GK1901-0BE10-0AA0
product type designation product description	IE FC RJ45 Plug 180 (4x2) RJ45 data connector	IE FC RJ45 Keystone RJ45 Field-assembly RJ45 socket
product brand name	SIMATIC NET	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6GK1901-1BB12-2AA0	https://i.siemens.com/1P6GK1901-0BE10-0AA0
suitability for use	For connection to IE FC TP cables 4x2, suitable for fast assembly with the FastConnect system	For connecting 8-wire IE FC TP cables, Cat6A, metal enclosure, FC quick connection technology, for mounting on DIN rail (housing included in the delivery) and 19 inch Module Frame
transfer rate		
transfer rate for Industrial Ethernet	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s	10 Mbit/s, 100 Mbit/s, 1 000 Mbit/s
transfer rate for Industrial Ethernet	10 000 Mbit/s	10 000 Mbit/s
interfaces		
number of electrical connections		
• for Industrial Ethernet FC TP cables	1	1
• for network components or terminal equipment	1	1
type of electrical connection		
• for Industrial Ethernet FC TP cables	Integrated insulation-displacement contacts for 8-wire (AWG24) and 4-wire (AWG22) TP FC installation cables	integrated insulation-displacement contacts for FC TP cables (AWG24/AWG26/1, AWG24/AWG26/7)
• for network components or terminal equipment	RJ45 connector	
type of electrical connection FastConnect	Yes	Yes
mechanical data		
material of the enclosure	metal	metal
number of reuses	10	10
locking mechanism design	other	
design, dimensions and weights		
type of cable outlet	180° cable outlet	180° cable outlet
width	13.7 mm	14.7 mm
height	16 mm	20 mm
depth	55 mm	36 mm
net weight	35 g	40 g
connectable cable cross-section	6.5 ... 8 mm	8 ... 8 mm
connectable conductor cross-section	0.21 ... 0.33 mm²	
ambient conditions		
ambient temperature		
• during operation	-40 ... +85 °C	-40 ... +70 °C
• during storage	-40 ... +85 °C	-40 ... +70 °C
• during transport	-40 ... +85 °C	-40 ... +70 °C
relative humidity		
• at 25 °C without condensation during operation maximum	95 %	95 %
protection class IP	IP20	IP20
product features, product functions, product components general		
product feature		
• PoE capability	Yes	Yes
• PoE+ capability	Yes	Yes
• PoE++ capability	Yes	
• silicon-free	Yes	Yes
product component		
• strain relief	Yes	Yes
test voltage		
• at AC core-to-core	500 V	
• at AC core shield	1 500 V	

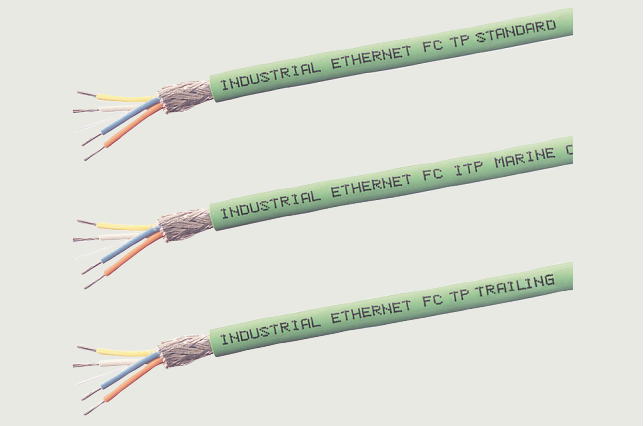
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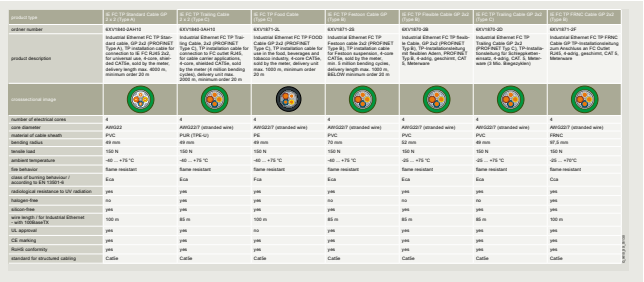
Technical specifications (continued)

Article number	6GK1901-1BB12-2AA0	6GK1901-0BE10-0AA0
product type designation	IE FC RJ45 Plug 180 (4x2)	IE FC RJ45 Keystone RJ45
product description	RJ45 data connector	Field-assembly RJ45 socket
standards, specifications, approvals		
certificate of suitability		
• RoHS conformity	Yes	Yes
• UL approval	Yes	
• cULus approval	Yes	Yes
• railway application in accordance with EN 50155	No	No
resistance to air pollution conformity according to ANSI/ISA-71.04	Yes; G3	
standard for structured cabling	Cat6A	Cat6A
further information internet links		
internet link		
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://siemens.com/tst
• to website: Industrial communication	https://www.siemens.com/simatic-net	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
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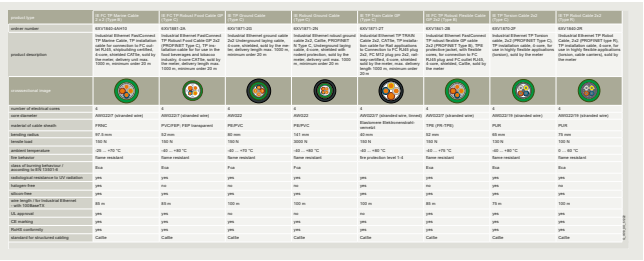
Overview





Siemens on the Web

Industrial Ethernet data cables with copper wire - Standard cables



[Enlarge image]

Ethernet data cables with copper wire - for special applications

- 4-wire FastConnect installation cables for structured Fast Ethernet cabling with special design for fast installation
- Easy stripping with the FastConnect stripping tool; the protective jacket and the braided shield are stripped accurately in one step
- Connection to FastConnect products using insulation displacement
- Exceeds Category 5 (Cat5e) of the international cabling standards ISO/IEC 11801 and EN 50173
- PROFINET-compatible
- UL approval
- Different variants for different application areas (e.g. trailing, food, marine, railways, robots)
- High interference immunity thanks to double shielding

Overview (continued)

- Easy length measurement thanks to printed meter markings

Selection and ordering data

	Article No.
IE FC TP standard cable GP 2 x 2 (type A)	
4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO; PROFINET-compatible; with UL approval:	
Sold by the meter; max. delivery unit 1000 m; minimum order quantity 20 m	6XV1840-2AH10
Preferred length	
• 20 m	6XV1840-2AN20
• 50 m	6XV1840-2AN50
• 100 m	6XV1840-2AT10
• 200 m	6XV1840-2AT20
• 500 m	6XV1840-2AT50
• 1000 m	6XV1840-2AU10
IE FC TP robust cable GP 2 x 2 (type A)	
4-core, shielded TP installation cable with TPE protective jacket for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO; PROFINET-compatible; with UL approval	
Sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	6XV1841-2A
IE FC TP flexible cable GP 2 x 2 (type B)	
4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for occasional movement; PROFINET-compatible; with UL approval:	
Sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	6XV1870-2B
Preferred length	
• 1000 m	6XV1870-2BU10
IE FC TP robust flexible cable GP 2 x 2 (type B)	6XV1841-2B
4-core, shielded TP installation cable with TPE protective jacket for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for occasional movement; PROFINET-compatible; with UL approval; Sold by the meter; max. delivery unit 1000 m; minimum order quantity 20 m	
IE FC TP FRNC cable GP 2 x 2 (type B)	6XV1871-2F
4-core, shielded, halogen-free TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for occasional movement; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	

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Selection and ordering data (continued)

	Article No.
IE FC TP trailing cable GP 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for use in cable carriers; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1870-2D**
IE FC TP trailing cable 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for use in cable carriers; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1840-3AH10**
IE FC TP festoon cable GP 2 x 2 (type B) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for use in festoon applications; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2S**
IE TP torsion cable 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1870-2F**
IE TP robot cable GP 2 x 2 (type R) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for use with robots; PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1840-2R**
IE FC TP food cable GP 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for the food and beverages industry; PROFINET-compatible; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2L**
IE FC TP robust food cable GP 2 x 2 (type B) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for the food and beverages industry (IP69); PROFINET-compatible; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1881-2A**
IE FC TP marine cable 2 x 2 (type B) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO for marine applications; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1840-4AH10**

Selection and ordering data (continued)

	Article No.
IE TP ground cable 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO (additional protective jacket must be removed) for laying in soil; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2G**
IE TP robust ground cable 4-core, shielded TP installation cable for connection to IE FC RJ45 outlet/IE FC RJ45/IE FC M12 plug PRO (additional protective jacket must be removed) for laying in soil, with metallic rodent protection; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2N**
IE TP train cable 2 x 2 (type C) 4-core, shielded TP installation cable for connection to IE FC RJ45 plug and IE FC M12 plug PRO; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1871-2T**
IE hybrid cable 2 x 2 + 4 x 0.34 Flexible cable, 4 x Cu Cat5, shielded (0.75 mm) and 4 x Cu (0.34 mm^2) with IE FC modular outlet with power insert and IP67 hybrid plug-in connector; sold by the meter; max. delivery unit 1000 m; minimum order quantity 20 m	**6XV1870-2J**

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Accessories

	Article No.
IE FC stripping tool Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables	**6GK1901-1GA00**
IE FC blade cassettes (12 mm) Replacement blade cassette for the Industrial Ethernet stripping tool; for use with IE FC RJ45 outlet, ELS TP40, 5 units	**6GK1901-1GB00**
IE FC blade cassettes (5 mm) Replacement blade cassette for the Industrial Ethernet stripping tool; for use with IE FC RJ45 plugs and IE FC RJ45 modular outlet, 5 units	**6GK1901-1GB01**
IE FC RJ45 plugs RJ45 plug-in connector for Industrial Ethernet with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables	
IE FC RJ45 plug 180 180° cable outlet; for network components and CPs/CPUs with Industrial Ethernet interface	
• 1 pack = 1 unit	**6GK1901-1BB10-2AA0**
• 1 pack = 10 units	**6GK1901-1BB10-2AB0**
• 1 pack = 50 units	**6GK1901-1BB10-2AE0**
IE FC RJ45 plug 90 90° cable outlet; e.g. for ET 200S	
• 1 pack = 1 unit	**6GK1901-1BB20-2AA0**
• 1 pack = 10 units	**6GK1901-1BB20-2AB0**
• 1 pack = 50 units	**6GK1901-1BB20-2AE0**
IE FC RJ45 plug 145 145° cable outlet; e.g. for SIMOTION and SINAMICS	
• 1 pack = 1 unit	**6GK1901-1BB30-0AA0**
• 1 pack = 10 units	**6GK1901-1BB30-0AB0**
• 1 pack = 50 units	**6GK1901-1BB30-0AE0**
IE FC M12 plugs	
IE FC M12 plug PRO 2x2 M12 plug-in connector (D-coded, IP65/IP67) suitable for assembly in the field, metal enclosure, FastConnect connection method, for SCALANCE X208PRO and IM 154-4 PN	
• 1 unit	**6GK1901-0DB20-6AA0**
• 8 units	**6GK1901-0DB20-6AA8**
PROFINET Cabling and Interconnection Technology Guideline	http://www.profinet.com

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Technical specifications

Article number	6XV1871-2F	6XV1871-2L	6XV1881-2A	6XV1840-4AH10	6XV1840-2R
product type designation	IE FC TP FRNC Cable GP 2x2 (Type B)	IE FC TP Food Cable 2x2 (Type C)	IE FC TP Robust Food Cable GP 2X2 (Type C)	IE FC TP Marine Cable 2x2 (Type B)	IE TP Robot Cable GP, 2x2 (PROFINET Typ R)
product description	Flexible halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Flexible bus cable (4-core), sold by the meter, unassembled	Robust, flexible bus cable (4-core), sold by the meter, unassembled	Halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Highly flexible bus cable (4-core), sold by the meter, unassembled
product brand name	SIMATIC NET	SIMATIC NET	SIMATIC NET	SIMATIC NET	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1871-2F	https://i.siemens.com/1P6XV1871-2L	https://i.siemens.com/1P6XV1881-2A	https://i.siemens.com/1P6XV1840-4AH10	https://i.siemens.com/1P6XV1840-2R
suitability for use	For occasionally moved machine parts	Food and beverages industry	Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverages and tobacco industries (IP65/67/69 resistant, EHEDG approval). Line is water-repellent, weather-proof, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).	For marine and offshore use	constant motion control when used in the robot (torsional and bending load)
cable designation	SF/UTP, L-9YH (ST) CH 2x2x0,34/1,5-100 GN VZN FRNC	SF/UTP, 2YH (ST) C2Y 2X2X0,75/1,5-100 LI	SF/UTP, 2YY(ST)CY6Y 2X2X0.75/1.55 LI VZN	SF/UTP, L-9YH (ST) CH 2x2x0,34/1,5-100 GN VZN FRNC	9Y(ST)C11Y 2X2X0.75/1.6-100 LI VZN GN
wire length	sold by the meter	sold by the meter	sold by the meter	sold by the meter	sold by the meter
electrical data					
attenuation factor per length					
• at 10 MHz maximum	60 dB/km	63 dB/km	95 dB/km	60 dB/km	95 dB/km
• at 100 MHz maximum	220 dB/km	213 dB/km	320 dB/km	220 dB/km	320 dB/km
impedance					
• at 1 MHz ... 100 MHz	100 Ω	100 Ω	100 Ω	100 Ω	120 Ω
relative symmetrical tolerance					
• of the characteristic impedance at 1 MHz ... 100 MHz	15 %	5 %	5 %	5 %	15 %
near-end crosstalk per length					
• at 1 MHz ... 100 MHz	0.5 dB/m	0.5 dB/m	0.353 dB/m	0.5 dB/m	0.5 dB/m
transfer impedance per length at 10 MHz	10 mΩ/m	10 mΩ/m	80 mΩ/m	10 mΩ/m	10 mΩ/m
loop resistance per length maximum	120 mΩ/m	120 mΩ/m	120 mΩ/m	120 mΩ/m	120 mΩ/m
operating voltage					
• RMS value	80 V	80 V	80 V	80 V	100 V
NVP value in percent	69 %	69 %	69 %	69 %	69 %

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Technical specifications (continued)

Article number	6XV1871-2F	6XV1871-2L	6XV1881-2A	6XV1840-4AH10	6XV1840-2R
product type designation	IE FC TP FRNC Cable GP 2x2 (Type B)	IE FC TP Food Cable 2x2 (Type C)	IE FC TP Robust Food Cable GP 2X2 (Type C)	IE FC TP Marine Cable 2x2 (Type B)	IE TP Robot Cable GP, 2x2 (PROFINET Typ R)
product description	Flexible halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Flexible bus cable (4-core), sold by the meter, unassembled	Robust, flexible bus cable (4-core), sold by the meter, unassembled	Halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Highly flexible bus cable (4-core), sold by the meter, unassembled
mechanical data					
number of electrical cores	4	4	4	4	4
design of the shield	SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires	SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires	SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires	SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
type of electrical connection FastConnect	Yes	Yes	Yes	Yes	No
core diameter					
• of AWG22 insulated conductor	0.75 mm	0.75 mm	0.75 mm	0.75 mm	0.74 mm
outer diameter					
• of inner conductor	0.75 mm	0.75 mm	0.75 mm	0.75 mm	0.74 mm
• of the wire insulation	1.5 mm	1.5 mm	1.56 mm	1.5 mm	1.6 mm
• of the inner sheath of the cable	3.9 mm	3.9 mm	4 mm	3.9 mm	5 mm
• of cable sheath	6.5 mm	6.5 mm	6.5 mm	6.5 mm	6.5 mm
symmetrical tolerance of the outer diameter of cable sheath	0.2 mm	0.2 mm	0.2 mm	0.2 mm	0.2 mm
material					
• of the wire insulation	PP	polyethylene (PE)	polyethylene (PE)	PP	Polypropylene (PP)
• of the inner sheath of the cable	FRNC	FRNC	PVC	FRNC	
• of cable sheath	FRNC	PE	PVC/FEP; FEP transparent	FRNC	PUR
color					
• of the insulation of data wires	white/yellow/blue/orange	white/yellow/blue/orange	white/yellow/blue/orange	white/yellow/blue/orange	white/yellow/blue/orange
• of cable sheath	green	Black	green	green	green
bending radius					
• with single bend minimum permissible	39 mm	20 mm	26 mm	39 mm	32.5 mm
• with multiple bends minimum permissible	97.5 mm	49 mm	52 mm	97.5 mm	
• with continuous bending			100 mm		75 mm
number of bending cycles			500 000; Acceleration 4 m/s²		5 000 000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, a speed of 5 m/s, and an acceleration of 20 m/s²
number of torsion cycles with torsion by ± 180° on 1 m cable length			1 000 000		5 000 000
tensile load maximum	150 N	150 N	150 N	150 N	100 N
weight per length	68 kg/km	55 kg/km	72 kg/km	68 kg/km	63 kg/km

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Technical specifications (continued)

Article number	6XV1871-2F	6XV1871-2L	6XV1881-2A	6XV1840-4AH10	6XV1840-2R
product type designation	IE FC TP FRNC Cable GP 2x2 (Type B)	IE FC TP Food Cable 2x2 (Type C)	IE FC TP Robust Food Cable GP 2X2 (Type C)	IE FC TP Marine Cable 2x2 (Type B)	IE TP Robot Cable GP, 2x2 (PROFINET Typ R)
product description	Flexible halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Flexible bus cable (4-core), sold by the meter, unassembled	Robust, flexible bus cable (4-core), sold by the meter, unassembled	Halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Highly flexible bus cable (4-core), sold by the meter, unassembled
ambient conditions					
ambient temperature					
• during operation	-25 ... +70 °C	-40 ... +75 °C	-40 ... +80 °C	-25 ... +70 °C	0 ... 60 °C
• during storage	-40 ... +75 °C	-50 ... +75 °C	-40 ... +80 °C	-40 ... +85 °C	-20 ... +80 °C
• during transport	-40 ... +75 °C	-50 ... +75 °C	-40 ... +80 °C	-40 ... +85 °C	-20 ... +80 °C
• during installation	0 ... 50 °C	-20 ... +60 °C	-40 ... +80 °C	0 ... 50 °C	0 ... 60 °C
• note	electrical properties measured at 20 °C	electrical properties measured at 20 °C	Electrical properties measured at 20 °C, tests according to DIN VDE 0472	electrical properties measured at 20 °C	electrical properties measured at 20 °C
ambient condition for operation				Temperature range for permanent installation -40 °C to 85 °C	temperature range for permanent installation -20 °C to 80 °C
fire behavior	flame resistant according to IEC 60332-3-22 (Category A/F), IEC 61034-2	inflammable	flame resistant according to IEC 60332-1-2	flame resistant according to IEC 60332-3-22 (Category A/F), smoke density according to IEC 61034-1/2	flame-resistant according to IEC 60332-1-2 and flame retardant acc. to UL 1581, Sec. 1061
class of burning behaviour according to EN 13501-6	Cca S1a d0 a1	Fca	Eca	Eca	Eca
chemical resistance					
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)	oil resistant according to IEC 60811-2-1 (4 h / 70°C)	oil resistant according to IEC 60811-404 (7x24h/90°C)	conditional resistance, IEC 60811-2-1 (4 hours / 70 °C)	oil-resistant according to DIN EN 60811-404 (7 x 24 h/90 °C)
• to grease	Conditional resistance	Conditional resistance	Conditional resistance	Conditional resistance	Conditional resistance
• to water	conditional resistance	Resistant	resistant	conditional resistance	conditional resistance
radiological resistance to UV radiation	resistant	resistant	resistant	resistant	resistant
product features, product functions, product components general					
product feature					
• halogen-free	Yes; halogen-free according to IEC 60754-1/2	Yes	No	Yes	No
• PoE capability	Yes	Yes	Yes	Yes	Yes
• PoE+ capability	Yes	Yes	Yes	Yes	Yes
• silicon-free	Yes	Yes	Yes	Yes	Yes
• low-emission according to IEC 61034-2	Yes				
wire length for Industrial Ethernet					
• with 100BaseTX	100 m	100 m	85 m	85 m	100 m
test voltage					
• at AC core-to-core	2 000 V	2 000 V		2 000 V	2 000 V
• at AC core shield	2 000 V	2 000 V		2 000 V	2 000 V

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Technical specifications (continued)

Article number	6XV1871-2F	6XV1871-2L	6XV1881-2A	6XV1840-4AH10	6XV1840-2R
product type designation	IE FC TP FRNC Cable GP 2x2 (Type B)	IE FC TP Food Cable 2x2 (Type C)	IE FC TP Robust Food Cable GP 2X2 (Type C)	IE FC TP Marine Cable 2x2 (Type B)	IE TP Robot Cable GP, 2x2 (PROFINET Typ R)
product description	Flexible halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Flexible bus cable (4-core), sold by the meter, unassembled	Robust, flexible bus cable (4-core), sold by the meter, unassembled	Halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Highly flexible bus cable (4-core), sold by the meter, unassembled
standards, specifications, approvals					
UL/ETL listing 300 V Rating	Yes; c(ETL)us, CMG / PLTC / Sun Res / OIL RES	No	Yes; c(ETL)us 3047254, CMG FT4 75°C, (ETL)us PLTC-ER, SUN RES, OIL RES I or E130266 AWM 22162 AWM I A/B 80°C 600V	Yes; cULus / CMG / PLTC / Sun Res	Yes; c(ETL)us 3047254 CMX 75°C
UL/ETL style 600 V Rating	Yes; cRUus AWM 22375 AWM I A/B 60°C 600V FT2	No	No	No	Yes; E502506-LFR cRUus AWM 21223 AWM I/II A/B 80°C 600V FT1
certificate of suitability					
• EAC approval	Yes	Yes	Yes	Yes	Yes
• CE marking	Yes	Yes	Yes	Yes	Yes
• RoHS conformity	Yes	Yes	Yes	Yes	Yes
• for hygienic design			EHEDG, Installation and layout of the cables must fulfil the requirements of EHEDG published in the Guidelines Doc. 13 'Hygienic Design of open equipment for processing food' and Doc. 44 'Hygienic Design Principles for food factories' to be accessible for cleaning. Also connections must be easily cleanable by using EHEDG certified cable glands or connectors.		
standard for structured cabling	Cat5e	Cat5e	Cat5e	Cat5e	Cat5e
• resistance to air pollution conformity according to ANSI/ISA-71.04	Yes; G3	Yes; G3		Yes; G3	Yes; G3
Marine classification association					
• American Bureau of Shipping Europe Ltd. (ABS)	No	No	No	Yes	No
• French marine classification society (BV)	No	No	No	Yes	No
• Det Norske Veritas (DNV)	No	No	No	Yes	No
• Germanische Lloyd (GL)	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	Yes	No
• Nippon Kaiji Kyokai (NK)	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	Yes	No
• Royal Institution of Naval Architects (RINA)				Yes	

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Technical specifications (continued)

Article number	6XV1871-2F	6XV1871-2L	6XV1881-2A	6XV1840-4AH10	6XV1840-2R
product type designation	IE FC TP FRNC Cable GP 2x2 (Type B)	IE FC TP Food Cable 2x2 (Type C)	IE FC TP Robust Food Cable GP 2X2 (Type C)	IE FC TP Marine Cable 2x2 (Type B)	IE TP Robot Cable GP, 2x2 (PROFINET Typ R)
product description	Flexible halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Flexible bus cable (4-core), sold by the meter, unassembled	Robust, flexible bus cable (4-core), sold by the meter, unassembled	Halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Highly flexible bus cable (4-core), sold by the meter, unassembled
further information internet links					
internet link					
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
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• to website: Image database	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb	https://www.automation.siemens.com/bilddb
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• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
security information					
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-

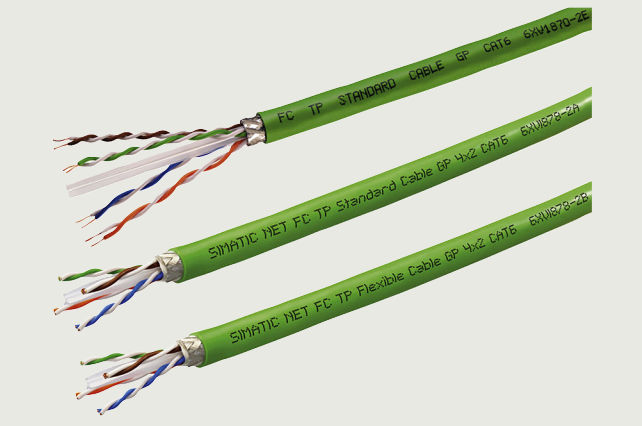
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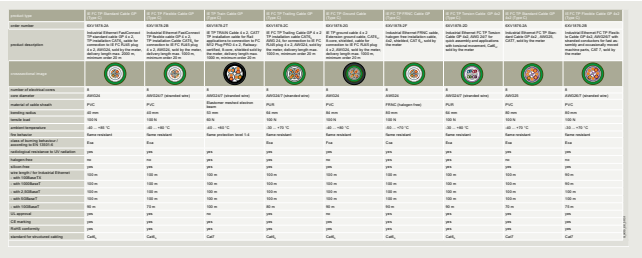
Technical specifications (continued)

Article number	6XV1871-2F	6XV1871-2L	6XV1881-2A	6XV1840-4AH10	6XV1840-2R
product type designation	IE FC TP FRNC Cable GP 2x2 (Type B)	IE FC TP Food Cable 2x2 (Type C)	IE FC TP Robust Food Cable GP 2X2 (Type C)	IE FC TP Marine Cable 2x2 (Type B)	IE TP Robot Cable GP, 2x2 (PROFINET Typ R)
product description	Flexible halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Flexible bus cable (4-core), sold by the meter, unassembled	Robust, flexible bus cable (4-core), sold by the meter, unassembled	Halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled	Highly flexible bus cable (4-core), sold by the meter, unassembled
	industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Overview





[Enlarge image]

Industrial Ethernet data cables with rigid cores and copper wire

- 8-core FastConnect installation cables for cabling system with Gigabit capability (AWG22, AWG24 and AWG26 variants)
- Easy stripping with the FastConnect stripping tool; the protective jacket and the braided shield are stripped accurately in one step
- Connection to IE FC RJ45 modular outlet (AWG22), IE FC RJ45 plug 4 x 2 (AWG24/AWG26) or IE FC M12 plug PRO 4x2 (X-coded, AWG24/AWG26) using insulation displacement method
- Satisfies Category 6 ($Cat6_A$) and Category 7 (Cat7) of the international cabling standards ISO/IEC 11801 and EN 50173
- UL approval
- Easy length measurement thanks to printed meter markings

Selection and ordering data

	Article No.
IE FC TP standard cable GP 4 x 2 8-core, shielded TP installation cable for universal applications; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG24, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC keystone RJ45	**6XV1878-2A**
• Preferred length 1000 m	**6XV1878-2AU10**
• AWG22, only for connection to IE FC modular outlet	**6XV1870-2E**
IE FC TP flexible cable GP 4 x 2 8-core, shielded TP installation cable for occasional movement; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG24, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC keystone RJ45	**6XV1878-2B**
IE FC TP trailing cable GP 4 x 2 8-core, shielded TP trailing cable; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG24, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC keystone RJ45	**6XV1878-2C**
IE TP ground cable 4 x 2 8-core, shielded TP installation cable for occasional movement; with UL approval; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG24, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC Keystone RJ45 (after removing the additional PE protective jacket)	**6XV1878-2G**
IE TP train cable GP 4 x 2 8-core, shielded TP installation cable for use in trains; Cat7; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG24, for connection to IE M12 RJ45 plug PRO 4 x 2	**6XV1878-2T**
IE FC TP FRNC cable GP 4 x 2 8-core, shielded; halogen-free TP installation cable for fixed routing in buildings; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG24, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC keystone RJ45	**6XV1878-2F**
IE FC TP standard cable GP 4 x 2 8-core, shielded TP installation cable for fixed routing; with UL approval; Cat7; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG26, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC keystone RJ45	**6XV1876-2A**

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Selection and ordering data (continued)

	Article No.
IE FC TP flexible cable GP 4 x 2 8-core, shielded TP installation cable for occasional movement; with UL approval; Cat7; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG26, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC keystone RJ45	**6XV1876-2B**
IE FC TP torsion cable GP 4 x 2 8-core, shielded TP installation cable for torsion movement; with UL approval; Cat6$_A$; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	
• AWG24, for connection to IE FC RJ45 plug 4 x 2, IE FC M12 plug PRO 4 x 2, IE FC keystone RJ45	**6XV1878-2D**

Accessories

	Article No.
IE FC stripping tool Pre-adjusted stripping tool for fast stripping of Industrial Ethernet FC cables 4 x 2	**6GK1901-1GA00**
IE FC blade cassettes (5 mm) Replacement blade cassette for the Industrial Ethernet stripping tool, for use with IE FC RJ45 plugs and IE FC RJ45 modular outlet, 5 units	**6GK1901-1GB01**
IE FC RJ45 modular outlet FastConnect RJ45 outlet for Industrial Ethernet with interface for insertion of a replaceable insert	
• **Without replaceable insert**	**6GK1901-1BE00-0AA0**
• **With insert 2FE;** replaceable insert for 2 x 100 Mbps interfaces	**6GK1901-1BE00-0AA1**
• **With insert 1GE;** replaceable insert for 1 x 1000 Mbps interfaces	**6GK1901-1BE00-0AA2**
• **With power insert;** replaceable insert for 1 x 24 V DC and 1 x 100 Mbps interface	**6GK1901-1BE00-0AA3**
IE FC RJ45 modular outlet insert 2FE Replaceable insert for FC modular outlet base; 2 x RJ45 for 2 x 100 Mbps interfaces; 1 pack = 4 units	**6GK1901-1BK00-0AA1**
IE FC RJ45 modular outlet insert 1GE Replaceable insert for FC modular outlet base; 1 x RJ45 for 1 x 1000 Mbps interface; 1 pack = 4 units	**6GK1901-1BK00-0AA2**
IE FC RJ45 plug 4 x 2 RJ45 plug-in connector for Industrial Ethernet with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables 4 x 2; 180° cable outlet; for network components and CPs/CPUs with Industrial Ethernet interface	
• 1 pack = 1 unit	**6GK1901-1BB12-2AA0**
• 1 pack = 10 units	**6GK1901-1BB12-2AB0**
• 1 pack = 50 units	**6GK1901-1BB12-2AE0**
IE FC M12 plug PRO 4 x 2 M12 plug-in connector suitable for on-site assembly (X-coded, IP65/IP67), metal enclosure, insulation/displacement fast connection method	
• 1 unit	**6GK1901-0DB50-6AA0**
• 8 units	**6GK1901-0DB50-6AA8**
IE FC keystone RJ45 4 x 2 RJ45 outlet suitable for on-site assembly, 8-pin; Cat6A, metal enclosure, FC fast connection technology, for mounting on DIN rail and 19" panel	
• 1 unit	**6GK1901-0BE10-0AA0**

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Technical specifications

Article number	6XV1870-2E	6XV1878-2A	6XV1876-2B	6XV1876-2A
product type designation	IE FC TP Standard Cable GP 4x2 (AWG 22)	IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)	IE FC TP flexible cable GP 4x2, CAT7, sold by the meter	IE FC TP standard cable GP 4x2, CAT7, sold by the meter
product description	Standard bus cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled	shielded TP installation cable (8-wire) with rigid cores, sold by the meter, unassembled
product brand name	SIMATIC NET	SIMATIC NET	SIMATIC NET	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1870-2E	https://i.siemens.com/1P6XV1878-2A	https://i.siemens.com/1P6XV1876-2B	https://i.siemens.com/1P6XV1876-2A
suitability for use	Standard cable with rigid cores for fast, permanent installation	Standard cable with rigid cores for fast, permanent installation	Flexible cable for quick assembly, for occasionally moving machine parts	Standard cable with rigid cores for fast, permanent installation
cable designation	2YH (ST) C 4X2X0.64/1.25-100 GN 4x2xAWG22	SF/UTP, 2YH (ST) CY 4x2x0,5/1,0 GN	SF/FTP, 02YSCY 4X2X0.5/1.15-100 LI PIMF GN	SF/FTP, 2YCY 4X2X0.45/1.15-100LI PIMF GN
wire length	sold by the meter	sold by the meter		
electrical data				
attenuation factor per length				
• at 10 MHz maximum	60 dB/km	58 dB/km	88 dB/km	59 dB/km
• at 100 MHz maximum	190 dB/km	191 dB/km	285 dB/km	190 dB/km
• at 250 MHz maximum	330 dB/km	311 dB/km		
• at 300 MHz maximum		0.343 dB/m	0.513 dB/m	0.342 dB/m
• at 500 MHz maximum		0.453 dB/m		
• at 600 MHz maximum			0.751 dB/m	0.501 dB/m
impedance				
• at 1 MHz ... 100 MHz	100 Ω	100 Ω	100 Ω	100 Ω
relative symmetrical tolerance				
• of the characteristic impedance at 1 MHz ... 100 MHz	5 %			
near-end crosstalk per length				
• at 1 MHz ... 100 MHz		0.453 dB/m		
• at 1 MHz ... 250 MHz	383 dB/km	393 dB/km		
• at 1 MHz ... 300 MHz		0.381 dB/m		
• at 1 MHz ... 500 MHz		0.348 dB/m		
• at 10 MHz			0.78 dB/m	0.78 dB/m
• at 100 MHz			0.724 dB/m	0.724 dB/m
• at 300 MHz			0.653 dB/m	0.652 dB/m
• at 600 MHz			0.608 dB/m	0.607 dB/m
coupling loss at 30 MHz ... 100 MHz minimum		80 dB		
transfer impedance per length at 10 MHz	10 mΩ/m	20 mΩ/m		
loop resistance per length maximum	118 mΩ/m	190 mΩ/m	290 mΩ/m	290 mΩ/m
insulation resistance coefficient	5 000 GΩ·m	5 000 GΩ·m		
operating voltage				
• RMS value	80 V	80 V	100 V	100 V
• maximum		80 V	100 V	100 V
NVP value in percent	63 %	67 %	69 %	69 %

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Technical specifications (continued)

Article number	6XV1870-2E	6XV1878-2A	6XV1876-2B	6XV1876-2A
product type designation	IE FC TP Standard Cable GP 4x2 (AWG 22)	IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)	IE FC TP flexible cable GP 4x2, CAT7, sold by the meter	IE FC TP standard cable GP 4x2, CAT7, sold by the meter
product description	Standard bus cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled	shielded TP installation cable (8-wire) with rigid cores, sold by the meter, unassembled
mechanical data				
number of electrical cores	8	8	8	8
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires	SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires	SF/FTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires, central shielding wire of the line must be connected to the shield contact during plug assembly (see assembly video)	SF/FTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires, central shielding wire of the line must be connected to the shield contact during plug assembly (see assembly video)
type of electrical connection FastConnect	Yes	Yes	Yes	Yes
core diameter				
• of AWG22 insulated conductor	0.64 mm			
• of AWG24 insulated conductor		0.51 mm		
• of AWG26 insulated conductor			0.47 mm	
outer diameter				
• of inner conductor	0.64 mm	0.51 mm	0.47 mm	0.45 mm
• of dielectric				3.8 mm
• of the wire insulation	1.25 mm	1 mm	1.15 mm	1.15 mm
• of the inner sheath of the cable	7.6 mm	6.1 mm		
• of cable sheath	9.6 mm	8 mm	8 mm	8 mm
symmetrical tolerance of the outer diameter of cable sheath	0.3 mm	0.2 mm	0.2 mm	0.2 mm
material				
• of the wire insulation	polyethylene (PE)	polyethylene (PE)	polyethylene (PE)	polyethylene (PE)
• of the inner sheath of the cable	PVC	FRNC		
• of cable sheath	PVC	PVC	PVC	PVC
color				
• of the insulation of data wires	white/blue, white/orange, white/green, white/brown	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
• of cable sheath	green	green	green	green
bending radius				
• with single bend minimum permissible	38 mm	24 mm	40 mm	40 mm
• with multiple bends minimum permissible	80 mm	40 mm	80 mm	80 mm
tensile load maximum	180 N	100 N	100 N	100 N
weight per length	117 kg/km	74.5 kg/km	65 kg/km	69 kg/km

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Technical specifications (continued)

Article number	6XV1870-2E	6XV1878-2A	6XV1876-2B	6XV1876-2A
product type designation	IE FC TP Standard Cable GP 4x2 (AWG 22)	IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)	IE FC TP flexible cable GP 4x2, CAT7, sold by the meter	IE FC TP standard cable GP 4x2, CAT7, sold by the meter
product description	Standard bus cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled	shielded TP installation cable (8-wire) with rigid cores, sold by the meter, unassembled
ambient conditions				
ambient temperature				
• during operation	-40 ... +80 °C	-40 ... +85 °C	-30 ... +70 °C	-40 ... +70 °C
• during storage	-40 ... +80 °C	-40 ... +80 °C	-40 ... +70 °C	-40 ... +70 °C
• during transport	-40 ... +80 °C	-40 ... +80 °C	-40 ... +70 °C	-40 ... +70 °C
• during installation	-40 ... +80 °C	-40 ... +80 °C	-30 ... +70 °C	-30 ... +70 °C
ambient condition for operation		Temperature range for permanent installation -40 °C to +85 °C	temperature range for permanent installation -40 °C to +70 °C	
fire behavior	flame resistant according to IEC 60332-1	flame resistant according to IEC 60332-3-24 (Category C)	flame resistant according to IEC 60332-1-2	flame resistant according to IEC 60332-1-2
class of burning behaviour according to EN 13501-6	Eca	Eca	Eca	Eca
chemical resistance				
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)	oil resistant according to IEC 60811-2-1 (4 h / 70°C)	oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C)	oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C)
• to grease	Conditional resistance	Conditional resistance	Conditional resistance	Conditional resistance
• to water	conditional resistance	conditional resistance	conditional resistance	conditional resistance
radiological resistance to UV radiation	resistant	resistant	resistant	resistant
product features, product functions, product components general				
product feature				
• halogen-free	No	No	No	No
• PoE capability	Yes	Yes	Yes	Yes
• PoE+ capability	Yes	Yes	Yes	Yes
• PoE++ capability		Yes	Yes	Yes
• silicon-free	Yes	Yes	Yes	Yes
wire length for Industrial Ethernet				
• with 100BaseTX	90 m	100 m	90 m	100 m
• with 1000BaseT	90 m	100 m	90 m	100 m
• for 10GBase T		90 m	75 m	70 m
• for 2.5GBaseT			100 m	100 m
• for 5GBaseT			100 m	100 m
test voltage				
• at AC core-to-core	2 000 V	2 000 V	2 000 V	2 000 V
• at AC core shield	2 000 V	2 000 V	2 000 V	2 000 V

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Technical specifications (continued)

Article number	6XV1870-2E	6XV1878-2A	6XV1876-2B	6XV1876-2A
product type designation	IE FC TP Standard Cable GP 4x2 (AWG 22)	IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)	IE FC TP flexible cable GP 4x2, CAT7, sold by the meter	IE FC TP standard cable GP 4x2, CAT7, sold by the meter
product description	Standard bus cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled	shielded TP installation cable (8-wire) with rigid cores, sold by the meter, unassembled
standards, specifications, approvals				
UL/ETL listing 300 V Rating	Yes; c(UL)us / CMG / cRU AWM I A/B 60°C 300V FT2 / Sun Res	Yes; c(UL)us, CMG, AWM-Style 21500, cRU AWM I A/B 60°C 300V FT2	Yes; c(ETL)us 3047254 CM 75°C	Yes
UL/ETL style 600 V Rating	No	No	Yes; E502506 cRUus AWM 21695 I A/B 80°C 600V FT2	Yes
certificate of suitability				
• EAC approval	Yes	Yes	Yes	Yes
• CE marking	Yes	Yes	Yes	Yes
• RoHS conformity	Yes	Yes	Yes	Yes
product conformity				
• ANSI/TIA-EIA 568-B.2 Cat.5e		Yes	Yes	Yes
• IEC 61784-5-2-CP 2/2 (Ethernet/IP)		Yes	Yes	Yes
standard for structured cabling	Cat6A	Cat6A	Cat7	Cat7
• resistance to air pollution conformity according to ANSI/ISA-71.04	Yes; G3	Yes; G3	Yes; G3	Yes; G3
Marine classification association				
• American Bureau of Shipping Europe Ltd. (ABS)	No	No	No	No
• French marine classification society (BV)	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No
• Germanische Lloyd (GL)	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No
• Nippon Kaiji Kyokai (NK)	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No
further information internet links				
internet link				
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/10976-6358	https://support.industry.siemens.com/cs/ww/en/view/10976-6358	https://support.industry.siemens.com/cs/ww/en/view/10976-6358	https://support.industry.siemens.com/cs/ww/en/view/10976-6358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: SiePortal	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/	https://sieportal.siemens.com/
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• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
security information				
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products

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Technical specifications (continued)

Article number	6XV1870-2E	6XV1878-2A	6XV1876-2B	6XV1876-2A
product type designation	IE FC TP Standard Cable GP 4x2 (AWG 22)	IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)	IE FC TP flexible cable GP 4x2, CAT7, sold by the meter	IE FC TP standard cable GP 4x2, CAT7, sold by the meter
product description	Standard bus cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core), sold by the meter, unassembled	Shielded TP installation cable (8-core) with flexible cores, sold by the meter, unassembled	shielded TP installation cable (8-wire) with rigid cores, sold by the meter, unassembled
	and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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8/2	**Training Services**
8/2	SITRAIN
8/5	**Standards and approvals**
8/5	Standards and approvals
8/6	**Competence Center**
8/6	WinCC Competence Center
8/7	**Siemens Automation Cooperates with Education (SCE)**
8/7	Teaching made easy - Comprehensive support on the way to Industry 4.0
8/11	**Partners at Siemens**
8/11	Siemens Partner Program
8/13	Partners
8/14	**Service Options**
8/14	Siemens Service Option for SIMATIC IPC
8/15	Expertise and services relating to all aspects of PC-based Automation
8/16	**Licenses**
8/16	Software licenses
8/18	**Conditions of sale and delivery**
8/18	Conditions of sale and delivery

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Overview



Lern the way you like it – with SITRAIN

SITRAIN provides comprehensive technical knowledge for a wide range of industries and applications. Its offering is consistently aligned with the needs of learners and the requirements of innovative companies. Benefit from modern learning methods, personalized support, and practical knowledge that sustainably enhances your daily work and professional development. SITRAIN stands for successful, flexible, and continuous learning.

Education and training directly from the manufacturer

SITRAIN offers high-quality training covering Siemens' industrial product and solution portfolio and has more than 30 years of experience in technical training. Discover the wide range of opportunities to expand your expertise and find the course that perfectly fits your needs.



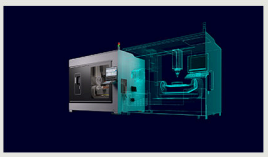
Industrial Automation Systems SIMATIC

Training available for:
SIMATIC S7-1200/S7-1500. TIA Portal,
SIMATIC S7-300/400



Drive Technology

Training available for:
SINAMICS S120, S210,
SINAMICS G120, G220,
SINAMICS G130/G150/S150,
SINAMICS G180,
SINAMICS DCM



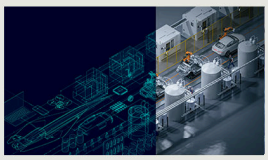
SINUMERIK CNC automation system

Training available for:
SINUMERIK 840D,
SINUMERIK 840D sl and
SINUMERIK ONE



Process Control Systems

Training available for:
SIMATIC PCS 7,
SIMATIC PCS neo



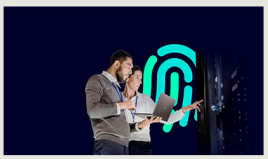
Digital Enterprise

Training available for:
Openness, SIMIT, OPC UA,
Industrial Edge,
virtual commissioning



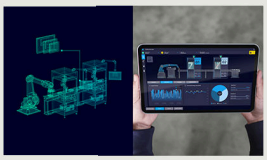
Industrial Communications

Training available for:
OPC UA, PROFINET, SCALANCE, RUGGEDOM, Industrial Ethernet, Remote Communication



Cybersecurity

Training available for:
Industrial security for factory and process automation,
SINEC Security Software Suite and IT/OT security for industrial networks



Operator Control and Monitoring Systems

Training available for:
SIMATIC WinCC Unified in TIA Portal, SIMATIC WinCC in TIA Portal, SIMATIC WinCC V8



Motion Control

Training available for:
SIMATIC Motion Control and SIMOTION



Smart Infrastructure

Training available for
SIRIUS, SENTRON, SIVACON, ALPHA, SIMOCODE and circuit breakers



Process Analytics & Instrumentation

Training is available for process analytics and instrumentation and explosion protection



Additional training offer

SIMOVE with automated guided vehicles (AGV), cranes, guidelines and standards for control cabinets

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Overview (continued)

Different learning formats and methods for maximum learning success

With SITRAIN trainings, you can shape your further education according to your individual preferences and the demands of your professional routine. You have the option to choose between online training and classroom courses – depending on which format suits you best.

In addition, you decide whether to complete your training flexibly on demand or attend scheduled sessions.

Whether with a learning consultant, as part of a team, or through self-paced learning – SITRAIN offers maximum flexibility and tailored options for your learning process.

Discover our three learning formats:

Learning Event



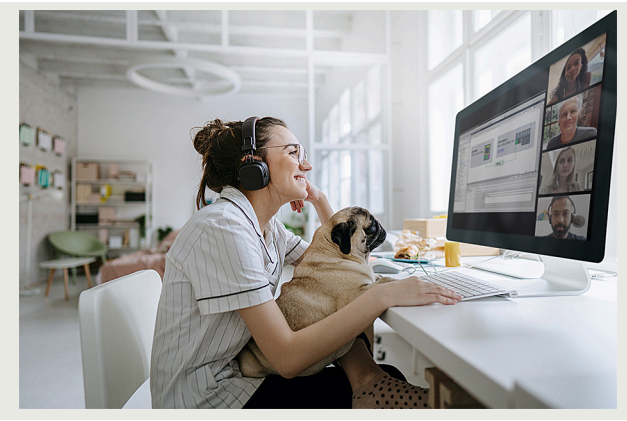
SITRAIN Learning Events are the perfect choice to achieve a defined learning goal in the shortest possible time. You learn in a protected learning environment outside of the daily work routine under the guidance of a learning consultant – virtually, in the training center, or at your company.

Learning Membership I SITRAIN access



SITRAIN access is a digital learning platform where knowledge is delivered through modular content such as tutorials, presentations, exercises, and tests. Learners benefit from a growing course offering as well as the Siemens Virtual Lab, where they can deepen their knowledge in a practical way – without the need for installation. Learn anywhere, anytime, flexibly and online.

Learning Journey



The Learning Journey is the perfect combination of virtual live sessions with a learning consultant and self-learning modules for sustainable learning success. The modular approach enables an easy integration of learning into your daily work. This also includes access to the digital learning platform, SITRAIN access, for one year.

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Overview (continued)

Live
Learn together with others, simultaneously and guided by a learning consultant. Online, in the SITRAIN training center or at your company.

Self-reliant
Expand your knowledge self-determined with industry learning and work on your learning units at your own pace and according to your own schedule.

On demand
Get the knowledge you need, exactly when you need it. Be it to answer a current question or to work on a special topic.

Individual
Talk directly with the learning consultant, clarify detailed questions and get personal coaching for transferring the learned topics to your own application.



More information
https://www.siemens.com/sitrain
Course booking
https://sitrain.siemens.com
Training cases
https://www.siemens.com/sitrain-catalog-training-cases

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Overview

Operating system licenses for SIMATIC PC/PG

The accompanying operating system license is only valid for installation on the supplied SIMATIC PC/PG.

Installation can only be performed on these SIMATIC systems in accordance with Microsoft OEM licensing regulations.

Standards UL (U) and CSA (C)

All HMI products comply with the standards UL (U) and CSA (C), or the approval procedure has been applied for.

Products which have no approval are specially marked (see ordering data of the products).

CE marking

The electronic products described in this catalog comply with the requirements and protection objectives of the following EC-directives insofar as they relate to the product concerned. They also comply with the corresponding harmonized European standards (EN) published for these products in the Official Journals of the European Community.:

- Directive 2004/108/EC of the European Parliament and Council on the approximation of the laws of the Member States relating to electromagnetic compatibility (EMC Directive)
- Directive 2006/95/EC of the European Parliament and of the Council on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits (Low Voltage Directive)
- Directive 94/9/EC of the European Parliament and the Council on approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres (ATEX Directive)
- Directive 1999/5/EC of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity (RTTE Directive)

The originals of the declarations of conformity are kept available by us for the responsible supervisory authorities.

They are also available for download on the Siemens Industry Online Support website (https://sieportal.siemens.com), keyword "Declaration of Conformity".

Note on the Directives:

The installation instructions in the manuals must be adhered to when installing and operating the products described in this catalog. These contain, for example, important information on installation in cabinets and on the use of shielded cables.

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Overview

The WinCC Competence Centers are Siemens-internal partners. They offer a wide range of products and services designed to make optimal economic and system-oriented use of the openness and integration capability of WinCC.

In addition to the development of standard solutions/add-on products, they are authorized to implement customized/industry-specific solutions in the areas of application development and system integration on the basis of WinCC.

The portfolio is rounded off with consulting services, projectrelated training, and workshops for decision-makers and users.

Sector competence in addition to automation expertise and WinCC system know-how ensure professional and efficient solutions. The software is, of course, developed in compliance with recognized standards on the basis of certified quality management in accordance with ISO 9001.

More information is available on the internet at:

www.siemens.com/process-management

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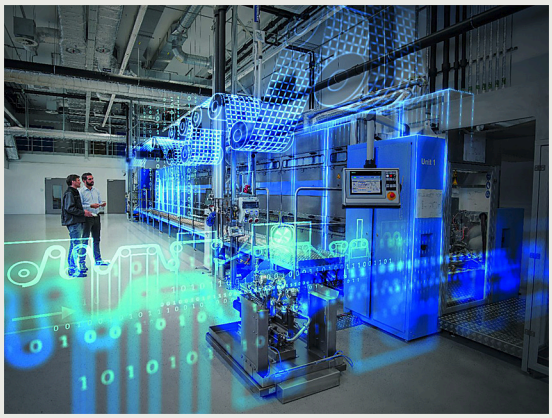
Overview

Knowledge & technology – the keystones to success in digitalization



Digitalization is quickly and radically changing our world. What does this mean for education?

In the world of Industry 4.0, companies can expect a host of new opportunities and challenges. New systems are verified on the spot through simulations. Automated mass production processes can make every product on the conveyor belt a unique product.



New products are now market-ready much faster. Siemens is shaping this transformation as a technology leader in the field of automation and process lifecycle management (PLM).

These new digitalization processes are changing the know-how requirements for employees. Many educational institutions are facing the challenge of conveying Industry 4.0 know-how as part of their teaching and training. The Siemens Automation Cooperates with Education (SCE) program is supporting educators on the way to Industry 4.0.

The SCE digitalization concept for educators

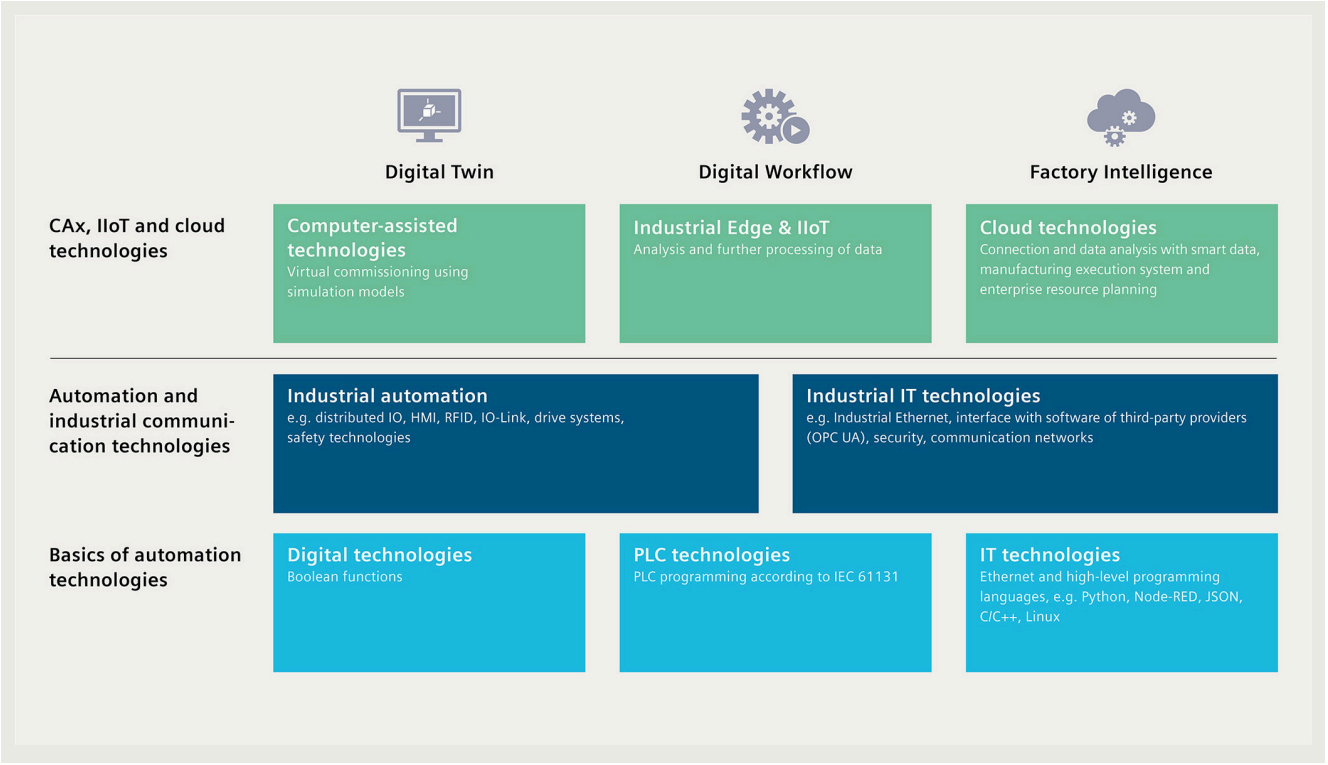
The SCE digitalization concept presented here shows how digitalization can be implemented in educational institutions – from vocational schools to universities.

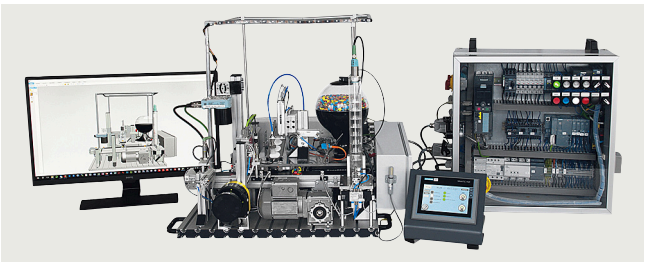
Digitalization (or Industry 4.0) know-how is now introduced through computer aided technology, Industrial Edge and IIoT as well as Cloud technologies. It is founded on the basics of automation, such as digital technologies, PLC and information technologies, and on advanced automation and industrial communication technologies.

The level of digitalization knowledge can be weighted, depending on the vocational field or branch of study –
e.g. mechanical engineering, automation engineering or computer science.

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Overview (continued)





As part of their project work, students at Vocational School 2 in Wolfsburg, Germany, have implemented the three levels of the SCE Industry 4.0 concept. A virtual twin created with the Siemens NX Mechatronics Designer (MCD) CAD software was used for the design and virtual commissioning. This enables fast and efficient assembly of the real automation system, e.g. with SIMATIC S7-1500/ET 200SP/RFID, for use in classes. Production data, such as the number of bottles filled, production date and system parameters, are uploaded to a cloud using SIMATIC IOT2000.

Please find further information under this link and this link.

The SCE offers

Learning and training documents



More than 100 didactically prepared learning and training documents are available through SCE and incorporate the digitalization concept. They are designed for use in classes, but can also be customized or used for individual study. These documents are available for free download, most of them in 7 languages.

Please find further information under this link.

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Overview (continued)

Trainer packages



The 90 SCE trainer packages help educators teaching and implementing the SCE digitalization concept. Trainer packages comprise specially compiled, genuine Siemens hardware and software products. The trainer packages are based on the learning and training documents and are offered to schools, colleges and universities at special terms.

Please find further information under this link.

Educator courses

Excellent teaching content is needed to introduce students to digitalization. For this purpose, SCE holds educator courses in certain regions. Based on our learning and training documents and through practical exercises, educators acquire the latest Industry 4.0 know-how.

Please find further information under this link.

Support for your projects / textbooks

We support you on selected projects with advice and assistance from SCE contact partners.

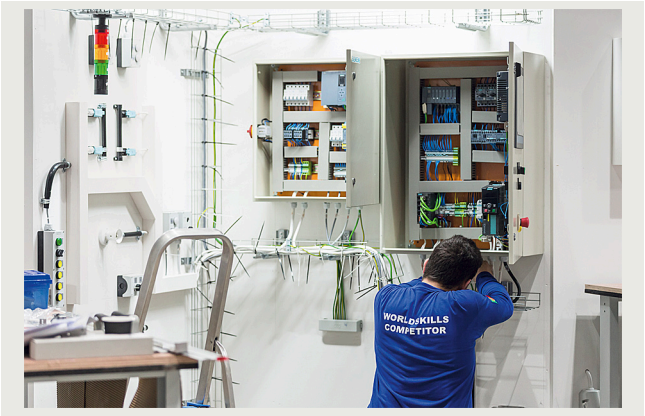
As a special service, we support textbook authors. We maintain a list of textbooks on the SCE website

Please find further information under this link und this link.

Partnerships for proliferation of Industry 4.0 in education

Partnership with WorldSkills





As a technology powerhouse, we support vocational training of students around the world. Since 2010, we have partnered with WorldSkills as a Global Industry Partner in order to amplify this cause.

WorldSkills is an international organization whose mission is to raise the profile and recognition of skilled people, and show how important vocational skills are in achieving economic growth and personal success. Every two years, WorldSkills hosts the world championships of skills.

Siemens provides the competitors with automation products, such as SIMATIC S7-1500 and LOGO!, for the disciplines: industrial control, electrical installations, Polymechanics/Automation and manufacturing technology.

Additionally, we support selected continental and regional competitions.

Please find further information under this link.

Partnerships with educators

We provide support to educators and educational organizations in the form of one-on-one advice through SCE contact partners and Siemens experts as well as long-term cooperation.

Please find further information under this link.

Partnerships with producers of learning systems

For practical training in classrooms and labs, numerous producers of learning systems offer a wide range of complete didactic solutions based on SCE trainer packages

Please find further information under this link.

Information portal



To facilitate your teaching assignment and/or for selfstudy, we offer educators and students a comprehensive SCE information portal. At this portal you have quick access to all SCE offers, e.g. learning and

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Overview (continued)

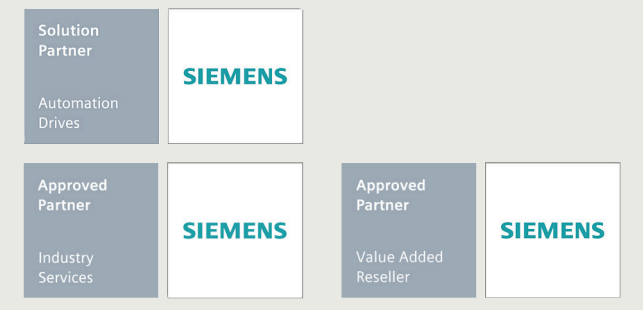
training documents including projects, Getting Started information, videos, manuals, trial software and newsletters.

Please find further information under this link.

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Overview

Siemens Solution and Approved Partners – Helping you to success



Superior competence in automation and drive technology

Siemens works in close collaboration with selected partner companies worldwide to ensure that the automation and drive technology requirements of its customers are complied with to the greatest extent possible – at all times and in any location.

We place great value on our customers acting in accordance with the same ideals which characterize Siemens as a whole: Competence, professionalism and quality. That is why continuous development through qualification and certification measures in line with global standards is a central aspect of our Partner Program. This means that with our partners, you benefit from the same high quality standards all over the world. The partner emblem is the symbol for tried and tested quality.

The partner network for industry

Competence and experience in your region: Provided by the Siemens Partner Program.

We work with both Solution Partners and Approved Partners within the context of our global network. At present we cooperate with more than 1,500 Solution Partners around the world. And we continue to expand our network of over 150 Approved Partners in more than 80 countries worldwide.

Siemens Solution Partner – Automation Drives



At present we cooperate with more than 1,500 **Solution Partners** around the world. They are characterized by extensive application, system and sector knowledge, as well as proven project experience, and are able to implement future-proof tailored solutions of the highest quality, based on our product and system portfolio.

Overview (continued)

Siemens Approved Partner – Value Added Reseller



With their detailed technical knowledge, **Siemens Approved Partners – Value Added Resellers** offer a combination of products and services that range from specialist technologies and customized modifications to the provision of high-quality system and product packages. They also provide qualified technical support and assistance.

Siemens Approved Partner – Industry Services



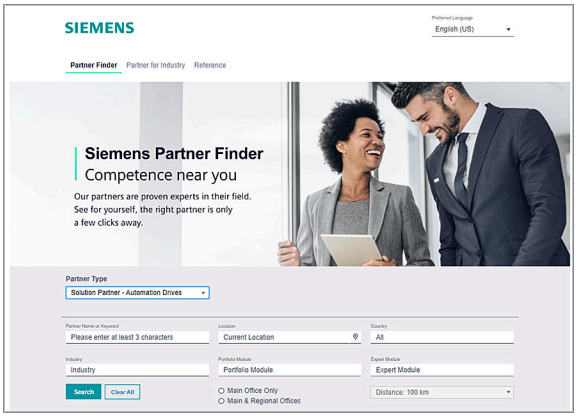
Siemens Approved Partner – Industry Services: put their unique expertise entirely at the service of enhancing your productivity and can be instrumental in ensuring the availability of your plants.

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Overview (continued)

Partner Finder

Just a few clicks away from the ideal partner for your task!



Partner Finder

In the Siemens global Solution Partner program, customers are certain to find the optimum partner for their specific requirements - with no great effort. The Partner Finder is basically a comprehensive database that showcases the profiles of all our solution partners.

Easy selection:
Set filters in the search screen form according to the criteria that are relevant to you. You can also directly enter the name of an existing partner.

Skills at a glance:
Gain a quick insight into the specific competencies of any particular partner with the reference reports.

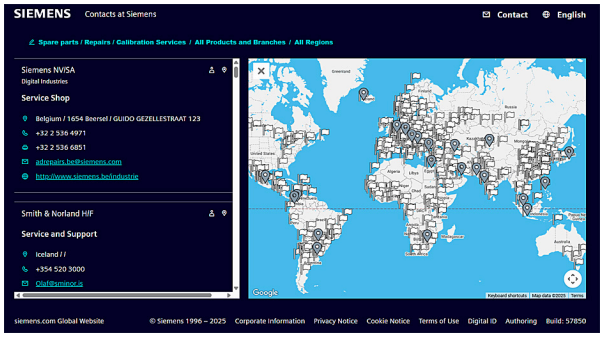
Direct contact option:
Use our electronic query form under this link.

More information regarding Siemens Partners for industry is available from the Internet under this link.

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Overview

Partners at Siemens



At your service locally, around the globe for consulting, sales, training, service, support, spare parts on the entire portfolio of Siemens.

Your partner can be found in our Personal Contacts Database at: www.siemens.com/automation-contact

You start by selecting the required competence, products and branches, a country and a city or by a location search or free text search.

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Siemens Service Option for SIMATIC IPC

Overview

The expanded hardware service for SIMATIC IPC products

Purchasing and registering this additional agreement for a SIMATIC IPC extends the time period for free repairs of this device to 36 or 48 months after delivery.

Scope of services of the service option within the period of service (36/48 months):

- Free[1] repair during the period of service at one of our authorized repair centers near you
  The addresses of our worldwide partners can be found on the Internet at www.siemens.com/asis
- Within the agreed contractual period, Siemens will bear the costs that are incurred in the repair center (labor and materials/replacement parts), which are needed to restore the functions[2] of the hardware
- Siemens will also assume the return shipping costs of the repaired device from the repair center to the customer

1) Wear and tear as well as problems that arise due to improper handling of the devices are not included.
2) For hard disk defects that require the system to be restored, the repair service will only cover restoring the installation to its original condition exworks. The uploading of additional application software, drivers and setting up the operating software are not covered by the free repair service..

Product family	Article No. Service Option	Article designation
SIMATIC Rack PC • SIMATIC IPC347 • SIMATIC IPC547 • SIMATIC IPC647 • SIMATIC IPC847	**6ES7648-4AB36-0AA0** **6ES7648-4AB48-0AA0**	**36** or **48** months service option for SIMATIC Rack PCs and Box PCs
SIMATIC Box PC • SIMATIC IPC227 • SIMATIC IPC327 • SIMATIC IPC427 • SIMATIC IPC627 • SIMATIC IPC827		
SIMATIC Panel PC • SIMATIC IPC277 • SIMATIC IPC377 • SIMATIC IPC477 • SIMATIC IPC577 • SIMATIC IPC677	**6ES7648-4AP36-0AA0** **6ES7648-4AP48-0AA0**	**36** or **48** months service option for SIMATIC Panel PC

Ordering and registering the additional agreement:

- Select the appropriate article number for the optional package based on the product family and place your order
- Scope of supply:
  Description of services in 4 languages + service device label with a license number for identifying the additional agreement on the device
- Activation of the service license number for a SIMATIC PC/SIMATIC PG via the Internet (https://www.siemens.com/ped):
  The registration must be completed within the first 90 days after initial delivery of the device!

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Overview

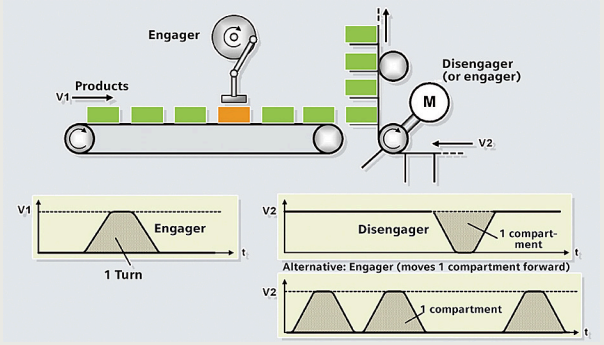
Expertise and services relating to all aspects of PC-based Automation



Do you require support with the dimensioning and options of a PC-based Automation project, or even engineering support?

Specifically for this purpose, Siemens has established a team of specialists in Cologne and Milan who work closely with Development and Product Marketing and can thus provide our sales departments worldwide with competent support in PC-based Automation.

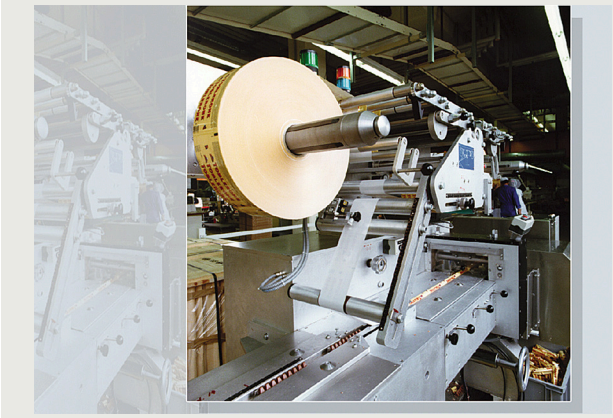
Our core competencies



- Design of PC-based Automation systems from Siemens
- Integrated, customer-specific technology (add-ons) using high-level languages (C++) in Windows or real-time environments
- Knowledge transfer/workshops for the integration of thirdparty components, as well as for applications using the Open Development Kit (ODK)
- Technology and application know-how
- Development of add-ons for WinAC and WinCC flexible

Overview (continued)

Reference applications



- Fast recording of measured values
- Software blocks for drives library
- Customer-specific communications via Ethernet (OPC/ActiveX, TCP socket)
- Synchronous operation, flying shear, table interpolation for electric and hydraulic axes
- Integration of PCI cards into PC-based Automation applications (e.g. WinAC and ASi-Bus)
- Customer-specific development and integration of C++ programs
- Database connections
- Integration of complex control algorithms

Contacts

Activation of the Competence Centers for your application via your regional contact.

If you do not yet have a contact person in your region, just go to this link.

The latest information about the workshops offered can be found on the internet at this link.

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Overview

Software types

Every software subject to a license is assigned to a type.
The following software types are defined:

- Engineering software
- Runtime software

Engineering software

This includes all software products for creating (engineering) user software, e.g. for configuring, programming, parameterizing, testing, commissioning, or servicing. Data generated with Engineering software or executable programs can be duplicated for your own use or for use by third parties free-of-charge.

Runtime software

This includes all software products required for plant/machine operation, e.g. operating system, basic system, system expansions, drivers, etc.
The duplication of the Runtime software or executable programs created with the Runtime software for your own use or for use by third parties is subject to a charge. You can find information about license fees according to use in the ordering data (e.g. in the catalog). Examples of categories of use include per CPU, per installation, per channel, per instance, per axis, per control loop, per variable, etc.
Information about extended rights of use for parameterization/configuration tools supplied as integral components of the scope of delivery of the Runtime software can be found in the accompanying readme files.

License types

Siemens Digital Industries and Smart Infrastructure offers different types of licenses for software:

- Floating license
- Single license
- Rental license
- Rental floating license
- Trial license
- Demo license
- Demo floating license

Floating license

The software may be installed by the licensee for internal use on any number of devices. Only the concurrent user is licensed. The concurrent user is the person using the program. Use begins when the software is started. One license is required for each concurrent user.

Single license

Unlike the floating license, only one installation of the software is permitted per license. The type of use licensed is specified in the ordering data and in the Certificate of License (CoL). Types of use include, for example, per instance, per axis, per channel, etc.
One single license is required for each type of use defined.

Rental license

The rental license supports the "sporadic use" of Engineering software. Once the license key has been installed, the software can be used for a defined time (the operating hours do not have to be consecutive). One license is required for each installation of the software.

Rental floating license

The rental floating license corresponds to the rental license; however, a license is not required for each installation of the software. Instead, one license per object (e.g. user or device) is required.

Overview (continued)

Trial license

A trial license supports "short-term use" of the software in a non-productive context, e.g. for testing and evaluation purposes. It can be transferred to another license.

Demo license

A demo license supports "sporadic use" of the Engineering software in a non-productive context, e.g. for testing and evaluation purposes. It can be transferred to another license. Once the license key has been installed, the software can be used for a defined time (the operating hours do not have to be consecutive).
One license is required for each installation of the software.

Demo floating license

The demo floating license corresponds to the demo license; however, a license is not required for each installation of the software. Instead, one license per object (e.g. user or device) is required.

Certificate of License (CoL)

The CoL is the licensee's proof that the use of the software has been licensed by Siemens. A CoL is required for every type of use and must be kept in a safe place.

Downgrading

The licensee is permitted to use the software or an earlier version/release of the software, provided that the licensee owns such a version/release and its use is technically feasible.

Available versions

Software is constantly being updated. The delivery versions

- PowerPack
- Upgrade

can be used to access these updates.

Existing bug fixes are supplied with the ServicePack delivery version.

PowerPack

PowerPacks are conversion packages used to upgrade to more powerful software.

The licensee receives a new license agreement and Certificate of License (CoL) with the PowerPack. This CoL, together with the CoL for the original product, proves that the new software is licensed.
A separate PowerPack must be purchased for each original license of the software to be replaced.

Upgrade

An upgrade allows a newer, available version of the software to be used under the condition that a license for a previous version has already been acquired. The licensee receives a new license agreement and CoL with the upgrade. This CoL, together with the CoL for the previous version, proves that the new software is licensed.
A separate upgrade must be purchased for each original license of the software to be upgraded.

ServicePack

ServicePacks are used to debug existing products. ServicePacks may be duplicated for use as prescribed according to the number of existing original licenses.

License key

Siemens Digital Industries and Smart Infrastructure offers software products with and without license keys.
The license key serves as an electronic license stamp and is also the "switch" for activating the software (floating license, floating license, etc.)
The complete installation of software products requiring license keys includes the program to be licensed (the software) and the license key (which represents the license).

Software Update Service (SUS)

Within the framework of the SUS contract, you are provided with all software updates for the relevant product at no cost over a period of

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Overview (continued)

one year from the date of invoice. The contract is automatically extended by a further year unless canceled three months before expiration.

The prerequisite for agreeing to an SUS is the presence of the current version of the relevant software.

You can download information on license conditions under this link.

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Overview

1. General Provisions

1.1 Scope

The purchase of hardware, software, cloud services and other services (collectively "Offerings") through this catalog from Siemens Aktiengesellschaft ("Siemens") is subject to the following General Terms and Conditions for the sale of Siemens Offerings ("Catalog T&C"). These Catalog T&C apply only for orders placed with Siemens in Germany. Customer means the entity that places an order via Siemens.

1.2 Order Process

If Customer writes something in the "free choice text" (F), it is solely for Customer's internal order processing and is not reviewed or taken into consideration by Siemens and will not be legally binding.

1.3 Formation of contract

Any information provided in this catalog or in SiePortal does not constitute a binding offer and may contain errors. In particular, illustrations contained in the Offering descriptions, or in Siemens' catalogs are not binding. Any data, statement to dimensions and weights in our Offering descriptions and catalogs are subject to change without prior notice and become only binding upon contract conclusion.

An individual contract between Siemens and Customer is established when Siemens expressly accepts an order from Customer electronically or in another form, or if such acceptance does not occur, when Siemens fulfills Customer's order through delivery or performance. When the order is placed in SiePortal Siemens will send Customer an electronic confirmation of the receipt of the order, which, however, does not constitute an acceptance of the order. Neither is the Customer obligated to place an order, nor is Siemens obligated to accept any orders placed by Customer.

1.4 Additional Terms

Subordinately to these Catalog T&C, the specific terms and conditions in the text of the product description (if available) apply. If the text of the product description says that the specific terms and conditions mentioned there apply exclusively, only those specific terms and conditions apply. If the text of the product description does not contain any specific terms and conditions or if the specific terms and conditions mentioned there do not apply exclusively, the following terms and conditions apply subordinately in the version valid at the time of contract conclusion:

1.4.1 Hardware

- a. "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry ("Grüne Lieferbedingungen"-GL) "[1] and
- b. the Siemens "Terms on Export Control and Electronically Order Processing "[1]

If the hardware contains open-source software those terms prevail over the GL, we will provide a notification with the hardware specifying the applicable terms. The same applies with respect to any third-party software components in the hardware.

1.4.2 Other Offerings than hardware

- a. for software on premise including any associated maintenance and support services:
  the "General Software and Cloud Supplemental Terms (AGB Germany) "[2] and the
  "Specific Supplemental Terms for on-premises Software of Infrastructure & Industry Business[2];
- b. for cloud services:
  the "General Software and Cloud Supplemental Terms (AGB Germany) "[2] and the cloud services product specific terms stated in the product description;
- c. for services:
  the "Services Supplemental Terms (AGB Germany) "[2]; and

Overview (continued)

- d. generally for all Offerings under a. - c.:
  "Base Terms Germany (AGB Germany) "[2].

1.5 Customers with master or frame agreement

To the extent Offerings purchased are covered by an existing master or frame agreement, the terms and conditions of that agreement shall apply instead of these Catalog T&C.

1.6 Payment agreement and data sharing

If Customer can select and selects that a payment agreement shall apply to the order, upon conclusion of the order the payment agreement will apply and prevail over these Catalog T&C.

For the assessment of financing options, Siemens shares information and data in relation to Customer's company obtained within the scope of its business relationship with its affiliates (as defined in the Base Terms Germany (AGB Germany)).

2. Prices, payment terms and price escalation

2.1 Prices

The prices are in € (Euro), EXW INCOTERMS®2020, exclusive packaging.

2.2 Taxes

All prices and expenses stated in the order are exclusive of any taxes, duties, tariffs and any other charges ("Tax"). Customer will pay or refund Siemens for any applicable Tax imposed by any government authority for Customer's use or receipt of the Offerings.

If Customer is exempt from value-added or sales tax, or similar taxes, it must provide a valid, timely, and executed exemption certificate, direct pay permit, or other such government-approved documentation.

If Customer is required by law to deduct or withhold Tax, Customer will increase the amount it pays to Siemens so that Siemens still receives the amount originally invoiced. Customer will promptly provide all tax receipts confirming it has paid Tax or has withheld Tax.

2.3 Price escalation

2.3.1 Price escalation for metal surcharges

To account for fluctuations commodity prices (silver, copper, aluminum, lead, gold, dysprosium and/or neodymium), surcharges will apply to Offerings containing these metals. Surcharges are calculated daily using the Offering's Metal Factor, which defines the applicable commodity and pricing methods. . Details are provided in the exhibit "Metal surcharges "[3]. The surcharges calculated by using these pricing methods will be added to the Offering's price.

If applicable, the Metal Factor is shown with the Offering's price information or listed on SiePortal (https://sieportal.siemens.com).

2.3.2 General price escalation

If, between ordering and delivery, there are any new or modified taxes, duties, tariffs, or equivalent measures that are directly or indirectly applicable to Siemens' offering, including any hardware, software, or service components contained therein, or a price increase of more than 20% for relevant commodities (e.g. electronic components, semiconductors) applies, Siemens reserves the right to adjust the price accordingly.

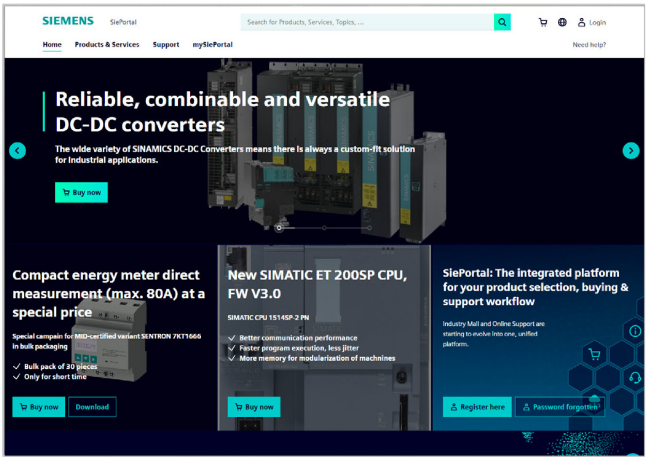
2.4 Price Changes

Prices stated in the SiePortal or in Siemens' catalogs are subject to change without prior notice.

3. Units of measurement and weight

The dimensions and weight of all Offerings are given in meters and kilograms. If the dimensions or weight of the Offerings are specified in other units of measurement, such as inches or pounds, this indicates that these Offerings are intended for export.

[1] Download under www.siemens.com/sts-base-terms-deu
[2] Download under www.siemens.com/sts-st-deu
[3] Download under this link



Easy product selection and ordering with SiePortal

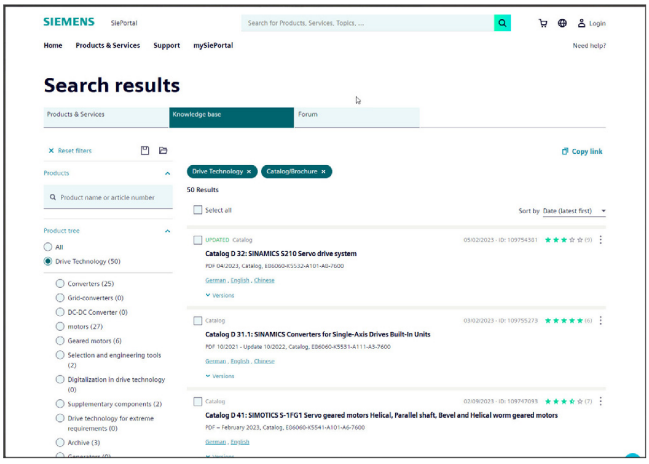
SiePortal > Products & Services

The internet ordering platform of Siemens AG is located in SiePortal. It provides you with online access to a comprehensive product spectrum that is presented in an informative, well-organized way.

Powerful search functions help you select the required products, while configurators enable you to configure complex product and system components quickly and easily. CAx data are also available for you to use.

Data transfer allows the entire procedure, from selection through ordering to tracking and tracing, to be carried out online. Availability checks, individual customer discounting, and quotation preparation are also possible.

https://sieportal.siemens.com



Downloading catalogs

SiePortal > Support > Knowledge base

You can download catalogs and brochures in PDF format from Siemens Industry Online Support without having to register.

The filter box makes it possible to perform targeted searches.

https://sieportal.siemens.com

Cybersecurity information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial cybersecurity measures that may be implemented, please visit
www.siemens.com/cybersecurity-industry

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under
www.siemens.com/cert

Further Information

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