

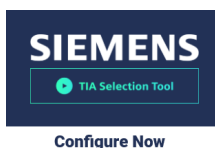


# Siemens Factory Automation 2025

**SIEMENS**

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# control!

## SINAMICS V20

The Sinamics V20 series is the newest addition to the Siemens speed control family, offering simple operation and affordability. Fast commissioning, full resistance to harsh environmental conditions and cost advantage are the key words that define Sinamics V20. In addition to its compact design, the Sinamics V20 series can fully meet general application needs with its options (such as external basic operator panel, parameter loader, memory card, braking resistor). Sinamics V20 has a wide power range from 0.12 kW to 30 kW with seven different sizes. Fans, pumps, compressors and conveyors in industry are the main application areas of the Sinamics V20 speed controller.

### SINAMICS V20

- Easy choice
- Easy assembly
- Easy to use
- Easy saving



[parmley-graham.co.uk/sinamics-v20-entry-3ph](http://parmley-graham.co.uk/sinamics-v20-entry-3ph)



# General Drive Applications SINAMICS V20 - Speed Controllers



Input / Output	Order No	Rated Power (kW)	Rated Output Current (A)	HxWxD* Dimensions
<b>SINAMICS V20 Speed Controllers</b>				
1Phase 230 V / 3 Phase 230 V	6SL3210-5BB11-2UV1	0.12	0.9	142 x 68 x 108
	6SL3210-5BB12-5UV1	0.25	1.7	142 x 68 x 108
	6SL3210-5BB13-7UV1	0.37	2.3	142 x 68 x 108
	6SL3210-5BB15-5UV1	0.55	3.2	142 x 68 x 128
	6SL3210-5BB17-5UV1	0.75	3.9	142 x 68 x 128
	6SL3210-5BB21-1UV1	1.1	6	160 x 90 x 147
	6SL3210-5BB21-5UV1	1.5	7.8	160 x 90 x 147
	6SL3210-5BB22-2UV1	2.2	11	182 x 184 x 169
	6SL3210-5BB23-0UV1	3	13.6	182 x 184 x 169
3 Phase 400 V / 3 Phase 400 V	6SL3210-5BE13-7UV1	0.37	1.3	150 x 90 x 145.5
	6SL3210-5BE15-5UV1	0.55	1.7	150 x 90 x 145.5
	6SL3210-5BE17-5UV1	0.75	2.2	150 x 90 x 145.5
	6SL3210-5BE21-1UV1	1.1	3.1	166 x 90 x 145.5
	6SL3210-5BE21-5UV1	1.5	4.1	166 x 90 x 145.5
	6SL3210-5BE22-2UV1	2.2	5.6	166 x 90 x 145.5
	6SL3210-5BE23-0UV1	3	7.3	160 x 140 x 164.5
	6SL3210-5BE24-0UV1	4	8.8	160 x 140 x 164.5
	6SL3210-5BE25-5UV1	5.5	12.5	182 x 184 x 169
	6SL3210-5BE27-5UV0	7.5	16.5	206.5 x 240 x 172.5
	6SL3210-5BE31-1UV0	11	25	206.5 x 240 x 172.5
	6SL3210-5BE31-5UV0	15	31	206.5 x 240 x 172.5
	6SL3210-5BE31-8UV0	18,5/22	38/45	264.5X243.5X209
	6SL3210-5BE32-2UV0	22/30	45/60	264.5X243.5X209



Order No	Description
<b>SINAMICS V20 Accessories</b>	
6SL3255-0VE00-0UA1	Parameter Loader
6SL3255-0VA00-2AA1	External Panel Interface
6SL3255-0VA00-4BA1	External Basic Operator Panel (V20 BOP) **
6SL3054-4AG00-2AA0	Memory Card (SD), 512MB
6SL3201-2AD20-8VA0	Braking Module (0.12kW 5.5kW)
6SL3255-0VA00-5AA0	Wireless Wifi Access (Web Server)
6SL3256-0VE00-6AA0	Input Output Expansion Module (2DI, 2DQ relay)



\* All dimensions are in mm.  
 \*\* Standard ethernet cable with RJ45 connection must be used for transportation of the external panel to the panel cover.  
 General Specifications:  
 Power range : 0.12-30kW  
 Operating Voltage : 1 Phase 230 V AC / 3 Phase 400 V AC  
 Control Mode : V/f, V2/f, FCC  
 Built-in Basic Operator Panel  
 Terminal Structure : 2AI, 1AO, 4DI, 2DO / Internal USS - Modbus RTU Communication  
 Dynamic Braking : Built-in braking module for powers from 7.5 kW to 30kW Overload :  
 Maximum 40°C ambient temperature, every 10 min / 1 min, 150% In  
 Application area : Fan, pump, compressor, conveyor and general machinery applications.  
 You can call our technical support line **01914780404** for all your technical questions.

# Machine and Process Applications SINAMICS G120C - Compact Speed Controllers



Configure Now



SINAMICS G120 C



Smart Access  
Module-Wifi

Input / Output	Order No	Rated Power (kW)	Rated Output Current (A)	Case Type
<b>SINAMICS G120C Compact Speed Controllers Built-in Profinet Communication Interface</b>				
3 Phase 400 V / 3 Phase 400 V	6SL3210-1KE11-8UF2	0.55	1.7	FSAA
	6SL3210-1KE12-3UF2	0.75	2.2	FSAA
	6SL3210-1KE13-2UF2	1.1	3.1	FSAA
	6SL3210-1KE14-3UF2	1.5	4.1	FSAA
	6SL3210-1KE15-8UF2	2.2	5.6	FSAA
	6SL3210-1KE17-5UF1	3	7.3	FSA
	6SL3210-1KE18-8UF1	4	8.8	FSA
	6SL3210-1KE21-3UF1	5.5	12.5	FSB
	6SL3210-1KE21-7UF1	7.5	16.5	FSB
	6SL3210-1KE22-6UF1	11	25	FSC
	6SL3210-1KE23-2UF1	15	31	FSC
	6SL3210-1KE23-8UF1	18.5	37	FSC
	6SL3210-1KE24-4UF1	22	43	FSD
	6SL3210-1KE26-0UF1	30	58	FSD
	6SL3210-1KE27-0UF1	37	68	FSD
	6SL3210-1KE28-4UF1	45	82.5	FSD
	6SL3210-1KE31-1UF1	55	103	FSE
	6SL3210-1KE31-4UF1	75	136	FSF
	6SL3210-1KE31-7UF1	90	164	FSF
	6SL3210-1KE32-1UF1	110	201	FSF
6SL3210-1KE32-4UF1	132	237	FSF	

\* For other communication options, please contact Siemens or authorized drive partners.

## SINAMICS G120 / G120C Accessories

6SL3255-0AA00-4CA1	BOP-2 Basic Operator Panel
6SL3255-0AA00-4JA2	IOP-2 Advanced Operator Panel (Turkish language option)
6SL3256-0AP00-0JA0	BOP-2 / IOP Door Mounting Kit
6SL3054-4AG00-2AA0	Memory card (SD), 512 MByte
6SL3255-0AA00-5AA0	Smart Access Module (wifi)

### Warnings:

- Operator panels are optional. Operator panel must be used for parameter input.
- Detachable operator panel is not included in the price.
- The control unit is included.
- Inputs / Outputs: 6DI, 2DO, 1AI, 1AO
- Open loop vector control
- Built-in SD memory card slot
- Internal braking module
- Operation up to 60°C
- Built-in safety function
- Control with TIA portal



\* All dimensions are in mm. HxWxD refer to products with PROFINET. Panel is not included in the dimensioning. You can contact us or our authorized drive partners for output choke option in Sinamics G120C drives. You can call our technical support line 01914780404 for all your technical questions.





# SINAMICS G120X

## Siemens Frequency Converter for Fan & Pump Applications



[parmley-graham.co.uk/sinamics-g120-modular-3ph](http://parmley-graham.co.uk/sinamics-g120-modular-3ph)

**SIEMENS**

# Fan Pump and Compressor Applications SINAMICS G120X - Compact Speed Controllers



Input / Output	Order No	Rated Power (kW)	Rated Output Current (A)	(Safe) (Type)	Unit Price Euro/Unit
<b>SINAMICS G120X Compact Speed Controllers Built-in Profinet Communication Interface</b>					
3 Phase 400 V / 3 Phase 400 V	6SL3220-2YE10-0UF0	0.75	2,2	FSA	-
	6SL3220-2YE12-0UF0	1,1	3,1	FSA	-
	6SL3220-2YE14-0UF0	1,5	4,1	FSA	-
	6SL3220-2YE16-0UF0	2,2	5,9	FSA	-
	6SL3220-2YE18-0UF0	3	7,7	FSA	-
	6SL3220-2YE20-0UF0	4	10,2	FSB	-
	6SL3220-2YE22-0UF0	5,5	13,2	FSB	-
	6SL3220-2YE24-0UF0	7,5	18	FSB	-
	6SL3220-2YE26-0UF0	11	26	FSC	-
	6SL3220-2YE28-0UF0	15	32	FSC	-
	6SL3220-2YE30-0UF0	18,5	38	FSD	-
	6SL3220-2YE32-0UF0	22	45	FSD	-
	6SL3220-2YE34-0UF0	30	60	FSD	-
	6SL3220-2YE36-0UF0	37	75	FSD	-
	6SL3220-2YE38-0UF0	45	90	FSE	-
	6SL3220-2YE40-0UF0	55	110	FSE	-
	6SL3220-2YE42-0UF0	75	145	FSF	-
	6SL3220-2YE44-0UF0	90	178	FSF	-
	6SL3220-2YE46-0UF0	110	205	FSF	-
	6SL3220-2YE48-0UF0	132	250	FSF	-
	6SL3220-2YE50-0CF0	160	302	FSG	-
	6SL3220-2YE52-0CF0	200	370	FSG	-
	6SL3220-2YE54-0CF0	250	477	FSG	-
	6SL3220-2YE56-0CF0	315	570	FSH	-
	6SL3220-2YE58-0CF0	355	640	FSH	-
	6SL3220-2YE60-0CF0	400	720	FSH	-
	6SL3220-2YE62-0CF0	450	820	FSJ	-
	6SL3220-2YE64-0CF0	500	890	FSJ	-
6SL3220-2YE66-0CF0	560	1000	FSJ	-	



**Warnings:**

- Built-in Basic Operator Panel
  - 0.75-250kW built-in input coil
  - SIL3 Safety level
  - 45 degrees Celsius nominal operating temperature
  - Built-in Fan & Pump operation macros
  - Open loop vector control
  - Please contact Siemens or authorized drive partners for different types of communication options (Profibus, USS, Modbus RTU, BACnet MS/TP), Low Harmonic Filters, additional accessories and price information.
- You can call our technical support line [01914780404](tel:01914780404) for all your technical questions.

# SINAMICS G120 - Speed Controllers

Modular SINAMICS G120 is the ideal choice

STEP 1 : Power Module Selection

What is your application?

General Applications

How will braking be done in your application?

Power module with dynamic braking using braking resistor

Ideal for general application power module

PM240-2 Power Module



PM240-2

Power module with regenerative braking without the need for braking resistor

The ideal power module for regenerative operation

PM250 Power Module



PM250

# SINAMICS G120 - Speed Controllers

## Modular SINAMICS G120 is the ideal choice

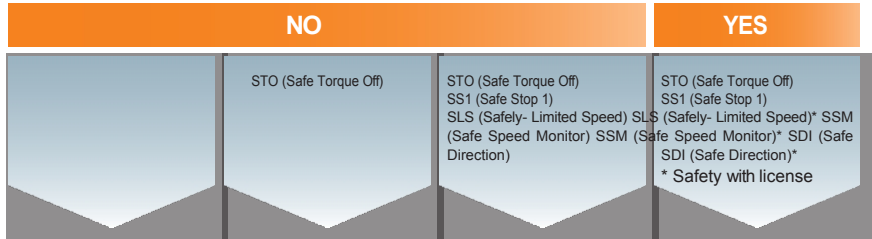
### STEP 2 : Control Unit Selection

your application require an encoder?  
your application require built-in simple positioning?



CU250S-2  
Control Unit

the built-in safety function desired?



How many inputs/outputs are needed?

6	6	6	11	
-	1 (opt.for 2 DI)	3 (opt. for 2 DI)	3 (opt. for 2 DI)	Digital inputs (DI)
3	3	3	3 (opt. 1 F-DO)	Failsafe DI
-	-	-	4	Digital outputs (DO)
4	2	2	2	Fast DI/DO
2	2	2	2	Analog inputs
				Analog outputs

CU230P-2	CU240E-2	CU240E-2F	CU250S-2
----------	----------	-----------	----------

What type of communication is needed?

CU230P-2 HVAC 6SL3243-0BB30-1HA3	CU240E-2 6SL3244-0BB12-1BA1	CU240E-2-F 6SL3244-0BB13-1BA1	CU250S-2 6SL3246-0BA22-1BA0	RS 485/USS/Modbus RTU
CU230P-2HVAC 6SL3243-0BB30-1HA3	-	-	-	BACnet MS/TP
CU230P-2 DP 6SL3243-0BB30-1PA3	CU240E-2 DP 6SL3244-0BB12-1PA1	CU240E-2 DP-F 6SL3244-0BB13-1PA1	CU250S-2 DP 6SL3246-0BA22-1PA0	PROFIBUS DP
CU230P-2 PN 6SL3243-0BB30-1FA0	CU240E-2 PN 6SL3244-0BB12-1FA0	CU240E-2 PN-F 6SL3244-0BB13-1FA0	CU250S-2 PN 6SL3246-0BA22-1FA0	PROFINET
CU230P-2 CAN 6SL3243-0BB30-1CA3	-	-	CU250S-2 CAN 6SL3246-0BA22-1CA0	CANopen

Which power modules can it be used with?

YES	YES	YES	YES	PM240-2
YES	YES	YES	YES	PM250

You can call our technical support line 01914780404 for all your technical questions.

# Control Units

## SINAMICS G120 - Speed Controllers



Configure Now



Smart Access Module-Wifi



IOP-2 Advanced Operator Panel



BOP-2 Basic Operator Panel

Order No	Description
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• Fully Compliant with CE Directives

**SINAMICS G120 Series Modular AC Motor Speed Controllers CU (Control Modules) Options**

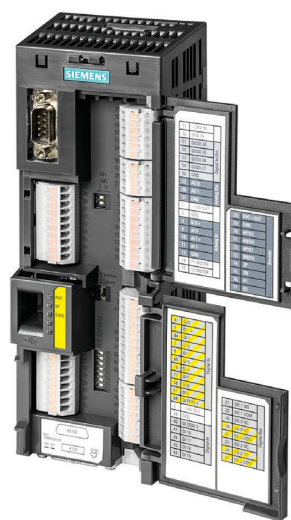
6SL3244-0BB12-1BA1	Sinamics G120, CU 240E-2 Standard CU
6SL3244-0BB12-1PA1	Sinamics G120, CU 240E-2 DP Standard Profibus CU
6SL3244-0BB12-1FA0	Sinamics G120, CU 240E-2 PN Standard Profinet CU
6SL3244-0BB13-1PA1	Sinamics G120, CU 240E-2 DP F Standard Profibus Safety CU
6SL3244-0BB13-1FA0	Sinamics G120, CU 240E-2 PN F Standard Profinet Safety CU
6SL3246-0BA22-1BA0	Sinamics G120, CU 250S-2 Encoder CU
6SL3246-0BA22-1PA0	Sinamics G120, CU 250S-2 Encoder DP Profibus CU
6SL3246-0BA22-1FA0	Sinamics G120, CU 250S-2 Encoder PN Profinet CU

**SINAMICS G120 / G120C Accessories**

6SL3255-0AA00-4CA1	BOP-2 Basic Operator Panel
6SL3255-0AA00-4JA2	IOP-2 Advanced Operator Panel
6SL3256-0AP00-0JA0	BOP-2 / IOP Door Mounting Kit
6SL3054-4AG00-2AA0	Memory card (SD), 512 MByte
6SL3255-0AA00-5AA0	Smart Access Module (wifi)

Warnings:

- \* Operator panels are optional. Operator panel must be used for parameter input.
- \* An appropriate CU be attached to the power modules.
- \* Detachable operator panel is not included in the price.



SINAMICS G120 Control Units



You can call our technical support line [01914780404](tel:01914780404) for all your technical questions.

# Machine and Process Applications

## SINAMICS G120 - Modular Speed Controllers



Input / Output	Order No	Use under Normal Conditions		Heavy Duty Use		HxWxD* Dimensions
		Power (kW)	Rated Output Current (A)	Power (kW)	Rated Output Current (A)	

• Fully Compliant with CE Directives

### SINAMICS G120 Series Modular AC Motor Speed Controllers - PM240-2 Power Modules

3 Phase 400V / 3 Phase 400V	6SL3210-1PE11-8UL1	0.55	1.7	0.37	1.3	196 x 73 x 165
	6SL3210-1PE12-3UL1	0.75	2.2	0.55	1.7	196 x 73 x 165
	6SL3210-1PE13-2UL1	1.1	3.1	0.75	2.2	196 x 73 x 165
	6SL3210-1PE14-3UL1	1.5	4.1	1.1	3.1	196 x 73 x 165
	6SL3210-1PE16-1UL1	2.2	5.9	1.5	4.1	196 x 73 x 165
	6SL3210-1PE18-0UL1	3	7.7	2.2	5.9	196 x 73 x 165
	6SL3210-1PE21-1UL0	4	10.2	3	7.7	292 x 100 x 165
	6SL3210-1PE21-4UL0	5.5	13.2	4	10.2	292 x 100 x 165
	6SL3210-1PE21-8UL0	7.5	18	5.5	13.2	292 x 100 x 165
	6SL3210-1PE22-7UL0	11	26	7.5	18	355 x 140 x 165
	6SL3210-1PE23-3UL0	15	32	11	26	355 x 140 x 165
	6SL3210-1PE23-8UL0	18.5	38	15	32	472 x 200 x 237
	6SL3210-1PE24-5UL0	22	45	18.5	38	472 x 200 x 237
	6SL3210-1PE26-0UL0	30	60	22	45	472 x 200 x 237
	6SL3210-1PE27-5UL0	37	75	30	60	472 x 200 x 237
	6SL3210-1PE28-8UL0	45	90	37	75	551 x 275 x 237
	6SL3210-1PE31-1UL0	55	110	45	90	551 x 275 x 237
	6SL3210-1PE31-5UL0	75	145	55	110	708 x 305 x 357
	6SL3210-1PE31-8UL0	90	178	75	145	708 x 305 x 357
	6SL3210-1PE32-1UL0	110	205	90	178	708 x 305 x 357
6SL3210-1PE32-5UL0	132	250	110	205	708 x 305 x 357	
6SL3210-1PE33-0CLO	160	302	132	250	1000x305x357	
6SL3210-1PE33-7CLO	200	370	160	302	1000x305x357	
6SL3210-1PE34-8CLO	250	477	200	370	1000x305x357	



PM240-2 Power Module



SINAMICS G120 Modular Series



**Warnings:**

- Operator panels are optional. Operator panel must be used for parameter input.
- The above products are power modules and control modules (CU) are not standard! A suitable CU must be added to the above power modules. For CU options, refer to SINAMICS G120 motor speed controllers CU options page.
- Sinamics G120 PM240-2 power modules a built-in 100% brake chopper module up to 250 kW (operating under normal conditions).

\* All dimensions are in mm.

You can call our technical support line [01914780404](tel:01914780404) for all your technical questions.



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# Machine and Process Applications SINAMICS G120 - Modular Speed Controllers

Input / Output	Order No	Use under Normal Conditions		HxWxD* Dimensions	
		Power (kW)	Rated Output Current (A)		

• Fully Compliant with CE Directives

### SINAMICS G120 Series Single Phase 200V, PM240-2 Power Modules

1 Phase 200V / 3 Phase 200V	Order No	Power (kW)	Rated Output Current (A)	HxWxD* Dimensions	
	6SL3210-1PB13-0UL0	0.55	3.2	196 x 73 x 165	
	6SL3210-1PB13-8UL0	0.75	4.2	196 x 73 x 165	
	6SL3210-1PB15-5UL0	1.1	6.0	291 x 100 x 165	
	6SL3210-1PB17-4UL0	1.5	7.4	291 x 100 x 165	
	6SL3210-1PB21-0UL0	2.2	10.4	291 x 100 x 165	
	6SL3210-1PB21-4UL0	3	13.6	355 x 140 x 165	
	6SL3210-1PB21-8UL0	4	17.5	355 x 140 x 165	



PM240-2 Power Module

### SINAMICS G120 Series Three Phase 690V, PM240-2 Power Modules

3 Phase 690V / 3 Phase 690V	Order No	Power (kW)	Rated Output Current (A)	HxWxD* Dimensions	
	6SL3210-1PH21-4UL0	11	14	472 x 200 x 237	
	6SL3210-1PH22-0UL0	15	19	472 x 200 x 237	
	6SL3210-1PH22-3UL0	18.5	23	472 x 200 x 237	
	6SL3210-1PH22-7UL0	22	27	472 x 200 x 237	
	6SL3210-1PH23-5UL0	30	35	472 x 200 x 237	
	6SL3210-1PH24-2UL0	37	42	472 x 200 x 237	
	6SL3210-1PH25-2UL0	45	52	551 x 275 x 237	
	6SL3210-1PH26-2UL0	55	62	551 x 275 x 237	
	6SL3210-1PH28-0UL0	75	80	708 x 305 x 357	
	6SL3210-1PH31-0UL0	90	100	708 x 305 x 357	
	6SL3210-1PH31-2UL0	110	115	708 x 305 x 357	
	6SL3210-1PH31-4UL0	132	142	708 x 305 x 357	



**Warnings:**

- Operator panels are optional. Operator panel must be used for parameter input.
- The above products are power modules, control modules (CU) are not standard!
- A suitable CU must be added to the above power modules.
- For CU options, refer to SINAMICS G120 motor speed controllers CU options page.
- \* All dimensions are in mm.

You can call our technical support line **01914780404** for all your technical questions.

# Regenerative Applications

## SINAMICS G120 - Modular Speed Controllers



Input / Output	Order No	Use under Normal Conditions		Heavy Duty Use		HxWxD* Dimensions
		Power (kW)	Rated Output Current (A)	Power (kW)	Rated Output Current (A)	

### SINAMICS G120 Series Modular AC Motor Speed Controller - PM250 Power Modules

3 Phase 400 V / 3 Phase 400 V	6SL3225-0BE25-5AA1	7.5	18	5.5	13.2	334 x 189 x 185
	6SL3225-0BE27-5AA1	11	25	7.5	19	334 x 189 x 185
	6SL3225-0BE31-1AA1	15	32	11	26	334 x 189 x 185
	6SL3225-0BE31-5AA0	18.5	38	15	32	512 x 275 x 204
	6SL3225-0BE31-8AA0	22	45	18.5	38	512 x 275 x 204
	6SL3225-0BE32-2AA0	30	60	22	45	512 x 275 x 204
	6SL3225-0BE33-0AA0	37	75	30	60	635 x 275 x 204
	6SL3225-0BE33-7AA0	45	90	37	75	635 x 275 x 204
	6SL3225-0BE34-5AA0	55	110	45	90	934 x 350 x 316
	6SL3225-0BE35-5AA0	75	145	55	110	934 x 350 x 316
	6SL3225-0BE37-5AA0	90	178	75	145	934 x 350 x 316



PM250 Power Module

## SINAMICS G120 Advantages

### Space Saving

Smaller dimensions and side-by-side mounting, which means less space in the panel

### Increased Resilience

Ability to use longer cables and more resistant to environmental conditions (heat and resistance to corrosive gases)

### High Safety Standards

Higher standards integrated security structure



### Low Cost

Advantageous connection structure for installation and maintenance

### Low System Cost

Less dependency on components required for the process such as input and output filter, shield plate

### Technological Compatibility

Integrated drive system compliant with TIA (Totally Integrated Automation)

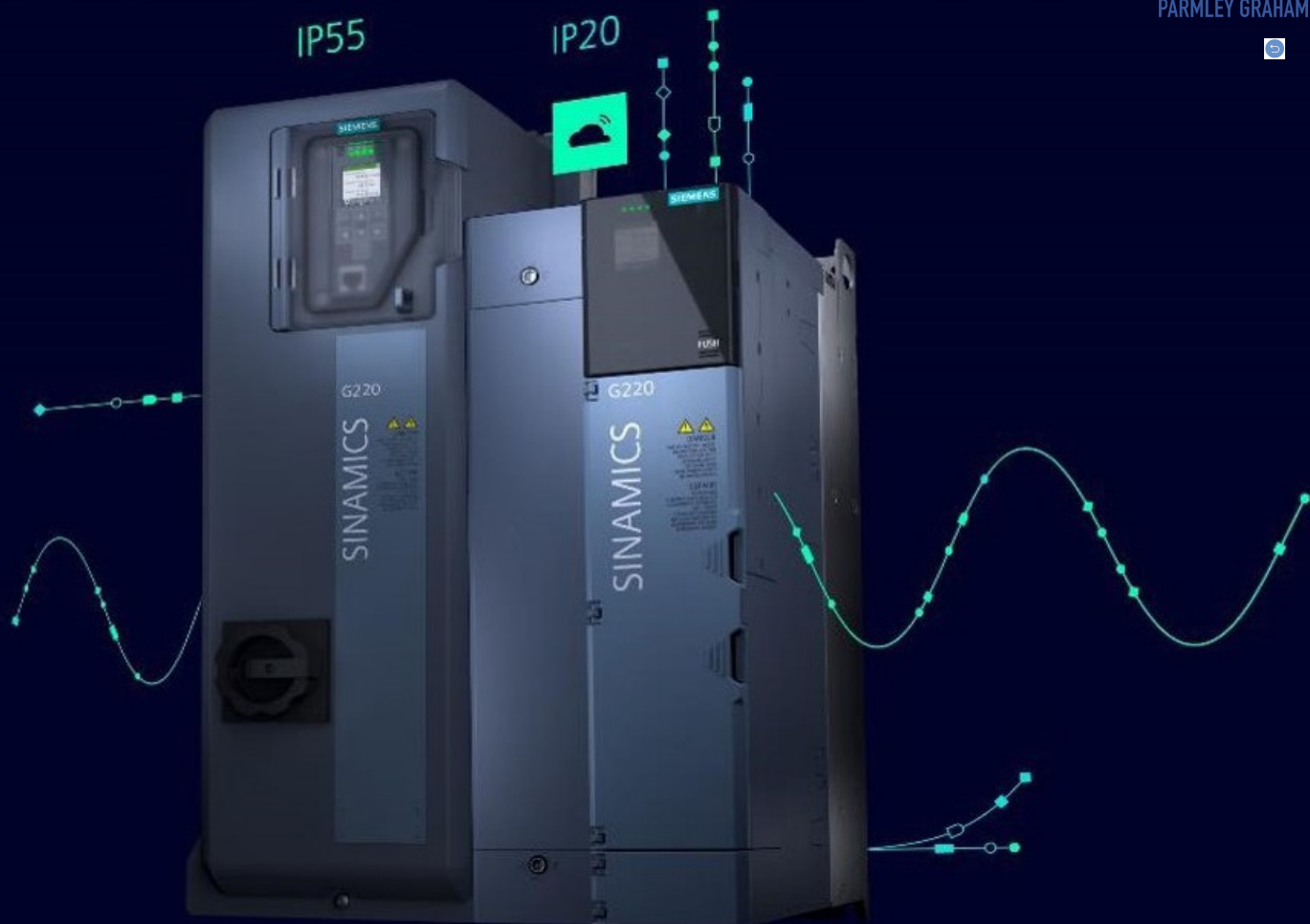
#### Warnings:

- Operator panels are optional. Operator panel must be used for parameter input.
- The above products are power modules and control modules (CU) are not standard! A suitable CU must be added to the above power modules. See SINAMICS G120 motor speed controllers CU options page for CU options.
- Sinamics G120 PM250 power modules are suitable for 100% REGENERATIVE operation at all powers, eliminating the need for a firing resistor that will arise in loads such as stopping loads gravity and / or high inertia loads such as elevator downward conveyors in a shorter time, as providing significant energy savings by returning this energy to the grid, which will be burned in the resistor and thrown into the air.
- Please contact us about the selection and usage details of PM250 power modules in crane applications.

\* All dimensions are in mm.

You can call our technical support line 01914780404 for all your technical questions.





# SINAMICS G220

## Next Generation High Performance Frequency Converter for All Industries

SINAMICS G220 is the new high performance frequency converter designed to meet current and future challenges in every industry.

With enhanced hardware and software options, SINAMICS G220 takes digital drive technology to a new level, making your applications more efficient, safe and future-proof.

### Highlights:

- Authorization method Integrated Security (Cyber Security) with UMAC
- SIL3 PLe, Cat. 4 Category with integrated safety functions
- New safety function SMT (Safe Motor Temperature)
- S2 system support (redundant operation) and MRP
- High-level vector control
- Digital twin in Startdrive interface
- IP20 and IP55 protection class options
- Current Harmonics (THDi) <2% with Clean Power (low harmonic) version

[parmley-graham.co.uk/sinamics-g220](http://parmley-graham.co.uk/sinamics-g220)




# SINAMICS G220

## Next Generation High Performance Frequency Converter for All Industries

Input / Output	Order No	Use under Normal Conditions		Heavy Duty Use		HxWxD* Dimensions
		Power (kW)	Rated Output Current (A)	Power (kW)	Rated Output Current (A)	
<b>SINAMICS G220 380V to 500V 3 AC IP20/UL Open Type</b>						
3 Phase 380 - 500 VAC	6SL4113-0CA08-0AF0	1,1	3,9	0,75	2,9	250 x 73 x 219
	6SL4113-0CA10-0AF0	1,5	4,7	1,1	3,9	250 x 73 x 219
	6SL4113-0CA11-0AF0	2,2	6,5	1,5	4,7	250 x 73 x 219
	6SL4113-0CA12-0AF0	3	8,5	2,2	6,5	250 x 73 x 219
	6SL4113-0CA13-0AF0	4	11	3	8,5	250 x 73 x 219
	6SL4113-0CA15-0AF0	5,5	14,5	4	11	355 x 85 x 219
	6SL4113-0CA16-0AF0	7,5	19	5,5	14,5	355 x 85 x 219
	6SL4113-0CA17-0AF0	11	27	7,5	19	355 x 125 x 219
	6SL4113-0CA18-0AF0	15	34	11	27	355 x 125 x 219
	6SL4113-0CA20-0AF0	18,5	40	15	34	400 x 150 x 256
	6SL4113-0CA21-0AF0	22	46	18,5	40	400 x 150 x 256
	6SL4113-0CA23-0AF0	30	63	22	46	442 x 200 x 256
	6SL4113-0CA24-0AF0	37	75	30	63	442 x 200 x 256
	6SL4113-0CA26-0AF0	45	90	37	75	520 x 250 x 256
6SL4113-0CA27-0AF0	55	112	45	90	520 x 250 x 256	

\* Please contact Siemens or authorized drive partners for IP55 protection class.

Order No	Material Description
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### SINAMICS G220 Option Modules

6SL4950-0AL00-0FA0	OM-SMT (Safe Motor Temperature) Safe Motor Temperature (ATEX)
6SL4950-0AL00-0BA0	OM-DQ (Drive CLiQ)

### SINAMICS G220 Option Modules

6SL5970-0AA00-0AA0	Memory Card (blank)
6SL5970-0AA00-0AA0-Z H01	With Memory Card / Enhanced Engine Control License
6SL5970-0AA00-0AA0-Z F01	With Memory Card / Enhanced Security Options License
6SL4170-1GC00-0AA0	Memory Card Firmware V6.2
6SL4170-1GC00-0AA0-Z H01	Memory Card Firmware V6.2 / With Enhanced Engine Control License
6SL4170-1GC00-0AA0-Z F01	Memory Card Firmware V6.2 / with Enhanced Security Options License

### SINAMICS G220 Accessories

6SL4950-0AJ00-0AA0	SINAMICS Smart Adapter Wi-Fi solution
6SL3055-0AA00-5BA3	SMC20 Sensor Module / excluding DRIVE-CLiQ cable (Incremental, Absolute, SSI sin/cos)
6SL3055-0AA00-5CA2	SMC30 Sensor Module / excluding DRIVE-CLiQ cable (Incremental, SSI TTL/HTL encoder)

#### Warnings:

Operating Ambient Temperature: - 20... 45 °C (> 45 °C with additional losses)  
 Overload : HO: 200% 3 s, 150% 57 s, LO: 150% 3 s, 110% 57 s every 300 s  
 Input / Output: 6 DI (1 PTI / 2 FDI), 1 F-DI, 3 DO (1 NO 2 NO/NC relay), 1 F-DO, 2 AI, 1 AO, 1 temp. 1, PTC type A / ATEX (option)

\* All dimensions are in mm. HxWxD refer to products with PROFINET.

You can contact us or our authorized drive partners for IP55 option on Sinamics G220 drives. You can call our technical support line 01914780404 for all your technical questions.

# SINAMICS G220 CLEAN POWER (LOW HARMONIC)

Next Generation High Performance Frequency Converter for All Industries

Input / Output	Order No	Use under Normal Conditions		Heavy Duty Use		HxWxD* Dimensions	
		Power (kW)	Rated Output Current (A)	Power (kW)	Rated Output Current (A)		
<b>SINAMICS G220 Clean Power 380V- 500V 3 AC IP20/UL Open Type</b>							
3 Phase 380 - 500 VAC	6SL4113-2CA16-2AF0	7,5	19	5,5	14,5	400 x 150 x 256	
	6SL4113-2CA17-2AF0	11	27	7,5	19	400 x 150 x 256	
	6SL4113-2CA18-2AF0	15	34	11	27	400 x 150 x 256	
	6SL4113-2CA20-2AF0	18,5	40	15	34	400 x 150 x 256	
	6SL4113-2CA21-2AF0	22	46	18,5	40	400 x 150 x 256	
	6SL4113-2CA23-2AF0	30	63	22	46	442 x 200 x 256	
	6SL4113-2CA24-2AF0	37	75	30	63	442 x 200 x 256	
	6SL4113-2CA26-2AF0	45	90	37	75	520 x 250 x 256	
	6SL4113-2CA27-2AF0	55	112	45	90	520 x 250 x 256	

Warnings:

**Improved power quality:** Cleaner, more efficient energy use with significantly reduced current harmonics (THDi < 2%)

**Grid compliance:** 100% compliance with international standards covering harmonics

**Seamless space-saving design:** Innovative design that reduces installation costs thanks to compact and robust construction

**Efficient integration and commissioning:** Easy commissioning via TIA portal or integrated webserver

\* All dimensions are in mm. HxWxD refer to products with PROFINET.

You can contact us or our authorized drive partners for IP55 option on Sinamics G220 drives. You can call our technical support line 01914780404 for all your technical questions.

# SINAMICS G130 - Speed Controllers

Configure Now

Input / Output	Order No	Use under Normal Conditions		Heavy Duty Use		HxWxD*	
		Power (kW)	Rated Output Current (A)	Power (kW)	Rated Output Current (A)		
<b>SINAMICS G130 Series Panelless AC MOTOR Speed Controller</b>							
3 Phase 380 - 480 V AC	6SL3310-1GE32-1AA3	110	205	90	178	210	
	6SL3310-1GE32-6AA3	132	250	110	233	260	
	6SL3310-1GE33-1AA3	160	302	132	277	310	
	6SL3310-1GE33-8AA3	200	370	160	340	380	
	6SL3310-1GE35-0AA3	250	477	200	438	490	
	6SL3310-1GE36-1AA3	315	590	250	460	605	
	6SL3310-1GE37-5AA3	400	725	315	570	745	
	6SL3310-1GE38-4AA3	450	820	400	700	840	
6SL3310-1GE41-0AA3	560	960	450	860	985		
3 Phase 660 - 690 V AC	6SL3310-1GH28-5AA3	75	80	55	76	85	
	6SL3310-1GH31-0AA3	90	95	75	89	100	
	6SL3310-1GH31-2AA3	110	115	90	107	120	
	6SL3310-1GH31-5AA3	132	142	110	134	150	
	6SL3310-1GH31-8AA3	160	171	132	157	175	
	6SL3310-1GH32-2AA3	200	208	160	192	215	
	6SL3310-1GH32-6AA3	250	250	200	233	260	
	6SL3310-1GH33-3AA3	315	320	250	280	330	
	6SL3310-1GH34-1AA3	400	400	315	367	410	
	6SL3310-1GH34-7AA3	450	452	400	416	465	
	6SL3310-1GH35-8AA3	560	560	450	514	575	
	6SL3310-1GH37-4AA3	710	710	560	657	735	
6SL3310-1GH38-1AA3	800	790	710	724	810		



Sinamics G130

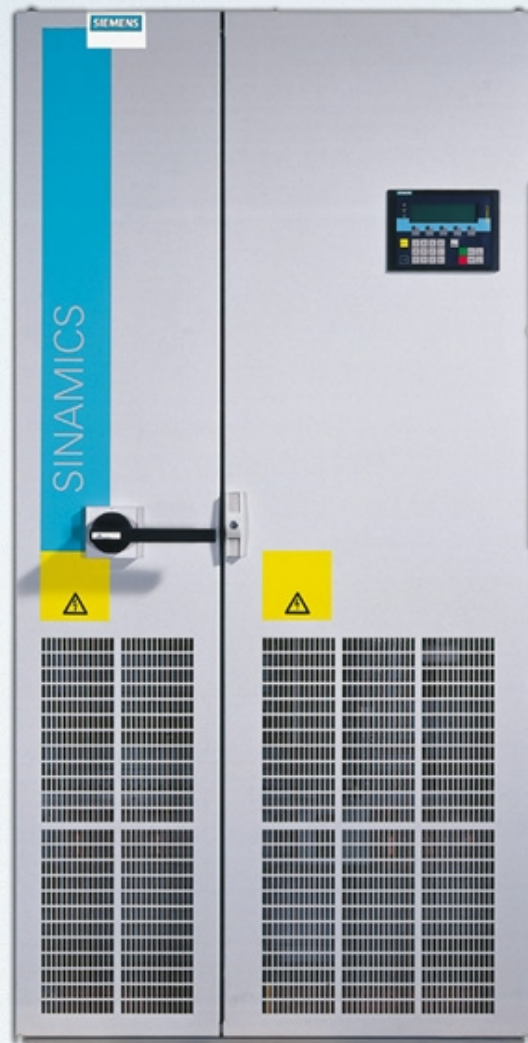
Order No	Material Description	
<b>SINAMICS G130 Panelless AC Motor Speed Controllers Accessories</b>		
6SL3040-1GA01-1AA0	Sinamics G130 Profinet Control Unit	
6SL3055-0AA00-4CA5	AOP-30 Advanced Operator Panel	
6FX8002-1AA01-1AD0	AOP-30 - Drive Cliq connection cable (RS232-Plug in)	

Warnings:

- For each SINAMIC G130 power module, a G130 Profinet Control Unit must also be ordered.

Overload Capacity:

Use under normal conditions: Max. At 40 °C ambient temperature, every 5 min. / 10 sec. 150% In and 60 sec. 110% In  
 Use under severe conditions: Max. 160% In every 5 min. / 10 sec. and 150% In every 60 sec. at 40 °C ambient temperature



# With **SINAMICS G150** Commissioning Made Easy



Parmley Graham | [siemens.com/sinamics-g150](https://www.siemens.com/sinamics-g150)

**SIEMENS**



## SINAMICS DCM

In the future, DC Drive technology what makes most efficient and harmonious?

## SINAMICS DCM - The most innovative DC drive

Speed and torque control of DC Motors is very easy with SINAMICS DCM. As the DC drive of the SINAMICS family, PROFIBUS & PROFINET communication options, increased input-output terminals, single unit With an increased current capacity of up to 3000 A (up to 18,000 A in parallel) and the new Drive-cliq technology, it provides you with unique solutions.

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# SINAMICS DCM - Speed Controllers



Sinamics DCM

Supply Voltage	Order No	Operation Type (Q)	Rated Current (A)	Armature Output Voltage
<b>SINAMICS DCM- Panelless DC Motor Speed Controllers</b>				
3 Phase 230 - 400 V AC	6RA8025-6DS22-0AA0	2	60	0-485 V DC
	6RA8028-6DS22-0AA0	2	90	0-485 V DC
	6RA8031-6DS22-0AA0	2	125	0-485 V DC
	6RA8075-6DS22-0AA0	2	210	0-485 V DC
	6RA8078-6DS22-0AA0	2	280	0-485 V DC
	6RA8081-6DS22-0AA0	2	400	0-485 V DC
	6RA8085-6DS22-0AA0	2	600	0-485 V DC
	6RA8087-6DS22-0AA0	2	850	0-485 V DC
	6RA8091-6DS22-0AA0	2	1200	0-485 V DC
	6RA8093-4DS22-0AA0	2	1600	0-485 V DC
	6RA8095-4DS22-0AA0	2	2000	0-485 V DC
	6RA8098-4DS22-0AA0	2	3000	0-485 V DC
	3 Phase 230 - 400 V AC	6RA8013-6DV62-0AA0	4	15
6RA8018-6DV62-0AA0		4	30	0-420 V DC
6RA8025-6DV62-0AA0		4	60	0-420 V DC
6RA8028-6DV62-0AA0		4	90	0-420 V DC
6RA8031-6DV62-0AA0		4	125	0-420 V DC
6RA8075-6DV62-0AA0		4	210	0-420 V DC
6RA8078-6DV62-0AA0		4	280	0-420 V DC
6RA8081-6DV62-0AA0		4	400	0-420 V DC
6RA8085-6DV62-0AA0		4	600	0-420 V DC
6RA8087-6DV62-0AA0		4	850	0-420 V DC
6RA8091-6DV62-0AA0		4	1200	0-420 V DC
6RA8093-4DV62-0AA0		4	1600	0-420 V DC
6RA8095-4DV62-0AA0		4	2000	0-420 V DC
6RA8098-4DV62-0AA0	4	3000	0-420 V DC	

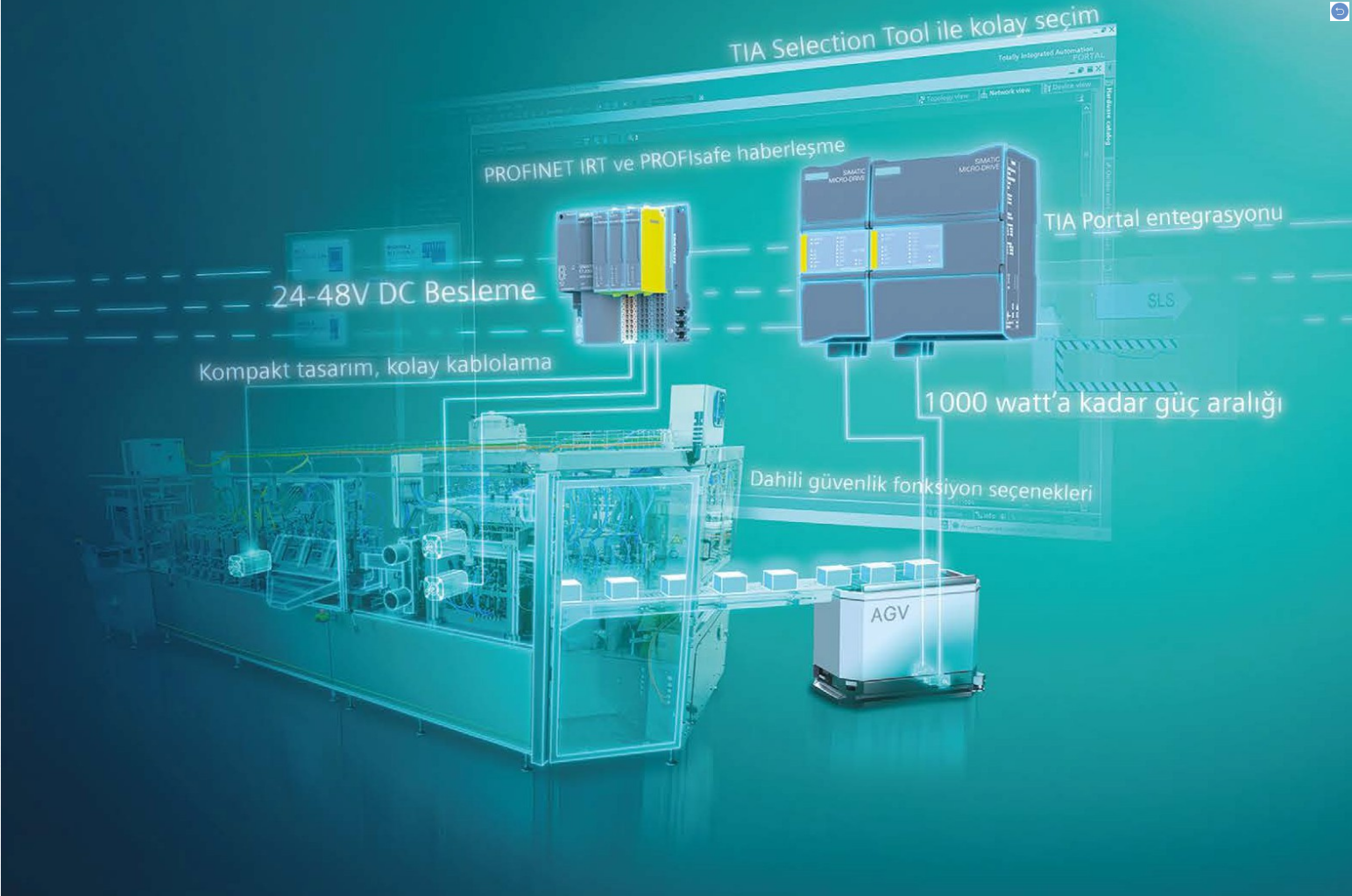
Order No	Material Description
<b>SINAMICS- DCM Panelless DC Motor Speed Controllers Accessories</b>	
6SL3055-0AA00-4CA5	AOP-30 Advanced Operator Panel



Sinamics DCM

**Warnings:**

- All our DC drives include the BOP-20 operator panel as standard.
- For DC drives with rated armature current  $\geq 900$  A, armature fast fuses are included as standard.



# SIMATIC MICRO-DRIVE

## Servo Drive System with 24-48 V DC Supply

SIMATIC MICRO-DRIVE, PDC and TM drive options in the Siemens servo drive family offer ideal solutions in many areas including precision positioning, shuttle storage and racking systems, battery powered applications such as automated handling systems (AGV-AMR) and medical technology applications.

### Highlights;

- 24-48V DC Supply
- Power range up to 1000 watts
- Compact design, easy wiring
- PROFINET IRT and PROFIsafe communication
- TIA Partal integration
- Easy selection with TIA 5election Tool
- Built-in safety function options PDC:  
STO, SS1, SLT, SSM, SLS F-TM STO



# SIEMENS

# SIMATIC MICRO DRIVE

Reference	Description	Power (W)
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## SIMATIC MICRO-DRIVE PDC Drives (ProfiDriveControl)

### Standard

6BK1630-1AA10-0AA0	PDC100	100
6BK1630-1AA60-0AA0	PDC600	600
6BK1630-1BA00-0AA0	PDC1000	1000

### Failsafe(with Extended Safety drive functions)

6BK1630-2AA10-0AA0	PDC100F	100
6BK1630-2AA60-0AA0	PDC600F	600

Reference	Description	Power (W)
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## F-TM ServoDrive HF for SIMATIC MICRO-DRIVE

6BK1136-6AB01-0CU0	F-TM	280
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Reference	Description
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## Accessories

### Shielding bracket set

6BK1638-0XA50-0AA0	Width 50 mm
6BK1638-0XA70-0AA0	Width 70 mm
6BK1638-0XA80-0AA0	Width 90 mm

You can call our technical support line 01914780404 for all your technical questions.



SIMATIC MICRO-DRIVE  
Servo Drive System



# SINAMICS V90

## Easy and Economic Servo Drive System

SINAMICS V90, single axis servo drive is designed for basic servo applications. SIMOTICS 1FL6 servo motors guarantee optimized servo performance with speed and torque control as well as positioning applications. It is also easily integrated into the automation architecture in combination with PROFINET, PTI, USS and MODBUS RTU.

Parmley Graham | [siemens.com/sinamics-v90](https://www.siemens.com/sinamics-v90)




# SINAMICS V90 Servo Drive System Selection Guide



### 1 SIMOTICS S-1FL6 servomotor

	Rated Power (kW)	Rated torque (Nm)	Rated speed (rpm)	Shaft height (mm)	Article number			
High dynamic performance (Low Inertia)	0.05	0.16	3000	20	1FL6022-2AF21-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	0.10	0.32	3000		1FL6024-2AF21-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	0.20	0.64	3000	30	1FL6032-2AF21-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	0.40	1.27	3000		1FL6034-2AF21-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	0.75	2.39	3000	40	1FL6042-2AF21-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.00	3.18	3000		1FL6044-2AF21-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.50	4.78	3000	50	1FL6052-2AF21-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2.00	6.37	3000		1FL6054-2AF21-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Encoder type		Incremental encoder TTL 2500 ppr				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Absolute encoder single-turn 21-bit*				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smooth operation (High Inertia)	0.40	1.27	3000	45	1FL6042-1AF61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	0.75	2.39	3000		1FL6044-1AF61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	0.75	3.58	2000	65	1FL6061-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.00	4.77	2000		1FL6062-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.50	7.16	2000		1FL6064-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.75	8.4	2000		1FL6066-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2.00	9.5	2000		1FL6067-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2.50	11.9	2000	90	1FL6090-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3.50	16.7	2000		1FL6092-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5.00	23.9	2000		1FL6094-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7.00	33.4	2000		1FL6096-1AC61-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Encoder type		Incremental encoder TTL 2500 ppr				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Absolute encoder 20-bit + 12-bit multi-turn				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shaft type feather key and holding brake		Feather key, without holding brake				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Feather key, with holding brake**				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Plain shaft, without holding brake				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Plain shaft, with holding brake**				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* available in the 2nd half of 2016

\*\* The SIMOTICS S-1FL6 Low Inertia motor requires an external relays to actuate the motor holding brake. See SINAMICS V90 operating instructions.

### 2 SINAMICS V90 servo drive

Rated power (kW)	Line supply voltage	Frame size	Article number				
0.10	200 ... 240 V 1AC / 3AC	FSA***	6SL3210-5FB10-1U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			6SL3210-5FB10-2U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			6SL3210-5FB10-4U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	0.20	200 ... 240 V 3AC	FSD	6SL3210-5FB10-8U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				6SL3210-5FB11-0U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				6SL3210-5FB11-5U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2.00		6SL3210-5FB12-0U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
0.40	380 ... 480 V 3AC	FSA	6SL3210-5FE10-4U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			6SL3210-5FE10-8U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			6SL3210-5FE11-0U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		FSA	6SL3210-5FE11-5U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			6SL3210-5FE12-0U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			6SL3210-5FE13-5U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	FSC	6SL3210-5FE15-0U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		6SL3210-5FE17-0U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		SINAMICS V90 pulse train (PTI) version			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		SINAMICS V90 PROFINET (PN) version (V90 PROFINET version 400 V available in the 2nd half of 2016)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*\*\* SINAMICS V90 PROFINET 200 V version is not available in frame size A (FSA). The power range from 0.1 kW to 0.4 kW is covered with frame size B (FSB).

### 3 MOTION-CONNECT 300 cables between SINAMICS V90 servo drive and SIMOTICS S-1FL6 servomotor

Power cable Article number	Encoder cable Article number	Brake cable Article number
6FX3002-5CK01-1 <input type="checkbox"/>	6FX3002-2 <input type="checkbox"/> 20-1 <input type="checkbox"/>	6FX3002-5BK02-1 <input type="checkbox"/>
6FX3002-5CK31-1 <input type="checkbox"/>	6FX3002-2 <input type="checkbox"/> 10-1 <input type="checkbox"/>	6FX3002-5BL02-1 <input type="checkbox"/>
6FX3002-5CL01-1 <input type="checkbox"/>	6FX3002-2 <input type="checkbox"/> 10-1 <input type="checkbox"/>	6FX3002-5BL02-1 <input type="checkbox"/>
6FX3002-5CL11-1 <input type="checkbox"/>		
Length: 3 m <input type="checkbox"/>	<input type="checkbox"/> A <input type="checkbox"/> D	<input type="checkbox"/> A <input type="checkbox"/> D
Length: 5 m <input type="checkbox"/>	<input type="checkbox"/> A <input type="checkbox"/> F	<input type="checkbox"/> A <input type="checkbox"/> F
Length: 7 m <sup>3)</sup> <input type="checkbox"/>	<input type="checkbox"/> A <input type="checkbox"/> H	<input type="checkbox"/> A <input type="checkbox"/> H
Length: 10 m <input type="checkbox"/>	<input type="checkbox"/> B <input type="checkbox"/> A	<input type="checkbox"/> B <input type="checkbox"/> A
Length: 20 m <input type="checkbox"/>	<input type="checkbox"/> C <input type="checkbox"/> A	<input type="checkbox"/> C <input type="checkbox"/> A
For incremental encoder TTL 2500 ppr		<input type="checkbox"/> C <input type="checkbox"/> T
For absolute encoder single-turn 21-bit Absolute encoder 20-bit + 12-bit multi-turn		<input type="checkbox"/> D <input type="checkbox"/> B

# SINAMICS V90 Servo Drives



Configure Now



Sinamics V90 PROFINET



Sinamics V90 PTI

Material reference	Description	Material reference	Description
<b>1-Phase 200V-240V PTI / ANALOG / MODBUS</b>		<b>1-phase 200V-240V PROFINET</b>	
<b>50 W Servo Set</b>		<b>50 W Servo Set</b>	
1FL6022-2AF21-1AA1	0.16Nm; Nn=3000rpm; TTL 2500 ppr	1FL6022-2AF21-1AA1	0.16Nm; Nn=3000rpm; TTL 2500 ppr
6SL3210-5FB10-1UA2	100 W servo drive, PTI version	6SL3210-5FB10-1UF2	100 W servo drive; profinet version
6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt	6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt
6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt
<b>100 W Servo Set</b>		<b>100 W Servo Set</b>	
1FL6024-2AF21-1AA1	0.32Nm; Nn=3000rpm; TTL 2500 ppr	1FL6024-2AF21-1AA1	0.32Nm; Nn=3000rpm; TTL 2500 ppr
6SL3210-5FB10-1UA2	100 W servo drive, PTI version	6SL3210-5FB10-1UF2	100 W servo drive; profinet version
6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt	6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt
6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt
<b>200 W Servo Set</b>		<b>200 W Servo Set</b>	
1FL6032-2AF21-1AA1	0.64Nm; Nn=3000rpm; TTL 2500 ppr	1FL6032-2AF21-1AA1	0.64Nm; Nn=3000rpm; TTL 2500 ppr
6SL3210-5FB10-2UA2	200 W servo drive, PTI version	6SL3210-5FB10-2UF2	200 W servo drive; profinet version
6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt	6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt
6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt
<b>400 W Servo Set</b>		<b>400 W Servo Set</b>	
1FL6034-2AF21-1AA1	1.27Nm; Nn=3000rpm; TTL 2500 ppr	1FL6034-2AF21-1AA1	1.27Nm; Nn=3000rpm; TTL 2500 ppr
6SL3210-5FB10-4UA1	400 W servo drive, PTI version	6SL3210-5FB10-4UF1	400 W servo drive; profinet version
6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt	6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt
6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt
<b>750 W Servo Set</b>		<b>750 W Servo Set</b>	
1FL6042-2AF21-1AA1	2.39Nm; Nn=3000rpm; TTL 2500 ppr	1FL6042-2AF21-1AA1	2.39Nm; Nn=3000rpm; TTL 2500 ppr
6SL3210-5FB10-8UA0	750 W servo drive, PTI version	6SL3210-5FB10-8UF0	750 W servo drive; profinet version
6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt	6FX3002-5CK01-1AF0	Power cable; 4x0.75mm; 5mt
6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT20-1AF0	Incremental encoder cable, 5mt



- Note 1:** The Sinamics V90 Pulse Train Input / Analog / Modbus configuration be supplemented with a 50 pin control connection connector or connection cable with connector.
- Note 2:** A 20 pin control connection connector or connection cable with connector can be added to the Profinet configuration as required.

# SINAMICS V90 Servo Drives



Material reference	Description	Material reference	Description
<b>3-Phase 380V-480V PTI / ANALOG / MODBUS</b>		<b>3-phase 380V-480V PROFINET</b>	
<b>400 W Servo Set</b>		<b>400 W Servo Set</b>	
1FL6042-1AF61-2AA1	1.27Nm; Nn=3000rpm; TTL 2500 ppr	1FL6042-1AF61-2AA1	1.27Nm; Nn=3000rpm; TTL 2500 ppr
6SL3210-5FE10-4UA0	400 W servo drive, PTI version	6SL3210-5FE10-4UF0	400 W servo drive, profinet version
6FX3002-5CL02-1AF0	Power cable; 4x1.5mm; 5mt	6FX3002-5CL02-1AF0	Power cable; 4x1.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt
<b>750 W Servo Set</b>		<b>750 W Servo Set</b>	
1FL6044-1AF61-2AA1	2.39Nm; Nn=3000rpm; TTL 2500 ppr	1FL6044-1AF61-2AA1	2.39Nm; Nn=3000rpm; TTL 2500 ppr
6SL3210-5FE10-8UA0	750W servo drive, PTI version	6SL3210-5FE10-8UF0	750 W servo drive, profinet version
6FX3002-5CL02-1AF0	Power cable; 4x1.5mm; 5mt	6FX3002-5CL02-1AF0	Power cable; 4x1.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt
<b>1.0 kW Servo Set</b>		<b>1.0 kW Servo Set</b>	
1FL6062-1AC61-2AA1	4.77Nm; Nn=2000rpm; TTL 2500 ppr	1FL6062-1AC61-2AA1	4.77Nm; Nn=2000rpm; TTL 2500 ppr
6SL3210-5FE11-0UA0	1.0 kW servo drive, PTI version	6SL3210-5FE11-0UF0	1.0 kW servo drive, profinet version
6FX3002-5CL02-1AF0	Power cable; 4x1.5mm; 5mt	6FX3002-5CL02-1AF0	Power cable; 4x1.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt
<b>1.5 kW Servo Set</b>		<b>1.5 kW Servo Set</b>	
1FL6064-1AC61-2AA1	7.16Nm; Nn=2000rpm; TTL 2500 ppr	1FL6064-1AC61-2AA1	7.16Nm; Nn=2000rpm; TTL 2500 ppr
6SL3210-5FE11-5UA0	1.75 kW servo drive, PTI version	6SL3210-5FE11-5UF0	1.75 kW servo drive, profinet version
6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt
<b>1.75 kW Servo Set</b>		<b>1.75 kW Servo Set</b>	
1FL6066-1AC61-2AA1	8.40Nm; Nn=2000rpm; TTL 2500 ppr	1FL6066-1AC61-2AA1	8.40Nm; Nn=2000rpm; TTL 2500 ppr
6SL3210-5FE11-5UA0	1.75 kW servo drive, PTI version	6SL3210-5FE11-5UF0	1.75 kW servo drive, profinet version
6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt
<b>2.0 kW Servo Set</b>		<b>2.0 kW Servo Set</b>	
1FL6067-1AC61-2AA1	9.50Nm; Nn=2000rpm; TTL 2500 ppr	1FL6067-1AC61-2AA1	9.50Nm; Nn=2000rpm; TTL 2500 ppr
6SL3210-5FE12-0UA0	2.5 kW servo drive, PTI version	6SL3210-5FE12-0UF0	2.5 kW servo drive, profinet version
6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt
<b>2.5 kW Servo Set</b>		<b>2.5 kW Servo Set</b>	
1FL6090-1AC61-2AA1	11.90Nm; Nn=2000rpm; TTL 2500 ppr	1FL6090-1AC61-2AA1	11.90Nm; Nn=2000rpm; TTL 2500 ppr
6SL3210-5FE12-0UA0	2.5 kW servo drive, PTI version	6SL3210-5FE12-0UF0	2.5 kW servo drive, profinet version
6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt
<b>3.5 kW Servo Set</b>		<b>3.5 kW Servo Set</b>	
1FL6092-1AC61-2AA1	16.70Nm; Nn=2000rpm; TTL 2500 ppr	1FL6092-1AC61-2AA1	16.70Nm; Nn=2000rpm; TTL 2500 ppr
6SL3210-5FE13-5UA0	3.5 kW servo drive, PTI version	6SL3210-5FE13-5UF0	3.5 kW servo drive, profinet version
6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt

**Note 1:** The Sinamics V90 Pulse Train Input / Analog / Modbus configuration be supplemented with a 50 pin control connection connector or connection cable with connector.

**Note 2:** A 20-pin control connection connector or connection cable with connector can be added to the Profinet configuration as required.

# SINAMICS V90 Servo Drives



Material reference	Description	Material reference	Description	Unit Price
<b>3-Phase 380V-480V PTI / ANALOG / MODBUS</b>		<b>3-phase 380V-480V PROFINET</b>		
<b>5.0 kW Servo Set</b>		<b>5.0 kW Servo Set</b>		
1FL6094-1AC61-2AA1	23.90Nm; Nn=2000rpm; TTL 2500 ppr	1FL6094-1AC61-2AA1	23.90Nm; Nn=2000rpm; TTL 2500 ppr	
6SL3210-5FE15-0UA0	5.0 kW servo drive, PTI version	6SL3210-5FE15-0UF0	5.0 kW servo drive, profinet version	
6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	
<b>7.0 kW Servo Set</b>		<b>7.0 kW Servo Set</b>		
1FL6096-1AC61-2AA1	33.40Nm; Nn=2000rpm; TTL 2500 ppr	1FL6096-1AC61-2AA1	33.40Nm; Nn=2000rpm; TTL 2500 ppr	
6SL3210-5FE17-0UA0	7.0 kW servo drive, PTI version	6SL3210-5FE17-0UF0	7.0 kW servo drive, profinet version	
6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	6FX3002-5CL12-1AF0	Power cable; 4x2.5mm; 5mt	
6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	6FX3002-2CT12-1AF0	Incremental encoder cable, 5mt	

Reference	Description
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## Accessories

6FX2003-0LL13	1FL6 servo motor 45, 50, 65, 90 housing motor side power cable connector, 5 pcs
6FX2003-0LL12	1FL6 servo motor 20, 30, and 40 housing motor side power cable connector, 5 pcs
6FX2003-0SL13	1FL6 servo motor 45, 50, 65, 90 housing motor side Incremental encoder connector, 5 pcs
6FX2003-0SL12	1FL6 servo motor 20, 30, and 40 housing motor side Incremental encoder connector, 5 pcs
6FX2003-0DB11	1FL6 servo motor 45, 50, 65, 90 housing motor side absolute encoder connector, 30 pcs
6FX2003-0DB12	1FL6 servo motor 20, 30 and 40 housing motor side absolute encoder connector, 5 pcs
6FX2003-0LL53	1FL6 servo motor 45, 50, 65, 90 housing motor side brake cable connector, 5 pcs
6FX2003-0LL52	1FL6 servo motor 20, 30, and 40 housing motor side brake cable connector, 5 pcs
6FX2003-0SB14	Drive-side encoder cable connector for Sinamics V90, 30 pcs
6SL3260-2NA00-0VA0*	50 pin control connectors for Sinamics V90, 30 pcs*
6SL3260-4NA00-1VB0*	Control cable with 50 pin control connectors for Sinamics V90, 1 m*
6SL3260-4NA00-1VA5*	Control cable and terminal block with 50-pin control connection connector for Sinamics V90, 0.5 m*
6SL3260-2MA00-0VA0**	20 pin control link connector for Sinamics V90, 5 pcs**
6SL3260-4MA00-1VB0**	Control cable with 20 pin control connection connector for Sinamics V90, 1 m**

\* PTI / Analog / Modbus  
 \*\* PROFINET



**Note 1:** The Sinamics V90 Pulse Train Input / Analog / Modbus configuration be supplemented with a 50 pin control connection connector or connection cable with connector.

**Note 2:** A 20 pin control connection connector or connection cable with connector can be added to the Profinet configuration as required.



Sinamics V90 PROFINET



# SINAMICS S200

## NEW servo family for standard applications

The family of SINAMICS S200 servo drive, SIMOTICS S-1FL2 servo motor and Motion Connect cables is specially designed to address a wide range of standard applications with a power range from 0.1 kw to 7 kw and various communication protocols such as PROFINET IRT and PTI.

### Highlights;

- Optimized performance
- Ease of use
- Fully fit for the future



**SIEMENS**

# Select your ideal system step by step

Step  
**1**



## Dynamic servo motor

SIMOTICS S-1FL2 with high dynamic performance

**Article number**

1	F	L	2	X	X	X	-	X	X	X	X	X	X	X	X	X
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

- Inertia**
  - 1- Low inertia
  - 2- Medium inertia
  - 3- High inertia
- Shaft height**
  - 02- Shaft height 20
  - 03- Shaft height 30
  - 04- Shaft height 40 / 45
  - 05- Shaft height 48 / 52
  - 06- Shaft height 65
  - 10- Shaft height 90
- Torque**
  - 0- 11.9Nm
  - 1- 3.58Nm
  - 2- 0.16Nm/0.64Nm/1.27Nm/2.39Nm/3.6Nm/4.77Nm/4.78Nm/16.7Nm
  - 4- 0.32Nm/1.27Nm/2.39Nm/3.18Nm/5.5Nm/6.6Nm/7.16Nm/23.9Nm
  - 6- 8.4Nm/33.4Nm
  - 7- 9.5Nm
- Cooling Method**
  - A- Natural Cooling
- Protection degree**
  - 0- IP 54
  - 1- IP 65 with shaft sealing ring
- Brake**
  - 0- Without
  - 1- With
- Rated speed**
  - G- 3000 rpm, 200V
  - C- 2000 rpm, 400V
  - F- 3000 rpm, 400V
- Version**
  - 0- Initiate
- Connection technology**
  - B- Metal angular connector
  - C- Metal single connector
- Encoder**
  - H- Absolute encoder, single turn, 17 bit
  - S- Absolute encoder, single turn, 21 bit
  - M- Absolute encoder multiturn 21 bit + 12 bit
- Mechanics**
  - 0- Plain shaft
  - 1- Shaft with feather key (half key balancing)

Step  
**2**



## Optimized servo drive

SINAMICS S200 with optimized performance and options for versatility

**Article number**

6	S	L	5	X	1	0	-	1	B	X	X	X	X	A	X	X
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

- Product version**
  - 5- S200
  - 6- S200 Basic
- Voltage**
  - B- 200V
  - E- 400V
- Power range**
  - 101- 0.1kW
  - 102- 0.2kW
  - 104- 0.4kW
  - 108- 0.75kW
  - 110- 1kW
  - 115- 1.75kW
  - 125- 2.5kW
  - 135- 3.5kW
  - 150- 5kW
  - 170- 7kW
- Communication**
  - A- Pulse train
  - F- PROFINET

Step  
**3**



## Matching cables

Motion Connect 350 and 380 for easy connection

**Hybrid connector cables: (suitable for SH20/30/40 1FL2 motor)**

**Article number**

6	F	X	3	X	0	2	-	7	X	X	0	1	1	X	X	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

- Cable variant**
  - 5- MC 350 standard cable
  - 8- MC 380 flexible cable
- Cable type**
  - D- With brake
  - C- Without brake
- Outlet direction**
  - D- Drive end outlet
  - N- Non-drive end outlet
- Cable cross-section**
  - 01- 0.75mm<sup>2</sup>
  - 02- 1.5mm<sup>2</sup>
  - 12- 2.5mm<sup>2</sup>
- Cable length**
  - AD- 3m
  - AF- 5m
  - AH- 7m
  - BA- 10m
  - BF- 15m
  - CA- 20m
  - DA- 30m

**M17 or M23 connector cables: (suitable for SH48/52/45/65/90 1FL2 motor)**

**Article number**

6	F	X	3	X	0	2	-	X	X	X	X	X	1	X	X	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

- Cable variant**
  - 5- MC 350 standard cable
  - 8- MC 380 flexible cable
- Connector type**
  - 5- Power connector or brake connector
  - 2- Encoder connector
- Cable type**
  - D- With brake
  - C- Without brake
- Cable connector**
  - K- Power cable with M17 connector
  - L- Power cable with M23 connector
- Cable type**
  - BL- Brake cable
  - XB- Encoder cable
- Cable cross-section**
  - 01- Power cable with M23 connector(0.75mm<sup>2</sup>)
  - 02- Power cable with M23 connector(1.5mm<sup>2</sup>)
  - 12- Power cable with M23 connector(2.5mm<sup>2</sup>)
  - 32- Power cable with M17 connector(0.75mm<sup>2</sup>)
  - 03- Brake cable (0.75mm<sup>2</sup>)
  - 11/12- Encoder cable (0.25 and 0.38mm<sup>2</sup>)
- Cable length**
  - AD- 3m
  - AF- 5m
  - AH- 7m
  - BA- 10m
  - BF- 15m
  - CA- 20m
  - DA- 30m

# Sinamics S200 Servo Driver Family

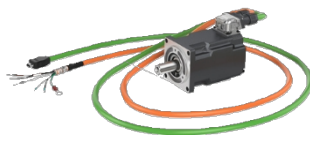
## S200 Basic Servo Set Examples

Material reference	Description	Material reference	Description
<b>1-Phase 220V S200 Basic PTI / Analog / Modbus 50 Watt Servo Set</b>		<b>1-Phase 220V S200 Basic PN 50 Watt Servo Set</b>	
1FL2102-2AG00-0HC0	0.16 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI	1FL2102-2AG00-0HC0	0.16 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI
6SL5610-1BB10-1AA0	100 Watt S200 Basic PTI Servo Drive	6SL5610-1BB10-1AF0	100 Watt S200 Basic PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 Basic PTI / Analog / Modbus 100 Watt Servo Set</b>		<b>1-Phase 220V S200 Basic PN 100 Watt Servo Set</b>	
1FL2102-4AG00-0HC0	0.32 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI	1FL2102-4AG00-0HC0	0.32 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI
6SL5610-1BB10-1AA0	100 Watt S200 Basic PTI Servo Drive	6SL5610-1BB10-1AF0	100 Watt S200 Basic PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 Basic PTI / Analog / Modbus 200 Watt Servo Set</b>		<b>1-Phase 220V S200 Basic PN 200 Watt Servo Set</b>	
1FL2203-2AG00-0HC0	0.64 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2203-2AG00-0HC0	0.64 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5610-1BB10-2AA0	200 Watt S200 Basic PTI Servo Drive	6SL5610-1BB10-2AF0	200 Watt S200 Basic PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 Basic PTI / Analog / Modbus 400 Watt Servo Set</b>		<b>1-Phase 220V S200 Basic PN 400 Watt Servo Set</b>	
1FL2203-4AG00-0HC0	1.27 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2203-4AG00-0HC0	1.27 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5610-1BB10-4AA0	400 Watt S200 Basic PTI Servo Drive	6SL5610-1BB10-4AF0	400 Watt S200 Basic PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 Basic PTI / Analog / Modbus 750 Watt Servo Set</b>		<b>1-Phase 220V S200 Basic PN 750 Watt Servo Set</b>	
1FL2204-2AG00-0HC0	2.4 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2204-2AG00-0HC0	2.4 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5610-1BB10-8AA0	750 Watt S200 Basic PTI Servo Drive	6SL5610-1BB10-8AF0	750 Watt S200 Basic PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 Basic PTI / Analog / Modbus 1000 Watt Servo Set</b>		<b>1-Phase 220V S200 Basic PN 1000 Watt Servo Set</b>	
1FL2204-4AG00-0HC0	3.2 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2204-4AG00-0HC0	3.2 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5610-1BB11-0AA0	1000 Watt S200 Basic PTI Servo Drive	6SL5610-1BB11-0AF0	1000 Watt S200 Basic PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m

- Note 1: Sinamics S200 Basic drives work with 1FL2 motors up to and Motion Connect 350 cable family.
- Note 2: These sets have been created as a sample selection. Motors without brakes, wedge, 17 bit Absolute encoder were selected in the sets.
- Note 3: You can Parmley Graham support
- Note 4: If you want to order 50 pin IO connectors for S200 Basic PTI sets and 20 pin IO connectors for PN sets, you can find them in Accessories section.
- Note 5: In Motion Connect 350 series cables, the metal hybrid connector is NDE, i.e. opposite to the motor shaft and 5m is selected.
- Note 6: Please your checks in Catalog D37.1 (Sinamics S200 catalog).



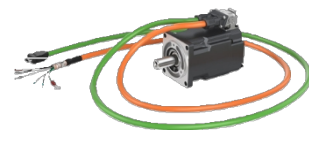
S200 Basic PTI Series



1FL2 motor MC 350 cable NDE



S200 Basic PN Series



1FL2 motor MC 350 cable DE

# Sinamics S200 Servo Driver Family



## S200 1-Phase 200-240V Set Samples

Material reference	Description	Material reference	Description
<b>1-Phase 220V S200 PTI / Analog / Modbus 50 Watt Servo Set</b>		<b>1-Phase 220V S200 PN 50 Watt Servo Set</b>	
1FL2102-2AG00-0HC0	0.16 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI	1FL2102-2AG00-0HC0	0.16 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI
6SL5510-1BB10-1AA0	100 Watt S200 Basic PTI Servo Drive	6SL5510-1BB10-1AF0	100 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 PTI / Analog / Modbus 100 Watt Servo Set</b>		<b>1-Phase 220V S200 PN 100 Watt Servo Set</b>	
1FL2102-4AG00-0HC0	0.32 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI	1FL2102-4AG00-0HC0	0.32 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI
6SL5510-1BB10-1AA0	100 Watt S200 PTI Servo Drive	6SL5510-1BB10-1AF0	100 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 PTI / Analog / Modbus 200 Watt Servo Set</b>		<b>1-Phase 220V S200 PN 200 Watt Servo Set</b>	
1FL2203-2AG00-0HC0	0.64 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2203-2AG00-0HC0	0.64 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BB10-2AA0	200 Watt S200 PTI Servo Drive	6SL5510-1BB10-2AF0	200 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 PTI / Analog / Modbus 400 Watt Servo Set</b>		<b>1-Phase 220V S200 PN 400 Watt Servo Set</b>	
1FL2203-4AG00-0HC0	1.27 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2203-4AG00-0HC0	1.27 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BB10-4AA0	400 Watt S200 PTI Servo Drive	6SL5510-1BB10-4AF0	400 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 PTI / Analog / Modbus 750 Watt Servo Set</b>		<b>1-Phase 220V S200 PN 750 Watt Servo Set</b>	
1FL2204-2AG00-0HC0	2.4 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2204-2AG00-0HC0	2.4 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BB10-8AA0	750 Watt S200 PTI Servo Drive	6SL5510-1BB10-8AF0	750 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>1-Phase 220V S200 Basic PTI / Analog / Modbus 1000 Watt Servo Set</b>		<b>1-Phase 220V S200 PN 1000 Watt Servo Set</b>	
1FL2204-4AG00-0HC0	3.2 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2204-4AG00-0HC0	3.2 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BB11-0AA0	1000 Watt S200 PTI Servo Drive	6SL5510-1BB11-0AF0	1000 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m

**Note 1:** Sinamics S200 Monophase sets work with 1FL2 motors up to , S200 drives and Motion Connect 350 cable family. **Note 2:** These sets have been created as a sample selection. Motors without brakes, wedge, 17 bit Absolute encoder are selected in the sets.

**Note 3 :** For different options, please contact [hareketkontrol@siemens.com](mailto:hareketkontrol@siemens.com) or our motion control partners.

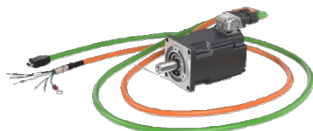
**Note 4 :** If you want to order 50 pin IO connectors for S200 Basic PTI sets and 20 pin IO connectors for PN sets, you can find them in Accessories section.

**Note 5 :** In Motion Connect 350 series cables, the metal hybrid connector is NDE, i.e. opposite to the motor shaft and 5m is selected.

**Note 6 :** Please your checks in Catalog D37.1 (Sinamics S200 catalog).



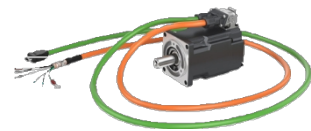
S200 Basic PTI 200V Series



1FL2 motor MC 350 cable NDE



S200 Basic PN 200V Series



1FL2 motor MC 350 cable DE

# Sinamics S200 Servo Driver Family

## S200 3-Phase 380V Set Samples

Material reference	Description	Material reference	Description
<b>3-phase 380V S200 PTI / Analog / Modbus 50 Watt Servo Set</b>		<b>3-phase 380V S200 PN 50 Watt Servo Set</b>	
1FL2102-2AF00-0HC0	0.16 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI	1FL2102-2AF00-0HC0	0.16 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI
6SL5510-1BE10-2AA0	200 Watt S200 PTI Servo Drive	6SL5510-1BE10-2AF0	200 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>3-Phase 380V S200 PTI / Analog / Modbus 100 Watt Servo Set</b>		<b>3-phase 380V S200 PN 100 Watt Servo Set</b>	
1FL2102-4AF00-0HC0	0.32 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI	1FL2102-4AF00-0HC0	0.32 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, LI
6SL5510-1BE10-2AA0	200 Watt S200 PTI Servo Drive	6SL5510-1BE10-2AF0	200 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>3-Phase 380V S200 PTI / Analog / Modbus 200 Watt Servo Set</b>		<b>3-Phase 380V S200 PN 200 Watt Servo Set</b>	
1FL2203-2AF00-0HC0	0.64 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2203-2AF00-0HC0	0.64 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BE10-2AA0	200 Watt S200 PTI Servo Drive	6SL5510-1BE10-2AF0	200 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>3-Phase 380V S200 PTI / Analog / Modbus 400 Watt Servo Set</b>		<b>3-Phase 380V S200 PN 400 Watt Servo Set</b>	
1FL2203-4AF00-0HC0	1.27 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2203-4AF00-0HC0	1.27 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BE10-4AA0	400 Watt S200 PN Servo Drive	6SL5510-1BE10-4AF0	400 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>3-Phase 380V S200 PTI / Analog / Modbus 750 Watt Servo Set</b>		<b>3-phase 380V S200 PN 750 Watt Servo Set</b>	
1FL2204-2AF00-0HC0	2.4 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2204-2AF00-0HC0	2.4 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BE10-8AA0	750 Watt S200 PTI Servo Drive	6SL5510-1BE10-8AF0	750 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>3-Phase 380V S200 PTI / Analog / Modbus 1000 Watt Servo Set</b>		<b>3-Phase 380V S200 PN 1000 Watt Servo Set</b>	
1FL2204-4AF00-0HC0	3.2 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI	1FL2204-4AF00-0HC0	3.2 Nm 3000rpm 17bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BE11-0AA0	1000 Watt S200 PTI Servo Drive	6SL5510-1BE11-0AF0	1000 Watt S200 PN Servo Drive
6FX3502-7CN01-1AF0	Dual Cable 5m	6FX3502-7CN01-1AF0	Dual Cable 5m
<b>3-Phase 380V S200 PTI / Analog / Modbus 1.5kW Servo Set</b>		<b>3-Phase 380V S200 PN 1.5kW Servo Set</b>	
1FL2205-4AF01-0HB0	4.6 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, MI	1FL2205-4AF01-0HB0	4.6 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, MI
6SL5510-1BE11-5AA0	1.75 kW S200 PTI Drive	6SL5510-1BE11-5AF0	1.75 kW S200 PN Drive
6FX3502-5CK32-1AF0	5m Power Cable without brake	6FX3502-5CK32-1AF0	5m Power Cable without brake
6FX3502-2XB11-1AF0	5m Encoder Cable	6FX3502-2XB11-1AF0	5m Encoder Cable
<b>3-Phase 380V S200 PTI / Analog / Modbus 2kW Servo Set</b>		<b>3-Phase 380V S200 PN 2kW Servo Set (Low inertia)</b>	
1FL2105-4AF01-0HB0	6.6 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, MI	1FL2105-4AF01-0HB0	6.6 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, IP65, LI
6SL5510-1BE12-5AA0	2.5 kW S200 PTI Drive	6SL5510-1BE12-5AF0	2.5 kW S200 PN Drive
6FX3502-5CK32-1AF0	5m Power Cable without brake	6FX3502-5CK32-1AF0	5m Power Cable without brake
6FX3502-2XB11-1AF0	5m Encoder Cable	6FX3502-2XB11-1AF0	5m Encoder Cable

# Sinamics S200 Servo Driver Family

## S200 3-Phase 380V Set Samples

Material reference	Description	Material reference	Description
<b>3-phase 380V S200 PTI / Analog / Modbus 2.5 kW Servo Set (high inertia)</b>		<b>3-phase 380V S200 PN 2.5 kW Servo Set (high inertia)</b>	
1FL2310-0AC01-0HB0	11.9 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, MI	1FL2310-0AC01-0HB0	11.9 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, IP65, LI
6SL5510-1BE12-5AA0	2.5 kW S200 PTI Drive	6SL5510-1BE12-5AF0	2.5 kW S200 PN Drive
6FX3502-5CL02-1AF0	5m Power Cable without brake	6FX3502-5CL02-1AF0	5m Power Cable without brake
6FX3502-2XB12-1AF0	5m Encoder Cable	6FX3502-2XB12-1AF0	5m Encoder Cable
<b>Set Price</b>		<b>Set Price</b>	
<b>3-phase 380V S200 PTI / Analog / Modbus 3.5 kW Servo Set (high inertia)</b>		<b>3-phase 380V S200 PN 3.5 kW Servo Set (high inertia)</b>	
1FL2310-2AC01-0HB0	16.7 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, MI	1FL2310-2AC01-0HB0	16.7 Nm 3000rpm 17 bit Abs Encoder, No Brake, No Wedge, IP65, LI
6FX3502-5CL12-1AF0	5m Power Cable without brake	6SL5510-1BE13-5AF0	3.5 kW S200 PN Drive
6SL5510-1BE13-5AA0	2.5 kW S200 PTI Drive	6FX3502-5CL12-1AF0	5m Power Cable without brake
6FX3502-2XB12-1AF0	5m Encoder Cable	6FX3502-2XB12-1AF0	5m Encoder Cable
<b>Set Price</b>		<b>Set Price</b>	
<b>3-Phase 380V S200 PTI / Analog / Modbus 5 kW Servo Set (high inertia)</b>		<b>3-Phase 380V S200 PN 5 kW Servo Set (high inertia)</b>	
1FL2310-4AC01-0HB0	23.9 Nm 2000rpm 17 bit Abs Encoder, No Brake, No Wedge, IP65, HI	1FL2310-4AC01-0HB0	23.9 Nm 2000rpm 17 bit Abs Encoder, No Brake, No Wedge, IP65, LI
6FX3502-5CL12-1AF0	5m Power Cable without brake	6SL5510-1BE15-0AF0	5 kW S200 PN Drive
6SL5510-1BE15-0AA0	5 kW S200 PTI Drive	6FX3502-5CL12-1AF0	5m Power Cable without brake
6FX3502-2XB12-1AF0	5m Encoder Cable	6FX3502-2XB12-1AF0	5m Encoder Cable
<b>Set Price</b>		<b>Set Price</b>	
<b>3-Phase 380V S200 PTI / Analog / Modbus 7 kW Servo Set (high inertia)</b>		<b>3-phase 380V S200 PN 7 kW Servo Set (high inertia)</b>	
1FL2310-6AC01-0HB0	33.4 Nm 2000rpm 17 bit Abs Encoder, No Brake, No Wedge, IP65, HI	1FL2310-6AC01-0HB0	33.4 Nm 2000rpm 17 bit Abs Encoder, No Brake, No Wedge, IP65, LI
6SL5510-1BE17-0AA0	7 kW S200 PTI Drive	6SL5510-1BE17-0AF0	7 kW S200 PN Drive
6FX3502-5CL12-1AF0	5m Power Cable without brake	6FX3502-5CL12-1AF0	5m Power Cable without brake
6FX3502-2XB12-1AF0	5m Encoder Cable	6FX3502-2XB12-1AF0	5m Encoder Cable
<b>Set Price</b>		<b>Set Price</b>	

Note 1: Sinamics S200 Triphase sets work with 1FL2 motors up to 7kW, S200 drives and Motion Connect 350 cable family.  
 Note 2: These sets have been created as a sample selection. Motors without brakes, wedge, 17 bit Absolute encoder are selected in the sets.  
 Note 3: For different options, please contact Parmley Graham.  
 Note 4: If you want to order 50 pin IO connectors for S200 Basic PTI sets and 20 pin IO connectors for PN sets, you can find them in Accessories section.  
 Note 5: Motion Connect 350 series cables are selected 5m.  
 Note 6: Please check your checks in Catalog D37.1 (Sinamics S200 catalog).

Reference	Description
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### Accessories

6SL5970-0AA00-0AA0	Sinamics SD Card (8 GB)
6SL4950-0AJ00-0AA0	Sinamics Smart Adapter
6SL3260-2NA00-0VA0	50 pin MDR connector for S200 PTI series (30 pcs)
6SL3260-4NA00-1VB0	50 pin connector and 1m cable for S200 PTI series
6SL3260-2MA00-0VA0	S200 PN 20 Pin MDR connector (5 pcs)



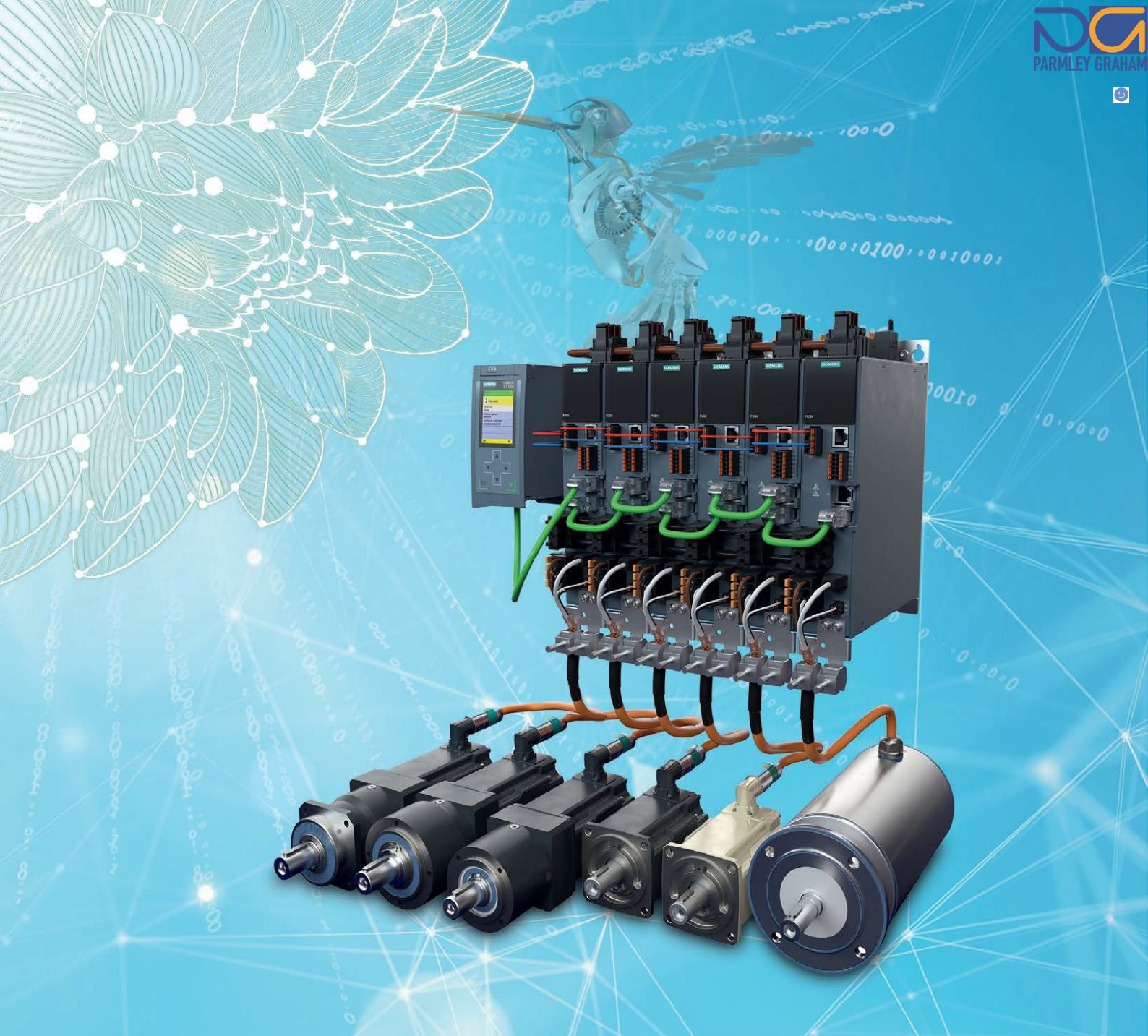
Sinamics Memory Card



Sinamics Smart Adapter



50 pin connector and 1m cable for S200 PTI



# SINAMICS S210

## Siemens' Servo Drive Family

SINAMICS S210, is designed for systems that require high speed, precise positioning and dynamic control, as well as special solutions for the food and beverage industry.

### Highlights;

- Single cable connection (OCC) & easy commissioning with Webserver
- Dynamic/compact & stainless steel engine options
- Profinet IRT communication & TIA integration
- Built-in safety functions (PROFIsafe option)




# SINAMICS S210 PRODUCT SELECTION GUIDE

1FK2 Motor Selection							
Voltage	Power	Static Torque	Nominal Torque	Speed	Shaft Height	Inertia	Part Number
220V	0.05 kW	0.16 Nm	0.16 Nm	3000	20	High Dynamic	1FK2102-0AG * * - * * * AO
220V	0.1 kW	0.32 Nm	0.32 Nm	3000	20	High Dynamic	1FK2102-1AG * * - * * * AO
220V	0.2 kW	0.64 Nm	0.64 Nm	3000	30	High Dynamic	1FK2103-2AG * * - * * * AO
220V	0.4 kW	1.27 Nm	1.27 Nm	3000	30	High Dynamic	1FK2103-4AG * * - * * * AO
220V	0.2 kW	1.27 Nm	1.27 Nm	1500	40	High Dynamic	1FK2104-4AF * * - * * * AO
220V	0.4 kW	1.27 Nm	1.27 Nm	3000	40	High Dynamic	1FK2104-4AK * * - * * * AO
220V	0.375 kW	2.4 Nm	2.4 Nm	1500	40	High Dynamic	1FK2104-5AF * * - * * * AO
220V	0.75 kW	2.4 Nm	2.4 Nm	3000	40	High Dynamic	1FK2104-5AK * * - * * * AO
220V	0.5 kW	3.2 Nm	3.2 Nm	1500	40	High Dynamic	1FK2104-6AF * * - * * * AO
220V	0.2 kW	0.64 Nm	0.64 Nm	3000	30	Compact	1FK2203-2AG * * - * * * AO
220V	0.4 kW	1.27 Nm	1.27 Nm	3000	30	Compact	1FK2203-4AG * * - * * * AO
220V	0.375 kW	2.4 Nm	2.4 Nm	1500	40	Compact	1FK2204-5AF * * - * * * AO
220V	0.75 kW	2.4 Nm	2.4 Nm	3000	40	Compact	1FK2204-5AK * * - * * * AO
220V	0.5 kW	3.2 Nm	3.2 Nm	1500	40	Compact	1FK2204-6AF * * - * * * AO
220V	0.53 kW	3.4 Nm	3.4 Nm	1500	48	Compact	1FK2205-2AF * * - * * * AO
380 V	0.28 kW	0.64 Nm	0.59 Nm	4500	30	High Dynamic	1FK2103-2AH * * - * * * AO
380 V	0.48 kW	1.27 Nm	1.01 Nm	4500	30	High Dynamic	1FK2103-4AH * * - * * * AO
380 V	0.4 kW	1.27 Nm	1.27 Nm	3000	40	High Dynamic	1FK2104-4AF * * - * * * AO
380 V	0.6 kW	1.27 Nm	0.96 Nm	6000	40	High Dynamic	1FK2104-4AK * * - * * * AO
380 V	0.75 kW	2.4 Nm	2.4 Nm	3000	40	High Dynamic	1FK2104-5AF * * - * * * AO
380 V	1.07 kW	2.4 Nm	1.7 Nm	6000	40	High Dynamic	1FK2104-5AK * * - * * * AO
380 V	1.0 kW	3.2 Nm	3.2 Nm	3000	40	High Dynamic	1FK2104-6AF * * - * * * AO
380 V	1.45 kW	5.0 Nm	4.6 Nm	3000	52	High Dynamic	1FK2105-4AF * * - * * * AO
380 V	2.1 kW	8.0 Nm	6.6 Nm	3000	52	High Dynamic	1FK2105-6AF * * - * * * AO
380 V	2.3 kW	9.0 Nm	7.3 Nm	3000	63	High Dynamic	1FK2106-3AF * * - * * * AO
380 V	2.7 kW	12 Nm	8.6 Nm	3000	63	High Dynamic	1FK2106-4AF * * - * * * AO
380 V	3.3 kW	16 Nm	10.6 Nm	3000	63	High Dynamic	1FK2106-6AF * * - * * * AO
380 V	0.255 kW	0.64 Nm	0.405 Nm	6000	30	Compact	1FK2203-2AK * * - * * * AO
380 V	0.43 kW	1.27 Nm	0.68 Nm	6000	30	Compact	1FK2203-4AK * * - * * * AO
380 V	0.75 kW	2.4 Nm	2.4 Nm	3000	40	Compact	1FK2204-5AF * * - * * * AO
380 V	0.57 kW	2.4 Nm	0.9 Nm	6000	40	Compact	1FK2204-5AK * * - * * * AO
380 V	1 kW	3.2 Nm	3.2 Nm	3000	40	Compact	1FK2204-6AF * * - * * * AO
380 V	0.94 kW	3.6 Nm	3.0 Nm	3000	48	Compact	1FK2205-2AF * * - * * * AO
380 V	1.45 kW	6 Nm	4.6 Nm	3000	48	Compact	1FK2205-4AF * * - * * * AO
380 V	1.71 kW	6.5 Nm	5.4 Nm	3000	63	Compact	1FK2206-2AF * * - * * * AO
380 V	2.85 kW	12 Nm	9.1 Nm	3000	63	Compact	1FK2206-4AF * * - * * * AO
380 V	3.05 kW	18 Nm	14.5 Nm	2000	80	Compact	1FK2208-3AC * * - * * * AO
380 V	3.55 kW	22 Nm	17 Nm	2000	80	Compact	1FK2208-4AC * * - * * * AO
380 V	4 kW	27 Nm	19.1 Nm	2000	80	Compact	1FK2208-5AC * * - * * * AO
380 V	4.5 kW	30Nm	28.5 Nm	1500	100	Compact	1FK2210-3AB * * - * * * AO
380 V	5.5 kW	30 Nm	26 Nm	2000	100	Compact	1FK2210-3AC * * - * * * AO
380 V	5.4 kW	40 Nm	34.5 Nm	1500	100	Compact	1FK2210-4AB * * - * * * AO
380 V	6.4 kW	40 Nm	30.5 Nm	2000	100	Compact	1FK2210-4AC * * - * * * AO

<b>Break Information</b>							
Without Break	0						
With Break	1						
<b>Protection</b>							
IP64	0						
IP65 (with shaft sealing ring)	1						
<b>Shaft Type</b>							
Plain shaft	0						
Shaft with feather key (half key balancing)	1						
<b>Encoder</b>							
Absolute encoder 22bit singleturn						S	
Absolute encoder 22bit singleturn +12bit multiturm						M	

Driver Selection		Cable Selection			
Power	Part Number	Single cable technology			
100 W	FSA	6SL5310-1BB10-1CF0	6FX	* 002-8QN04-1	* * * *
100 W	FSA	6SL5310-1BB10-1CF0	6FX	* 002-8QN04-1	* * * *
200 W	FSA	6SL5310-1BB10-2CF0	6FX	* 002-8QN04-1	* * * *
400W	FSB	6SL5310-1BB10-4CF0	6FX	* 002-8QN04-1	* * * *
200 W	FSA	6SL5310-1BB10-2CF0	6FX	* 002-8QN08-1	* * * *
400 W	FSB	6SL5310-1BB10-4CF0	6FX	* 002-8QN08-1	* * * *
400 W	FSB	6SL5310-1BB10-4CF0	6FX	* 002-8QN08-1	* * * *
750 w	FSC	6SL5310-1BB10-8CF0	6FX	* 002-8QN08-1	* * * *
750 W	FSC	6SL5310-1BB10-8CF0	6FX	* 002-8QN08-1	* * * *
200 W	FSA	6SL5310-1BB10-2CF0	6FX	* 002-8QN04-1	* * * *
400 W	FSB	6SL5310-1BB10-4CF0	6FX	* 002-8QN04-1	* * * *
400 W	FSB	6SL5310-1BB10-4CF0	6FX	* 002-8QN08-1	* * * *
750 W	FSC	6SL5310-1BB10-8CF0	6FX	* 002-8QN08-1	* * * *
750 W	FSC	6SL5310-1BB10-8CF0	6FX	* 002-8QN08-1	* * * *
750 W	FSC	6SL5310-1BB10-8CF0	6FX	* 002-8QN08-1	* * * *
400 W	FSA	6SL5310-1BE10-4DF0	6FX	* 002-8QN08-1	* * * *
750 W	FSA	6SL5310-1BE10-8DF0	6FX	* 002-8QN08-1	* * * *
400 W	FSA	6SL5310-1BE10-4DF0	6FX	* 002-8QN08-1	* * * *
1 kW	FSA	6SL5310-1BE11-0DF0	6FX	* 002-8QN08-1	* * * *
750 W	FSA	6SL5310-1BE10-8DF0	6FX	* 002-8QN08-1	* * * *
1.5 kW	FSB	6SL5310-1BE11-5DF0	6FX	* 002-8QN08-1	* * * *
1 kW	FSA	6SL5310-1BE11-0DF0	6FX	* 002-8QN08-1	* * * *
1.5 kW	FSB	6SL5310-1BE11-5DF0	6FX	* 002-8QN08-1	* * * *
2 kW	FSB	6SL5310-1BE12-0DF0	6FX	* 002-8QN08-1	* * * *
5kW	FSC	6SL5310-1BE15-0DF0	6FX	* 002-8QN11-1	* * * *
5 kW	FSC	6SL5310-1BE15-0DF0	6FX	* 002-8QN11-1	* * * *
7 kW	FSC	6SL5310-1BE17-0DF0	6FX	* 002-8QN11-1	* * * *
400 W	FSA	6SL5310-1BE10-4DF0	6FX	* 002-8QN08-1	* * * *
750 W	FSA	6SL5310-1BE10-8DF0	6FX	* 002-8QN08-1	* * * *
750W	FSA	6SL5310-1BE10-8DF0	6FX	* 002-8QN08-1	* * * *
1.5 kW	FSB	6SL5310-1BE11-5DF0	6FX	* 002-8QN08-1	* * * *
1 kW	FSA	6SL5310-1BE11-0DF0	6FX	* 002-8QN08-1	* * * *
1 kW	FSA	6SL5310-1BE11-0DF0	6FX	* 002-8QN08-1	* * * *
1.5 kW	FSB	6SL5310-1BE11-5DF0	6FX	* 002-8QN08-1	* * * *
1.5 kW	FSB	6SL5310-1BE11-5DF0	6FX	* 002-8QN11-1	* * * *
3.5 Kw	FSC	6SL5310-1BE13-5DF0	6FX	* 002-8QN11-1	* * * *
3.5 kW	FSC	6SL5310-1BE13-5DF0	6FX	* 002-8QN11-1	* * * *
5 kW	FSC	6SL5310-1BE15-0DF0	6FX	* 002-8QN11-1	* * * *
7 kW	FSC	6SL5310-1BE17-0DF0	6FX	* 002-8QN11-1	* * * *
3.5 kW	FSC	6SL5310-1BE13-5DF0	6FX	* 002-8QN11-1	* * * *
7 kW	FSC	6SL5310-1BE17-0DF0	6FX	* 002-8QN11-1	* * * *
5kW	FSC	6SL5310-1BE15-0DF0	6FX	* 002-8QN11-1	* * * *
7 kW	FSC	6SL5310-1BE17-0DF0	6FX	* 002-8QN11-1	* * * *

<b>Link Type</b>							
Fixed	5						
Moving	8						
<b>Cable Length</b>							
0m						A	
10m						B	
20m						C	
30m						D	
40m						E	
50m						F	
	0m					A	
	1m					B	
	2m					C	
	3m					D	
	4m					E	
	5m					F	
	6m					G	
	7m					H	
	8m					J	
	9m					K	
	0m						0
	0.1m						1
	...						...
	0.8m						8

# SINAMICS S210 Servo Drive Family

## S210 Servo Set Examples



SINAMICS S210 Servo Drive

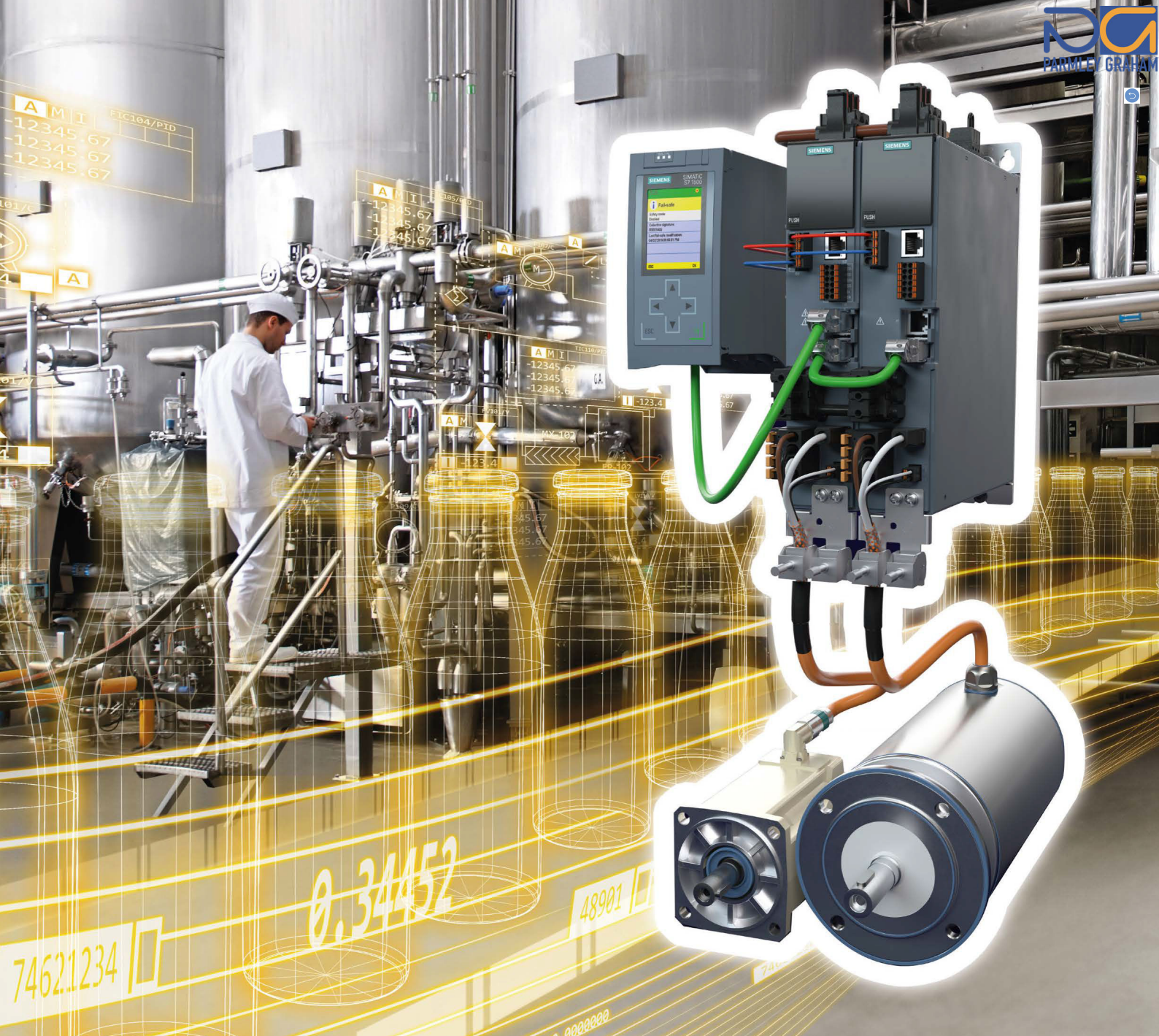
Material reference	Description	Material reference	Description
<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 1-phase, 100W Dynamic</b>		<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 3-phase, 1kW Dynamic</b>	
1FK2102-1AG00-0SA0	M0=0.32 Nm; nN=3000 rpm;22 Bit Abs. Singleturn	1FK2104-6AF00-0SA0	M0=3.2 Nm; nN=3000 rpm;22 Bit Abs. Singleturn
6SL5310-1BB10-1CF0	S210 (New), 200V, FSA 100W	6SL5310-1BE11-0DF0	S210 (New), 400V, FSA 1.0kW
6FX5002-8QN04-1AF0	MOTION-CONNECT 500 Single Cable, 5m	6FX5002-8QN08-1AF0	MOTION-CONNECT 500 Single Cable, 5m
<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 1-phase, 200W Dynamic</b>		<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 3-phase, 2kW Dynamic</b>	
1FK2103-2AG00-2SA0	M0=0.64 Nm; nN=3000 rpm;22 Bit Abs. Singleturn	1FK2105-6AF00-0SA0	M0=8 Nm; nN=3000 rpm;22 Bit Abs. Singleturn
6SL5310-1BB10-2CF0	S210 (New), 200V, FSA 200W	6SL5310-1BE12-0DF0	S210 (New), 400V, FSA 2.0kW
6FX5002-8QN04-1AF0	MOTION-CONNECT 500 Single Cable, 5m	6FX5002-8QN08-1AF0	MOTION-CONNECT 500 Single Cable, 5m
<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 1-phase, 400W Dynamic</b>		<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 3-phase, 3.5kW Compact</b>	
1FK2103-4AG00-2SA0	M0=1.27 Nm; nN=3000 rpm;22 Bit Abs. Singleturn	1FK2206-4AF00-0SA0	M0=12 Nm; nN=3000 rpm;22 Bit Abs. Singleturn
6SL5310-1BB10-4CF0	S210 (New), 200V, FSA 400W	6SL5310-1BE13-5DF0	S210 (New), 400V, FSA 3.5kW
6FX5002-8QN04-1AF0	MOTION-CONNECT 500 Single Cable, 5m	6FX5002-8QN11-1AF0	MOTION-CONNECT 500 Single Cable, 5m
<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 1-phase, 750W Dynamic</b>		<b>SINAMICS S210 and SIMOTICS S-1FK2 Servo Set, 3-phase, 7kW Compact</b>	
1FK2104-5AK00-0SA0	M0=2.4 Nm; nN=3000 rpm;22 Bit Abs. Singleturn	1FK2210-4AC00-0SA0	M0=40 Nm; nN=2000 rpm;22 Bit Abs. Singleturn
6SL5310-1BB10-8CF0	S210 (New), 200V, FSA 750W	6SL5310-1BE17-0DF0	S210 (New), 400V, FSA 7.0kW
6FX5002-8QN08-1AF0	MOTION-CONNECT 500 Single Cable, 5m	6FX5002-8QN11-1AF0	MOTION-CONNECT 500 Single Cable, 5m

Note 1: Sinamics S210 servo drives are suitable for use with Siemens S7-1500/1500T or Simotion controllers.

Note 2: servo motor cables for use in moving environments, order numbers starting with 6FX8002 can be used.

Note 3: You can call our technical support line [01914780404](tel:01914780404) for all your technical questions.

Note 4: Sinamics S210 Redesign drives with innovations such as EPOS, External Encoder, Temperature Sensor input (PTC), Security (UMAC). S210 Redesign drives are compatible with existing motors and cables. You can find the order numbers of our S210 Redesign drives above. You can contact [shareketkontrol@siemens.com](mailto:shareketkontrol@siemens.com) for more detailed information.



# SIMOTICS 1FS2 SERVO MOTOR

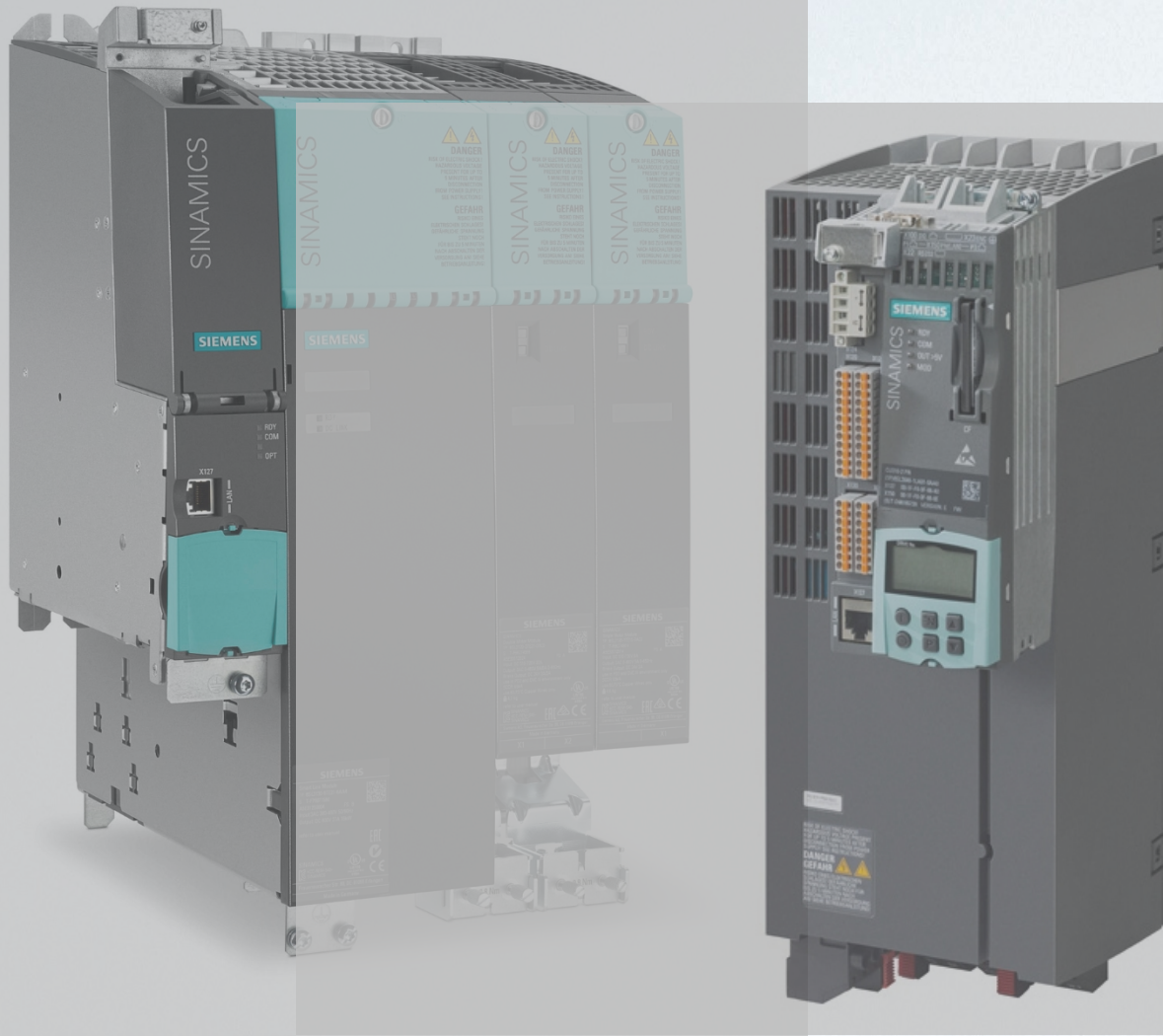
## Special Design for Food and Industry

The new addition to the Sinamics 5210 servo drive family, the 1FS2 servo motor is specially designed for the food & pharmaceutical industry with its stainless steel body and smooth surface design. Thanks to its EN60529 high protection class compliance, it provides safer operation in harsh and humid environments.

### The most basic features;

- Stainless steel housing and hygienic design - Wide torque range: 3-23 Nm
- Suitable for cleaning in place (CiP) - Single cable connection (OCC)
- Food and pharmaceutical industry specific standards and certifications (EHEDG, FDA)
- High positioning accuracy - High protection class: IP66 , IP67, IP69





# SINAMICS S120

## The Best Address for Motion Control Applications Requiring High Performance

- Easier assembly with new Motor Module structure
- Alternative motor module options for continuous and intermittent movements (200% or 300% load)
- The most precise solution for servo and vector applications
- Economical solution with PM240-2 power module for single axis control

# SINAMICS S110 and S120 Compact Drive Units

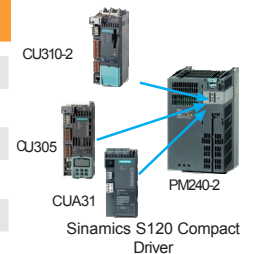
Order No	Description
<b>SINAMICS S120 Compact Drive Units Control Unit - Control Unit Adapter</b>	
6SL3040-1LA00-0AA0	CU310-2 DP Control Unit, Encoder Input
6SL3040-1LA01-0AA0	CU310-2 PN Control Unit, Encoder Input
6SL3054-0FC30-1BA0	SINAMICS S120 CF Card, Firmware V5.2 SP3
6SL3040-0PA00-0AA1	CUA31 Drive-Clq Adapter
6SL3040-0PA01-0AA0	CUA32 Drive-Clq Adapter, HTL/TTL Encoder



CU310-2

<b>Sinamics S110 Controllers and Memory cards</b>	
6SL3040-0JA01-0AA0	CU305 PN
6SL3040-0JA00-0AA0	CU305 DP
6SL3054-4TC00-2AA0	SINAMICS S110 Memory Card 512 MB V4.4 SP3

Order No	Description	In (A)	Operating Power under Normal Conditions (kW)	Heavy Duty Power (kW)	Case Type
<b>SINAMICS S110 / S120 PM240-2 Power Modules 1-AC 230V</b>					
6SL3210-1PB13-0UL0	Power Module 230V	3.2	0.55	0.37	FSA
6SL3210-1PB13-8UL0	Power Module 230V	4.2	0.75	0.55	FSA
6SL3210-1PB15-5UL0	Power Module 230V	6.0	1.10	0.75	FSB
6SL3210-1PB17-4UL0	Power Module 230V	7.4	1.50	1.10	FSB
6SL3210-1PB21-0UL0	Power Module 230V	10.4	2.20	1.50	FSB
6SL3210-1PB21-4UL0	Power Module 230V	13.6	3.00	2.20	FSC
6SL3210-1PB21-8UL0	Power Module 230V	17.5	4.00	3.00	FSC



<b>SINAMICS S110 / S120 PM240-2 Power Modules 3-AC 400V</b>					
6SL3210-1PE11-8UL1	Power Module 400V	1.7	0.55	0.37	FSA
6SL3210-1PE12-3UL1	Power Module 400V	2.2	0.75	0.55	FSA
6SL3210-1PE13-2UL1	Power Module 400V	3.1	1.1	0.75	FSA
6SL3210-1PE14-3UL1	Power Module 400V	4.1	1.5	1.1	FSA
6SL3210-1PE16-1UL1	Power Module 400V	5.9	2.2	1.5	FSA
6SL3210-1PE18-0UL1	Power Module 400V	7.7	3	2.2	FSA
6SL3210-1PE21-1UL0	Power Module 400V	10.2	4	3	FSB
6SL3210-1PE21-4UL0	Power Module 400V	13.2	5.5	4	FSB
6SL3210-1PE21-8UL0	Power Module 400V	18	7.5	5.5	FSB
6SL3210-1PE22-7UL0	Power Module 400V	26	11	7.5	FSC
6SL3210-1PE23-3UL0	Power Module 400V	32	15	11	FSC
6SL3210-1PE23-8UL0	Power Module 400V	38	18.5	15	FSD
6SL3210-1PE24-5UL0	Power Module 400V	45	22	18	FSD
6SL3210-1PE26-0UL0	Power Module 400V	60	30	22	FSD
6SL3210-1PE27-5UL0	Power Module 400V	75	37	30	FSD
6SL3210-1PE28-8UL0	Power Module 400V	90	45	37	FSE
6SL3210-1PE31-1UL0	Power Module 400V	110	55	45	FSE
6SL3210-1PE31-5UL0	Power Module 400V	145	75	55	FSF
6SL3210-1PE31-8UL0	Power Module 400V	178	90	75	FSF
6SL3210-1PE32-1UL0	Power Module 400V	205	110	90	FSF
6SL3210-1PE32-5UL0	Power Module 400V	250	132	110	FSF
6SL3210-1PE33-0CL0	Power Module 400V	302	160	132	FSG
6SL3210-1PE33-7CL0	Power Module 400V	370	200	160	FSG
6SL3210-1PE34-8CL0	Power Module 400V	477	250	200	FSG



PM240-2 Power Module and CU305 Control Unit

Note 1: PM240-2 power modules can be used with SINAMICS S110 / S120 or G120 controllers.  
 Note 2: FSG chassis PM240-2 power modules cannot be used with CU305 controllers, they can be used with CU310-2 controllers from Firmware V5.1.

# SINAMICS S120 Modular Drive Units



CU320-2 PN Control Unit



TM31 Terminal Module



S120 Booksize C/D Motor Module

Order No	Description
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## SINAMICS S120 Control Unit with CF Card

6SL3040-1MA00-0AA0	CU320-2 DP Sinamics S120 Control Unit
6SL3040-1MA01-0AA0	CU320-2 PN Sinamics S120 Control Unit
6SL3054-0FC30-1BA0	Sinamics CF Card for CU320-2, Firmware V5.2 SP3
6SL3054-0FC31-1BA0	Sinamics CF Card for CU320-2 / Performance option, Firmware V5.2 SP3
6SL3055-0AA00-4BA0	BOP 20 - Basic Operator Panel

## Terminal and Sensor Modules

6SL3055-0AA00-5AA3	SMC10 SINAMICS Sensor Module / Resolver
6SL3055-0AA00-5BA3	SMC20 SINAMICS Sensor Module / SIN/COS
6SL3055-0AA00-5CA2	SMC30 SINAMICS Sensor Module / Encoder
6SL3055-0AA00-5EA3	SME20 SINAMICS Sensor Module Incremental Encoder, IP67
6SL3055-0AA00-5HA3	SME25 SINAMICS Sensor Module Absolute Encoder, IP67
6SL3055-0AA00-5JA3	SME120 SINAMICS Sensor Module / Incremental Encoder, IP67
6SL3055-0AA00-5KA3	SME125 SINAMICS Sensor Module / Absolute Encoder, IP67
6SL3055-0AA00-3FA0	TM15 SINAMICS Terminal Module / 24I/O (24VDC/0.5 A), 2 Drive Cliq Sockets
6SL3055-0AA00-2TA0	TB30 SINAMICS Terminal Module / 4DI, 4DO, 2AI, 2AO
6SL3055-0AA00-3AA1	TM31 SINAMICS Terminal Module / 4DI, 4I/O, 2 Relay Output, 2AI, 2AO, 1PTC, 2 Drive Cliq Socket
6SL3055-0AA00-3PA1	TM41 SINAMICS Terminal Module / 4DI, 4I/O, 1AI, 2AO, 1TTL Encoder Simulation, 2 Drive Cliq Sockets
6SL3055-0AA00-3BA0	TM54F Fail-Safe Terminal Module / 10FDI, 4FDO, 2 Drive Cliq Socket
6SL3055-0AA00-3KA0	TM120 SINAMICS Terminal Module / 4 Sensors (KTY84-130 or PTC), 2 Drive Cliq Sockets

Order No	Description	In / I <sub>max</sub> (A)	Tip*	Operating Power under Normal Conditions (kW)	Heavy Duty Power (kW)
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## SINAMICS S120 Single Motor Module

6SL3120-1TE13-0AD0	Single Motor Module 400V (50 x 380 x 270 mm)	3 / 9	D	1.60	1.40
6SL3120-1TE15-0AD0	Single Motor Module 400V (50 x 380 x 270 mm)	5 / 15	D	2.70	2.30
6SL3120-1TE21-0AD0	Single Motor Module 400V (50 x 380 x 270 mm)	9 / 27	D	4.80	4.10
6SL3120-1TE21-8AD0	Single Motor Module 400V (50 x 380 x 270mm)	18 / 54	D	9.70	8.20
6SL3120-1TE21-8AC0	Single Motor Module 400V (50 x 380 x 270mm)	18 / 36	C	9.70	8.20
6SL3120-1TE22-4AD0	Single Motor Module 400V (50 x 380 x 270mm)	24 / 72	D	12.90	10.90
6SL3120-1TE22-4AC0	Single Motor Module 400V (50 x 380 x 270mm)	24 / 48	C	12.90	10.90
6SL3120-1TE23-0AD0	Single Motor Module 400V (100 x 380 x 270mm)	30 / 90	D	16.00	13.70
6SL3120-1TE23-0AC0	Single Motor Module 400V (100 x 380 x 270mm)	30 / 60	C	16.00	13.70
6SL3120-1TE24-5AC0	Single Motor Module 400V (100 x 380 x 270mm)	45 / 90	C	24.00	21.00
6SL3120-1TE26-0AC0	Single Motor Module 400V (100 x 380 x 270mm)	60 / 120	C	32.00	28.00
6SL3120-1TE28-5AA3	Single Motor Module 400V (200 x 380 x 270mm)	85 / 141	A	46.00	37.00
6SL3120-1TE31-3AA3	Single Motor Module 400V (300 x 380 x 270mm)	132 / 210	A	71.00	5.70
6SL3120-1TE32-0AA4	Single Motor Module 400V (300 x 380 x 270mm)	200 / 282	A	107.00	76.00

## SINAMICS S120 Dual Motor Module

6SL3120-2TE13-0AD0	Dual Motor Module 400V (50 x 380 x 270mm)	2 x 3/9	D	2 x 1.6	2 x 1.4
6SL3120-2TE15-0AD0	Dual Motor Module 400V (50 x 380 x 270mm)	2 x 5 / 15	D	2 x 2.7	2 x 2.3
6SL3120-2TE21-0AD0	Dual Motor Module 400V (50 x 380 x 270mm)	2 x 9 / 27	D	2 x 4.8	2 x 4.1
6SL3120-2TE21-8AD0	Dual Motor Module 400V (100 x 380 x 270mm)	2 x 18 / 54	D	2 x 9.7	2 x 8.2
6SL3120-2TE21-8AC0	Dual Motor Module 400V (100 x 380 x 270mm)	2 x 18 / 36	C	2 x 9.7	2 x 8.2

Type D: Type C motor module with 300% load capacity for intermittent motion applications: Motor module with 200% load capacity for continuous motion applications

# SINAMICS S120 Modular Drive Units

Order No	Description	Rated Power Pn (kW)	
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## SINAMICS S120 Basic Line Module 400V - AC/DC Supply Unit

6SL3130-1TE22-0AA0	Basic Line Module 400V, 20kW	20	
6SL3130-1TE24-0AA0	Basic Line Module 400V, 40kW	40	2.156.-
6SL3130-1TE31-0AA0	Basic Line Module 400V, 100kW	100	

## SINAMICS S120 / S220 Smart Line Module 400V Regenerative - AC/DC Supply Unit

6SL3130-6AE15-0AB1	Smart Line Module, 400 V	5	
6SL3130-6AE21-0AB1	Smart Line Module, 400 V	10	
6SL5130-6UE21-6AC0*	Smart Line Module, 400 V	16	
6SL5130-6UE22-4AC0*	Smart Line Module, 400V	24	
6SL3130-6TE23-6AA3	Smart Line Module, 400 V	36	
6SL3130-6TE25-5AA3	Smart Line Module, 400 V	55	



S120 Booksize

## SINAMICS S120 Active Line Module 400V Regenerative - AC/DC Supply Unit

6SL3130-7TE21-6AA4	Active Line Module 400V (100mm x 380mm x 270mm)	16	
6SL3130-7TE23-6AA3	Active Line Module 400V (150mm x 380mm x 270mm)	36	
6SL3130-7TE25-5AA3	Active Line Module 400V (200mm x 380mm x 270mm)	55	
6SL3130-7TE28-0AA3	Active Line Module 400V (300mm x 380mm x 270mm)	80	
6SL3130-7TE31-2AA3	Active Line Module 400V (300mm x 380mm x 270mm)	120	

## 400V Input Choke for SINAMICS S120 Basic Line Modules

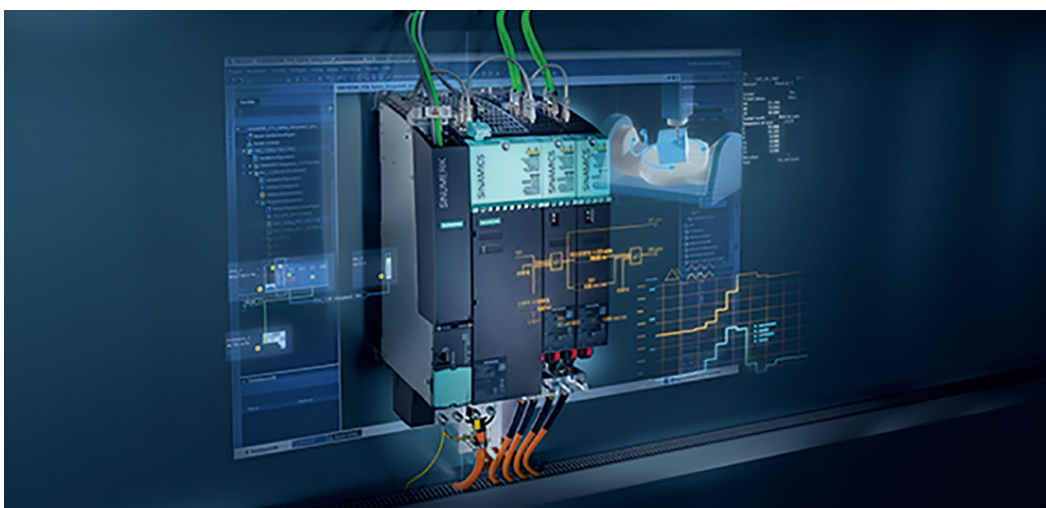
6SL3000-0CE22-0AA0	Input Choke Coil for 20kW Basic Line Module		
6SL3000-0CE24-0AA0	Input Choke Coil for 40kW Basic Line Module		
6SL3000-0CE31-0AA0	Input Choke Coil for 100kW Basic Line Module		

## 400V Input Choke Coil for SINAMICS S120 Smart Line Modules

6SL3000-0CE15-0AA0	Input Choke Coil for 5kW Smart Line Module		
6SL3000-0CE21-0AA0	Input Choke Coil for 10kW Smart Line Module		
6SL3100-0EE21-6AA0	Input Choke Coil for 16kW Smart Line Module		
6SL3000-0CE23-6AA0	Input Choke Coil for 36kW Smart Line Module		
6SL3000-0CE25-5AA0	Input Choke Coil for 55kW Smart Line Module		

## Active Interface Module for SINAMICS S120 Active Line Modules

6SL3100-0BE21-6AB0	16kW Active Interface Module		
6SL3100-0BE23-6AB0	36kW Active Interface Module		
6SL3100-0BE25-5AB0	55kW Active Interface Module		
6SL3100-0BE28-0AB0	80kW Active Interface Module		
6SL3100-0BE31-2AB0	120kW Active Interface Module		



### Notes

\* For 16kW / 24kW S220 Smart Line Modules, connection connectors be ordered separately. It is not included in the box.

Screw Connector : 6SL5166-2NA00-0AA0

Spring Connector : 6SL5166-2NB00-0AA0

\*\* S220 Smart Line modules can work in hybrid with S120 modules (CU 320-2 SINAMICS firmware V2.4 SP1 HF10)

# Servo Motor Cables For SINAMICS S120

Order No	Cross section mm <sub>2</sub>	Motor Connector Size	Quantity (m)
<b>1FK7 Servomotor Standard Power Cables for SINAMICS S120 Compact Type Drives</b>			
6FX5002-5CG10-1AF0	4 x 1,5	1	5
6FX5002-5CG22-1AF0	4 x 1,5	1.5	5
6FX5002-5CG12-1AF0	4 x 2,5	1	5
6FX5002-5CG32-1AF0	4 x 2,5	1.5	5
6FX5002-5CG42-1AF0	4 x 4	1.5	5
6FX5002-5CG52-1AF0	4 x 6	1.5	5
6FX5002-5CG62-1AF0	4 x 10	1.5	5



Compact Type Power Cable

Note : For servo motor cables to be used in moving environments, order numbers starting with 6FX8002 can be used.  
 Note 2 : You can call our technical support line 01914780404 for different cable lengths.

Order No	Cross section mm <sub>2</sub>	Motor Connector Size	Quantity (m)
<b>1FK7 Servomotor Standard Power Cables for SINAMICS S120 Modular Type C/D Drives</b>			
6FX5002-5CN06-1AF0	4 x 1,5	1	5
6FX5002-5CN26-1AF0	4 x 1,5	1.5	5
6FX5002-5CN16-1AF0	4 x 2,5	1	5
6FX5002-5CN36-1AF0	4 x 2,5	1.5	5
6FX5002-5CN46-1AF0	4 x 4	1.5	5
6FX5002-5CN56-1AF0	4 x 6	1.5	5
6FX5002-5CN66-1AF0	4 x 10	1.5	5



Modular Type Power Cable

Note : For servo motor cables to be used in moving environments, order numbers starting with 6FX8002 can be used.

Order No	IP	Cable Type	Quantity (m)
<b>SINAMICS S120 Drive-Cliq Standard Encoder Cables</b>			
6FX5002-2DC10-1AF0	IP20/IP67, 24V	Drive-Cliq	5



Encoder Cable

Order No	IP	Cable Type	Length
<b>SINAMICS S120 Drive-Cliq Cables (for SMC and TM modules)</b>			
6SL3060-4AU00-0AA0	IP20/IP20	Drive-Cliq	60 cm
6SL3060-4AA10-0AA0	IP20/IP20	Drive-Cliq	95 cm
6SL3060-4AW00-0AA0	IP20/IP20	Drive-Cliq	1,2 m
6SL3060-4AF10-0AA0	IP20/IP20	Drive-Cliq	1,45 m
6FX2002-1DC00-1AC8	IP20/IP20	Drive-Cliq	2,80 m

### Determination of Cable Reference According to Cable Length

Order No	IP	Cable Type	Length
6FX5002-5CG01-1XX0			
	0 m		A
	10 m		B
	20 m		C
	30 m		D
	40 m		E
	50 m		F
	60 m		G
	70 m		H
	80 m		J
	90 m		K
	0 m		A
	1 m		B
	2 m		C
	3 m		D
	4 m		E
	5 m		F
	6 m		G
	7 m		H
	8 m		J
	9 m		K

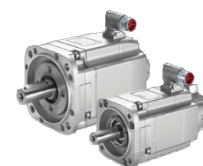


Drive-Cliq Cable

Note: You can call our technical support line 01914780404 for different cable lengths.

# SIMOTICS 1FK7 Series with DRIVE CLIQ Servo Motors

Order No	M <sub>0</sub> 100K (Nm)	I <sub>0</sub> 100K (A)	n <sub>0</sub> (rpm)	M <sub>0</sub> (Nm)	I <sub>0</sub> (A)	P <sub>0</sub> (kW)	Kon. Size	Cable cross-section (mm <sup>2</sup> )
<b>1FK7 GEN-2 Series Servomotors with 20-Bit Absolute Encoder - 300V DC</b>								
1FK7032-2AF21-1QA0	1.15	1.70	3000	1.00	1.60	0.30	1	4 x 1,5
1FK7034-2AF21-1QA0	1.60	1.90	3000	1.45	1.80	0.50	1	4 x 1,5
1FK7042-2AF21-1QA0	3.00	3.95	3000	2.60	3.50	0.82	1	4 x 1,5
<b>1FK7 GEN-2 Series Servomotors with 20-Bit Absolute Encoder - 600V DC</b>								
1FK7042-2AC71-1QA0	3.00	1.60	2000	2.80	1.60	0.60	1	4 x 1,5
1FK7060-2AC71-1QA0	6.00	3.15	2000	5.30	2.95	1.11	1	4 x 1,5
1FK7062-2AC71-1QA0	8.50	3.00	2000	7.00	2.65	1.50	1	4 x 1,5
1FK7063-2AC71-1QA0	8.90	4.40	2000	11.00	5.30	1.90	1	4 x 1,5
1FK7081-2AC71-1QA0	12.00	5.00	2000	10.00	4.40	2.09	1	4 x 1,5
1FK7083-2AC71-1QA0	16.00	7.50	2000	12.50	6.30	2.62	1	4 x 1,5
1FK7084-2AC71-1QA0	20.00	8.80	2000	15.00	7.00	4.19	1	4 x 1,5
1FK7100-2AC71-1QA0	18.00	8.40	2000	14.50	7.10	3.04	1	4 x 1,5
1FK7101-2AC71-1QA0	27.00	12.30	2000	20.50	9.60	4.29	1,5	4 x 1,5
1FK7103-2AC71-1QA0	36.00	14.70	2000	25	11.50	5.24	1,5	4 x 1,5
1FK7105-2AC71-1QA0	48.00	20.00	2000	37.00	16.00	7.75	1,5	4 x 2,5
1FK7042-2AF71-1QA0	3.00	2.20	3000	2.60	1.95	0.82	1	4 x 1,5
1FK7060-2AF71-1QA0	6.00	4.50	3000	4.70	3.70	1.48	1	4 x 1,5
1FK7062-2AF71-1QA0	8.50	5.30	3000	6.00	4.00	1.90	1	4 x 1,5
1FK7063-2AF71-1QA0	11.00	8.00	3000	7.30	5.60	2.29	1	4 x 1,5
1FK7080-2AF71-1QA0	8.00	4.80	3000	6.80	4.40	2.14	1	4 x 1,5
1FK7081-2AF71-1QA0	12.00	8.70	3000	8.70	6.80	2.70	1	4 x 1,5
1FK7083-2AF71-1QA0	16.00	10.40	3000	10.50	7.20	3.30	1	4 x 1,5
1FK7084-2AF71-1QA0	20.00	12.10	3000	10.00	6.50	3.10	1	4 x 1,5
1FK7100-2AF71-1QA0	18.00	11.20	3000	12.00	8.00	3.77	1	4 x 1,5
1FK7101-2AF71-1QA0	27.00	19.00	3000	15.50	11.80	4.87	1,5	4 x 2,5
1FK7103-2AF71-1QA0	36.00	27.50	3000	14.00	12.00	4.40	1,5	4 x 4
1FK7105-2AF71-1QA0	48.00	31.00	3000	26.00	18.00	8.17	1,5	4 x 6
1FK7060-2AH71-1QA0	6.00	6.20	4500	3.70	4.10	1.74	1	4 x 1,5
1FK7062-2AH71-1QA0	8.50	8.00	4500	3.00	3.30	1.41	1	4 x 1,5
1FK7063-2AH71-1QA0	11.00	12.00	4500	5.00	6.10	2.09	1	4 x 1,5
1FK7080-2AH71-1QA0	8.00	7.40	4500	5.70	5.60	2.39	1	4 x 1,5
1FK7081-2AH71-1QA0	12.00	13.10	4500	3.80	4.90	1.79	1	4 x 1,5
1FK7083-2AH71-1QA0	16.00	15.00	4500	8.30	9.00	3.04	1	4 x 1,5
1FK7032-2AK71-1QA0	1.10	1.70	6000	0.80	1.40	0.50	1	4 x 1,5
1FK7034-2AK71-1QA0	1.60	1.90	6000	1.00	1.30	0.63	1	4 x 1,5
1FK7040-2AK71-1QA0	1.60	2.25	6000	1.10	1.70	0.69	1	4 x 1,5
1FK7042-2AK71-1QA0	3.00	4.40	6000	1.95	3.10	1.02	1	4 x 1,5



SIMOTICS S-1FK7



SIMOTICS S-1FK7

# SIMOTICS 1FK7 Series with DRIVE CLIQ Servo Motors



SIMOTICS S-1FK7

Order No	M <sub>0</sub> 100K (Nm)	I <sub>0</sub> 100K (A)	n <sub>0</sub> (rpm)	M <sub>0</sub> (Nm)	I <sub>0</sub> (A)	P <sub>0</sub> (kW)	Kon. Size	Cable cross-section (mm <sup>2</sup> )	
<b>1FK7 GEN-2 Series Braked Servomotors with 20-Bit Absolute Encoder - 300V DC</b>									
1FK7032-2AF21-1QB0	1.15	1.70	3000	1.00	1.60	0.31	1	4 x 1,5	
1FK7034-2AF21-1QB0	1.60	1.90	3000	1.45	1.80	0.50	1	4 x 1,5	
1FK7042-2AF21-1QB0	3.00	3.95	3000	2.60	3.50	0.82	1	4 x 1,5	

Order No	M <sub>0</sub> 100K (Nm)	I <sub>0</sub> 100K (A)	n <sub>0</sub> (rpm)	M <sub>0</sub> (Nm)	I <sub>0</sub> (A)	P <sub>0</sub> (kW)	Kon. Size	Cable cross-section (mm <sup>2</sup> )	
<b>1FK7 GEN-2 Series Braked Servomotors with 20-Bit Absolute Encoder - 600 V DC</b>									
1FK7042-2AC71-1QB0	3.00	1.60	2000	2.80	1.60	0.60	1	4 x 1,5	
1FK7060-2AC71-1QB0	6.00	3.15	2000	5.30	2.95	1.11	1	4 x 1,5	
1FK7062-2AC71-1QB0	8.50	3.00	2000	7.00	2.65	1.50	1	4 x 1,5	
1FK7063-2AC71-1QB0	8.90	4.40	2000	11.00	5.30	1.90	1	4 x 1,5	
1FK7081-2AC71-1QB0	12.00	5.00	2000	10.00	4.40	2.09	1	4 x 1,5	
1FK7083-2AC71-1QB0	16.00	7.50	2000	12.50	6.30	2.62	1	4 x 1,5	
1FK7084-2AC71-1QB0	20.00	8.80	2000	15.00	7.00	4.19	1	4 x 1,5	
1FK7100-2AC71-1QB0	18.00	8.40	2000	14.50	7.10	3.04	1	4 x 1,5	
1FK7101-2AC71-1QB0	27.00	12.30	2000	20.50	9.60	4.29	1,5	4 x 1,5	
1FK7103-2AC71-1QB0	36.00	14.70	2000	25	11.50	5.24	1,5	4 x 1,5	
1FK7105-2AC71-1QB0	48.00	20.00	2000	37.00	16.00	7.75	1,5	4 x 2,5	
1FK7042-2AF71-1QB0	3.00	2.20	3000	2.60	1.95	0.82	1	4 x 1,5	
1FK7060-2AF71-1QB0	6.00	4.50	3000	4.70	3.70	1.48	1	4 x 1,5	
1FK7062-2AF71-1QB0	8.50	5.30	3000	6.00	4.00	1.90	1	4 x 1,5	
1FK7063-2AF71-1QB0	11.00	8.00	3000	7.30	5.60	2.29	1	4 x 1,5	
1FK7080-2AF71-1QB0	8.00	4.80	3000	6.80	4.40	2.14	1	4 x 1,5	
1FK7081-2AF71-1QB0	12.00	8.70	3000	8.70	6.80	2.70	1	4 x 1,5	
1FK7083-2AF71-1QB0	16.00	10.40	3000	10.50	7.20	3.30	1	4 x 1,5	
1FK7084-2AF71-1QB0	20.00	12.10	3000	10.00	6.50	3.10	1	4 x 1,5	
1FK7100-2AF71-1QB0	18.00	11.20	3000	12.00	8.00	3.77	1	4 x 1,5	
1FK7101-2AF71-1QB0	27.00	19.00	3000	15.50	11.80	4.87	1,5	4 x 2,5	
1FK7103-2AF71-1QB0	36.00	27.50	3000	14.00	12.00	4.40	1,5	4 x 4	
1FK7105-2AF71-1QB0	48.00	31.00	3000	26.00	18.00	8.17	1,5	4 x 6	
1FK7060-2AH71-1QB0	6.00	6.20	4500	3.70	4.10	1.74	1	4 x 1,5	
1FK7062-2AH71-1QB0	8.50	8.00	4500	3.00	3.30	1.41	1	4 x 1,5	
1FK7063-2AH71-1QB0	11.00	12.00	4500	5.00	6.10	2.09	1	4 x 1,5	
1FK7080-2AH71-1QB0	8.00	7.40	4500	5.70	5.60	2.39	1	4 x 1,5	
1FK7081-2AH71-1QB0	12.00	13.10	4500	3.80	4.90	1.79	1	4 x 1,5	
1FK7083-2AH71-1QB0	16.00	15.00	4500	8.30	9.00	3.04	1	4 x 1,5	
1FK7032-2AK71-1QB0	1.10	1.70	6000	0.80	1.40	0.50	1	4 x 1,5	
1FK7034-2AK71-1QB0	1.60	1.90	6000	1.00	1.30	0.63	1	4 x 1,5	
1FK7040-2AK71-1QB0	1.60	2.25	6000	1.10	1.70	0.69	1	4 x 1,5	
1FK7042-2AK71-1QB0	3.00	4.40	6000	1.95	3.10	1.02	1	4 x 1,5	

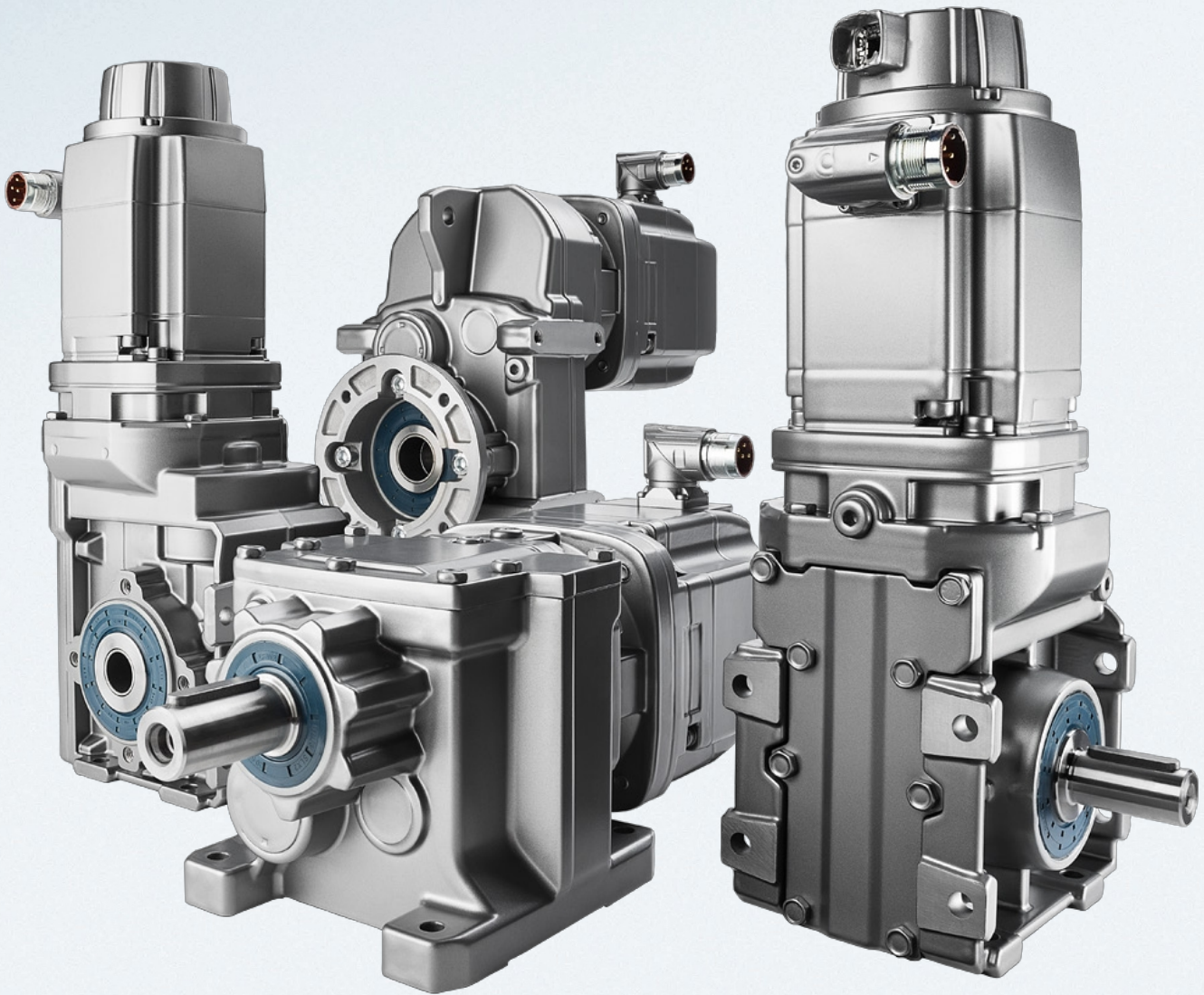


SIMOTICS S-1FK7



SIMOTICS S-1FK7

Note: You can use the "SIZER" software to extract the product configuration.  
SIZER software is available at <https://support.industry.siemens.com/cs/view/54992004/en>.



# SIMOTICS S

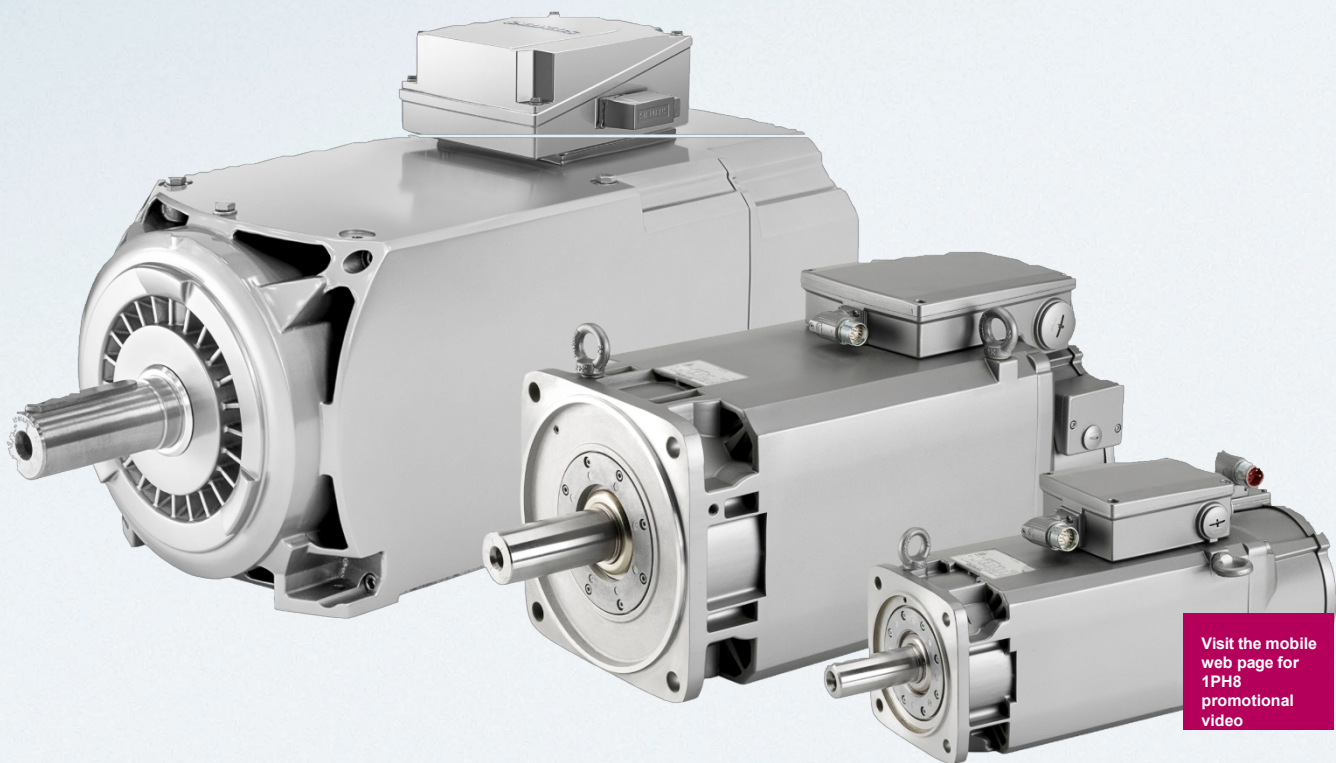
## 1FG1 Series Gearbox

### Servo Motors

Siemens servo motor and reducer together with a single code.

- Low backlash (Low-Backlash)
- Bevel helical gear, parallel shaft, helical gear and worm gear reducer types
- Quieter operation
- Compact design

**SIEMENS**



Visit the mobile  
web page for  
1PH8  
promotional  
video

**HIGH PERFORMANCE AT ANY SPEED**

# SIMOTICS M-1PH8

## Square Housing Induction Motor

1PH8 type asynchronous motors in the product family of Siemens motion control division have a more dynamic structure compared to standard asynchronous motors thanks to their square body design and compact structure.

- 2.8 - 1,340 kW wide power range
- High performance withstand speeds up to 24,000 rpm
- IP23/IP55/IP65 protection class options
- Asynchronous or synchronous versions
- Automatic recognition with Sinamics drives thanks to Drive Cliq interface
- Reduced torque swing (up to 10 pm)
- Short take-off time thanks to its dynamic structure
- Low sound level
- High strength encoder options Please contact us for detailed information.



# SIMOTICS 1PH8 Square Housing Induction Motor



SIMOTICS M - 1PH8

Order No	Pn (kW)	Mn (Nm)	In (A)	Un (V)	n max (rpm)
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### 1PH8 SQUARE BODY ASENKRON MOTOR - 3 PHASE 400V Supply, IP55, Nn=1000rpm

1PH8103-1AD00-2BA2	3.7	35	10	333	9000
1PH8107-1AD00-2BA2	6.3	60	17.5	307	9000
1PH8133-1AD00-2BA2	12	115	30	319	8000
1PH8137-1AD00-2BA2	17	162	43	307	8000
1PH8163-1AD00-2BA2	22	210	55	300	6500
1PH8165-1AD00-2BA2	28	267	71	292	6500
1PH8184-1AD00-2BA2	39	372	87	340	5000
1PH8186-1AD00-2BA2	51	487	112	340	5000
1PH8224-1AD00-2BA2	71	678	158	335	4500
1PH8226-1AD00-2BA2	92	879	194	340	4500
1PH8228-1AD00-2BA2	113	1079	235	340	4500
1PH8284-1AD10-2BU2	150	1433	315	335	3300
1PH8286-1AD10-2BU2	182	1738	410	330	3300
1PH8288-1AD10-2BU2	226	2158	495	335	3300

### 1PH8 SQUARE BODY ASENKRON MOTOR - 3 PHASE 400V Supply, IP55, Nn=1500rpm

1PH8083-1AF00-2BA2	2.8	18	7.5	346	10000
1PH8087-1AF00-2BA2	3.7	24	10	336	10000
1PH8101-1AF00-2BA2	3.7	24	12.5	265	9000
1PH8103-1AF00-2BA2	5.5	35	13.5	368	9000
1PH8105-1AF00-2BA2	7	45	17.5	348	9000
1PH8107-1AF00-2BA2	9	57	23.5	330	9000
1PH8131-1AF00-2BA2	11	70	24	360	8000
1PH8133-1AF00-2BA2	15	96	34	342	8000
1PH8135-1AF00-2BA2	18.5	118	43	330	8000
1PH8137-1AF00-2BA2	22	140	56	308	8000
1PH8163-1AF00-2BA2	30	191	71	319	6500
1PH8165-1AF00-2BA2	37	236	78	350	6500
1PH8184-1AF00-2BA2	51	325	116	330	5000
1PH8186-1AF00-2BA2	74	471	166	330	5000
1PH8224-1AF00-2BA2	95	605	200	340	4500
1PH8226-1AF00-2BA2	130	828	270	340	4500
1PH8228-1AF00-2BA2	160	1019	340	340	4500
1PH8284-1AF10-2BU2	196	1248	390	345	3300
1PH8286-1AF10-2BU2	250	1592	490	345	3300
1PH8288-1AF10-2BU2	320	2037	620	345	3300

### 1PH8 SQUARE BODY ASENKRON MOTOR - 3 PHASE 400V Supply, IP23, Nn=1000rpm

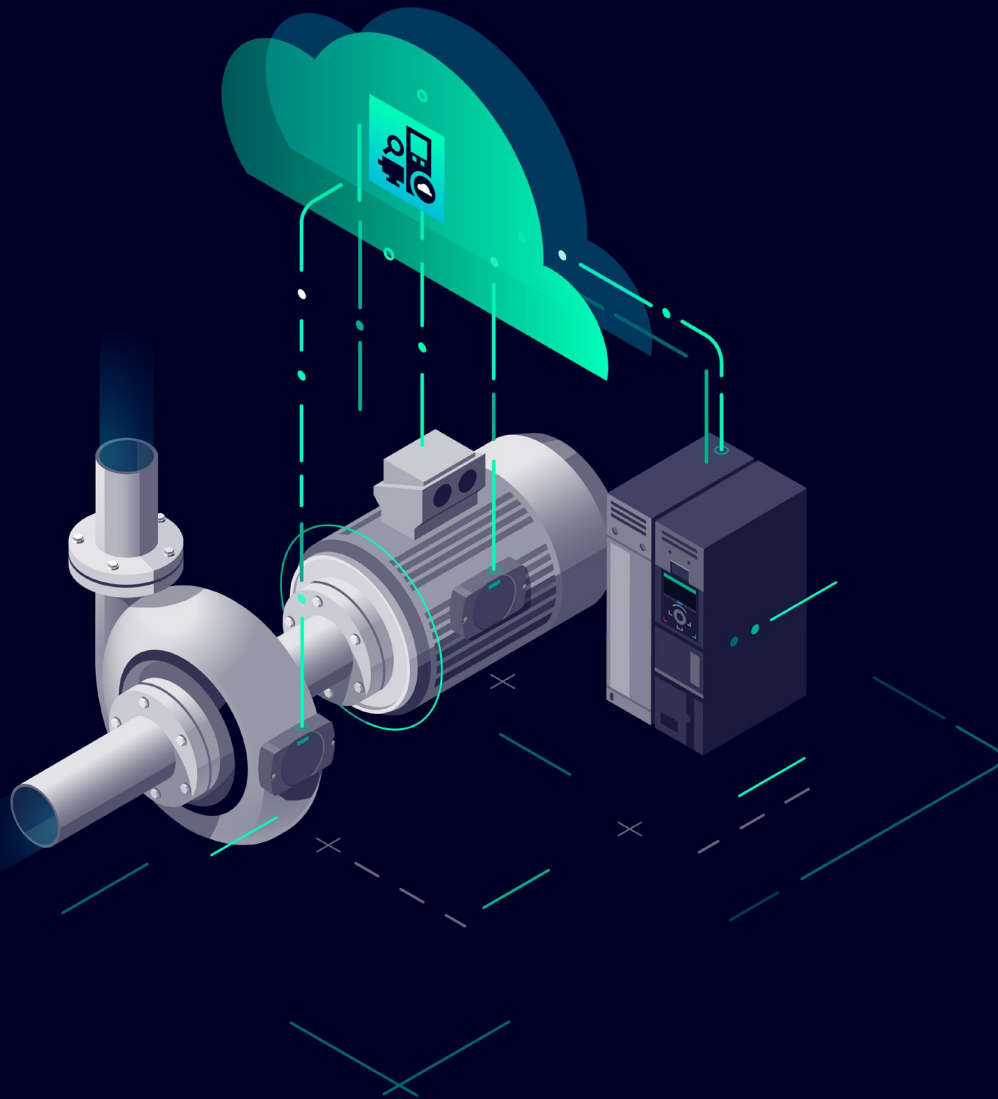


SIMOTICS M - 1PH8

1PH8184-1AD30-2BA2	57	544	120	340	5000
1PH8186-1AD30-2BA2	74	707	156	340	5000
1PH8224-1AD30-2BA2	105	1003	220	335	4500
1PH8226-1AD30-2BA2	135	1289	275	340	4500
1PH8228-1AD30-2BA2	165	1576	330	340	4500
1PH8284-1AD40-2BU2	243	2321	490	335	3300
1PH8286-1AD40-2BU2	309	2951	630	330	3300
1PH8288-1AD40-2BU2	379	3619	760	335	3300

### 1PH8 SQUARE BODY ASENKRON MOTOR - 3 PHASE 400V Supply, IP23, Nn=1500rpm

1PH8184-1AF30-2BA2	76	484	162	335	5000
1PH8186-1AF30-2BA2	108	688	225	330	5000
1PH8224-1AF30-2BA2	142	904	290	340	4500
1PH8226-1AF30-2BA2	175	1114	350	340	4500
1PH8228-1AF30-2BA2	230	1464	465	340	4500
1PH8284-1AF40-2BU2	319	2031	620	345	3300
1PH8286-1AF40-2BU2	382	2432	730	345	3300
1PH8288-1AF40-2BU2	480	3056	910	345	3300



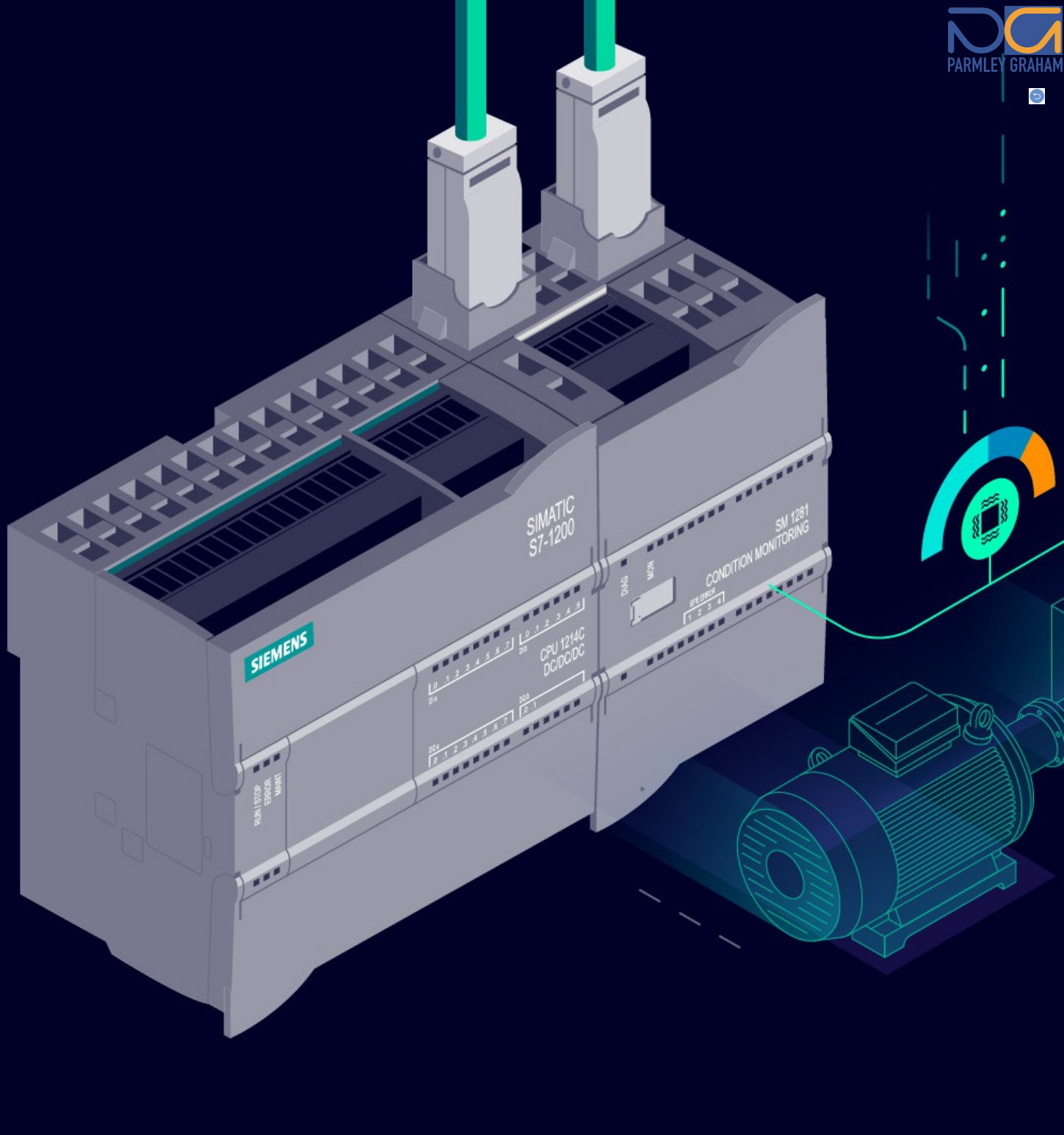
GET A 360° VIEW OF YOUR POWERTRAIN.

# DRIVETRAIN ANALYZER CLOUD AND SENSOR MODULE CM IOT

With the Drivetrain Analyzer Cloud app and plug-and-play CM IOT module, you can connect, analyze and optimize your powertrain: By taking a detailed look at the current health status of your entire Drivetrain, you can detect anomalies before they cause problems, or monitor the energy consumption and costs of your Drivetrain and recommendations for improvement.

- The plug-and-play module CM IOT can be installed and commissioned in just a few minutes. It measures many sensors, raw data and automatically transfers it to the cloud - no additional expertise or software development is required.
- With the Drive Train Analyzer Cloud application, you can analyze the health status of all your powertrain components (drives, motors, gearboxes, bearings, fans, pumps, compressors).

**SIEMENS**



# SIPLUS CMS 1200

## Systematic condition monitoring

(The right tool for Condition Monitoring)

With the SIPLUS CMS1200 condition monitoring system, you can continuously monitor the condition of all mechanical components in your drive chain very precisely with sensors - even across the entire plant. This enables you to detect sources of error at an early stage, prevent production downtime, optimize maintenance planning and reduce maintenance costs.

Parmley Graham | [siemens.com/cms1200](https://www.siemens.com/cms1200)





# SINUMERIK 808D Advanced The Perfect and Economical Solution for Standard CNC Machines

SINUMERIK 808D Advanced offers very economical and performance solutions for standard lathes, milling machines and routers. Easily commissioned with ready PLC and HMI software. up to 5 axes and motor options from 0.4 kW to 7kW is available. Up to 3 years service and product warranty.



# SINUMERIK 808D ADVANCED

Material reference	Description
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## CNC Controller

6FC5370-2BT03-0AA0	SINUMERIK 808D advanced Lathe control unit, Vertical panel
6FC5370-2AT03-0AA0	SINUMERIK 808D advanced Lathe control unit, Horizontal panel
6FC5370-2BM03-0AA0	SINUMERIK 808D advanced Milling control unit, Vertical panel
6FC5370-2AM03-0AA0	SINUMERIK 808D advanced Milling control unit, Horizontal panel

## Machine Control Panel

6FC5303-0AF35-2AA0	SINUMERIK 808D Machine Control Panel, Vertical
6FC5303-0AF35-0AA0	SINUMERIK 808D Machine Control Panel, Horizontal



CNC Control Unit

## Options

6FC5800-0AK70-0YB0	SINUMERIK 808D additional 1 axis/spindle software license
6FC5800-0AS06-0YB0	Friction compensation with adaptive characteristics
6FC5800-0AS50-0YB0	TRANSMIT and TRACYL Y axis transformation license
6FC5800-0AS51-0YB0	Synchronous axis (GANTRY) software license
6FC5800-0AM54-0YB0	Bidirectional ball screw error compensation software license
6FC5800-0AM08-0YB0	Contour hand wheel

## Cables

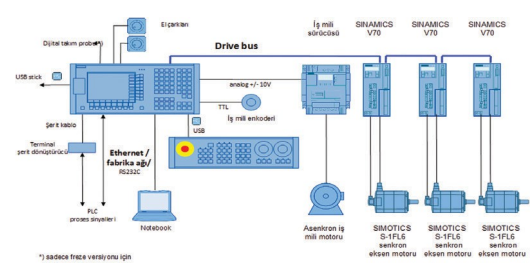
6FC5548-0BA20-1AA3	PPU16x -SINAMICS V70 Bus cable 0.35 m
6FC5548-0BA20-1AD0	PPU16x -SINAMICS V70 Bus cable 3 m
6FC5548-0BA20-1AF0	PPU16x -SINAMICS V70 Bus cable 5 m
6FC5548-0BA20-1AH0	PPU16x -SINAMICS V70 Bus cable 7 m
6FC5548-0BA20-1BA0	PPU16x -SINAMICS V70 Bus cable 10 m
6FC5548-0BA20-1BF0	PPU16x -SINAMICS V70 Bus cable 15 m
6FC5548-0BA20-1CA0	PPU16x -SINAMICS V70 Bus cable 20 m
6FC5548-0BA05-1AD0	PPU16x - Spindle drive signal cable 3 m
6FC5548-0BA05-1AF0	PPU16x - Spindle drive signal cable 5 m
6FC5548-0BA05-1AH0	PPU16x - Spindle drive signal cable 7 m
6FC5548-0BA05-1BA0	PPU16x - Spindle drive signal cable 10 m
6FC5548-0BA05-1BF0	PPU16x - Spindle drive signal cable 15 m
6FC5548-0BA05-1CA0	PPU16x - Spindle drive signal cable 20 m
6FX8002-2CD01-1AF0	PPU16x - Spindle encoder cable 5 m
6FX8002-2CD01-1AH0	PPU16x - Spindle encoder cable 7 m
6FX8002-2CD01-1BA0	PPU16x - Spindle encoder cable 10 m
6FX8002-2CD01-1BF0	PPU16x - Spindle encoder cable 15 m
6FX8002-2CD01-1CA0	PPU16x - Spindle encoder cable 20 m
6FX8002-2BB01-1AB0	PPU16x - handwheel cable 1 m
6FX8002-2BB01-1AF0	PPU16x - handwheel cable 5 m
6FX8002-2BB01-1AH0	PPU16x - handwheel cable 7 m
6FX8002-2BB01-1BA0	PPU16x - handwheel cable 10 m

## Handwheel

6FC9320-5DB01	120mm x 120mm front panel with adjustment wheel
6FC9320-5DC01	76.2mm x 76.2mm front panel with adjustment wheel
6FC9320-5DM00	without front panel, with small adjustment wheel
6FC9320-5DF01	without front panel, without adjustment wheel



Hand Wheel



\*) sadece frez versiyonu için



# SIMATIC Ident RFID and Optical Identification Systems

Transparency throughout the entire supply chain with SIMATIC Ident RFID (Radio frequency identification), Smart camera systems and RTLS (Real time location systems)



# RFID Configuration Guide

Each SIMATIC RF family has specific characteristics for specific applications:

- The first step is to identify the application by asking the right and, as a result, identify the most suitable SIMATIC RF family.
- The appropriate reader and tag combination for the selected family can be found in the SIMATIC RF selection table pages for that family.
- The network interface to be connected to the control system must be selected for the selected product family.

Technology	HF → UHF		
Which RF technology will be used?	<b>RF200</b>  13.56 MHz Passive	<b>RF300</b>  13.56 MHz Passive	<b>RF600</b>  868/915 MHz Passive
Environment	Standard ← Challenging		
What is the reader and tag working environment? (e.g. temperature, protection class, etc.)	<b>RF200</b>  220 C IP68	<b>RF300</b>  220 C IP68	<b>RF600</b>  220 C IP68
Reading distance	Short → Long		
What is the distance between the reader antenna and tag?	<b>RF300</b>  210 mm	<b>RF200</b>  650 mm	<b>RF600</b>  8 meters
Reader Dimensions	Small → Big		
How much space will there be for mounting the reader/ antenna?	<b>RF200</b>  M8 x 38	<b>RF300</b>  M12 x 40	<b>RF600</b>  75 x 75 x 20
Tag Memory	Less → Very much		
How many bytes be stored on the tag?	<b>RF600</b>  4 kbytes	<b>RF200</b>  8 kbytes	<b>RF300</b>  64 kbytes
Multitag Mode	Less → Very much		
What are the dimensions of the read/write units/antennas?	<b>RF200</b>  1	<b>RF300</b>  1	<b>RF600</b>  100+
Metal Effect	Direct mounting → Discriminative		
Does the reader or tag have to be mounted on or close to the metal?	<b>RF300</b>  Direct with reduction	<b>RF600</b>  Direct with reduction	<b>RF200</b>  Space Mount
Tag Speed	Slowly → Fast		
Tag's RF field. What is the transition speed?	<b>RF200</b>  26 kbits/sec	<b>RF300</b>  100 kbits/sec	<b>RF600</b>  300 kbits/sec
Tag Dimensions	The smallest → The biggest		
What is the smallest tag size?	<b>RF200</b>  Ø 4 x 5 mm	<b>RF300</b>  Ø 6 x 5 mm	<b>RF600</b>  Ø 21 x 20 mm
Protocol	Siemens → Standard		
Are there any requirements when determining the wireless protocol?	<b>RF300</b>  Siemens/ ISO15693/14443	<b>RF200</b>  ISO 15693	<b>RF600</b>  ISO 18000 -62/ -63



# SIMATIC RFID RF600 System



Material Type	Order No	Unit Price Euro/Unit
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## SIMATIC RF600

SIMATIC RF600 RFID (RFID: Radio Frequency Identification) system is specially designed for logistics and supply chain management applications.

SIMATIC RF600 operates in the UHF frequency band. It can be used for reading and writing EPC Global standard labels. It is the ideal system for smart labels with EPC (EPC: Electronic Product Code) code, offering an economical solution.

## SIMATIC RF600 RFID System Components

<b>SIMATIC RF600 Reader RF690R ETSI</b> Interface ETHERNET RJ45 PoE 4 antennas, 1x DI/DQ, 24 V DC; -25 to +55 °C; accessories and antenna not included.	6GT2811-7AD20-0AA0	
<b>SIMATIC RF600 Reader RF695R ETSI</b> Interface ETHERNET RJ45 PoE 8 antennas, 1x DI/DQ, 24 V DC; -25 to +55 °C; accessories and antenna not included.	6GT2811-7DD20-0AA0	
<b>READER RF680R ETSI</b> (865 ... 868 MHz); Interfaces ETHERNET M12, PROFINET M12 4 antennas, 4 digital input, 4 digital output 24V DC, IP65, -25 to +55 DGR/C, Accessories and antenna not included	6GT2811-6AA10-0AA0	
<b>READER RF685R ETSI</b> (865 ... 868 MHz); Interfaces ETHERNET M12, PROFINET M12 1 INTEGRATED (internal)+ 1 EXT. (external) antenna 4 antennas, 4 digital input, 4 digital output 24V DC, IP65, -25 to +55 DGR/C, Accessories and antenna not included	6GT2811-6CA10-0AA0	
<b>READER RF610R ETSI</b> SIMATIC RF600 Reader RF610R ETSI; Interfaces: 1 Ethernet / PROFINET M122; 1 integrated antenna; 24 V DC; IP67;-25 to +55 °C accessories not available	6GT2811-6BC10-0AA0	
<b>READER RF615R ETSI</b> SIMATIC RF600 Reader RF615R ETSI; Interfaces: 1 Ethernet / PROFINET M12; 1 integrated antenna+ 1 external antenna port; 1 dig. input, 1 dig. output; 24 V DC; IP67;-25 to +55 °C accessories not available	6GT2811-6CC10-0AA0	
<b>SIMATIC RF615A Antenna for Europe</b> Linear Polarized Antenna, Small Size 865 ... 868 MHz UHF frequencies, 52 x 52 x 16 mm	6GT2812-0EA00	
<b>SIMATIC RF642A Antenna for Europe</b> Linear Polarized Antenna, Medium UHF 865 ... 868 MHz UHF frequencies, 185 x 185 x 45 mm	6GT2812-1GA08	
<b>SIMATIC RF650A Antenna for Europe</b> Circular Polarized Antenna, Medium 865 ... 868 MHz UHF frequencies, 198 x198 x 60 mm	6GT2812-0GB08	
<b>SIMATIC RF662A Antenna for Europe</b> Circular Polarized Antenna 65 ... 868 MHz UHF frequencies, 312 x312 x 68 mm	6GT2812-1AA08	
<b>SIMATIC RF680A Antenna for Europe</b> Circular or Linear Polarization Selectable Antenna 865 ... 868 MHz UHF frequencies, 198 x 198 x 60 mm	6GT2812-2GB08	
<b>Antenna Cables</b> IP65, European and American versions PE, CMR/MPR		
Length 1 m	6GT2815-0BH10	
Length 3 m	6GT2815-0BH30	
Length 10 m	6GT2815-0BN10	
Length 10 m -2DB dumping	6GT2815-1BN10	
Length 20 m	6GT2815-0BN20	
Length 40 m, attn. (loss, 5db)	6GT2815-0BN40	
Length 5 m, flexible (trailing)	6GT2815-2BH50	
Length 15 m, flexible (trailing)	6GT2815-2BN15	



# SIMATIC RFID RF600 System



Material Type	Order No
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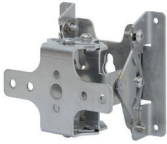
## SIMATIC RF600 RFID System Components

**Power Supply**  
Input: 100 - 240 V AC, 120 - 353 V DC, Output: 24 V DC, 3A

6GT2898-0AC00

**Power Supply Cable, 5 m connection cable for SIMATIC RF650R, 680R, 685R 6GT2898-0AA00 Reader M12, 8 pin - Power Supply M12, 4 pin**

6GT2891-0PH50



**RF600 Antenna mounting kit**  
3-axis kit, stainless steel; for RF600 antenna and reader

6GT2890-2AB10

**DI/DO Cable**  
DI/DO cable for SIMATIC RF650R / 680R / RF685R  
M12, 12 x 0.5 SQMM, Screened cable M12, 12 x 0.5 SQMM, Screened cable M12, 12 x 0.5 SQMM, Screened cable IP67, 5 m long

6GT2891-0CH50

**For SIMATIC RF650R, 680R, 685R**

**2m.**

6GT28914EH20

**5m.**  
24VDC supply cable, PUR, CMG, Trailing Reader M12-8  
Pin socket - 24V side open end

6GT2891-4EH50

## RF600 Tags



SIMATIC RF620T

**SIMATIC RF620T**  
Container Tag; ISO 18000-6C, EPC Class 1 GEN 2;  
EPC ID 56 byte/448 bit user, memory 256 byte/2048 bit 868 ... 915 MHz, 127 x 38 x 6 mm, -40 to +85°C, Min. Order Quantity: 20 pcs

6GT2810-3HC80

**Holder for RF620T**  
155 x 38 x 12 mm, Min. Order Quantity: 20 pieces

6GT2898-2AA00



**SIMATIC RF630T**  
SCREW-TAG, ISO 18000-6C, 868 MHz (Europe), 96/240-bit EPC, Additional 512-bit user memory, -25 to +85 C, IP 68/X9K, 21 x 21 mm (D x H), W/O Thread Min. Order Quantity: 10 pcs

6GT2810-2EC00

# SIMATIC RFID RF600 System

Material Type	Order No	
<b>RF600 Tags</b>		
<b>SIMATIC RF640T GEN2</b> Tool-Tag ISO 18000-6C 868 MHz (Europe), 96-Bit EPC Additional 512-bit Memory -25 to +85°C IP 68/X9K 50 x 8 mm (DxH) Min. Order Quantity: 10 Pieces	6GT2810-2DC00	
<b>SIMATIC RF682T</b> High Temperature Transponder ISO 18000-6C EPC Class 1 GEN 2 240 bit EPC, 384 Byte User Memory 868 ... 915 MHz -25 to +220°C IP 68/X9K 130 x 32 x 15 mm (L x W x H) Min. Order Quantity: 10 pieces	6GT2810-3HG80	
<b>SIMATIC RF610T</b> ISO Card ISO 18000-6C 868 MHz EPC Class 1 GEN 2 96/240-bit, 64 Byte User Memory -25 to +85°C 86 x 54 x 0.4 mm (L x W x H) Min. Order Quantity: 500 Pieces	6GT2810-2BB80	
<b>SIMATIC RF625T</b> DISK Tag ISO 18000-6C 868 MHz EPC Class 1 GEN 2 96/128-bit EPC, 64 Byte User Memory -25 to +85°C 80 x 8 mm (D x H) Min. Order Quantity: 10 Pieces	6GT2810-2EE00	
<b>SIMATIC RF645T</b> Container Tag; 52x 36x 12.5 mm; ISO 18000-6C, EPC CLASS 1 GEN 2 Frequency 860 to 688 MHz Chip type Alien Higgs 4, EPC 128-bit 12-byte add-on memory Min. Order Quantity: 20 Pieces	6GT2810-2HC05	
<b>SIMATIC RF600</b> Fixing hood for RF645T plastic PA 6.6 30GF Min. Order Quantity: 20 pcs	6GT2898-5AA00	
<b>SIMATIC RF600</b> Fixing bracket for RF645T plastic PA 6.6 30GF packing unit 20 peaces	6GT2898-5AB00	



# SIMATIC RFID RF600 System



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Material Type	Order No
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## RF600 Tags

### RF660M UHF Handheld Terminal, Android operating system



**SIMATIC RF160B basic device**

SIMATIC RF160B RFID mobile reader master device. RF200/300 (HF) and RF600 (UHF) software, Battery included. Charging station not included.

6GT2003-0FA00



**SIMATIC RF660H ETSI UHF-RFID head unit**

SIMATIC RF660H ETSI UHF RFID reader module; only with RF160B (6GT2003-0FA00); Europe (ETSI).

6GT2813-1FA00



**SIMATIC RF160B Charging/docking station**

Charging station for SIMATIC RF160B

6GT2003-0FB00



**SIMATIC RF160B replacement battery**

6GT2093-0FA00

**SIMATIC RF160B hand grip bracket**

SIMATIC RF160B accessory (pistol handle)

6GT2093-0FG00

### SIMATIC RF1000 CONTROL



**SIMATIC RF1060R ACCESS CONTROL READER**

RF1060R; ISO 14443 A/B Mifare, ISO15693USB INTERCOM; IP 65 front side, -25 to +55 DEG/C; 90 X 62 X 25 MM LXWXH; Built-in Antenna, 1.8M USB connection cable included

6GT2831-6AA60



**SIMATIC RF1070R ACCESS CONTROL READER**

RF1070R; ISO 14443 A/B Mifare, ISO15693 Legic Prime, Legic Advent USB INTERFACE; IP 65 front side, -25 to +55 DEG/C; 90 X 62 X 25 MM LXWXH; Built-in Antenna, 1.8M USB connection cable included

6GT2831-6BA60

**SIMATIC RF1040 ACCESS CONTROL READER**

RF1040R; USB and RS232, Combi Model LF and HF LF:125 Khz HITAG1, HITAG2, Cotag, EM4xxx LF HF: ISO 1443 A/B, ISO 15693 IP 65 front side, -25 to +55 DEG/C; 90 X 62 X 25MM LXWXH; Built-in Antenna, 1.8M USB connection cable included

6GT2831-6CA60

**SIMATIC RF1000 ACCESS CONTROL READER**

RF1140R; LF 125 kHz, HITAG 1/2/S, EM41xx, HF, ISO 14443 A/B, ISO15693; Power over Ethernet, 24 V RJ45 IP65 front side, -25 to +55 °C; 90 x 62 x 25 mm LxWxH; integrated internal antenna

6GT2831-6CB00

**SIMATIC RF1000 ACCESS CONTROL READER**

RF1170R; ISO 14443 A/B Mifare, ISO15693 Legic Prime; Legic Advant Power over Ethernet, 24 V RJ45 IP65 front side, -25 to +55 °C; 90 x 62 x 42 mm LxWxH; integrated internal antenna

6GT2831-6BB00



**SIMATIC RF1000**

clean room coversface mounting for all access control readers of the RF1000 family.

6GT2890-0CC00



**SIMATIC RF1000**

clean room cover panel mounting for all access control readers of the RF1000 family.

6GT2890-0CD00



**SIMATIC RF1000**

desktop and wall box for all access control readers of the RF1000 family;

6GT2890-0CB00



**SIMATIC RF1000**

Card holder for RF1060R Access Control Reader for clip fixing

6GT2890-0CA00

**SIMATIC RF1000**

USB cable connector for RF1060R 6GT2831-6AA50; Length 0.5m;

6GT2891-0UE50

**SIMATIC RF1000 connecting cable**

pre-assembled RS 232, between RF1070R and RF170C; Black, length 2 m

6GT2891-4UH20

**SIMATIC RF1000 connecting cable,**

pre-assembled RS232, between RF1040R or RF1070R and RF120C; black, length 2 m

6GT2891-6UH20

**SIMATIC RF1000 connecting cable,**

pre-assembled RS 232, between RF1070R and controllers with bare ends Black, length 3 m

6GT2891-2UH30

# SIMATIC RFID RF200 and RF300 System

Material Type	Order No	
<b>SIMATIC RF200 - RF300 RFID System Components</b>		
<b>SIMATIC RF210R, RF200 RFID Read/Write Unit</b> RS 422 Interface (3964R) IP67, -25 to +70°C, M18 x 71 mm, Internal Antenna	6GT2821-1AC10	
<b>SIMATIC RF220R, RF200 RFID Read/Write Unit</b> RS 422 Interface (3964R) IP67, -25 to +70°C, M30 x 71 mm, Internal Antenna	6GT2821-2AC10	
<b>SIMATIC RF240R, RF200 RFID Read/Write Unit</b> RS 422 Interface (3964R) IP67, -25 to +70°C, 50 x 50 x 30 mm, Internal Antenna	6GT2821-4AC10	
<b>SIMATIC RF240R, RF200 RFID Read/Write Unit</b> RS 232 Interface (ASCII) IP67, -25 to +70°C, 50 x 50 x 30 mm, Internal Antenna	6GT2821-4AC40	
<b>SIMATIC RF250R, RF200 RFID Read/Write Unit</b> RS 422 Interface (3964R) IP67, -25 to +70°C, 50 x 50 x 30 mm, External antenna, ANT 8,12,18 or 30 selectable.	6GT2821-5AC10	
<b>SIMATIC RF250R, RF200 RFID Read/Write Unit</b> RS 232 Interface (ASCII) IP67, -25 to +70°C, 50 x 50 x 30 mm, External antenna, ANT 8,12,18 or 30 selectable.	6GT2821-5AC40	
<b>SIMATIC RF260R, RF200 RFID Read/Write Unit</b> RS 422 Interface (3964R) IP67, -25 to +70°C, 75 x 75 x 40 mm, Internal Antenna	6GT2821-6AC10	
<b>SIMATIC RF260R, RF200 RFID Read/Write Unit</b> RS 232 Interface (ASCII) IP67, -25 to +70°C, 75 x 75 x 40 mm, Internal Antenna	6GT2821-6AC40	
<b>SIMATIC RF280R, RF200 RFID Read/Write Unit</b> RS422/232-interface (3964R) IP67, -10 to +60°C, 160x 80x 41 mm, antenna integrated	6GT2821-8AC10	
<b>SIMATIC RF300 Reader RF310R (Gen2)</b> RS422 Interface (3964R) IP67, -25 to +70°C, 55 x 75 x 30 mm, including integrated antenna	6GT2801-1BA10	
<b>SIMATIC RF300 Reader RF310R (Gen2)</b> RS422 Interface (3964R), 90° Rotatable Special Version IP67, -25 to +70°C, 55 x 75 x 30 mm, including integrated antenna	6GT2801-1BA10-0AX1	
<b>SIMATIC RF300 Reader RF340R (Gen2)</b> RS422 Interface (3964R) IP67, -25 to +70°C, 75 x 75 x 41 mm, including integrated antenna	6GT2801-2BA10	
<b>SIMATIC RF300 Reader RF350R (Gen2)</b> RS422/232 Interface (3964R) IP67, -25 to +70°C, 75 x 75 x 41 mm, including integrated antenna	6GT2801-4BA10	
<b>SIMATIC RF300 Reader RF360R (Gen2)</b> SIMATIC RF300; Compact Reader, IP67, 0 ... +55 °C RF360R; For Profinet, Ethernet; 141 x 80 x 42 (L/W/H, mm)	6GT2801-5BA30	
<b>SIMATIC RF300 Reader RF380R (Gen2)</b> (RF300+ ISO15693) RS 422 Interface (3964R) IP67, -25 to +70°C, 160 x 80 x 41 mm, including integrated antenna	6GT2801-3BA10	
<b>ANT 1 Antenna</b> PVC, Cable length: 3 m IP65, -25 to +70°C, 75 x 75 x 20 mm, Max. Distance: 100 mm, Antenna included	6GT2398-1CB00	
<b>RF200 ANT 8 Antenna</b> Antenna cable included, 3m. IP 67, -25 to +70°C, M8 x 38 mm	6GT2398-1CF10	



# SIMATIC RFID RF200 and RF300 System



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Material Type	Order No	
<b>SIMATIC RF300 Tags</b>		
<b>SIMATIC RF200/RF300 ANT 18 Antenna</b> Stainless steel, M18, length 40 mm, PUR, UL 758, Cable length: 3 m IP65, -25 to +70°C, Antenna included	6GT2398-1DA10	
<b>ANT 30 Antenna</b> Stainless steel, M30, length 40 mm, PUR, UL 758, Cable length: 3 m IP65, -25 to +70°C	6GT2398-1DD10	
<b>SIMATIC RF300 MDS Tag RF320T</b> Pushbutton, 20 Byte EEPROM IP67, -25 to +125°C D: 27 mm x 4 mm Min. order quantity: 20 pieces	6GT2800-1CA00	
<b>SIMATIC RF300 MDS Tag RF340T</b> 8 KB FRAM IP68, -25 to +85°C 48 x 25 x 15 mm Min. order quantity: 5 pieces	6GT2800-4BB00	
<b>SIMATIC RF300 MDS Tag RF350T</b> 32KB FRAM IP68, -25 to +85°C 50 x 50 x 20 mm Including mounting bracket	6GT2800-5BD00	
<b>SIMATIC RF300 MDS Tag RF360T</b> EPOXY-CARD 8KB FRAM IP67, -25 to +70°C 85 x 54 x 2.5 mm Min. order quantity: 10 pieces	6GT2800-4AC00	
<b>MOBY D/E/L Fixing Strap</b> MDS D100 and MDS E600 With holder (6GT2190-0AA00) Min. order quantity: 50 pcs	6GT2190-0AB00	
<b>MOBY D/E, RF300 20 mm Holder</b> MDS D100 and MDS E600/601 Fixing bracket for RF360T (6GT2190-0AA00) Min. order quantity: 50 pcs	6GT2190-0AA00	
<b>SIMATIC RF300 MDS Tag RF370T</b> 32 Kb FRAM IP68, -25 to +85°C 75 x 75 x 40 mm	6GT2800-5BE00	
<b>SIMATIC RF300 MDS Tag RF380T</b> MDS RF380T Tag Heat resistant for high temperatures 32 Kb FRAM IP68, -25 to +220°C Cylindrical, D: 114 mm, H:83 mm	6GT2800-5DA00	



# SIMATIC Moby D / RF300 ISO Tags








Material Type	Order No	
<b>SIMATIC RF200-RF300-Moby D ISO Tag (ISO 15693)</b>		
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D165</b> Special version label, 112 Byte Application Memory, -25 to +70°C, 86 x 54 x 0.3 mm Min. order quantity: 1000 pieces	6GT2600-1AB00-0AX0	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D261</b> Special version pet-label 256 Byte User Memory Compliance with ISO 15693 standards -25 to +85°C 50 x 55 x 0.3 mm Min. order quantity: 50 pieces	6GT2600-1AA01-0AX0	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D100</b> ISO Card, 128 Byte Application Memory IP 68, -25 to +70°C 85 x 54 x 0.9 mm Min. order quantity: 50 pieces	6GT2600-0AD10	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D200</b> ISO card special version 126 Byte Application Memory IP67, -25 to +70°C 85 x 54 mm Min. order quantity: 250 pieces	6GT2600-1AD00-0AX0	
<b>MOBY D/E/L Fixing Strap - MDS E611</b> MDS D100 and MDS E600 Together with distance apparatus (6GT2190-0AA00) Min. order quantity: 50 pcs	6GT2190-0AB00	
<b>MOBY D/E, RF300 20 mm Distance Apparatus</b> MDS D100 / MDS E600/611 RF 360T with fixing strap (6GT2190-0AB00) Min. order quantity: 50 pcs	6GT2190-0AA00	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D421</b> PILL, 2000 BYTE FRAM, mounting for metal IP67/IPX9K, -25 to +85°C, 10 x 4.5 mm, DIN 69873 Min. order quantity: 10 pieces	6GT2600-4AE00	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D422</b> 2000 BYTE FRAM User Memory 20 x 6 mm (D x H), M20 Thread, IP68, IPX9K Incl. Fastenin Tool (1X) Min. order quantity: 5 pcs	6GT2600-4AF00	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D124</b> Pushbutton, 112 Byte EEPROM, IP67 27 mm Min. order quantity: 20 pcs	6GT2600-0AC10	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D339</b> Compliance with ISO 15693 standards 992 Byte EEPROM, IP68 85 x 15 mm (D x H) Min. order quantity: 10 pieces	6GT2600-3AA10	
<b>MOBY D / RF300 ISO Mobile Data Carrier - MDS D160</b> Specialized for dry cleaners and laundries Cyclic, 112 Byte User Memory, IP68 Short intervals +775°C 16 x 3 mm Min. order quantity: 100 pieces	6GT2600-0AB10	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D324</b> 996 Byte EEPROM User Memory, IP67 conforms to ISO 15693 standards 27 x 4 mm (D x H) Min. order quantity: 20 pieces	6GT2600-3AC00	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D460</b> 2000 Byte FRAM User Memory Compliance with ISO 15693 standards IP67, -25 to +85°C 16 x 3 mm (D x H) Min. order quantity: 50 pieces	6GT2600-4AB00	
<b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D424</b> 2000 Byte FRAM User Memory Compliance with ISO 15693 standards IP67, -25 to +85°C 27 x 4 mm (D x H) Min. order quantity: 20 pieces	6GT2600-4AC00	



# SIMATIC Moby D / RF300 ISO Tags



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Material Type	Order No	
<b>SIMATIC Moby D RFID System Components</b>		
 <p><b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D425 Screw</b>            2000 Byte FRAM User Memory            Compliance with ISO 15693 standards            IP68, IPx9K SW22            24 x 10 mm (D x H) Min. order quantity: 5 pieces</p>	6GT2600-4AG00	
 <p><b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D428 Screw</b>            2000 Byte FRAM User Memory, Transponder Compliance            with ISO 15693 standards            IP68, IPx9K            Min. order quantity: 5 pieces</p>	6GT2600-4AK00-0AX0	
 <p><b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D126</b>            112 Byte User Memory            Compliance with ISO 15693 standards            IP67, -25 to +85°C            50 x 3.6 mm (D x H)            Min. order quantity: 250 pieces</p>	6GT2600-0AE00	
 <p><b>MOBY D/RF300 ISO Mobile Data Carrier - MDS D426</b>            2000 Byte FRAM User Memory            Compliance with ISO 15693 standards            IP68, IPx9K, -25 to +85°C            50 x 3.6 mm (D x H)            Min. order quantity: 50 pieces</p>	6GT2600-4AH00	
 <p><b>MDS D117 Tag</b>            ISO 15693, 112 Byte memory            IP68/IPX9K, -25 to +85°C,            6 x 5 mm (D x H)            Direct application into metal, adhesive Min.            order quantity: 10 pieces</p>	6GT2600-0AG00	
 <p><b>MDS D127 Tag</b>            ISO 15693, 112 Byte memory IP68/IPX9K, -            25 to +85°C,            6 x 6 mm (D x H)            Direct use in metal, screw type Min. order            quantity: 10 pcs</p>	6GT2600-0AF00	
 <p><b>MDS D421 Tag</b>            ISO 15693, 2000 Byte FRAM memory IP68/IPX9K, -25            to +85°C,            10 x 4.5 mm, DIN 69873            Can be mounted directly into metal Min.            order quantity: 10 pieces</p>	6GT2600-4AE00	

# SIMATIC RFID Interface Components and Cables



Material Type	Order No	
<b>SIMATIC S7-300 Rack or ET200M with ASM 475</b>		
<b>MOBY Interface ASM 475</b> Configurable for SIMATIC S7-300 and ET200M Excluding front connector	6GT2002-0GA10	
<b>SIMATIC S7-300 Front Connector</b> Screw type for signal modems, 20 Pin	6ES7392-1AJ00-0AA0	
<b>SIMATIC RF300 Connection Cable</b> Pre-assembled, Length between ASM 475 and Reader: 2 m	6GT2891-4EH20	
<b>SIMATIC RF300 Connection Cable</b> Pre-assembled, Length between ASM 475 and Reader: 5 m	6GT2891-4EH50	



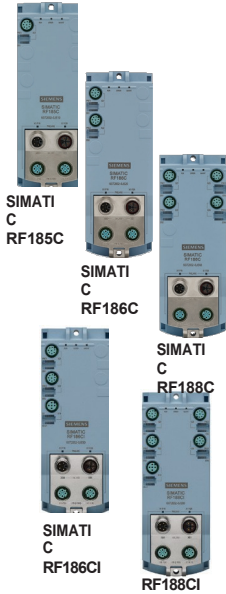
ASM 475

<b>RF120C RFID Communication Module for SIMATIC S7-1200</b>		
<b>SIMATICRF120C</b> RFID communication module for SIMATIC S7-1200 1 reader can be connected	6GT2002-0LA00	
Cable RF120C - Reader, 2 m	6GT2091-4LH20	
Cable RF120C - Reader, 5 m	6GT2091-4LH50	
Cable RF120C - Reader, 10 m	6GT2091-4LN10	



RF120C

# SIMATIC RFID Interface Components and Cables



Material Type	Order No	
<b>PROFINET, RF185C, RF186C, RF188C</b>		
<b>SIMATIC RF185C</b> RFID Communication module RF185C for Profinet, Ethernet, 1 reader can be connected	6GT2002-0JE10	
<b>SIMATIC RF186C</b> RFID Communication module RF186C, for Profinet, Ethernet, 2 readers can be connected	6GT2002-0JE20	
<b>SIMATIC RF188C</b> RFID Communication module RF1885C for Profinet, Ethernet, 4 readers can be connected	6GT2002-0JE40	
<b>SIMATIC RF186CI</b> RFID communication module RF186CI PROFINET; Ethernet, 2 readers can be connected; DI/DO interface, with I/O Link	6GT2002-0JE50	
<b>SIMATIC RF188CI</b> RFID communication module RF188CI PROFINET; Ethernet, 4 readers can be connected; DI/DO interface, with I/O Link	6GT2002-0JE60	
<b>For RF185C, 186C, 188C,</b> M12-180/M12-180 power cable ET 200, M12 socket, L-coded, 4-pole, 1.0 m, for other lengths	6XV1801-6DH10	

<b>Reader (M12 Interface) - RF166C, 170C, RF185C, RF186C, RF188C Cables</b>		
<b>SIMATIC RF300/600 Preassembled Connection Cable</b> Extension cable between ASM 456, RF 170C, RF 185C and reader or between ASM 456, RF 170C and MOBY D/E//U, SIMATIC RF 300/RF 600 Length: 2 m	6GT2891-4FH20	
<b>SIMATIC RF300/600 Preassembled Connection Cable</b> Extension cable between ASM 456, RF 170C, RF 185C and reader or between ASM 456, RF 170C and MOBY D/E//U, SIMATIC RF 300/RF 600 Length: 5 m	6GT2891-4FH50	
<b>SIMATIC RF300/600 Preassembled Connection Cable</b> Extension cable between ASM 456, RF 170C, RF 185C and reader or between ASM 456, RF 170C and MOBY D/E//U, SIMATIC RF 300/RF 600 Length: 10 m	6GT2891-4FN10	
<b>SIMATIC RF300/600 Preassembled Connection Cable</b> Extension cable between ASM 456, RF 170C, RF 185C and reader or between ASM 456, RF 170C and MOBY D/E//U, SIMATIC RF 300/RF 600 Length: 20 m	6GT2891-4FN20	
<b>SIMATIC RF300/600 Preassembled Connection Cable</b> Extension cable between ASM 456, RF 170C, RF 185C and reader or between ASM 456, RF 170C and MOBY D/E//U, SIMATIC RF 300/RF 600 Length: 50 m	6GT2891-4FN50	

# 2D (QR Code) Reading Systems



Material Type	Order No	
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## SIMATIC MV540 for 1D and 2D Codes

### Technical and functional features

- Excellent readability, the latest processor and sensor technology and high performance.
- WBM (web-based) user interface, HTML5 no program installation required)
- One-button configuration of network and reading parameters:
  - CONNECT button: to connect to the device without IP address and admin rights with the connect button.
  - READ button Configure all SIMATIC MV540 parameters with one button and put the device in RUN mode device in run mode.
- Increased CPU power with Multi-Core processor:
  - Industrial operating system (Linux) is the standard for the new series of optical readers.
  - Increased processor performance doubles read speed and guarantees read accuracy.
- Increased image sensitivity.
- Increased RAM provides more memory space for auto-triggered image and diagnostic buffer.
- Segmentally switchable, high-performance integrated "built-in ring light". The latest LED technology provides increased light intensity.
- Electronically controlled focus: All products of the SIMATIC MV500 family have the option of an integrated C-mount, industrial-grade liquid lens module (E-focus lens).
- When using an E-focus lens, image processing software automatically changes the camera's focus point according to changing product or production conditions.
- MicroSD card interface: This memory card is supplied with the camera and allows automatic backup of current parameters.

## SIMATIC MV540 for 1D and 2D Codes

<b>SIMATIC MV540 S</b> Optical reader; Resolution: 800 x 600 Pixel; Function: 1D/2D read code; Field of view and distance: variable (Lens); PoE; 6GF3540-IP67 with 8AC11; Micro SD adapter included	6GF3540-0CD10	
<b>SIMATIC MV540 H</b> Optical reader; Resolution: 1280 x 1024 Pixel; Function: 1D/2D read code; Function: 1D/2D read code; Field of view and distance: variable (Lens); PoE; IP67 with 6GF3540-8AC11; Micro SD adapter included	6GF3540-0GE10	
<b>SIMATIC MV550 S</b> Resolution: 800x600 px; 2-fold Ethernet: 100 MB(POE),GigE !No switch => data disconnection!; Function: 1D/2D code reading; Image field and distance: Variable (dep. on lens); PoE; IP67 with 6GF3540-8AC11;Delivery: Reader and SD card adapter (w/o card);	6GF3550-0CD10	
<b>SIMATIC MV550 H</b> Resolution.:1280x1024Px; PN and GigE; 2-fold Ethernet: 100 MB(POE),GigE !no switch=>data separation!; Function: 1D/2D code reading; Image field and distance: Variable (dep. on lens); PoE; IP67 with 6GF3540-8AC11; Delivery: Reader and SD card adapter (w/o card);	6GF3550-0GE10	
<b>SIMATIC MV560 U</b> Resolution: 1920 x 1200 pixels; Maximum processing and communication speed; Function: 1D/2D code reading; Image field and distance: variable, (lens); PoE; IP67 with 6GF3540-8AC12; Delivery: reader; B enable=> VS enable	6GF3560-0LE10	
<b>SIMATIC MV560 X</b> Resolution: 2592 x 2048 pixels; Maximum processing and communication speed; Function: 1D/2D code reading; Image field and distance: variable (lens); PoE; IP67 with 6GF3540-8ADxx; Delivery: reader;	6GF3560-0HE10	
<b>RUGGEDCOM 4GB MICROSD CARD ACCESSORY</b>	6GK6000-8HT01-0SA2	
<b>Mini CX lens Masking frame 25 mm E-focus;</b> EDMUND lens, with liquid lens; focus variable, electrically adjustable.	6GF3540-8EA03-0LL0	

## Handheld Readers and Accessories for 1D and 2D Codes

<b>MV400 LED RINGLIGHT IR</b> Lighting range 3000 mm	6GF3400-0LT01-7BA1	
<b>MV440 Holder</b> For external lighting (Example, 6GF3400-0LT01-7BA1, 6GF3400-0LT01-8BA1)	6GF3440-8CD01	
<b>SIMATIC MV320 Handheld Reader and USB cable</b> 6' (1.8 m) USB cable for use with medium to high contrast Reading distance ranges from 20 mm to 375 mm depending on code type and size	6GF3320-0HT01	
<b>SIMATIC MV326 Bluetooth Handheld Reader and Charging station</b> Bluetooth handheld reader for 1D barcode and data matrix, ready-to-use set from read device, charging station, Access point and USB cable 6' (1.8 m) for codes with medium to high contrast, reading range depending on code type and Size 20 mm to 375 mm Note: Inductive loading not compatible with MV325.	6GF3326-0HT01	





PROJECTED TIA PORTAL

# SIPLUS Extreme: Durable and Rugged for Harsh Environmental Conditions

## Automation and Drive Technologies

**SIEMENS**

# SIPLUS Extreme:

## Harsh Environmental Conditions

## Tested and Reliable Solutions

The SIPLUS extreme product family covers Siemens' wide range of automation and drive systems such as SIMATIC, LOGO!, SITOP, SIRIUS, SINAMICS and SIMOTION. These specially coated components are built on standardized technologies that have been successfully applied millions of times worldwide.

By integrating these components into SIPLUS extreme, Siemens provides reliable solutions that meet the diverse requirements of the production and process industries.



### Why SIPLUS extreme?

SIPLUS extreme products are standard components that are more resistant to mechanical loads, chemical and biological agents, condensation and temperature fluctuations. SIPLUS Extreme technology protects your products against corrosion, dendrites and other harmful deposits, preventing failures and downtime. The extension of the temperature range to  $-40^{\circ}\text{C}$  and  $+70^{\circ}\text{C}$  the use of SIPLUS extreme products even where standards are no longer sufficient.

SIPLUS extreme is primarily preferred in the following harsh environmental conditions:

- 🔥 Extreme Temperature and Temperature
- 💧 Fluctuations Humidity and Condensation
- 🧪 Chemical and Biological Substances
- 🏠 Dust, Sand and Particulate
- 🌪️ Pollution Vibration and
- ⚡ Mechanical Loads Salt Water
- 🦠 and Corrosion Harmful Gases
- 🏔️ High Altitude

SIPLUS extreme consists of a wide range of products:

- Controllers - Distributed IO
- HMI devices - Industrial communication components
- Components for industrial switches - Drive systems

### Coating process

Simple protective coatings are not sufficient for the long-term protection of electronic components. Instead, cleaning processes, material choices and coating technologies be coordinated in harmony with each other. SIPLUS extreme's special coating technology ensures that all components and solder joints are permanently protected. Unlike simple coatings, this advanced coating method covers all critical areas and offers higher durability.

After the coating process, SIPLUS extreme products are subjected to extensive testing to ensure they can fully perform in harsh industrial conditions. Only products that successfully pass these rigorous tests included in the SIPLUS extreme portfolio. In this way, long-term reliability and high performance for harsh industrial environments are guaranteed.

For more information about SIPLUS extreme, please call **01914780404**.

**SIPLUS  
Conversion  
Tool  
for:**





AT THE TOP IN INTEGRATION, EFFICIENCY AND

# Industry 4.0 Compatible SITOP Power Supply

The SITOP PSU8600 is the first power supply to be fully integrated with Totally Integrated Automation (TIA).

The main module of the SITOP PSU8600 power supply enables access to operational and diagnostic data from SIMATIC devices via Ethernet / PROFINET communication protocol, which can be comprehensively monitored by SIMATIC WinCC and records can be created for maintenance activities and energy management. Parameters can be changed for four different outputs (e.g. voltage and power thresholds).

Configuration of the PSU8600 with user-friendly configuration, setting the outputs individually or switching via PROFinergy is very easy with TIA Portal.



# SITOP Power Supplies

Material Type		Order No
<b>SITOP PSU 100D 1 Phase Input (Wall only)</b>		
3 A	100-240 V AC / 12 V DC	6EP1321-1LD01
2.1 A	100-240 V AC / 24 V DC	6EP1331-1LD01
6.2 A	100-240 V AC / 24 V DC	6EP1333-1LD01
12.5 A	100-240 V AC / 24 V DC	6EP1334-1LD01
<b>SITOP PSU100E</b>		
5 A	120/230 V AC / 48 V DC	6EP3344-0SB00-0AY0
<b>SITOP PSU100P (IP67)</b>		
5 A	120/230 V AC / 24 V DC	6EP1333-7CA10
8 A	120/230 V AC / 24 V DC	6EP1334-7CA10
<b>LOGO! Power 1 Phase Input - 4th Generation</b>		
3 A	(100-240 V AC / 110-300 V DC) / 5 V DC	6EP3310-6SB00-0AY0
6.3 A	(100-240 V AC / 110-300 V DC) / 5 V DC	6EP3311-6SB00-0AY0
0,9 A	(100-240 V AC / 110-300 V DC) / 12 V DC	6EP3320-6SB00-0AY0
1.9 A	(100-240 V AC / 110-300 V DC) / 12 V DC	6EP3321-6SB00-0AY0
4.5 A	(100-240 V AC / 110-300 V DC) / 12 V DC	6EP3322-6SB00-0AY0
1.9 A	(100-240 V AC / 110-300 V DC) / 15 V DC	6EP3321-6SB10-0AY0
4 A	(100-240 V AC / 110-300 V DC) / 15 V DC	6EP3322-6SB10-0AY0
0.6 A	(100-240 V AC / 110-300 V DC) / 24 V DC	6EP3330-6SB00-0AY0
1.3 A	(100-240 V AC / 110-300 V DC) / 24 V DC	6EP3331-6SB00-0AY0
2.5 A	(100-240 V AC / 110-300 V DC) / 24 V DC	6EP3332-6SB00-0AY0
4 A	(100-240 V AC / 110-300 V DC) / 24 V DC	6EP3333-6SB00-0AY0
<b>SITOP Compact PSU 100C 1 Phase Input</b>		
0.6 A	(100-230 V AC / 110-300 V DC) / 24 V DC	6EP1331-5BA00
1.3 A	(100-230 V AC / 110-300 V DC) / 24 V DC	6EP1331-5BA10
2.5 A	(100-230 V AC / 110-300 V DC) / 24 V DC	6EP1332-5BA00
3.7 A (NEC Class2)	(100-230 V AC / 110-300 V DC) / 24 V DC	6EP1332-5BA20
4 A	(100-230 V AC / 110-300 V DC) / 24 V DC	6EP1332-5BA10
<b>SITOP Lite PSU100L 1 Phase Input</b>		
2.5 A	120/230 V AC / 24 V DC	6EP1332-1LB00
5 A	120/230 V AC / 24 V DC	6EP1333-1LB00
10 A	120/230 V AC / 24 V DC	6EP1334-1LB00
20 A	(120-230 V AC / 110-300 V DC) / 24 V DC	6EP1336-1LB00
<b>SITOP PSU6200 1 Phase AC/DC Input</b>		
12 V / 2 A	120 - 230 V AC / 120 - 240 V DC	6EP3321-7SB00-0AX0
12 V / 7 A	120 - 230 V AC / 120 - 240 V DC	6EP3323-7SB00-0AX0
12 V / 12 A	120 - 230 V AC / 120 - 240 V DC	6EP3324-7SB00-3AX0
24 V / 1.3 A	120 - 230 V AC / 120 - 240 V DC	6EP3331-7SB00-0AX0
24 V / 2.5 A	120 - 230 V AC / 120 - 240 V DC	6EP3332-7SB00-0AX0
24 V / 5 A	120 - 230 V AC / 120 - 240 V DC	6EP3333-7SB00-0AX0
24 V / 10 A	120 - 230 V AC / 120 - 240 V DC	6EP3334-7SB00-3AX0
24 V / 20 A	120 - 230 V AC / 120 - 240 V DC	6EP3336-7SB00-3AX0
24 V / 20 A Coated	120 - 230 V AC / 120 - 240 V DC	6EP3336-7SC00-3AX0
24 V 3,7 A NEC CLASS II	120 - 230 V AC / 120 - 240 V DC	6EP3333-7LB00-0AX0
24 V / 5 A Ex (Zone2/22)	120 - 230 V AC / 120 - 240 V DC	6EP3333-7SC00-0AX0
24 V / 10 A Ex (Zone2/22)	120 - 230 V AC / 120 - 240 V DC	6EP3334-7SC00-3AX0
24 V / 20 A Ex (Zone2/22)	120 - 230 V AC / 120 - 240 V DC	6EP3336-7SC00-3AX0
48 V / 5 A PoE	120 - 230 V AC / 120 - 240 V DC	6EP3344-7SB00-3AX0
48 V / 10 A	120 - 230 V AC	6EP3346-7SB00-3AX0



SITOP PSU100D



LOGO! Power



SITOP Compact PSU100C



SITOP Lite PSU100L



SITOP PSU6200

You can get information from our solution partners about SIPLUS products for products that are required to operate in harsh conditions.(Page 210)

# SITOP Power Supplies



Configure Now



SITOP PSU100S



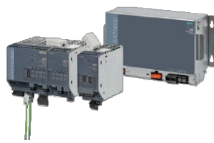
SITOP PSU8600  
Phase 1



SITOP Modular PSU8200



SITOP PSU300E  
Phase 3



SITOP PSU8600  
CNX8600, BUF8600,  
UPS8600 and PROFINET

Material Type	Order No	
<b>SITOP Smart PSU100S 1 Phase Input</b>		
2.5 A	120/230 V AC / 24 V DC	6EP1332-2BA20
5 A	120/230 V AC / 24 V DC	6EP1333-2BA20
10 A	120/230 V AC / 24 V DC	6EP1334-2BA20
20 A	120/230 V AC / 24 V DC	6EP1336-2BA10
<b>SITOP PSU8600 Industry 4.0 Compatible 1 Phase Power Supply (OPC UA Supported)</b>		
PSU8600 20 A / 4 x 5 A PN	100-240 V AC / 24 V DC	6EP3336-8MB00-2CY0
<b>SITOP Modular PSU8200 1 Phase Input</b>		
5 A	120/230 V AC / 24 V DC	6EP3333-8SB00-0AY0
10 A	120/230 V AC / 24 V DC	6EP3334-8SB00-0AY0
20 A	(120-230 V AC / 110-220 V DC) / 24 V DC	6EP1336-3BA10
40 A	120/230 V AC / 24 V DC	6EP3337-8SB00-0AY0
<b>SITOP Modular PSU200M 1/2 Phase Input</b>		
5 A	120/230-500 V AC / 24 V DC	6EP1333-3BA10
10 A	120/230-500 V AC / 24 V DC	6EP1334-3BA10
<b>SITOP PSU300E 3 Phase Input</b>		
5 A	3 x 400-500 V AC / 24 V DC	6EP1433-0AA00
<b>SITOP PSU6200 3 Phase Input</b>		
5 A	3 x 400 - 500 V AC / 24 V DC	6EP3433-7SB00-0AX0
20 A	3 x 400 - 500 V AC / 24 V DC	6EP3436-7SB00-3AX0
5 A	3 x 400 - 500 V AC / 48 V DC	6EP3444-7SB00-3AX0
10 A	3 x 400 - 500 V AC / 48 V DC	6EP3446-7SB00-3AX0
40 A	3 x 400 - 500 V AC / 48 V DC	6EP3447-7SB00-3AX0
<b>SITOP Smart PSU300S 3 Phase Input</b>		
5 A	3 x 400 - 500 V AC / 24 V DC	6EP1433-2BA20
10 A	3 x 400 - 500 V AC / 24 V DC	6EP1434-2BA20
20 A	3 x 400 - 500 V AC / 24 V DC	6EP1436-2BA10
40 A	3 x 400 - 500 V AC / 24 V DC	6EP1437-2BA20
<b>SITOP Modular PSU8200 3 Phase Input</b>		
20 A	3 x 400 - 500 V AC / 24 V DC	6EP3436-8SB00-0AY0
40 A	3 x 400 - 500 V AC / 24 V DC	6EP3437-8SB00-0AY0
13 A	3 x 400 - 500 V AC / 36 V DC	6EP3446-8SB10-0AY0
10 A	3 x 400 - 500 V AC / 48 V DC	6EP3446-8SB00-0AY0
20 A	3 x 400 - 500 V AC / 48 V DC	6EP3447-8SB00-0AY0
<b>SITOP PSU8600 Industry 4.0 Compatible 3 Phase Power Supply (OPC UA Supported)</b>		
PSU8600 20 A PN	3 x 400 - 500 V AC / 24 V DC	6EP3436-8SB00-2AY0
PSU8600 20 A / 4 x 5 A PN	3 x 400 - 500 V AC / 24 V DC	6EP3436-8MB00-2CY0
PSU8600 40 A PN	3 x 400 - 500 V AC / 24 V DC	6EP3437-8SB00-2AY0
PSU8600 40 A / 4 x 10 A PN	3 x 400 - 500 V AC / 24 V DC	6EP3437-8MB00-2CY0
CNX8600 4x 5 A	Expansion module for PSU8600	6EP4436-8XB00-0CY0
CNX8600 4x 10 A	Expansion module for PSU8600	6EP4437-8XB00-0CY0
CNX8600 8x 2.5 A	Expansion module for PSU8600	6EP4436-8XB00-0DY0
UPS module *	SITOP UPS8600 UPS	6EP4197-8AB00-0XY0
380 Wh Battery module *	SITOP BAT8600 Pb battery	6EP4145-8GB00-0XY0
264 Wh battery module *	SITOP BAT8600 LiFePO4 battery	6EP4143-8JB00-0XY0
Buffer module	SITOP BUF8600 100 ms/40 A	6EP4297-8HB00-0XY0
Buffer module	SITOP BUF8600 300 ms/40 A	6EP4297-8HB10-0XY0
Buffer module	SITOP BUF8600 10s/40 A	6EP4295-8HB00-0XY0
Buffer module	SITOP BUF8600 4s/40 A	6EP4293-8HB00-0XY0

\* Applicable for PSU8600 Basic Unit FW version V1.4 and above. SIOS ID for firmware update: 102295547

# SITOP Power Supplies



Material Type	Order No	
<b>SITOP PSU3800 3 Phase Input</b>		
20 A	3 x 400-500 V AC / 12 V DC	6EP3424-8UB00-0AY0
17 A	3 x 400-500 V AC / 24 V DC	6EP3436-8UB00-0AY0
30 - 40 A (for DC battery charging)	3 x 400-500 V AC / 24 V DC	6EP3437-8UB00-0AY0
<b>SITOP PSU3400 DC/DC Converter</b>		
15 A	24 V DC (18-32) / 12 V DC	6EP3124-0TA00-0AY0
10 A	24 V DC (18-32) / 24 V DC	6EP3134-0TA00-0AY0
2.5A	(18-264 V DC / 88-264 V AC) / 24V DC	6EP3332-0TA00-0AY0
5A	48 V DC (28-60) / 24 V DC	6EP3233-0TA00-0AY0
10 A	48 V DC (32-54) / 24 V DC	6EP3234-0TA00-0AY0
<b>SITOP PSU400M DC/DC Inverter</b>		
20 A	600 V DC / 24 V DC	6EP1536-3AA00
<b>SITOP PSU3600 Flexi (3-52V DC) 1 Phase Input</b>		
2-10 A, 120 W	(120-230 V AC / 110-220 V DC) / 3-52 V DC	6EP3343-0SA00-0AY0
<b>SITOP PSU3600 Dual (2 x 15V DC) 1 Phase Input</b>		
2 x 3.5 A	(120-230 V AC / 110-220 V DC) / 2 x 15 V DC	6EP3323-0SA00-0BY0
<b>SITOP PSU100P IP67 1 Phase Input</b>		
5 A	120-230 V AC / 24 V DC	6EP1333-7CA10
8 A	120-230 V AC / 24 V DC	6EP1334-7CA10
<b>Inrush Current Limiter - LOGO! ICL230</b>		
5 A	100-240 V AC / 100-240 V AC / 5 A	6EP4683-6LB00-0AY0
<b>SITOP PSE201U Buffer Module (for SITOP Smart and Modular)</b>		
BUF1200 Buffer Module	40A - 300ms, 10A - 1200ms	6EP4231-7HB00-0AX0
PSE201U Buffer Module	40A - 200ms, 10A - 800ms	6EP1961-3BA01
<b>SITOP Redundancy Module</b>		
RED1200 12..48 V DC / 20 A	2 Pcs for power supply up to 10 A	6EP4346-7RB00-0AX0
RED1200 12..48 V DC / 40 A	2 Pcs for power supply up to 20 A	6EP4347-7RB00-0AX0
RED1200 12..48 V DC / 80 A	2 Pcs for power supply up to 40 A	6EP4348-7RB00-0AX0*
PSE202U 24 V DC / 10 A	2 Pcs for power supply up to 5 A	6EP1964-2BA00
PSE202U 24 V DC / 40 A	2 Pcs for power supply up to 20 A	6EP1961-3BA21
<b>SITOP Selectivity Protection Module (Short circuit, overload protection)</b>		
SEL1200 4 Output (2-10A Adjustable)	Receives current and status information of 4 separate channels. Provides standard protection	6EP4437-7FB00-3CX0
(SEL1400) (4) (Output) ((2-10A) (Adjustable))	Receives current and status information of 4 separate channels. Provides sensitive protection	6EP4437-7EB00-3CX0
SEL1200 8 Outputs (1-5A Adjustable)	Receives current and status information of 8 separate channels. Provides standard protection	6EP4437-7FB00-3DX0
(SEL1400) (8 Outputs) ((1-5A Adjustable))	Receives current and status information of 8 separate channels. Provides sensitive protection	6EP4437-7EB00-3DX0
SEL1200 8 Output (2-10A Adjustable)	Receives current and status information of 8 separate channels. Provides standard protection	6EP4438-7FB00-3DX0
(SEL1400) (8) (Output) ((2-10A) (Adjustable))	Receives current and status information of 8 separate channels. Provides sensitive protection	6EP4438-7EB00-3DX0
PSE200U 4 Outputs (0.5-3 A Adjustable)	General fault detection with common output signal	6EP1961-2BA11
PSE200U 4 Output (0.5-3 A Adjustable) NEC Class2	General fault detection with common output signal	6EP1961-2BA51
PSE200U 4 Output (3-10 A Adjustable)	General fault detection with common output signal	6EP1961-2BA21
PSE200U 4 Outputs (0.5-3 A Adjustable)	Separate fault detection for each channel with a single output signal	6EP1961-2BA31
PSE200U 4 Output (0.5-3 A Adjustable) NEC Class2	Separate fault detection for each channel with a single output signal	6EP1961-2BA61
PSE200U 4 Output (3-10 A Adjustable)	Separate fault detection for each channel with a single output signal	6EP1961-2BA41
PSE200U 4 Output (2-10 A Adjustable)	Single signal with normally open contact	6EP1961-2BA00



SITOP PSU3800



SITOP PSU3400



SITOP DC Product Family



LOGO! ICL230



SITOP Redundancy Module



SITOP PSE200U Select



Configure Now

# SITOP Power Supplies



SITOP UPS500S&UPS500P



SITOP DC UPS1600



SITOP BAT1600



SITOP DC UPS1100



SITOP DC UPS Module and Battery Module

Material Type	Order No
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### SITOP UPS500S Series DC UPS Modules (Capacitor, Maintenance Free)

2.5kWs, UPS500S	24 V DC / 15 A	6EP1933-2EC41
5kWs, UPS500S	24 V DC / 15 A	6EP1933-2EC51
5kWs, UPS501S Additional Capacitor Module	24 V DC / 15 A	6EP1935-5PG01

### SITOP DC UPS1600 (used with battery)

24 V DC / 10 A		6EP4134-3AB00-0AY0
24 V DC / 10 A	USB port	6EP4134-3AB00-1AY0
24 V DC / 10 A	2 Ethernet/PROFINET ports (OPC UA)	6EP4134-3AB00-2AY0
24 V DC / 20 A		6EP4136-3AB00-0AY0
24 V DC / 20 A	USB Port	6EP4136-3AB00-1AY0
24 V DC / 20 A	2 Ethernet/PROFINET ports (OPC UA)	6EP4136-3AB00-2AY0
24 V DC / 40 A		6EP4137-3AB00-0AY0
24 V DC / 40 A	USB port	6EP4137-3AB00-1AY0
24 V DC / 40 A	2 Ethernet/Profinet ports (OPC UA)	6EP4137-3AB00-2AY0

### SITOP DC UPS BAT1600 Battery Modules (Maintenance-free gel battery for UPS1600)

BAT1600 2.5 Ah LiFePO		6EP4132-0JA00-0AY0
BAT1600 7.5 Ah LiFePO		6EP4134-0JA00-0AY0
BAT1600 3.2 Ah Pb		6EP4133-0GA00-0AY0
BAT1600 12 Ah Pb		6EP4135-0GE00-0AY0
BAT1600 38 Ah Pb		6EP4137-0GE00-0AY0

### SITOP DC UPS1100 Battery Modules (maintenance-free gel battery for UPS1600)

2.5 Ah	Extended temperature range	6EP4132-0GB00-0AY0
7 Ah		6EP4134-0GB00-0AY0

### SITOP DC UPS (used with battery)

24 V DC / 6 A		6EP1931-2DC21
24 V DC / 6 A Serial port		6EP1931-2DC31
24 V DC / 6 A USB port		6EP1931-2DC42
24 V DC / 15 A		6EP1931-2EC21
24 V DC / 15 A Serial port		6EP1931-2EC31
24 V DC / 15 A USB port		6EP1931-2EC42
24 V DC / 40 A		6EP1931-2FC21
24 V DC / 40 A USB port		6EP1931-2FC42

### SITOP DC UPS Battery Modules (Maintenance-free Lead Acid)

1.2 Ah		6EP1935-6MC01
2.5 Ah**		6EP1935-6MD31
3.2 Ah		6EP1935-6MD11
7 Ah		6EP1935-6ME21
12 Ah		6EP1935-6MF01

\*\* Operating ambient temperature is between -40 and +60 °C.

### SITOP PSU4200 1 Phase Input

3 A	120/230 V AC / 24 V DC	6EP3332-3SB00-0AX0
5 A	120/230 V AC / 24 V DC	6EP3333-3SB00-0AX0
10 A	120/230 V AC / 24 V DC	6EP3334-3SB00-0AX0
20 A	120/230 V AC / 24 V DC	6EP3336-3SB00-0AX0

### SITOP PSU4200 3 Phase Input

10 A	3 x 400 - 500 V AC / 24 V DC	6EP3434-3SB00-0AX0
20 A	3 x 400 - 500 V AC / 24 V DC	6EP3436-3SB00-0AX0

New



SITOP PSU4200

LOGO!  
For  
application  
examples:



## PROGRAMMED LOGO! SOFT COMFORT

# Open the doors of IoT world with LOGO!

- Free HTML web page design program LWE allows you to control your website from your mobile phone, tablet and PC
- Ability to send the web page to the cloud and access it from anywhere
- Ethernet port on all LOGO!8 modules (S7 Connection and Modbus TCP)

### What's new with LOGO!8.4:

- Sending an email
- Data transfer directly to the cloud (Amazon Web Service, Microsoft Azur and Alibaba)
- Open MQTT Communication
- Downloading datalog files in RUN mode
- More data memory (VX memory 2 KB, VR memory 512 bytes)
- Improved performance when accessing LWE




# LOGO! 8.4



Material Type	Order No
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## LOGO! 8 Basic Logic Modules

"Basic units have an integrated ethernet port. In version 8.3 and 8.4, cloud connection can be made without the need for additional modules. In addition to communicating with S7 protocol, it supports Modbus TCP protocol since FS:04 version. In versions with display, it supports 6 lines 16 characters and has 3 different color backlighting (Orange, Red, White) that can be changed to show information such as Alarm, Warning. Models supporting 24V have 4 5kHz fast inputs. It can expand up to 24DI 20DO 8AI 8AO modules in total.

Up to 8 LOGO!8 devices can be connected to each other. Integrated webserver . Thanks to LOGO! Web Editor, web page design can be done without HTML knowledge. Standard MicroSD card can be used for log and program transfer. NTP Master/Slave feature and the ability to keep records on PC via PC Access Tool are available. For products that require special conditions, you can get information about SIPLUS products from our partners."

### DC Supply

LOGO! 24CE	24V/24V/24V/24V+ Hours	8DI / 4DO	6ED1052-1CC08-0BA2
LOGO! 12/24 RCE	12-24V/12-24V/12-24V/ Relay+ Clock	8DI/4DO	6ED1052-1MD08-0BA2
LOGO! 24CEo	24V/24V/24V/24V+ Hours	8DI/4DO	6ED1052-2CC08-0BA2
LOGO! 12/24 RCEo	12-24V/12-24V/12-24V/ Relay+ Hours	8DI/4DO	6ED1052-2MD08-0BA2

Digital inputs I1, I2, I7 and I8 can also be used as 0-10V analog inputs on all DC powered models.

### AC Supply

LOGO! 230 RCE	230V/230V/ Relay+ Hours	8DI/4DO	6ED1052-1FB08-0BA2
LOGO! 230 RCEo	230V/230V/ Relay+ Hours	8DI/4DO	6ED1052-2FB08-0BA2

### AC/DC Supply

LOGO! 24 RCE	24V/24V/ Relay+ Hours	8DI/4DO	6ED1052-1HB08-0BA2
LOGO! 24 RCEo	24V/24V/ Relay+ Hours	8DI/4DO	6ED1052-2HB08-0BA2



LOGO! 12/24 RCE



LOGO! AM2 AQ

## LOGO! Digital Input/Output Modules

### DC Supply

LOGO! DM8 24	24V/24V/24V/24V	4DI / 4DO	6ED1055-1CB00-0BA2
LOGO! DM8 12/24 R	12-24V/12-24V/ Relay	4DI / 4DO	6ED1055-1MB00-0BA2
LOGO! DM16 24	24V/24V/24V/24V	8DI / 8DO	6ED1055-1CB10-0BA2
LOGO! DM16 24 R	24V/24V/ Relay	8DI / 8DO	6ED1055-1NB10-0BA2

### AC Supply

LOGO! DM8 230 R	230V/230V/ Relay	4DI / 4DO	6ED1055-1FB00-0BA2
LOGO! DM16 230 R	230V/230V/ Relay	8DI / 8DO	6ED1055-1FB10-0BA2

### AC/DC Supply

LOGO! DM8 24 R	24V/24V/ Relay	4DI / 4DO	6ED1055-1HB00-0BA2
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LOGO! KNX module

## LOGO! Analog Input/Output Modules

LOGO! AM2 AI	0 ... 10 V, 0 ... 20 mA 10-Bit	2AI	6ED1055-1MA00-0BA2
LOGO! AM2 PT 100	PT 100 and/or PT 1000	2AI	6ED1055-1MD00-0BA2
LOGO! AM2 AO	0...10 V or 0/4...20 mA, 10-Bit	2AO	6ED1055-1MM00-0BA2

## LOGO! KNX Module

LOGO! CMK2000	Instabus (EIB)	6BK1700-0BA20-0AA0
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## LOGO! Text Operator Panel

LOGO! TDE	6 lines text display	6ED1055-4MH08-0BA1
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LOGO! TDE Text Operator Panel

# LOGO! 8.4

Material Type	Order No	
<b>LOGO! Accessories</b>		
LOGO! CIM	4 port switch, Modbus RTU Gateway and Internet Access Module	6ED1055-5MC08-0BA2
LOGO! CSM 12/24	4-port (RJ45) compact switch, 12/24 V DC	6GK7177-1MA20-0AA0
ANT794-4MR	Antenna for GSM/GPRS/LTE modem	6NH9860-1AA00
ANT895-6ML	GPS antenna (0.3m cable and connector included)	6GK5895-6ML00-0AA0
LOGO! ICL230	Inrush current limiter	6EP4683-6LB00-0AY0
GPS antenna cable	2m	6XV1875-5LH20
Connector for connecting GPS antenna and antenna cable		6GK5798-2PP00-2AA6
LOGO! Soft Comfort V8.x (Ladder+FBD)		6ED1058-0BA08-0YA1

##For products that are required to operate in harsh conditions, you can get information about SIPLUS products from our solution partners.(Page 213)

Relay  
C Real time clock o No  
display, no keys

## \* LOGO! Starter Pack

**Contents;**

Ethernet cable for LOGO! PC Programming, LOGO! Soft Comfort V8.x, user manual, application examples and LOGO!

LOGO! starter kit LOGO!230RCE V8.4+ LOGO! Soft Comfort	6ED1057-4BA03-0AA0
LOGO! starter kit LOGO!230RCE V8.4+ LOGO! Soft Comfort+LOGO! Power 1.3A	6ED1057-4BA01-0AA0

## \* LOGO! TDE Starter Pack

**Contents;**

Ethernet cable for LOGO! PC programming, LOGO! Soft Comfort V8.x, User manual, Application examples LOGO! TD+ LOGO!12/24RCE V8.4+ LOGO! Power 1.3 A

LOGO! TD starter kit	6ED1057-4BA11-0AA0
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Configure Now



LOGO! CSM Compact Switch



LOGO! Soft Comfort Software



LOGO! CIM module



LOGO! Starter Pack

New S7-1200  
Discover G2  
now.



PROJECTED WITH TIA PORTAL V20

# Enhanced Performance, Scalability with the new S7-1200 G2, Precise Motion Control

New Generation Basic Controller SIMATIC S7-1200 G2



# SIMATIC S7-1200 G2

## Highlights of the S7-1200 G2

SIMATIC S7-1200 G2 sets new standards for simple yet high-precision automation controllers. The new controller family offers efficient position control for complex motion control requirements with improved performance and scalability within the SIMATIC controller portfolio. It provides more flexible machine safety solutions and increased data transparency, making it a smart choice for all Basic Automation solutions.



### Enhanced Performance and Scalability

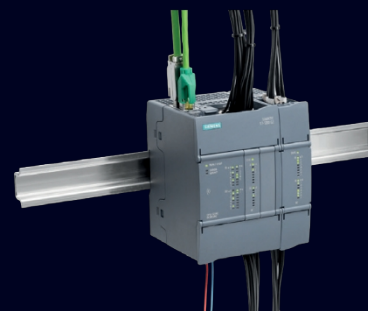
- ◆ Increased processing power, high communication performance and more memory space  
Support for up to 31 PROFINET devices and
- ◆ PROFINET IRT synchronized program with execution scalability between SIMATIC controllers
- ◆ Optimized scalable hardware portfolio and seamless scalability between SIMATIC controllers
- ◆ Profiling  
Analysis and optimization of PLC uptime with SIMATIC Profiling

- ◆ Integrated safety solutions in the product range (PROFIsafe communication, I/O units)
- ◆ Enhanced F- with F-SB and mixed I/O modules IO portfolio
- ◆ STPE 7 Basic with FREE Integratey Safety Basic project design (no extra license needed)



### Increased Data Transparency

- ◆ Near Field Communication (NFC) for wireless access to identification, operation and device data
- ◆ Web API as interface for reading and writing CPU data



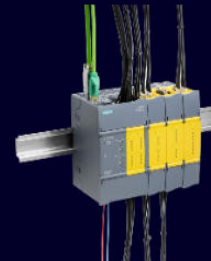
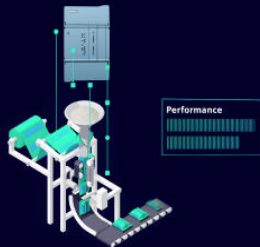
### Effective Motion Control

- ◆ Single axis, coordinated axis and simple kinematic control
- ◆ Integrated motion control technology objects that simplify configuration



# SIMATIC S7-1200 G2

## Highlights of the S7-1200 G2

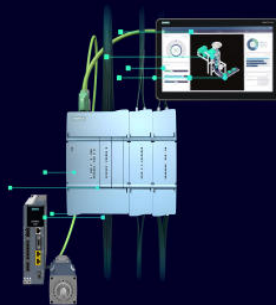


### Enhanced Performance and Scalability

SIMATIC S7-1200 G2 offers powerful processing capabilities, dedicated communication performance, and expanded memory, ensuring faster data processing and more multitasking. This leads to higher productivity and the ability to handle complex motion requirements seamlessly. Thanks to standardized engineering with TIA Portal, you can scale your automation systems as required.

### Flexible Machine Safety

SIMATIC S7-1200 G2 provides cost-effective and scalable fail-safe solutions, ensuring safe machine operations. The optimized fail-safe portfolio allows you to meet legal safety requirements without compromising on productivity.

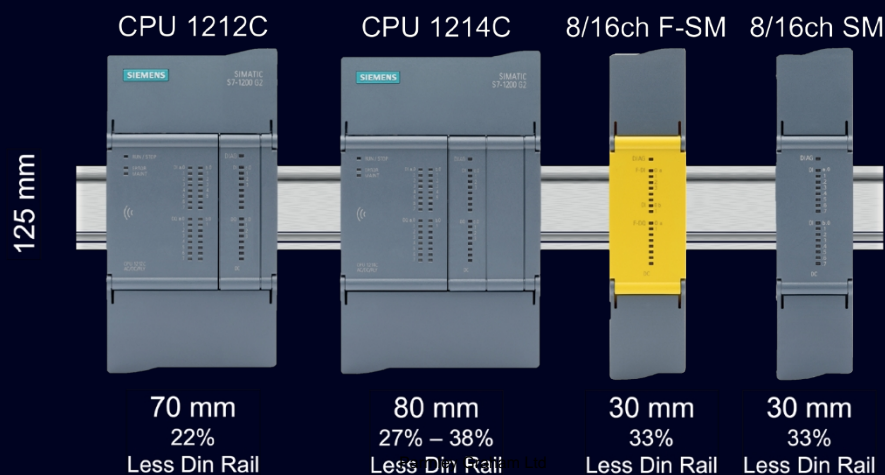


### Efficient Motion Control

With efficient motion control functions, SIMATIC S7-1200 G2 enables precise and reliable automation processes, making it ideal for controlling single axes, coordinated axes, and simple kinematics. This versatility enhances the overall functionality and efficiency of your automation systems.

### Increased Data Transparency

With features like wireless access to diagnostic and device data via Near Field Communication (NFC), SIMATIC S7-1200 G2 facilitates better monitoring, analysis, and decision-making. This transparency helps in optimizing operations and reducing downtime.








# SIMATIC S7-1200 G2








## Migration from S7-1200 G1



### SIMATIC S7-1200 to SIMATIC S7-1200 G2: CPU 1212

CPU Tipi	CPU 1211C	CPU 1212C	CPU 1212FC	CPU 1212FC	CPU 1212FC
Arayüzler					
Program hafızası/ Veri hafızası	75kB	100kB	150kB	150/500kB	200/500kB
Bit performansı (ns)	85	85	85	40	40
Entegre DI/DO	6/4	8/6	8/6	8/6	8/6
Entegre AI/AO	2/-	2/-	2/-	Opsiyonel SB	Opsiyonel SB
HSC	6	6	6	8	8
Genişlik (mm)	90	90	90	70	70

### SIMATIC S7-1200 to SIMATIC S7-1200 G2: CPU 1214

CPU Tipi	CPU 1214C	CPU 1214C	CPU 1215C	CPU 1215C	CPU 1217C	CPU 1214FC	CPU 1214FC
Arayüzler							
Program hafızası/ Veri hafızası	150kB	200kB	200kB	250kB	250kB	250/750kB	300/750kB
Bit performansı (ns)	85	85	85	85	85	40	40
Entegre DI/DO	14/10	14/10	14/10	14/10	14/10	14/10	14/10
Entegre AI/AO	2/-	2/-	2/2	2/2	2/2	Opsiyonel SB	Opsiyonel SB
HSC	6	6	6	6	6	8	8
Genişlik (mm)	110	110	130	130	150	80	80

# SIMATIC S7-1200 G2



Configure Now

New



CPU 1214C G2



Signal Module



Signal Card



Power Supply

Material Type	Order No
---------------	----------

## SIMATIC S7-1200 CPU G2

### General technical specifications of CPUs

There are 2 PROFINET ports (switch and MRP enabled) on each CPU.

Memory areas are 150 + 500 Kbyte and 250 + 750 Kbyte.

Non-volatile memory space is 20Kbytes.

Bit processing time is 40 ns.

Each CPU 8 HSC (fast counter) inputs.

The number of 4 PTO / PWM (Fast output) in CPUs can be increased to 8 with signal cards.

The operating ambient temperature of CPUs is between -20°C and +60°C.

You can contact our solution partners detailed information about SIPLUS products resistant to harsh environmental conditions.

Model	Power Supply	Memory	DI/DO	Order No
CPU 1212C	DC/DC/DC/DC	150+ 500 KB (Prog+ Data)	8 DI / 6 DO	6ES7212-1AG50-0XB0
CPU 1212C	DC/DC/Relay	150+ 500 KB (Prog+ Data)	8 DI / 6 DO	6ES7212-1BG50-0XB0
CPU 1212C	AC / DC / Relay	150+ 500 KB (Prog+ Data)	8 DI / 6 DO	6ES7212-1HG50-0XB0
CPU 1214C	DC/DC/DC/DC	250+ 750 KB (Prog+ Data)	14 DI / 10 DO	6ES7214-1AH50-0XB0
CPU 1214C	DC/DC/Relay	250+ 750 KB (Prog+ Data)	14 DI / 10 DO	6ES7214-1BH50-0XB0
CPU 1214C	AC / DC / Relay	250+ 750 KB (Prog+ Data)	14 DI / 10 DO	6ES7214-1HH50-0XB0

\*\*All inputs on S7-1200 G1 are not available on S7-1200 G2, please attention when selecting.

## SIMATIC S7-1200 G2 Digital Input - Output Signal Modules

Model	Power Supply	DI/DO	Order No
SM 1221	24 V DC	16DI	6ES7221-1BH50-0XB0
SM 1222	24 V DC, 0.5 A	16DO	6ES7222-5BH50-0XB0
SM 1222	Relay, 2 A	16DO	6ES7222-5HH50-0XB0
SM 1222	24 V DC / 24 V DC, 0.5 A	8DI / 8DO	6ES7223-5BH50-0XB0
SM 1222	24 V DC / Relay 2 A	8DI / 8DO	6ES7223-5PH50-0XB0

## SIMATIC S7-1200 G2 Digital Input - Output Signal Boards

Model	Power Supply	DI/DO	Order No
SM 1221	24 V DC, 100 kHz	8DI	6ES7221-3BF50-0XB0
SM 1222	24 V DC, 100 kHz	8DO	6ES7222-5BF50-0XB0
SM 1223	24 V DC, 100 kHz	4 DI / 4 DO	6ES7223-7BF50-0XB0
SM 1223	5 V DC, 200 kHz	4 DI / 4 DO	6ES7223-7AF50-0XB0

## SIMATIC S7-1200 G2 Analog Input - Output Signal Modules

Model	Power Supply	AI/AO	Order No
SM 1231	±10V, ±5V, ±2.5V, or 0-20 mA/4-20 mA (14 bit ADC)	8AI	6ES7231-4HF50-0XB0
SM 1232	±10V, 0-20mA or 4-20mA (14-bit DAC)	8AO	6ES7232-4HF50-0XB0
SM 1233	±10V, ±5V, ±2.5V, or 0-20 mA/4-20 mA (14-bit ADC) ±10V, 0-20mA, or 4-20mA (14-bit DAC)	4 AI / 4 AO	6ES7233-4HF50-0XB0
SM 1231	RTD (Pt, Cu, Ni, Resistance)	4AI	to be published later
SM 1231	TC (TC or voltage: ±80 mV)	8AI	to be published later

## SIMATIC S7-1200 G2 Analog Input - Output Signal Boards

Model	Power Supply	AI/AO	Order No
SM 1231	±10V, ±5V, ±2.5V, or 0-20 mA/4-20 mA (14 bit ADC)	4AI	6ES7231-4HD50-0XB0
SM 1232	±10V, 0-20mA or 4-20mA (14-bit DAC)	4AO	6ES7232-4HD50-0XB0
SM 1233	±10V, ±5V, ±2.5V, or 0-20 mA/4-20 mA (14-bit ADC) ±10V, 0-20mA, or 4-20mA (14-bit DAC)	2 AI / 2 AO	6ES7233-4HD50-0XB0
SM 1231	RTD (Pt, Cu, Ni, Resistance)	4 AI	6ES7231-5PD50-0XB0
SM 1231	TC (TC or voltage: ±80 mV)	4 AI	will be published later

\*\*TC Temperature module for S7-1200 G2 will be available with future updates.

## SIMATIC S7-1200 Communication Modules

Model	Protocol	Order No
CM 1241	RS 422 / RS 485 / RS 232	6ES7241-1EA50-0XB0
CB 1241	RS 485	6ES7241-1CA50-0XB0
PN/CAN Link	CAN/CANopen from Profinet	6BK1620-0AA00-0AA0
PN/BACnet Link	Profinet to BACnet/IP Fieldbus	6BK1621-0AA00-0AA0
PN/M-Bus LINK	M-bus LINK from Profinet	6BK1622-0AA00-0AA0

# SIMATIC S7-1200F G2 Failsafe CPU



Material Type	Order No	Unit Price Euro/Unit
<b>SIMATIC S7-1200 FC CPU G2</b>		

New

The general technical specifications of the CPUs are the same as the standard S7-1200 CPUs. The operating ambient temperature of the CPUs is between 0°C and +55°C.  
**Integrated inputs and outputs on Failsafe CPUs are not Failsafe. The S7-1200F digital input and output modules listed below should be used in Failsafe applications.**  
 Available up to safety level PL E (ISO 13849-1). Available up to safety level SIL3 (IEC 61508).



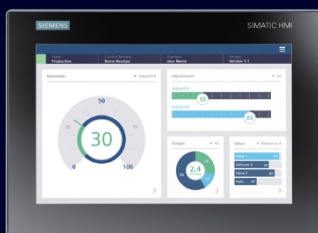
CPU 1212 FC	DC/DC/DC/DC	200+ 500 KB (Prog+ Data)	8 DI / 6 DO	6ES7212-1AF50-0XB0	
CPU 1212 FC	DC / DC / RLY	200+ 500 KB (Prog+ Data)	8 DI / 6 DO	6ES7212-1HF50-0XB0	
CPU 1214 FC	DC/DC/DC/DC	300+ 750 KB (Prog+ Data)	14 DI / 10 DO	6ES7214-1AF50-0XB0	
CPU 1214 FC	DC / DC / RLY	300+ 750 KB (Prog+ Data)	14 DI / 10 DO	6ES7214-1HF50-0XB0	

\*\*Failsafe Signal modules and cards for S7-1200 G2 will be available with future updates



**New Era in Motion Control**  
 Compact, Powerful and Affordable Solutions!

**SIMATIC S7-1200 G2 PLC**  
**+ SIMATIC Unified Basic Panel**  
**+ SINAMICS S200 Servo Drive**





PROJECTED TIA PORTAL

# Automation Works Appropriate and Flexible Solutions

Basic Controller SIMATIC S7-1200



# SIMATIC S7-1200

## Modular, Powerful, Easy to use.



### Communication Modules

A maximum of three communication modules can be installed in any SIMATIC S7-1200 CPU. RS485 and RS232 communication modules support point-to-point serial communication. Communication can be configured and programmed with advanced functions. In addition, it is possible to communicate with Siemens drives with the USS protocol in the library of STEP7 Basic project design software and with third party devices with Modbus RTU master or slave protocol.

### Simple Telecontrol Applications

Thanks to the new communication module CP 1242-7, distributed SIMATIC S7-1200 PLC systems can be monitored and controlled from a single point via internet and mobile phone networks.

### Integrated PROFINET Interface

SIMATIC S7-1200's integrated PROFINET interface is used for programming, HMI communication and PLC-PLC communication.

It is also possible to communicate with Siemens external devices thanks to the open Ethernet protocol. Communication interface with RJ45 connector TCP/IP native, ISO on



Supports 15 Ethernet connections at 10/100 Mbit/s communication speed over TCP, OPC UA and S7 communication protocols with automatic cross-over support.

Thanks to the PROFINET IO controller feature, PROFINET devices can be connected to the S7-1200. For example, a distributed system can be established by connecting ET200 remote IOs, as well as SINAMICS series PROFINET port servo or asynchronous motor drives.

### Integrated Technology Fast inputs

SIMATIC S7-1200 has 6 fast counters on board. The 6 inputs can be used for counting and frequency measurement at 80kHz as A/B channel and 100kHz as single channel.

### Fast outputs

The four integrated fast outputs can be used for pulse train (PTO) or pulse width modulation (PWM) up to 100 kHz. When configured as PTO, it is possible to control the speed and position of servo or stepper motors. When configured as PWM, it is possible to control motor speed, valve position or heater circuit.

### PID control

There are 16 PID control loops with auto-tune for simple process control applications.



### PROFIBUS Support

16 to SIMATIC S7-1200 with PROFIBUS Master communication module CM1243-5 up to one DP slave can be connected. Thanks to the PROFIBUS DP Slave communication module CM 1242-5, SIMATIC The S7-1200 can communicate with DP Master as a DP Slave.

### Memory

Up to 250 KB of integrated work memory space is available for storing both the user program and user data. A memory space of 250 Kb is flexibly shared for the user program and user data. There is also an integrated 4 MB load memory and 14 Kb non-volatile memory space.

With the optional SIMATIC Memory card it is possible to transfer the program to multiple CPUs, store various types of files or update the controller firmware.

### Scalable and Flexible Design Expansion Cards

The 1 I/O expansion board, which can be installed on top of all CPUs, allows you to increase the number of digital or analog I/Os in your system without changing the panel mounting dimensions of the control system.



### Expansion modules

Up to 8 digital or analog I/O expansion modules can be connected to the largest CPU, the CPU1217C.

# SIMATIC S7-1200



CPU 1214C



Profinet Port



SM 1223



CM 1241



PN/BACnet Link



PN/CAN Link

Material Type	Order No
---------------	----------

## SIMATIC S7-1200 CPU

### General technical specifications of CPUs

There is 1 PROFINET port on each CPU and 2 PROFINET ports (switch and MRP enabled) on CPU1215C and CPU1217C. Non-volatile memory space is 14 Kbyte.

Bit processing time is 85 ns.

With Firmware V4.6 the available memory space has been increased (min. V18)

Each CPU 6 HSC (fast counter) inputs and 4 PTO outputs.

RT license and minimum STEP7 Basic V16 are required use OPC UA Server.

Operating ambient temperature of CPUs is between -20°C and +60°C. See spare parts section in the manual for push-in terminals.

**For products that require working under special conditions, you can get information about SIPLUS products from dealerships.**

CPU 1211C	DC/DC/DC/DC	75 KB (Prog+ Data)	6DI/4DO, 2AI	6ES7211-1AE40-0XB0
CPU 1211C	DC/DC/Relay	75 KB (Prog+ Data)	6DI/4DO, 2AI	6ES7211-1HE40-0XB0
CPU 1211C	AC / DC / Relay	75 KB (Prog+ Data)	6DI/4DO, 2AI	6ES7211-1BE40-0XB0
CPU 1212C	DC/DC/DC/DC	100 KB (Prog + Data)	8DI/6DO, 2AI	6ES7212-1AE40-0XB0
CPU 1212C	DC/DC/Relay	100 KB (Prog + Data)	8DI/6DO, 2AI	6ES7212-1HE40-0XB0
CPU 1212C	AC / DC / Relay	100 KB (Prog + Data)	8DI/6DO, 2AI	6ES7212-1BE40-0XB0
CPU 1214C	DC/DC/DC/DC	150 KB (Prog + Data)	14DI / 10DO, 2AI	6ES7214-1AG40-0XB0
CPU 1214C	DC/DC/Relay	150 KB (Prog + Data)	14DI / 10DO, 2AI	6ES7214-1HG40-0XB0
CPU 1214C	AC / DC / Relay	150 KB (Prog + Data)	14DI / 10DO, 2AI	6ES7214-1BG40-0XB0
CPU 1215C	DC/DC/DC/DC	200 KB (Prog + Data)	14DI/10DO, 2AI/2AO	6ES7215-1AG40-0XB0
CPU 1215C	DC/DC/Relay	200 KB (Prog + Data)	14DI/10DO, 2AI/2AO	6ES7215-1HG40-0XB0
CPU 1215C	AC / DC / Relay	200 KB (Prog + Data)	14DI/10DO, 2AI/2AO	6ES7215-1BG40-0XB0
CPU 1217C	DC/DC/DC/DC	250 KB (Prog + Data)	10DI / 6DO, 2AI / 2AO*	6ES7217-1AG40-0XB0

\* There are 4 differential inputs/outputs on CPU 1217C. These outputs cannot be used as transistor outputs.

All CPU models 2 AI 0-10V DC 10 Bit on the device. CPU1215C and CPU1217C have 2 AO 0-20mA 10 Bit. SIOS ID for push-in terminal codes: 109780632

## SIMATIC S7-1200 Digital Input Modules

SM 1221	24 V DC	8DI	6ES7221-1BF32-0XB0
SM 1221	24 V DC	16DI	6ES7221-1BH32-0XB0

## SIMATIC S7-1200 Digital Output Modules

SM 1222	24 V DC, 0.5 A	8DO	6ES7222-1BF32-0XB0
SM 1222	Relay, 2 A	8DO	6ES7222-1HF32-0XB0
SM 1222	Relay, 2 A, Changeover Contact	8DO	6ES7222-1XF32-0XB0
SM 1222	24 V DC, 0.5 A	16DO	6ES7222-1BH32-0XB0
SM 1222	Relay, 2 A	16DO	6ES7222-1HH32-0XB0
SM 1222	24 V DC, 0.5 A Sink Output	16DO	6ES7222-1BH32-1XB0

## SIMATIC S7-1200 Digital Input/Output Modules

SM 1223	24 V DC / 24 V DC, 0.5 A	8DI / 8DO	6ES7223-1BH32-0XB0
SM 1223	24 V DC / Relay, 2 A	8DI / 8DO	6ES7223-1PH32-0XB0
SM 1223	120/230 V AC / Relay, 2 A	8DI / 8DO	6ES7223-1QH32-0XB0
SM 1223	24 V DC / 24 V DC, 0.5 A	16DI/16DO	6ES7223-1BL32-0XB0
SM 1223	24 V DC / Relay, 2 A	16DI/16DO	6ES7223-1PL32-0XB0

## SIMATIC S7-1200 Analog Input/Output Modules

(SM) (1231)	±10 V, 0-20 mA, 12-bit+ signal (13-bit A DC)	4AI	6ES7231-4HD32-0XB0
SM 1231	±10 V, 0-20 mA, 15 Bit+signal	4AI	6ES7231-5ND32-0XB0
SM 1231	±10 V, 0-20 mA, 12 Bit+signal (13 bit A DC)	8AI	6ES7231-4HF32-0XB0
SM 1234	AI ±10 V or 0-20 mA, 12 Bit+signal AO ±10 V 14 Bit or 0-20 mA 13 Bit	4AI / 2AO	6ES7234-4HE32-0XB0
SM 1232	±10 V 14 Bit or 0-20 mA 13 Bit	2AO	6ES7232-4HB32-0XB0
SM 1232	±10 V 14 Bit or 0-20 mA 13 Bit	4AO	6ES7232-4HD32-0XB0
SM 1231	RTD (Pt, Cu, Ni, Resistance), 16-bit	4AI	6ES7231-5PD32-0XB0
SM 1231	RTD (Pt, Cu, Ni, Resistance), 16-bit	8AI	6ES7231-5PF32-0XB0
SM 1231	TC (TC or voltage: ±80 mV), 16 bits	4AI	6ES7231-5QD32-0XB0
SM 1231	TC (TC or voltage: ±80 mV), 16 bits	8AI	6ES7231-5QF32-0XB0

## SIMATIC S7-1200 Communication Modules

CM 1241	RS 232	6ES7241-1AH32-0XB0
CM 1241	RS 422 / RS 485	6ES7241-1CH32-0XB0
CM 1242-5	PROFIBUS Slave (PROFIBUS DPV1)	6GK7242-5DX30-0XE0
CM 1243-5	PROFIBUS Master (PROFIBUS DPV1)	6GK7243-5DX30-0XE0
SM 1278	IO-Link Master Module	6ES7278-4BD32-0XB0
CM 1243-2	AS-Interface Master	3RK7243-2AA30-0XB0
PN/CAN Link	CAN/CANopen from Profinet	6BK1620-0AA00-0AA0
PN/BACnet Link	Profinet to BACnet/IP Fieldbus	6BK1621-0AA00-0AA0
PN/M-Bus LINK	M-bus LINK from Profinet	6BK1622-0AA00-0AA0

##For products that are required to operate in harsh conditions, you can get information about SIPLUS products from our solution partners. (Page 213)

# SIMATIC S7-1200



Material Type	Order No
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## SIMATIC S7-1200 I/O Expansion and Communication Cards

SB 1221	5 V DC, 200 kHz	4DI (NPN input)	6ES7221-3AD30-0XB0
SB 1222	5 V DC, 200 kHz	4DO	6ES7222-1AD30-0XB0
SB 1223	5 V DC / 5 V DC, 200 kHz	2DI / 2DO (NPN input)	6ES7223-3AD30-0XB0
SB 1221	24 V DC / 200 kHz	4DI (NPN input)	6ES7221-3BD30-0XB0
SB 1222	24 V DC / 200 kHz	4DO	6ES7222-1BD30-0XB0
SB 1223	24 V DC / 24 V DC / 200 kHz	2DI / 2DO (NPN input)	6ES7223-3BD30-0XB0
SB 1223	24 V DC / 24 V DC / 0.5 A	2DI / 2DO	6ES7223-0BD30-0XB0
SB 1231	±10 V 12 Bit or 0-20 mA 11 Bit	1AI	6ES7231-4HA30-0XB0
SB 1232	±10 V 12 Bit or 0-20 mA 11 Bit	1AO	6ES7232-4HA30-0XB0
SB 1231	RTD, 16-bit	1AI	6ES7231-5PA30-0XB0
SB 1231	TC (TC or voltage: ±80 mV), 16 bits	1AI	6ES7231-5QA30-0XB0
CB1241	RS 485, Point to Point Communication		6ES7241-1CH30-1XB0



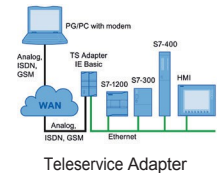
SB 1232

## SIMATIC S7-1200 Energy Metering Module

SM 1238	SM 1238 Energy Meter 480V AC	-	6ES7238-5XA32-0XB0
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## SIMATIC S7-1200 Telecontrol Modules

CP 1243-7 LTE EU modem module	6GK7243-7KX30-0XE0
CP 1243-8 IRC (Industrial Remote Communication)	6GK7243-8RX30-0XE0
ANT794-4MR Antenna for GSM/GPRS modem	6NH9860-1AA00
CP 1243-1 (DNP3, IEC 60870-5-104, TeleControl Basic), security (Firewall, VPN) communication module (used with TCS Prof)	6GK7243-1BX30-0XE0



Teleservice Adapter

## SIMATIC S7-1200 Telecontrol Software - Telecontrol Server Basic TCSB

TCSB 8 V3.1, for OPC Server 8 connection	6NH9910-0AA31-0AA0
TCSB 32 V3.1, OPC Server 32 for connection	6NH9910-0AA31-0AF0
TCSB 64 V3.1, OPC Server 64 for connection	6NH9910-0AA31-0AB0
TCSB 256 V3.1, OPC Server 256 for connection	6NH9910-0AA31-0AC0
TCSB 1000 V3.1, OPC Server 1000 for connection	6NH9910-0AA31-0AD0
TCSB 5000 V3.1, OPC Server 5000 for connection	6NH9910-0AA31-0AE0

## SIMATIC S7-1200 Accessories

SIMATIC Memory Card, 4 MB	6ES7954-8LC03-0AA0
SIMATIC Memory Card, 12 MB	6ES7954-8LE03-0AA0
SIMATIC Memory Card, 24 MB	6ES7954-8LF03-0AA0
SIMATIC Memory Card 256 MB	6ES7954-8LL03-0AA0
SIMATIC Memory Card 2 GB	6ES7954-8LP04-0AA0
SIMATIC Memory Card 32 GB	6ES7954-8LT03-0AA0
BB 1297 Battery Cartridge	6ES7297-0AX30-0XA0
CSM 1277 4-port (RJ45) industrial switch (10/100 Mbit/s)	6GK7277-1AA10-0AA0
Extension cable for I/O expansion modules, 2m (for transition to bottom rail)	6ES7290-6AA30-0XA0



CP1243-7  
LTE modem

## SIMATIC S7-1200 Power Supply

PM 1207 24 V DC, 2.5A Power Supply	6EP1332-1SH71
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SIMATIC S7-1200  
Power Supply

## SIMATIC S7-1200 Software

STEP7 Basic V20 - Boxed	Used for programming S7-1200 CPUs and HMI Basic Panels	6ES7822-0AA23-0YA5
STEP7 Basic V20 - Downloadable	Used for programming S7-1200 CPUs and HMI Basic Panels	6ES7822-0AE23-0YA5
STEP7 Basic V20 UPG - Boxed	Upgrade STEP 7 Basic V11..V19 ->V20	6ES7822-0AA24-0YE5
STEP7 Basic V20 UPG - Downloadable	Upgrade STEP 7 Basic V11..V19 ->V20	6ES7822-0AE24-0YE5
SIMATIC OPC UA S7-1200 Basic DVD	OPC UA Server Runtime license for S7-1200	6ES7823-0BA00-2BA0
SIMATIC OPC UA S7-1200 Basic DL	OPC UA Server Runtime license for S7-1200	6ES7823-0BE00-2BA0

# SIMATIC S7-1200F Failsafe CPU



Configure Now

Material Type	Order No	Unit Price Euro/Unit
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## SIMATIC S7-1200F CPU

The general technical specifications of the CPUs are the same as the standard S7-1200 CPUs. The operating ambient temperature of the CPUs is between 0°C and +55°C.

**Integrated inputs and outputs on Failsafe CPUs are not Failsafe. The S7-1200F digital input and output modules listed below should be used in Failsafe applications.**

Available up to safety level PL E (ISO 13849-1). Available up to safety level SIL3 (IEC 61508).

CPU 1212 FC	DC/DC/DC	150KB (Prog+Data)	8DI/6DO, 2AI	6ES7212-1AF40-0XB0
CPU 1212 FC	DC/DC/Relay	150KB (Prog+Data)	8DI/6DO, 2AI	6ES7212-1HF40-0XB0
CPU 1214 FC	DC/DC/DC	200KB (Prog+Data)	14DI / 10DO, 2AI	6ES7214-1AF40-0XB0
CPU 1214 FC	DC/DC/Relay	200KB (Prog+Data)	14DI / 10DO, 2AI	6ES7214-1HF40-0XB0
CPU 1215 FC	DC/DC/DC	250KB (Prog+Data)	14DI/10DO, 2AI/2AO	6ES7215-1AF40-0XB0
CPU 1215 FC	DC/DC/Relay	250KB (Prog+Data)	14DI/10DO, 2AI/2AO	6ES7215-1HF40-0XB0



S7-1200FC CPU

\*\*In all CPU models, 2 AI 0-10V DC 10 Bit is available on the device. The 2 AO on the CPU1215C is 0-20mA 10 Bit.

## SIMATIC S7-1200F Digital Input Modules

SM 1226	24 V DC	16DI	6ES7226-6BA32-0XB0
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## SIMATIC S7-1200F Digital Output Modules

SM 1226	24 V DC, 2A	4DO	6ES7226-6DA32-0XB0
SM 1226	Relay, 5A	2DO	6ES7226-6RA32-0XB0



SM1226 F-DI

## SIMATIC Safety Basic Software

STEP 7 SAFETY Basic V20	S71200 is used to program F-CPU's.	STEP7 Basic included in the license	free of charge
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\*\*STEP 7 SAFETY Basic is now included in the standard STEP 7 Basic/Professional license, so there is no need to purchase an additional license. However, for previous versions (V13..V19) this license needs to be purchased separately.



CPU 1215FC and TIA Portal

Discover  
Unified  
Panels  
now.



PROJECTED TIA PORTAL V18 UPD3 AND LATER

# Basic Panels New Standard



Part of the SIMATIC WinCC Unified System, the new generation of 4-12-inch Basic panels has numerous improvements over previous devices.

Thanks to their capacitive glass fronts with multi-touch technology, Unified Basic Panels are as comfortable to use as a smartphone or tablet. Sharp colors and contrast enhance readability and ease of use. The visualization on the devices is based on the new SIMATIC WinCC Unified visualization system in the TIA Portal and is suitable for scalable solutions from machine-level applications to distributed SCADA solutions. This offers the user many new opportunities and functionality across all device sizes.

The new Unified Basic Panels include functionality such as Zoom, Scroll, 2-Hand Control thanks to multi-touch technology, as well as important innovations such as Javascript coding, Faceplate usage, Asynchronous Web Client, System Diagnostic Object and Scalable Vector Graphics (SVG) support.

SIMATIC HMI Unified Basic Panels can be designed with TIA Portal V18 Upd 3 or higher. WinCC Unified Basic, STEP7 Basic or STEP7 Professional license is sufficient.



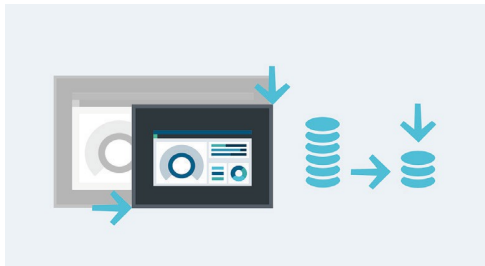
**Unified Basic Panel**

4.3"	7.0"	9" → 10.1"	12.1"
MTP400 Basic	MTP700 Basic	MTP1000 Basic	MTP1200 Basic
			

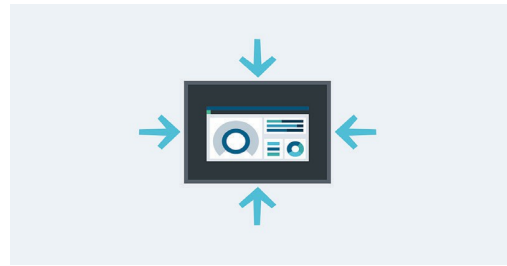
**Basic Panel**

4.3"	7.0"	9"	12"
KTP400 Basic	KTP700 Basic	KTP900 Basic	KTP1200 Basic
			

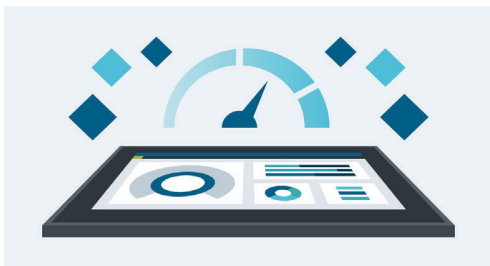
Also includes new features and functions in many areas, including visualization.



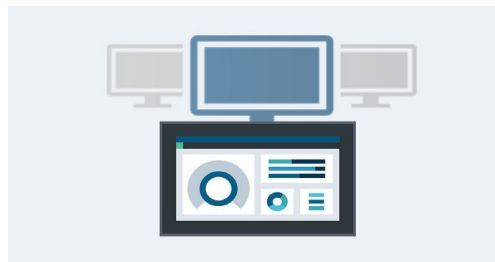
**For price-sensitive applications:**  
Completely new possibilities in the Basic segment thanks to increased performance and integrated functions (e.g. built-in web client)



**For compact applications:**  
Multi-touch capacitive screens from 4" to 12" are available.



**For higher performance:**  
The new hardware offers significantly more performance. System limits have been greatly increased compared to the previous generation, in some cases even . This makes it possible to project much larger applications than in the previous generation.



**Remote access integrated**  
Unified Basic Panel offers a built-in web client. The visualization can be accessed from any smartphone, tablet or PC via any modern web browser at no extra cost and no additional installation required.

# SIMATIC HMI Operator Panels

Material Type	Order No	Unit Price Euro/Unit
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Configure Now

## SIMATIC HMI Unified Basic Panels

### Unified Basic Panel Common Features

High resolution, TFT 16 million color multi-touch display for basic automation applications. Visualization, Communication, Alarm, Trend, Parameter set (recipe), Archiving, User management functions. Modern user interface in innovative design thanks to renewed objects, Faceplate, Javascript Coding, SVG graphics. 1000 tags can be projected. 10 archive, 50 Logging Tag per device. A single Ethernet communication interface is available. USB interface for mouse, keyboard support and archiving to USB stick. Web Client included for remote operator control and monitoring. Based on native web technologies such as HTML5, SVG and JavaScript.

The visualization can be accessed through any modern web browser without additional installation. Can be projected with TIA Portal V18 Upd 3 or higher. WinCC Unified Basic, STEP7 Basic or STEP7 Professional license is sufficient.

MTP400 Unified Basic Panel, 4" PROFINET interface, 800 x 480 resolution	6AV2123-3DB32-0AW0	
MTP700 Unified Basic Panel, 7" PROFINET interface, 800 x 480 resolution	6AV2123-3GB32-0AW0	
MTP1000 Unified Basic Panel, 10" PROFINET interface, 1280 x 800 resolution	6AV2123-3KB32-0AW0	
MTP1200 Unified Basic Panel, 12" PROFINET interface, 1280 x 800 resolution	6AV2123-3MB32-0AW0	

New



Unified Basic Panels

## SIMATIC HMI Basic Panels

KP300 Basic Mono PN, 3.6" PROFINET interface, 240x80 resolution, selectable backlighting (white, green, yellow, red), 10 function keys that can be used as numeric keypad, 250 tags projectable.

KP400 Basic Color PN, 4" PROFINET interface, 480 x 272 resolution, numeric keypad, 500 tags projectable.	6AV6647-0AH11-3AX1	
	6AV6647-0AJ11-3AX1	

### Basic Panel 2nd Generation Common Features

High resolution, TFT 64000 color touchscreen widescreen display with high resolution for basic automation applications. Alarm, trend, prescription functions (improved prescription object). Modern user interface in innovative design thanks to renewed objects, control objects, graphics. 800 tags can be projected. Single communication interface is available. USB interface with mouse, keyboard support and archiving to USB stick. It can be projected from STEP7 Basic V13 or WinCC V13 Basic versions.

KTP400 Basic PN, 4" PROFINET interface, 480 x 272 resolution	6AV2123-2DB03-0AX0	
KTP700 Basic PN, 7" PROFINET interface, 800 x 480 resolution	6AV2123-2GB03-0AX0	
KTP700 Basic DP, 7" PROFIBUS/RS 485 interface, 800 x 480 resolution	6AV2123-2GA03-0AX0	
KTP900 Basic PN, 9" PROFINET interface, 800 x 480 resolution	6AV2123-2JB03-0AX0	
KTP1200 Basic PN, 12" PROFINET interface, 1280 x 800 resolution	6AV2123-2MB03-0AX0	
KTP1200 Basic DP, 12" PROFIBUS/RS 485 interface, 1280 x 800 resolution	6AV2123-2MA03-0AX0	



Basic Panels 2nd Generation

# SIMATIC HMI Comfort Operator Panels

## SIMATIC Comfort Panels

### Comfort Panel Common Features

TFT 16 million color Widescreen LED backlit display, PDF/Excel/Word Viewer, Media Player, Profienergy support 0%-100% screen brightness adjustment, project upload via standard usb (type A - B mini), f(x) control and diagnostic viewer objects, 2 SD card slots (for service and data storage), keyboard, mouse, printer connection via USB, prescription function, permanent alarm buffer, archiving messages and process values, Visual Basic scripts, Internet Explorer, dual profinet ports with switch support and audio input and output on 7" and above panels. For 15" and above panels, additional profinet port with its own IP address can be programmed with WinCC V11 Comfort and above. In Comfort panels, Sm@rt Server feature is provided as standard starting from TIA Portal V14 version.

KTP400 Comfort, 4" touch screen, 480 x 272 resolution	6AV2124-2DC01-0AX0	
KP400 Comfort, 4" screen, push-button, 480 x 272 resolution	6AV2124-1DC01-0AX0	
TP700 Comfort, 7" touch screen, 800 x 480 resolution	6AV2124-0GC01-0AX0	
KP700 Comfort, 7" screen, push-button, 800 x 480 resolution	6AV2124-1GC01-0AX0	
TP900 Comfort, 9" touch screen, 800 x 480 resolution	6AV2124-0JC01-0AX0	
KP900 Comfort, 9" screen, push-button, 800 x 480 resolution	6AV2124-1JC01-0AX0	
TP1200 Comfort, 12" touch screen, 1280 x 800 resolution	6AV2124-0MC01-0AX0	
KP1200 Comfort, 12" screen, push-button, 1280 x 800 resolution	6AV2124-1MC01-0AX0	
TP1500 Comfort, 15" touch screen, 1280 x 800 resolution	6AV2124-0QC02-0AX2	
KP1500 Comfort, 15" screen, push-button, 1280 x 800 resolution	6AV2124-1QC02-0AX2	
TP1900 Comfort, 19" touch screen, 1366 x 768 resolution	6AV2124-0UC02-0AX1	
TP2200 Comfort, 22" touch screen, 1920 x 1080 resolution	6AV2124-0XC02-0AX1	



Comfort Panels

###For products that are required to operate in harsh conditions, you can get information about SIPLUS products from our solution partners.(Page 213)

\*\*15", 19" and 22" inch Comfort Panels (TP, KP) have entered the phase-out process as of October 1, 2024. Please the new generation Unified Comfort Panels for your projects. For detailed information about migration processes, please contact Siemens offices or our Solution Partners.

# SIMATIC HMI Unified Comfort Panels

**7.0"**  
MTP700

**10.1"**  
MTP1000

**12.1"**  
MTP1200

**15.6"**  
MTP1500

**18.5"**  
MTP1900

**21.5"**  
MTP2200



The new generation of high-end 7"-22" screen size WinCC Unified Comfort operator panels are more user-friendly and include new features and functions in many areas, including visualization.



Thanks to the capacitive screen of Unified Comfort Panels, multitouch technology can be used as in smartphones and tablets, providing readability and ease of use thanks to its high contrast and sharp colors. From V18 onwards, the page can be zoomed.



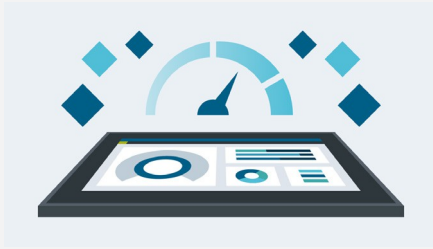
You can connect to the panel via web browser without the need for additional software and perform operations independently from the operator. (VNC feature is available from V16, operator independent control feature will be available from V17).



The SIMATIC WinCC Unified HMI system, launched with TIA Portal V16, can be used for scalable solutions from Unified Comfort panels to SCADA systems at machine level. In this way, you can benefit from new features and use many new functions in all device sizes.



Thanks to the Industrial Edge function, the Unified Comfort Panels allow you to expand with apps simultaneously in addition to their standard functions, and to transmit data directly to the machine. level processing and analysis. In this way, you can quickly and easily solve your project-specific requirements.



New hardware gives you more speed and a secure infrastructure for Edge applications. System limits have doubled for most features and even tripled for some features. Thanks to this, you will be able to realize much more comprehensive and large projects with the Unified Comfort panel.



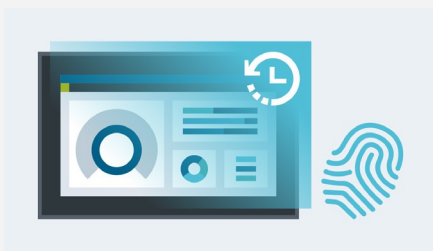
SIMATIC Industrial OS based operating system provides maximum security. You can delete the applications you want, deactivate the communication ports you do not want, which gives you more security.



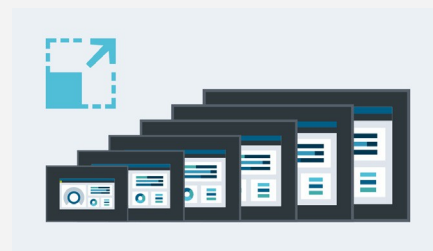
JavaScript languages provide flexibility in programming.



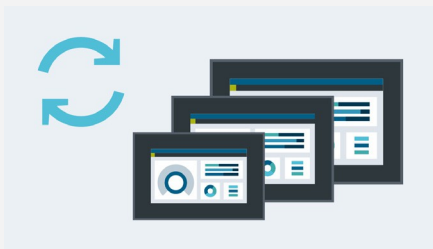
It offers the possibility to design (SVG) different variations of objects in a single object.



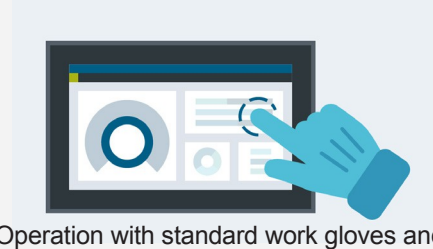
Despite the upgraded hardware and software, the experience gained with the Comfort panel (such as automatic backup and restore) has been transferred to the new panel.



All Unified Comfort panels from 7-21.5" have the same hardware interfaces and functions.



Software and security updates are easily available via the TIA Portal and SIMATIC Automation Tool, so you can use your device for many years to come, keeping it up to date and with maximum security measures in place.



Operation with standard work gloves and at the same time intelligent detection of touch errors (palm to screen such as touching with the inside), helping you to operate safely in harsh working environments.

# SIMATIC HMI Unified Comfort Panels



Configure Now

Material Type	Order No
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## SIMATIC Unified Comfort Panels

\*Multi-touch LED backlit display with 16 million color support; Function expansion with integrated EDGE; 8000 Powertags Support; integrated web technologies (HTML5, SVG and JavaScript); 2 port PROFINET switch, 1 port GBIT Ethernet port, 4xUSB 3.0 port, Data and System SD card slot (for service and data storage); PDF Viewer/Libre Office/Web Browser/Media Player; 5%-100% screen brightness adjustment; keyboard, mouse, printer connection via USB; prescription function; permanent alarm buffer; archiving messages and process values; Local Built-in 1 Client Monitor and 1 Client Operate in addition to Runtime; remote access Sm@rt Server feature. Programmable with WinCC V16 Unified Comfort and above. \* You can review <https://support.industry.siemens.com/cs/ww/en/view/109778780> customer support link about using Industrial Edge Applications in WinCC Unified Comfort panel.

\*\* Get a quick start to projecting WinCC Unified Comfort panels with the WinCC Unified Tutorial (<https://support.industry.siemens.com/cs/ww/en/view/109782433>)

SIMATIC HMI MTP700 Unified Comfort, 7" PROFINET, 800x480 resolution	6AV2128-3GB06-0AX1
SIMATIC HMI MTP1000 Unified Comfort, 10.1" PROFINET, 1280x800 resolution	6AV2128-3KB06-0AX1
SIMATIC HMI MTP1200 Unified Comfort, 12.1" PROFINET, 1280x800 resolution	6AV2128-3MB06-0AX1
SIMATIC HMI MTP1500 Unified Comfort, 15" PROFINET, 1366x768 resolution	6AV2128-3QB06-0AX1
SIMATIC HMI MTP1900 Unified Comfort, 18.5" PROFINET, 1920x1080 resolution	6AV2128-3UB06-0AX1
SIMATIC HMI MTP2200 Unified Comfort, 21.5" PROFINET, 1920x1080 resolution	6AV2128-3XB06-0AX1
SIMATIC HMI MTP700 Unified Comfort Neutral, 7" PROFINET, 800x480 resolution	6AV2128-3GB36-0AX1
SIMATIC HMI MTP1000 Unified Comfort Neutral, 10.1" PROFINET, 1280x800 resolution	6AV2128-3KB36-0AX1
SIMATIC HMI MTP1200 Unified Comfort Neutral, 12.1" PROFINET, 1280x800 resolution	6AV2128-3MB36-0AX1
SIMATIC HMI MTP1500 Unified Comfort Neutral, 15" PROFINET, 1366x768 resolution	6AV2128-3QB36-0AX1
SIMATIC HMI MTP1900 Unified Comfort Neutral, 18.5" PROFINET, 1920x1080 resolution	6AV2128-3UB36-0AX1
SIMATIC HMI MTP2200 Unified Comfort Neutral, 21.5" PROFINET, 1920x1080 resolution	6AV2128-3XB36-0AX1



Unified Comfort Panels



Unified Comfort Panels Neutral

## SIMATIC HMI Unified Comfort Panel

These are the options used in WinCC Unified Comfort Panel.

WinCC Unified Collaboration V20 (3x1)	DVD Download	6AV2154-0BR02-4AB0 6AV2154-0BR02-4LB0
WinCC Unified Report Execution V20	DVD Download	6AV2157-0BQ02-4AB0 6AV2157-0BQ02-4LB0
WinCC Unified Client Operate (1)	DVD Download	6AV2151-1JW00-0AB0 6AV2151-1JW00-0LB0
WinCC Unified Client Monitor (1)	DVD Download	6AV2151-1JM00-0AB0 6AV2151-1JM00-0LB0
WinCC Unified Client Operate (5x1)	DVD Download	6AV2157-5JV00-0AB0 6AV2157-5JV00-0LB0
WinCC Unified SIMATIC ProDiag	DVD Download	6AV2157-0BD02-4AB0 6AV2157-0BD02-4LB0
Edge Runtime for Unified Comfort Panel (Device-managed)	Download	6AV2170-2BA00-0AA0
WinCC Unified Audit Basis V20	DVD Download	6AV2157-0BL02-4AB0 6AV2157-0BL02-4LB0
WinCC Unified Audit Enhanced V20	DVD Download	6AV2157-1BL02-4AB0 6AV2157-1BL02-4LB0
WinCC Unified Audit Powerpack	Download	6AV2157-1BL20-0LB0

## SIMATIC HMI Design Software and

WinCC Unified Basic ES V20 Project design software for Basic panels	DVD Download	6AV2151-0XA02-4AA5 6AV2151-0XA02-4LA5
WinCC Unified Comfort ES V20 Project design software for basic, comfort, mobile and unified panels	DVD Download	6AV2151-0XB02-4AA5 6AV2151-0XB02-4LA5

## SIMATIC Key Panel

SIMATIC KP8 PN Configurable membrane keypad with 8 function keys, multicolor LED backlighting on keys, IP65 protection on front surface, labelable keys, integrated 2 PROFINET ports, 8 configurable digital I/O, programmable with STEP7 5.5	6AV3688-3AY36-0AX0
SIMATIC KP8 F PN Configurable membrane keypad with 8 function keys, multicolor LED backlighting on keys, IP65 protection on front surface, labelable keys, integrated 2 PROFINET ports, 8 configurable digital I/O, programmable with STEP7 5.5. 2 safe inputs via additional PROFIsafe protocol, 1 emergency stop (SIL 3) or 2 emergency stop (SIL 2) connection	6AV3688-3AF37-0AX0
SIMATIC KP32 F PN Configurable membrane keypad with 32 function keys, multicolor LED backlighting on keys, IP65 protection on front surface, labelable keys, integrated 2 PROFINET ports, 16 configurable digital inputs, 16 digital I/O, programmable with STEP7 5.5, 4 safe inputs via additional PROFIsafe protocol, 2 emergency stop (SIL 3) or 4 emergency stop (SIL 2) connections	6AV3688-3EH47-0AX0
Blank panel for PRO devices with complete IP65 protection	6AV3688-3XY38-3AX0
SIMATIC HMI KP8 PN LX 8 function keys, 1-6 mm sheet thickness, 2 PROFINET ports, black neutral design, 8 configurable I/O, programmable with STEP 7 V5.5	6AV2127-1AB00-0LX1



KP8 PN/KP8 F PN



KP32 F PN



KP8 PN LX

# SIMATIC HMI Unified Comfort Panels



Material Type	Order No
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## SIMATIC Unified Comfort PRO Panels

SIMATIC HMI Unified Comfort PRO Panels in 12", 15", 19" and 22" widescreen formats expand the Unified Comfort Panel portfolio to include devices with IP65 protection. Their robust aluminum enclosures allow on-machine use and durability even in harsh/extreme operating environments. They can be programmed from SIMATIC WinCC Unified / Comfort V18.

Suitable for MTP1200 Unified Comfort PRO carrying handle (Expansion module cannot be installed, top flange),	6AV2128-3MB27-0AX0
Suitable for MTP1200 Unified Comfort PRO pedestal (Expansion module attachable, bottom flange)	6AV2128-3MB27-1BX0
Suitable for MTP1200 Unified Comfort PRO carrying handle (Expansion module attachable, round pipe connection)*	6AV2128-3MB27-0BX0
Suitable for MTP1500 Unified Comfort PRO carrying handle (Expansion module cannot be fitted, top flange),	6AV2128-3QB27-0AX0
Suitable for MTP1500 Unified Comfort PRO pedestal (Expansion module attachable, bottom flange)	6AV2128-3QB27-1BX0
Suitable for MTP1500 Unified Comfort PRO carrying handle (Expansion module attachable, round pipe connection)*	6AV2128-3QB27-0BX0
Suitable for MTP1900 Unified Comfort PRO carrying handle (Expansion module cannot be installed, top flange),	6AV2128-3UB27-0AX0
Suitable for MTP1900 Unified Comfort PRO pedestal (Expansion module attachable, bottom flange)	6AV2128-3UB27-1BX0
Suitable for MTP1900 Unified Comfort PRO carrying handle (Expansion module attachable, round pipe connection)*	6AV2128-3UB27-0BX0
Suitable for MTP2200 Unified Comfort PRO carrying handle (Expansion module cannot be installed, top flange),	6AV2128-3XB27-0AX0
Suitable for MTP2200 Unified Comfort PRO pedestal (Expansion module attachable, bottom flange)	6AV2128-3XB27-1BX0
Suitable for MTP2200 Unified Comfort PRO carrying handle (Expansion module attachable, round pipe connection)*	6AV2128-3XB27-0BX0



SIMATIC Unified Comfort PRO



## Accessories for SIMATIC PRO

### Expansion modules and accessories

Expansion module 12" with cable connection	6AV7674-1LA31-0AA0
Expansion module 15" Cable connection	6AV7674-1LA41-0AA0
Expansion module 19" with cable connection	6AV7674-1LA51-0AA0
Expansion module 22" with cable connection	6AV7674-1LA61-0AA0
Expansion module 12" PROFINET	6AV7674-1LA32-0AA0
Expansion module 15" PROFINET	6AV7674-1LA42-0AA0
Expansion module 19" PROFINET	6AV7674-1LA52-0AA0
Expansion module 22" PROFINET	6AV7674-1LA62-0AA0
Expansion module box 12"	6AV7674-1LA30-0AA0
Expansion module box 15"	6AV7674-1LA40-0AA0
Expansion module box 19"	6AV7674-1LA50-0AA0
Expansion module box 22"	6AV7674-1LA60-0AA0
Emergency stop button for expansion module	6AV7674-1MA00-0AA0
Illuminated pushbutton for expansion module (1 NO contact)	6AV7674-1MB00-0AA0
Illuminated pushbutton for expansion module (1 NO+ 1 NC contact)	6AV7674-1MG00-0AA0
Indicator light for expansion module	6AV7674-1MC00-0AA0
Selection switch for expansion module	6AV7674-1MD00-0AA0
Selection switch with key for expansion module	6AV7674-1ME00-0AA0
RFID reader SIMATIC RF1060R	6GT2831-6AA50
USB connection for expansion module	6AV7674-1MF00-0AA0
Post label	6AV7674-1LB30-0AA0
Holder for writing label	6AV7674-1LB20-0AA0



Writing label and holder

### Connection Accessories

Round pipe adapter1)	6AV7674-1KF00-0AA0
VESA 100/75 pipe adapter1) ST37	6AV6881-0AD56-0AA0
VESA 100/75 pipe adapter1) V2A INOX	6AV6881-0AD56-2CA0
VESA 100/75 pipe adapter1) V2A INOX, IP65	6AV6881-0AD56-3CA0
VESA 75 adapter set	6AV7674-0KE00-0AA0
VESA 100 adapter set	6AV7674-0KD00-0AA0
USB interface for Basic adapter	6AV7674-1LX00-0AA0
IP65 stainless steel keyboard for PRO products	6AV6881-0AU14-1DB0
Keyboard shelf for PRO products	6AV7674-1NF01-0AA0
Keyboard shelf plate for PRO products	6AV7674-1NG00-0AA0
Basic adapter for PRO products (Available as spare part.)	6AV7674-1KA00-0AA0
Round pipe cap for PRO products	6AV7674-1LB40-0AA0
Expansion slot adapter for PRO Products (No need to open the slot to remove the expansion slot)	6AV7674-1LB50-0AA0



Expansion Module



Round Pipe Cap

\* Products with 'r' or products from 3rd party manufacturers must be used with these products. We recommend using the TIA Selection Tool for configuration.



Bottom flange



Round pipe connection  
Parmley Graham Ltd



Top flange

# SIMATIC HMI Unified Comfort Panels



MTP700 Unified Comfort hygienic



MTP1200 Unified Comfort hygienic



MTP1200 Unified Comfort hygienic



TP700 Comfort Outdoor Panel



Mobile Panels Generation 2



Junction Box Compact

Material Type	Order No
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## Stainless Steel Faced Panels (in accordance with EN 1672-2 Standards for Food, Tobacco Sector)

MTP700 Unified Comfort Panel hygienic, stainless steel faceplate, same technical specifications as MTP700, touch screen, IP69 protection class	6AV2128-3GB40-0AX0
MTP1000 Unified Comfort Panel hygienic, stainless steel faceplate, same technical specifications as MTP1000, touch screen, IP69 protection class	6AV2128-3KB40-0AX0
MTP1200 Unified Comfort Panel hygienic, stainless steel faceplate, same technical specifications as MTP1200, touch screen, IP69 protection class	6AV2128-3MB40-0AX0
MTP1500 Unified Comfort Panel hygienic, stainless steel faceplate, same technical specifications as MTP1500, touch screen, IP69 protection class	6AV2128-3QB40-0AX0
MTP1900 Unified Comfort Panel hygienic, stainless steel faceplate, same technical specifications as MTP1900, touch screen, IP69 protection class	6AV2128-3UB40-0AX0
MTP2200 Unified Comfort Panel hygienic, stainless steel faceplate, same technical specifications as MTP2200, touch screen, IP69 protection class	6AV2128-3XB40-0AX0

## SIMATIC Outdoor Panels

SIMATIC HMI TP700 Comfort Outdoor Panel, 7" large touch screen, daylight readability, auto-adjusting backlight, UV protected front panel, 16 million color display, operation between -30 and +60 degrees, 90% humidity resistance, PROFINET, MPI / PROFIBUS DP interface, 12 MB application memory	6AV2124-0GC13-0AX0
SIMATIC HMI TP1500 Comfort Outdoor Panel, 15" large touch screen, daylight readability, auto-adjusting backlight, UV protected front panel, 16m. color display, Operation between -30 and +60 degrees, 90% humidity resistance, PROFINET, MPI/PROFIBUS DP interface, 12 MB application memory	6AV2124-0QC13-0AX0

## Mobile Panels - 2nd Generation

16 million color widescreen display, confirmation button in Failsafe version, emergency stop/stop button, use with safety relay or Failsafe PLCs, configurable from WinCC Comfort V13 SP1

KTP700 Mobile Panel, 7" 800x480 resolution	6AV2125-2GB03-0AX0
KTP700F Mobile Panel, 7" 800x480 resolution	6AV2125-2GB23-0AX0
KTP900 Mobile Panel, 9" 800x480 resolution	6AV2125-2JB03-0AX0
KTP900F Mobile Panel, 9" 800x480 resolution	6AV2125-2JB23-0AX0

## Mobile Panel Equipment\* - 2nd Generation

Junction boxes common features; support Profinet and Profisafe, connection to safety relay, port determination function.

Junction box compact, panel mount	6AV2125-2AE03-0AX0
Junction box standard, wall mounting	6AV2125-2AE13-0AX0
Junction box advanced, wall mounting	6AV2125-2AE23-0AX0
Connection cable 2 m KTP Mobile	6AV2181-5AF02-0AX0
Connection cable 5 m KTP Mobile	6AV2181-5AF05-0AX0
Connection cable 8 m KTP Mobile	6AV2181-5AF08-0AX0
Connection cable 10 m KTP Mobile	6AV2181-5AF10-0AX0
Connection cable 15 m KTP Mobile	6AV2181-5AF15-0AX0
Connection cable 20 m KTP Mobile	6AV2181-5AF20-0AX0
Connection cable 25 m KTP Mobile	6AV2181-5AF25-0AX0
Wall Mount kit for KTP Mobile; KPT400F Mobile, KTP700 Mobile, KTP700F Mobile, KTP900 Mobile, KTP900F Mobile	6AV2181-5AG80-0AX0

\*Please call our solution partners for different Mobile Panel equipment and accessories.

# SIMATIC HMI Operator Panels



Material Type	Order No
<b>Operator Panel Accessories</b>	
RS422/RS232 converter, for communication with 3rd party PLCs	6AV6671-8XE00-0AX0
SIMATIC HMI memory card, 2 GB for Comfort panels, for Unified Comfort Panel only used as Data Storage.	6AV2181-8XP00-0AX0
SIMATIC Unified Comfort Panel memory card, 32GB Indoor, available as System Card.	6AV6881-0AP40-0AA0
Touch Pen Aluminum, slim, including connection cable, 5pcs, customized for Mobile Panels.	6AV6645-7AB14-0AS1
Touch Pen Aluminum is available for capacitive and resistive display.	6AV6881-0AV21-0AA0
Touch Pen INOX is available for capacitive and resistive display.	6AV6881-0AV22-0AA0
Touch pen caps, for capacitive (10 pcs suitable for 6AV2181-8AV20-0AX0)	6AV2181-8AV60-0AX0
Touch pen caps, ELO - Aluminum (suitable for 6AV6881-0AV21-0AA0)	6AV6881-0AV61-0AA0
Touch pen caps, V2A (Suitable for 6AV6881-0AV22-0AA0 and 6AV6881-0AV21-0AA0 in food and pharmaceutical industry)	6AV6881-0AV62-1AA0
Touch pen caps, RES (Suitable for 6AV6881-0AV22-0AA0 and 6AV6881-0AV21-0AA0 in food and pharmaceutical industry. Only used on resistive displays).	6AV6881-0AV63-0BA0



Touch Pen ELO



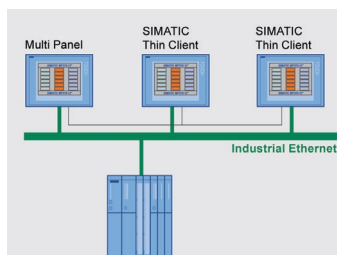
Touch Pen V2A  
Capacitive and Resistive

## SIMATIC Industrial Thin Client V3 and Thin Client PRO Panels

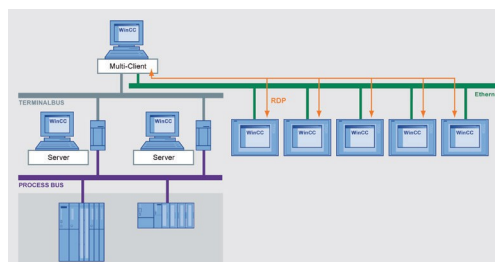
Thin Client V3 and Thin Client PRO	6AV6 6 46 - 1 B X X X X - X X X A	-
Projective Capacitive Multi Touch TFT Panel, mouse, keyboard, USB memory connection via 4 x USB, client connection to Operator Panel and WinCC RT Advance PC with Sm@rtServer, terminal connection to Web Navigator installed on Windows Server via RDP, connection to SAP, MES or office applications via RDP protocol, VNC protocol support, Citrix support, PDF reader application, web browser feature (HTML5, XML, CSS, Javascript support) Runtime / Host PC or operator panel.		
<b>Screen size / resolution</b>		
15" Screen (1344x768 pixels)	X	1 5 0
19" Screen (1344x768 pixels)		1 8 0
22" Screen (1920x1080 pixels)		2 2 1
<b>Mounting type</b>		
Panel mounting	X	A
IP65 all-round IP65 protection, suitable for pedestal		B
IP65 all-round IP65 protection, suitable for carrying handle, expansion module cannot be installed		C
IP65 all-round IP65 protection, suitable for carrying handle, expansion module can be installed		D
<b>Design</b>		
Standard		A



Thin Client V3



Connection from Thin Client to Sm@rtServer Operator Panel



Terminal connection to WinCC Web Navigator via RDP (Using Thin Client panel as Web Client)



# TIA PORTAL HMI Software

SIMATIC TIA portal WinCC V20 supports Windows 11 Pro/Enterprise Version 22H2/23H2 (64-bit), Windows 10 Pro/Enterprise Version 22H2 (64-bit), Windows 10 Enterprise LTSC 2019/2021 (64-bit), Windows Server 2019/2022 Standard (64-bit). WinCC V20 supports virtualization. You can access the detailed compatibility table from the link. <https://support.industry.siemens.com/compatool/#/main/start>

Material Type	Order No
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## SIMATIC HMI Project Software SIMATIC WinCC V20

The engineering licenses WinCC Comfort, WinCC Advance, WinCC Professional and WinCC Unified can be used interchangeably with certain conversions. More information can be found in the table below.

WinCC Basic V20 Project design software for Basic panels	DVD Download	6AV2100-0AA02-4AA5 6AV2100-0AA02-4AH5
WinCC Comfort V20 Project design software for basic panels, comfort panels, mobile panels, panel/multi panels	DVD Download	6AV2101-0AA02-4AA5 6AV2101-0AA02-4AH5
WinCC Advanced V20 Basic panels, comfort panels, mobile panels, panel/multi panels, IPC and standard PC with WinCC RT Advanced (max powertags) project design software, no runtime license, simulation available	DVD Download	6AV2102-0AA02-4AA5 6AV2102-0AA02-4AH5

### SIMATIC WinCC Professional

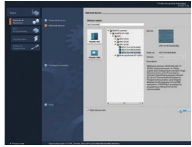
Basic panels, comfort panels, mobile panels, panel/multi panels, WinCC Runtime Advanced (max powertags), project design software for WinCC Runtime Professional, runtime license not included, simulation can be done.

SIMATIC WinCC Professional 512 PowerTags V20	DVD Download	6AV2103-0DA02-4AA5 6AV2103-0DA02-4AH5
SIMATIC WinCC Professional 4096 PowerTags V20	DVD Download	6AV2103-0HA02-4AA5 6AV2103-0HA02-4AH5
SIMATIC WinCC Professional Maks PowerTags V20	DVD Download	6AV2103-0XA02-4AA5 6AV2103-0XA02-4AH5

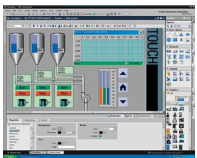
### SIMATIC WinCC Unified

Project software for Unified comfort panels and WinCC Unified Runtime, runtime license is not included.

WinCC Unified Basic ES V20	DVD Download	6AV2151-0XA02-4AA5 6AV2151-0XA02-4LA5
WinCC Unified Comfort ES V20	DVD Download	6AV2151-0XB02-4AA5 6AV2151-0XB02-4LA5
WinCC Unified PC (10k) ES V20	DVD Download	6AV2153-2FB02-4AA5 6AV2153-2FB02-4LA5
WinCC Unified PC (100k) ES V20	DVD Download	6AV2153-2GB02-4AA5 6AV2153-2GB02-4LA5
WinCC Unified PC (max.) ES V20	DVD Download	6AV2153-0XB02-4AA5 6AV2153-0XB02-4LA5



WinCC Step 7 Common Use



WinCC HMI Project Design



WinCC Unified Project Design

WinCC (TIA Portal) V20				WinCC Unified (TIA Portal) V20	
Engineering System valid for (V11..V20)	Comfort Panels	WinCC RT Adv.	WinCC RT Prof.	Unified Comfort Panels	Unified PC Runtime
WinCC Prof. (max)	✓	✓	✓(max.)	✓	✓ (max.)
WinCC Prof. (4k)	✓	✓	✓ (4k)	✓	✓ (100k)
WinCC Prof. (512)	✓	✓	✓ (512)	✓	✓ (10k)
WinCC Advanced	✓	✓	✗	✓	✓ (10k)
WinCC Comfort	✓	✗	✗	✓	✗

Engineering edition	WinCC Professional			
	WinCC Advanced			
Devices	WinCC Comfort WinCC			
	Basic			
	Basic Panels	Comfort Panel, Panels, Mobile Panels	IPC	SCADA

# TIA PORTAL HMI Software

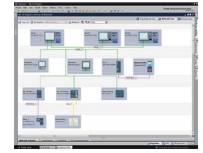


Material Type	Order No	
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## SIMATIC Visualization Architect V20

The SIMATIC Visualization Architect (SiVArc) option enables simple, fast and flexible automatic creation of HMI content based on the STEP 7 user program in Basic Panels, Comfort Panels, Unified Comfort Panels, 2nd generation Mobile Panels, WinCC RT Professional, WinCC Unified RT and WinCC RT Advanced.

SIMATIC Visualization Architect V20	DVD	6AV2107-0PX02-4AA5	
	Download	6AV2107-0PX02-4AH5	
SIMATIC Visualization Architect V20 90-day rental license	DVD	6AV2107-0PX02-4AA6	
	Download	6AV2107-0PX02-4AH6	
SIMATIC Visualization Architect, Upgrade V19 -> V20	DVD	6AV2107-3PX02-4AA5	
	Download	6AV2107-3PX02-4AH5	



HMI Network Configuration

## PowerPacks for SIMATIC WinCC V20 Project Software

It is used to switch to higher level project software regardless of the version.

SIMATIC WinCC Comfort Powerpack WinCC Basic -> WinCC Comfort V11..V20	Download	6AV2101-2AA00-0BJ5	
SIMATIC WinCC Advanced Powerpack WinCC Comfort -> WinCC Advanced V11..V20	Download	6AV2102-2AA00-0BJ5	
SIMATIC WinCC Professional Powerpack WinCC Advanced -> WinCC Professional 512 PowerTags V11..V20	Download	6AV2103-2AD00-0BJ5	
SIMATIC WinCC Professional Powerpack 512 PowerTags -> 4096 PowerTags V11..V20	Download	6AV2103-2DH00-0BD5	
SIMATIC WinCC Professional Powerpack 4096 PowerTags -> Max. PowerTags V11..V20	Download	6AV2103-2HX00-0BJ5	
WinCC Unified Basic Powerpack WinCC Unified Basic ES -> WinCC Unified Comfort ES V16..V20	Download	6AV2151-0XB20-0LB5	
WinCC Unified PC (10k) Powerpack WinCC Unified Comfort ES -> WinCC Unified PC (10k) ES V16..V20	Download	6AV2153-2FB20-0LB5	
WinCC Unified PC (100k) Powerpack WinCC Unified PC (10k) ES -> WinCC Unified PC (100k) ES V16..V20	Download	6AV2153-2GB20-0LB5	
WinCC Unified PC (max.) Powerpack WinCC Unified PC (100k) ES -> WinCC Unified PC (max.) ES V16..V20	Download	6AV2153-0XB20-0LB5	



WinCC Unified Panel Design



HMI Panel Design

## Upgrade from SIMATIC WinCC flexible Project Software to SIMATIC WinCC V20

Used for upgrade from WinCC flexible to WinCC V20.

SIMATIC WinCC Comfort V20 Upgrade to WinCC Flexible 2008 Compact -> WinCC Comfort Combo V20	DVD	6AV2101-4AB02-4AE5	
	Download	6AV2101-4AB02-4AK5	
SIMATIC WinCC Comfort V20 Upgrade to WinCC flexible 2008 Standard -> WinCC Comfort Combo V20	DVD	6AV2101-4BB02-4AE5	
	Download	6AV2101-4BB02-4AK5	
SIMATIC WinCC Advanced V20 Upgrade to WinCC flexible 2008 Advanced -> WinCC Advanced Combo V20	DVD	6AV2102-4AA02-4AE5	
	Download	6AV2102-4AA02-4AK5	

## SIMATIC HMI Project Software Upgrades WinCC V11...V19 -> WinCC V20

SIMATIC WinCC Basic V20 Upgrade V11..V19 -> V20	DVD	6AV2100-3AA02-4AE5	
	Download	6AV2100-3AA02-4AK5	
SIMATIC WinCC Comfort V20 Upgrade V11..V19 -> V20, V11..V19 Combo -> V20 Combo	DVD	6AV2101-3AA02-4AE5	
	Download	6AV2101-3AA02-4AK5	
SIMATIC WinCC Advanced V20 Upgrade V11..V19 -> V20, V11..V19 Combo -> V20 Combo	DVD	6AV2102-3AA02-4AE5	
	Download	6AV2102-3AA02-4AK5	
SIMATIC WinCC Professional 512 PowerTags V20 Upgrade V11..V19 -> V20	DVD	6AV2103-3DA02-4AE5	
	Download	6AV2103-3DA02-4AK5	
SIMATIC WinCC Professional 4096 PowerTags V20 Upgrade V11..V19 -> V20	DVD	6AV2103-3HA02-4AE5	
	Download	6AV2103-3HA02-4AK5	
SIMATIC WinCC Professional max. PowerTags V20 Upgrade V11..V19 -> V20	DVD	6AV2103-3XA02-4AE5	
	Download	6AV2103-3XA02-4AK5	
SIMATIC WinCC Unified Basic Upgrade V19 -> V20	DVD	6AV2151-0XA32-4AA5	
	Download	6AV2151-0XA32-4LA5	
SIMATIC WinCC Unified Comfort Upgrade V16..V19 -> V20	DVD	6AV2151-0XB32-4AA5	
	Download	6AV2151-0XB32-4LA5	
SIMATIC WinCC Unified PC 10k PowerTags Upgrade V16..V19 -> V20	DVD	6AV2153-2FB32-4AA5	
	Download	6AV2153-2FB32-4LA5	
SIMATIC WinCC Unified PC 100k PowerTags Upgrade V16..V19 -> V20	DVD	6AV2153-2GB32-4AA5	
	Download	6AV2153-2GB32-4LA5	
SIMATIC WinCC Unified PC Max. PowerTags Upgrade V16..V19 -> V20	DVD	6AV2153-0XB32-4AA5	
	Download	6AV2153-0XB32-4LA5	

# TIA PORTAL Runtime Advanced Softwares



Material Type	Order No
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## SIMATIC WinCC Runtime Advanced V17 Software

Softnet S7 lean driver for OPC DA server, OPC UA Server (DA), CP 5612/CP5622 MPI/PROFIBUS and industrial Ethernet included in the runtime package. For communication cards and drivers, SIMATIC NET PC cards section. SIMATIC WinCC RT Advanced V17 supports Windows 11 Home/Pro/Enterprise Version 22H2/23H2, Windows 10 Home/Pro/Enterprise Version 22H2 (64-Bit), Windows 10 Enterprise LTSC 2019/2021 (64-Bit), Windows Server 2019/2022 Standard Version (64-Bit) operating systems. You can access the detailed compatibility table from the link. <https://support.industry.siemens.com/compatool/#/main/start>

SIMATIC WinCC Runtime Advanced 128 PowerTags V17	DVD Download	6AV2104-0BA07-0AA0 6AV2104-0BA07-0AH0
SIMATIC WinCC Runtime Advanced 512 PowerTags V17	DVD Download	6AV2104-0DA07-0AA0 6AV2104-0DA07-0AH0
SIMATIC WinCC Runtime Advanced 2048 PowerTags V17	DVD Download	6AV2104-0FA07-0AA0 6AV2104-0FA07-0AH0
SIMATIC WinCC Runtime Advanced 4096 PowerTags V17	DVD Download	6AV2104-0HA07-0AA0 6AV2104-0HA07-0AH0
SIMATIC WinCC Runtime Advanced 8192 PowerTags V17	DVD Download	6AV2104-0KA07-0AA0 6AV2104-0KA07-0AH0
SIMATIC WinCC Runtime Advanced 16384 PowerTags V17	DVD Download	6AV2104-0LA07-0AA0 6AV2104-0LA07-0AH0

\*For archiving and prescription functions, SIMATIC WinCC Runtime Advanced options are required.

## SIMATIC WinCC V17 Powerpacks for Runtime Advanced

Used to increase the Runtime PowerTag license.

SIMATIC WinCC Runtime Advanced Powerpack 128 PowerTags -> 512 PowerTags V11..V17	DVD Download	6AV2104-2BD00-0BD0 6AV2104-2BD00-0BJ0
SIMATIC WinCC Runtime Advanced Powerpack 512 PowerTags -> 2048 PowerTags V11..V17	DVD Download	6AV2104-2DF00-0BD0 6AV2104-2DF00-0BJ0
SIMATIC WinCC Runtime Advanced Powerpack 2048 PowerTags -> 4096 PowerTags V11..V17	DVD Download	6AV2104-2FH00-0BD0 6AV2104-2FH00-0BJ0
SIMATIC WinCC Runtime Advanced Powerpack 4096 PowerTags -> 8192 PowerTags V11..V17	DVD Download	6AV2104-2HK00-0BD0 6AV2104-2HK00-0BJ0
SIMATIC WinCC Runtime Advanced Powerpack 8192 PowerTags -> 16384 PowerTags V11..V17	DVD Download	6AV2104-2KL00-0BD0 6AV2104-2KL00-0BJ0

## SIMATIC WinCC V17 Runtime Advanced Packages (for Panel PC, IPC, Rack PC and Box PC)

SIMATIC HMI, WinCC Runtime Advanced Packages

IPC 127E/227E/277E/277E/227G/277G/327G/327G/377G/BX-32A/BX-39A/PX-32A/PX-32A PX-39A/277G (PRO)/PX-39A(PRO) /677E/527G /627E,IPC 347G/RW-543A/RW-545A/547J/647E/847E/1047E can be ordered together with IPC MD-34A. SIMATIC WinCC V17 Runtime Advanced 128 PowerTags, archive and prescription option licenses included.

### Software Components

128 PowerTags (RT)	6AV2114-2BA07-0AA0
512 PowerTags (RT)	6AV2114-2DA07-0AA0
2048 PowerTags (RT)	6AV2114-2FA07-0AA0
4096 PowerTags (RT)	6AV2114-2HA07-0AA0
8192 PowerTags (RT)	6AV2114-2KA07-0AA0

## SIMATIC WinCC Runtime Upgrade (WinCC flexible Runtime - WinCC Runtime Advanced V17)

Used for SIMATIC WinCC Runtime Advanced V17 Upgrade.

WinCC flexible 2008 Runtime 128 PowerTags -> WinCC Runtime Advanced 128 PowerTags V17	DVD Download	6AV2104-4BB07-0AE0 6AV2104-4BB07-0AK0
WinCC flexible 2008 Runtime 512 PowerTags -> WinCC Runtime Advanced 512 PowerTags V17	DVD Download	6AV2104-4DD07-0AE0 6AV2104-4DD07-0AK0
WinCC flexible 2008 Runtime 2048 PowerTags -> WinCC Runtime Advanced 2048 PowerTags V17	DVD Download	6AV2104-4FF07-0AE0 6AV2104-4FF07-0AK0
WinCC flexible 2008 Runtime 4096 PowerTags -> WinCC Runtime Advanced 4096 PowerTags V17	DVD Download	6AV2104-4HH07-0AE0 6AV2104-4HH07-0AK0
WinCC flexible 2008 Runtime 8192 PowerTags -> WinCC Runtime Advanced 8192 PowerTags V17	DVD Download	6AV2104-4KK07-0AE0 6AV2104-4KK07-0AK0

## SIMATIC WinCC Runtime Advanced Upgrades (WinCC Runtime Advanced V11..V16 -> WinCC Runtime Advanced V17)

SIMATIC WinCC Runtime Advanced 128 PowerTags V16 Upgrade V11..V16 -> V17	DVD Download	6AV2104-3BB07-0AE0 6AV2104-3BB07-0AK0
SIMATIC WinCC Runtime Advanced 512 PowerTags V16 Upgrade V11..V16 -> V17	DVD Download	6AV2104-3DD07-0AE0 6AV2104-3DD07-0AK0
SIMATIC WinCC Runtime Advanced 2048 PowerTags V16 Upgrade V11..V16 -> V17	DVD Download	6AV2104-3FF07-0AE0 6AV2104-3FF07-0AK0
SIMATIC WinCC Runtime Advanced 4096 PowerTags V16 Upgrade V11..V16 -> V17	DVD Download	6AV2104-3HH07-0AE0 6AV2104-3HH07-0AK0
SIMATIC WinCC Runtime Advanced 8192 or 16384 PowerTags V17 Upgrade V11..V16 -> V17	DVD Download	6AV2104-3KK07-0AE0 6AV2104-3KK07-0AK0



HMI Control Objects



WinCC V17 Runtime Advanced (together with IPC)

# TIA PORTAL Runtime Professional Software



Material Type	Order No
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## SIMATIC WinCC Runtime Professional V20 Software

WinCC OLEDB, WinCC OPC (OPC DA, OPC XML DA, OPC HDA, OPC A&E, OPC UA server DA,HA, OPC UA server A&C, OPC UA Client DA) and CP 5612/ CP5622 S7 MPI/PROFIBUS driver is included in the runtime. Softnet S7 lean license for industrial ethernet comes with runtime licenses. Up to 512 process tags can be archived with the runtime software. To increase the WinCC archiving capacity, archive DVDs and archive PowerPacks are used. Allen Bradley Ethernet IP, Modbus TCP/IP, Mitsubishi MC TCP/IP drivers from other PLC manufacturers are available on the DVD. For communication cards and drivers, see SIMATIC NET PC cards section. SIMATIC WinCC V20 Runtime Professional supports Windows 11 Pro/Enterprise Version 22H2/23H2, Windows 10 Professional/Enterprise Version 22H2 (64bit), Windows 10 Enterprise LTSC 2019/2021 (64-Bit), Windows Server 2019/2022 Standard Version (64-Bit), operating systems. <https://support.industry.siemens.com/compatool/#/main/start>

SIMATIC WinCC Client Runtime Professional V20 is used in server client architecture	DVD Download	6AV2107-0DB02-4AA0 6AV2107-0DB02-4AH0
SIMATIC WinCC Runtime Professional 128 PowerTags V20 for server client architecture WinCC Client Runtime Professional license is used.	DVD Download	6AV2105-0BA02-4AA0 6AV2105-0BA02-4AH0
SIMATIC WinCC Runtime Professional 512 PowerTags V20	DVD Download	6AV2105-0DA02-4AA0 6AV2105-0DA02-4AH0
SIMATIC WinCC Runtime Professional 2048 PowerTags V20	DVD Download	6AV2105-0FA02-4AA0 6AV2105-0FA02-4AH0
SIMATIC WinCC Runtime Professional 4096 PowerTags V20	DVD Download	6AV2105-0HA02-4AA0 6AV2105-0HA02-4AH0
SIMATIC WinCC Runtime Professional 8192 PowerTags V20	DVD Download	6AV2105-0KA02-4AA0 6AV2105-0KA02-4AH0
SIMATIC WinCC Runtime Professional 65536 PowerTags V20	DVD Download	6AV2105-0MA02-4AA0 6AV2105-0MA02-4AH0
SIMATIC WinCC Runtime Professional 102400 PowerTags V20	DVD Download	6AV2105-0PA02-4AA0 6AV2105-0PA02-4AH0
SIMATIC WinCC Runtime Professional 153600 PowerTags V20	DVD Download	6AV2105-0RA02-4AA0 6AV2105-0RA02-4AH0
SIMATIC WinCC Runtime Professional 262144 PowerTags V20	DVD Download	6AV2105-0TA02-4AA0 6AV2105-0TA02-4AH0



HMI Graphic Objects



HMI Layout

## SIMATIC WinCC Runtime Professional V20 Packages (for Panel PC, IPC, Rack PC and Box PC)

SIMATIC HMI, WinCC Runtime Professional V20 Packages

IPC127E/227E/277E/277E/227G/327G/327G/377G/BX-21A/ BX-32A/BX-39A/PX-32A/ PX-39A/277G(PRO)/PX-39A(PRO)/ BX-56A/BX-59A/527G /627E, IPC347G/ RW-543A/RC-545A, RW-545A/RS-545A/RS-545A/547J/647E/847E/1047E can be ordered together with IPC MD-34A.\*

### Software Components

128 PowerTags		6AV2115-2BA02-4AA0
512 PowerTags		6AV2115-2DA02-4AA0
2048 PowerTags		6AV2115-2FA02-4AA0
4096 PowerTags		6AV2115-2HA02-4AA0
8192 PowerTags		6AV2115-2KA02-4AA0
65536 PowerTags		6AV2115-2MA02-4AA0
WinCC Runtime Professional V19 Client		6AV2117-2DB02-4AA0

\* You can use it for Scada project suitable for IPC's performance.



WinCC V20 Runtime Professional (ordered together with IPC)

## SIMATIC WinCC Runtime Professional Software Upgrades V18..V19 -> V20

This is the license required to upgrade the version.

SIMATIC WinCC RT Professional Client Upgrade V18..V19 -> V20	DVD Download	6AV2107-3DB02-4AE0 6AV2107-3DB02-4AK0
SIMATIC WinCC RT Professional 128 PowerTags Upgrade V18..V19 -> V20	DVD Download	6AV2105-3BB02-4AE0 6AV2105-3BB02-4AK0
SIMATIC WinCC RT Professional 512 PowerTags Upgrade V18..V19 -> V20	DVD Download	6AV2105-3DD02-4AE0 6AV2105-3DD02-4AK0
SIMATIC WinCC RT Professional 2048 PowerTags Upgrade V18..V19 -> V20	DVD Download	6AV2105-3FF02-4AE0 6AV2105-3FF02-4AK0
SIMATIC WinCC RT Professional 4096 PowerTags Upgrade V18..V19 -> V20	DVD Download	6AV2105-3HH02-4AE0 6AV2105-3HH02-4AK0
SIMATIC WinCC RT Professional 8192 PowerTags Upgrade V18..V19 -> V20	DVD Download	6AV2105-3KK02-4AE0 6AV2105-3KK02-4AK0
SIMATIC WinCC RT Professional 65536 & 262144 PowerTags Upgrade V18..V19 -> V20	DVD Download	6AV2105-3MM02-4AE0 6AV2105-3MM02-4AK0

\* WinCC RT Prof V20 Upgrade licenses include base option upgrade licenses (Datamonitor, WebNavigator, Recipe, Server, Redundancy)

# TIA PORTAL Runtime Professional Software



Configure Now

Material Type	Order No	
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## WinCC V20 Powerpacks for Runtime Professional

Used to increase the Runtime PowerTag license regardless of version.

SIMATIC WinCC Runtime Professional Powerpack 128 PowerTags -> 512 PowerTags V11..V20	Download	6AV2105-2BD00-0BJ0	
SIMATIC WinCC Runtime Professional Powerpack 512 PowerTags -> 2048 PowerTags V11..V20	Download	6AV2105-2DF00-0BJ0	
SIMATIC WinCC Runtime Professional Powerpack 2048 PowerTags -> 4096 PowerTags V11..V20	Download	6AV2105-2FH00-0BJ0	
SIMATIC WinCC Runtime Professional Powerpack 4096 PowerTags -> 8192 PowerTags V11..V20	Download	6AV2105-2HK00-0BJ0	
SIMATIC WinCC Runtime Professional Powerpack 8192 PowerTags -> 65536 PowerTags V11..V20	Download	6AV2105-2KM00-0BJ0	
SIMATIC WinCC Runtime Professional Powerpack 65536 PowerTags -> 102400 PowerTags V11..V20	Download	6AV2105-2MP00-0BJ0	
SIMATIC WinCC Runtime Professional Powerpack 102400 PowerTags -> 153600 PowerTags V11..V20	Download	6AV2105-2PR00-0BJ0	
SIMATIC WinCC Runtime Professional Powerpack 153600 PowerTags -> 262144 PowerTags V11..V20	Download	6AV2105-2RT00-0BJ0	

# TIA PORTAL HMI Runtime Software Options

Material Type	Order No	
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## SIMATIC ProDiag

SIMATIC ProDiag is diagnostic management software for processes and machines. The creation of supervisions on the SIMATIC S7-1500 controller side and their display on the HMI side is automatic. In the event of a fault, it is possible to get information about the current status of the process, if necessary, to see the ladder or graph program code on the HMI unit without a programming device and to intervene quickly in the system.

SIMATIC ProDiag for SIMATIC Comfort/Mobile Panels	DVD Download	6AV2107-0UP00-0BB0 6AV2107-0UP00-0BH0	
For SIMATIC ProDiag WinCC Runtime Advanced	DVD Download	6AV2107-0UA00-0BB0 6AV2107-0UA00-0BH0	
SIMATIC ProDiag is used for WinCC Runtime Professional V14/ WinCC V7.4 and higher versions.	DVD Download	6AV2107-0UB00-0BB0 6AV2107-0UB00-0BH0	

## SIMATIC WinCC Server/ Redundancy

SIMATIC WinCC Server Runtime Professional is used for Server Client structure, WinCC Client Runtime Professional license is sufficient for Client.	DVD Download	6AV2107-0EB00-0BB0 6AV2107-0EB00-0BH0	
SIMATIC WinCC Redundancy Runtime Professional is used for redundant WinCC stations, automatic client replacement and automatic archive update, one license is enough for a redundant WinCC station pair.	DVD Download	6AV2107-0FB00-0BB0 6AV2107-0FB00-0BH0	

## SIMATIC WinCC Audit

Secure access control in accordance with the FDA (American Food and Drug Administration) specification 21 CFR Part 11 is used for an electronically signed record of user activities.

SIMATIC WinCC Audit for Comfort/Mobile panels	DVD Download	6AV2107-0RP00-0BB0 6AV2107-0RP00-0BH0	
For SIMATIC WinCC Audit Runtime Advanced	DVD Download	6AV2107-0RA00-0BB0 6AV2107-0RA00-0BH0	



WinCC Audit

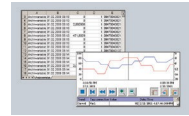
# TIA PORTAL HMI Runtime Software Options



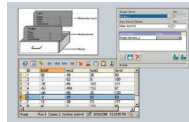
Material Type	Order No
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## SIMATIC WinCC Prescription and Archive Options

SIMATIC WinCC Recipes for Runtime Advanced	DVD Download	6AV2107-0JA00-0BB0 6AV2107-0JA00-0BH0
For SIMATIC WinCC Logging, Runtime Advanced	DVD Download	6AV2107-0GA00-0BB0 6AV2107-0GA00-0BH0
For SIMATIC WinCC Recipes+Logging Runtime Advanced	DVD Download	6AV2107-0HA00-0BB0 6AV2107-0HA00-0BH0
SIMATIC WinCC Recipes for Runtime Professional	DVD Download	6AV2107-0JB00-0BB0 6AV2107-0JB00-0BH0
SIMATIC WinCC Logging, for Runtime Professional, 1500 Logging Tags	DVD Download	6AV2107-0GB00-0BB0 6AV2107-0GB00-0BH0
SIMATIC WinCC Logging, for Runtime Professional, 5000 Logging Tags	DVD Download	6AV2107-0GD00-0BB0 6AV2107-0GD00-0BH0



WinCC Runtime Advanced Logging

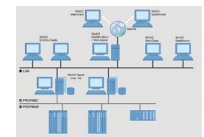


WinCC Recipes

## SIMATIC WinCC WebNavigator

Used for process monitoring and control via internet or intranet, for V14/V7.4 and higher versions.

SIMATIC WinCC WebNavigator for Runtime Professional, simultaneously 1 user license	DVD Download	6AV6362-1AB00-0BB0 6AV6362-1AB00-0AH0
SIMATIC WinCC WebNavigator for Runtime Professional, simultaneously 3 user license	DVD Download	6AV6362-1AD00-0BB0 6AV6362-1AD00-0AH0
SIMATIC WinCC WebNavigator for Runtime Professional, simultaneously 10-user license	DVD Download	6AV6362-1AF00-0BB0 6AV6362-1AF00-0AH0
SIMATIC WinCC WebNavigator for Runtime Professional, simultaneously 30-user license	DVD Download	6AV6362-1AJ00-0BB0 6AV6362-1AJ00-0AH0
SIMATIC WinCC WebNavigator for Runtime Professional, simultaneously 100-user license	DVD Download	6AV6362-1AM00-0BB0 6AV6362-1AM00-0AH0
SIMATIC WinCC WebNavigator Diagnostics Client	DVD Download	6AV6362-1BA00-0BB0 6AV6362-1BA00-0AH0



WinCC/Web Navigator

## SIMATIC WinCC DataMonitor

It consists of WebCenter, a tool for creating a web portal using WinCC data over the Internet or intranet, WinCC ViewerRT for monitoring Scada pages, Published Reports for getting reports in Excel and pdf format, Trends&Alarms, a WinCC process and alarm archive tool, and Excel Workbooks, an Excel analysis and report tool using WinCC current values, process and alarm archive data. It is used for V14/V7.4 and higher versions.

SIMATIC WinCC DataMonitor for Runtime Professional, 1 user license at the same time	DVD Download	6AV6362-3AB00-0BB0 6AV6362-3AB00-0AH0
SIMATIC WinCC DataMonitor for Runtime Professional, license for 3 simultaneous users	DVD Download	6AV6362-3AD00-0BB0 6AV6362-3AD00-0AH0
SIMATIC WinCC DataMonitor for Runtime Professional, license for 10 users at the same time	DVD Download	6AV6362-3AF00-0BB0 6AV6362-3AF00-0AH0
SIMATIC WinCC DataMonitor for Runtime Professional, license for 30 simultaneous users	DVD Download	6AV6362-3AJ00-0BB0 6AV6362-3AJ00-0AH0



WinCC DataMonitor WebCenter

## WinCC WebUX

It is used for monitoring and controlling the process from mobile terminal devices via internet or intranet. It can be used with browsers that support HTML5 independent of the operating system. Direct connection, tag connection, Vbscript and WebUX compatible objects (e.g. alarm and trend control) are supported. WinCC Runtime Professional license includes WebUX monitor license with 1 user at the same time. Used for V14/V7.3 and higher versions.

Monitor license with 1 user at the same time	DVD Download	6AV6362-2AB00-0BB0 6AV6362-2AB00-0AH0
Monitor license with 3 users at the same time	DVD Download	6AV6362-2AD00-0BB0 6AV6362-2AD00-0AH0
Monitor license with 10 simultaneous users	DVD Download	6AV6362-2AF00-0BB0 6AV6362-2AF00-0AH0
Monitor license with 30 simultaneous users	DVD Download	6AV6362-2AJ00-0BB0 6AV6362-2AJ00-0AH0
Operate license with 1 user at the same time	DVD Download	6AV6362-2AM00-0BB0 6AV6362-2AM00-0AH0
Monitor license with 100 simultaneous users	DVD Download	6AV6362-2BB00-0BB0 6AV6362-2BB00-0AH0
Operate license with 10 simultaneous users	DVD Download	6AV6362-2BF00-0BB0 6AV6362-2BF00-0AH0
Operate license with 3 users at the same time	DVD Download	6AV6362-2BD00-0BB0 6AV6362-2BD00-0AH0
Operate license with 100 simultaneous users	DVD Download	6AV6362-2BM00-0BB0 6AV6362-2BM00-0AH0
Simultaneous 30-user operate license	DVD Download	6AV6362-2BJ00-0BB0 6AV6362-2BJ00-0AH0



WinCC WebUX

# WinCC Unified Runtime Software



Material Type	Order No
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## SIMATIC WinCC V20 Unified PC RT Software \*

WinCC Unified is a web-based visualization software that supports current and advanced web technologies such as Java script, SVG. It can be connected to the server project as a client via web browser on PC, mobile phone and tablet without any additional configuration. WinCC Unified PC RT license includes 1 local client, 1 remote monitor client and 1 remote operation client. WinCC Unified RT comes open-coded SQLite database with installation. MS SQL database option can be used for intensive and long-term archiving solutions. Archive license must be purchased for the number of process variables to be archived. In WinCC V20 Unified PC RT, OPC (OPC UA DA / A&C server, OPC UA DA Client) driver is available in runtime content. Softnet S7 lean license for S7 ethernet up to 10 connections is included with runtime licenses. Allen Bradley Ethernet IP, Modbus TCP/IP, Mitsubishi MC TCP/IP drivers from other PLC manufacturers are available on DVD. For communication cards and drivers, please refer to SIMATIC NET PC cards section. SIMATIC WinCC V20 Unified PC RT supports Windows 11 Pro/Enterprise Version 23H2/22H2 (64-Bit), Windows 10 Professional/Enterprise Version 22H2 (64-Bit), Windows 10 Enterprise LTSC 2016/2019/2021 Version (64-Bit), Windows Server 2022/2019/2016 Standard Version (64-Bit) operating systems. You can access the detailed compatibility table from the link. <https://support.industry.siemens.com/compatool/#/main/start>



Scalability with WinCC Unified

WinCC Unified PC RT 150 PowerTags V20	DVD	6AV2154-3DB02-4AA0	
	Download	6AV2154-3DB02-4LA0	
WinCC Unified PC RT 500 PowerTags V20	DVD	6AV2154-1EB02-4AA0	
	Download	6AV2154-1EB02-4LA0	
WinCC Unified PC RT 1k PowerTags V20	DVD	6AV2154-2EB02-4AA0	
	Download	6AV2154-2EB02-4LA0	
WinCC Unified PC RT 2.5k PowerTags V20	DVD	6AV2154-2MB02-4AA0	
	Download	6AV2154-2MB02-4LA0	
WinCC Unified PC RT 5k PowerTags V20	DVD	6AV2154-1FB02-4AA0	
	Download	6AV2154-1FB02-4LA0	
WinCC Unified PC RT 10k PowerTags V20	DVD	6AV2154-2FB02-4AA0	
	Download	6AV2154-2FB02-4LA0	
WinCC Unified PC RT 50k PowerTags V20	DVD	6AV2154-1GB02-4AA0	
	Download	6AV2154-1GB02-4LA0	
WinCC Unified PC RT 100k PowerTags V20	DVD	6AV2154-2GB02-4AA0	
	Download	6AV2154-2GB02-4LA0	
WinCC Unified PC RT max. PowerTags V20	DVD	6AV2154-0XB02-4AA0	
	Download	6AV2154-0XB02-4LA0	

\* Archive license must be selected to archive process variables.



WinCC Unified communication options

## SIMATIC WinCC Unified Archive Licenses

WinCC Unified RT is the license required to archive on PC. It should be selected according to the number of tags to be archived. Archiving capacity can be increased by adding archive tag licenses.

WinCC Unified Logging Tags (100)	DVD	6AV2157-2DA00-0AB0	
	Download	6AV2157-2DA00-0LB0	
WinCC Unified Logging Tags (500)	DVD	6AV2157-1EA00-0AB0	
	Download	6AV2157-1EA00-0LB0	
WinCC Unified Logging Tags (1000)	DVD	6AV2157-2EA00-0AB0	
	Download	6AV2157-2EA00-0LB0	
WinCC Unified Logging Tags (5000)	DVD	6AV2157-1FA00-0AB0	
	Download	6AV2157-1FA00-0LB0	
WinCC Unified Logging Tags (10000)	DVD	6AV2157-2FA00-0AB0	
	Download	6AV2157-2FA00-0LB0	
WinCC Unified Logging Tags (30000)	DVD	6AV2157-6FA00-0AB0	
	Download	6AV2157-6FA00-0LB0	

## SIMATIC WinCC Unified RT PC V20 Packages (for Panel PC/IPC/Rack PC and Box PC)

Parameter control option and archive license are included with the IPC package. Its content varies according to the number of Unified RT licenses. IPC 127E/227E/277E/277G/277G/327G/327G/377G/BX-32A/BX-39A/PX-32A/PX-39A/277G (PRO)/PX-39A(PRO)/677E/527G /627E,IPC 347G/RW-543A/RW-545A/547J/647J/647E/847E/1047E can be ordered together with IPC MD-34A.\*

WinCC Unified V20 PC RT 150 (includes WinCC Unified Logging Tags 100)	6AV2155-3DB02-4AA0
WinCC Unified V20 PC RT 500 (includes WinCC Unified Logging Tags 200)	6AV2155-1EB02-4AA0
WinCC Unified V20 PC RT 1k (includes WinCC Unified Logging Tags 500)	6AV2155-2EB02-4AA0
WinCC Unified V20 PC RT 2.5k (includes WinCC Unified Logging Tags 500)	6AV2155-2MB02-4AA0
WinCC Unified V20 PC RT 5k (includes WinCC Unified Logging Tags 1000)	6AV2155-1FB02-4AA0
WinCC Unified V20 PC RT 10k (includes WinCC Unified Logging Tags 1000)	6AV2155-2FB02-4AA0
WinCC Unified V20 PC RT 50k (includes WinCC Unified Logging Tags 1000)	6AV2155-1GB02-4AA0

\* You can use it for Scada project suitable for IPC's performance.

# WinCC Unified Runtime Software



Material Type	Order No	
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## SIMATIC WinCC V20 Powerpacks for Unified PC RT

Used to increase the Runtime PowerTag license independent of version. Different license is required for version change (see version upgrade)

SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 150 -> PC 500 PowerTags V16..V20	Download	6AV2154-1EB20-0LB0	
SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 500 -> PC 1k PowerTags V16..V20	Download	6AV2154-2EB20-0LB0	
SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 1k -> PC 2.5k PowerTags V16..V20	Download	6AV2154-2MB20-0LB0	
SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 2.5k -> PC 5k PowerTags V16..V20	Download	6AV2154-1FB20-0LB0	
SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 5k -> PC 10k PowerTags V16..V20	Download	6AV2154-2FB20-0LB0	
SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 10k -> PC 50k PowerTags V16..V20	Download	6AV2154-1GB20-0LB0	
SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 50k -> PC 100k PowerTags V16..V20	Download	6AV2154-2GB20-0LB0	
SIMATIC WinCC Unified V16..V20 PC Runtime Powerpack PC 100k -> PC max. PowerTags V16..V20	Download	6AV2154-0XB20-0LB0	

## SIMATIC WinCC Unified PC RT Software Upgrades V18..V19 ->

WinCC Unified PC RT 150 Upgrade V18..V19 -> V20	DVD	6AV2154-3DB32-4AA0	
	Download	6AV2154-3DB32-4LA0	
WinCC Unified PC RT 500 Upgrade V18..V19 -> V20	DVD	6AV2154-1EB32-4AB0	
	Download	6AV2154-1EB32-4LA0	
WinCC Unified PC RT 1k Upgrade V18..V19 -> V20	DVD	6AV2154-2EB32-4AB0	
	Download	6AV2154-2EB32-4LA0	
WinCC Unified PC RT 2.5k Upgrade V18..V19 -> V20	DVD	6AV2154-2MB32-4AB0	
	Download	6AV2154-2MB32-4LA0	
WinCC Unified PC RT 5k Upgrade V18..V19 -> V20	DVD	6AV2154-1FB32-4AA0	
	Download	6AV2154-1FB32-4LA0	
WinCC Unified PC RT 10k Upgrade V18..V19 -> V20	DVD	6AV2154-2FB32-4AA0	
	Download	6AV2154-2FB32-4LA0	
WinCC Unified PC RT 50k Upgrade V18..V19 -> V20	DVD	6AV2154-1GB32-4AA0	
	Download	6AV2154-1GB32-4LA0	
WinCC Unified PC RT 100k Upgrade V18..V19 -> V20	DVD	6AV2154-2GB32-4AA0	
	Download	6AV2154-2GB32-4LA0	
WinCC Unified PC RT max. Upgrade V18..V19 -> V20	DVD	6AV2154-0XB32-4AA0	
	Download	6AV2154-0XB32-4LA0	

\* WinCC Unified V19 PC RT Upgrade licenses include base option upgrade licenses (Parameter Control, Report Execution, Collaboration, Audit Base, ProDiag). Upgrade licenses do not include WinCC Unified PI options and Database option

## SIMATIC WinCC Unified PC RT Client Licenses

WinCC Unified is a web-based visualization software that supports current and advanced web technologies such as Java script, SVG. It can be connected to the server project as a client via web browser on PC, mobile phone and tablet without any additional configuration. RT license 1 local client, 1 remote monitor client and 1 remote operation client. With the monitor type license, the facility can be monitored, while with the operate type license, both monitoring and controlling can be done.

WinCC Unified Clients Operate 1 user license	DVD	6AV2157-1JW00-0AB0	
	Download	6AV2157-1JW00-0LB0	
WinCC Unified Clients Operate 3-user license	DVD	6AV2157-3JW00-0AB0	
	Download	6AV2157-3JW00-0LB0	
WinCC Unified Clients Operate 5X1 user license	DVD	6AV2157-5JW00-0AB0	
	Download	6AV2157-5JW00-0LB0	
WinCC Unified Clients Operate 10-user license	DVD	6AV2157-2CW00-0AB0	
	Download	6AV2157-2CW00-0LB0	
WinCC Unified Clients Operate Max. user license*	DVD	6AV2157-0XW00-0AB0	
	Download	6AV2157-0XW00-0LB0	
WinCC Unified Clients Monitor 1 user license	DVD	6AV2157-1JM00-0AB0	
	Download	6AV2157-1JM00-0LB0	
WinCC Unified Clients Monitor 3-user license	DVD	6AV2157-3JM00-0AB0	
	Download	6AV2157-3JM00-0LB0	
WinCC Unified Clients Monitor 10-user license	DVD	6AV2157-2CM00-0AB0	
	Download	6AV2157-2CM00-0LB0	
WinCC Unified Clients Monitor Max. user license*	DVD	6AV2157-0XM00-0AB0	
	Download	6AV2157-0XM00-0LB0	

\* Tested with 150 clients on a high end PC.



Client use of PC, cell phone and tablet

# WinCC Unified Runtime Software Option



Material Type	Order No	
<b>SIMATIC WinCC Unified PC RT Options</b>		
<b>SIMATIC WinCC Unified Redundancy Option</b>		
WinCC Unified RT is used for redundant WinCC Unified stations on PC systems, automatic client replacement and automatic archive update, one license is enough for redundant WinCC Unified station pair.		
WinCC Unified Redundancy V20	Download	6AV2157-0BR02-4LB0
<b>SIMATIC WinCC Unified Database Option</b>		
License code required to use MS SQL database on WinCC Unified RT PC. WinCC Unified RT comes with the open source SQLite database. MS SQL database option is required for intensive and long-term archiving solutions.		
WinCC Unified Database Storage V20	DVD	6AV2154-0BS02-4AA0
	Download	6AV2154-0BS02-4LA0
WinCC Unified Database Storage, Upgrade V18..V19 -> V20	DVD	6AV2154-2BS32-4AA0
	Download	6AV2154-2BS32-4LA0
<b>SIMATIC WinCC Unified Parameter Control Option</b>		
License code required to use the prescription function on WinCC Unified RT PC.		
WinCC Unified Parameter Control (Unified PC) V20	DVD	6AV2154-0BP02-4AB0
	Download	6AV2154-0BP02-4LB0
<b>SIMATIC WinCC Unified Collaboration Option</b>		
With the Collaboration option, pages can be shared between Unified Comfort Panel and WinCC Unified RT.		
WinCC Unified Collaboration V20	DVD	6AV2154-0BR02-4AB0
	Download	6AV2154-0BR02-4LB0
WinCC Unified Collaboration V20 (3x1)	DVD	6AV2154-3JR02-4AB0
	Download	6AV2154-3JR02-4LB0
WinCC Unified Collaboration V20 (10x1)	Download	6AV2154-3CR02-4LB0
<b>SIMATIC WinCC Unified Audit Option</b>		
WinCC Unified Audit Basis	DVD	6AV2157-0BL02-3AB0
	Download	6AV2157-0BL02-3LB0
(WinCC) (Unified) (Audit) (Enhanced)	DVD	6AV2157-1BL02-3AB0
	Download	6AV2157-1BL02-3LB0
WinCC Unified Audit Powerpack	Download	6AV2157-1BL20-0LB0
<b>SIMATIC WinCC Unified Reporting Option</b>		
In Unified Comfort Panel and WinCC Unified RT PC, report templates can be created and manual reporting can be done via MS Excel by accessing current and historical process values and alarms. Unified Report Execution license is required to create automatic reports based on time or a specific task and send them via e-mail in PDF, Excel format.		
WinCC Unified Report Execution V20	DVD	6AV2157-0BQ02-3AB0
	Download	6AV2157-0BQ02-3LB0
<b>SIMATIC WinCC Unified ProDiag Option</b>		
SIMATIC ProDiag is diagnostic management software for processes and machines. The creation of supervisions on the SIMATIC S7-1500 controller side and their display on the HMI side is automatic. In the event of a fault, it is possible to get information about the current status of the process, if necessary, to see the ladder or graph program code on the HMI unit without a programming device and to intervene quickly in the system.		
SIMATIC ProDiag WinCC Unified V20	DVD	6AV2157-0BD02-4AB0
	Download	6AV2157-0BD02-4LB0
<b>SIMATIC WinCC Unified Connectivity Option</b>		
WinCC Unified GraphQL Connect Data Log V20 provides access to archived process variables via GraphQL for WinCC Unified PC RT. No license is required to read process variables via GraphQL, write values, subscribe changes, read active and archived alarms, subscribe to active alarm changes, confirm, reset.		
WinCC Unified Connectivity GraphQL	Download	6AV2157-1GK02-4LB0



WinCC Unified prescription option



WinCC Unified Collaboration feature



# WinCC Unified Runtime Software Option



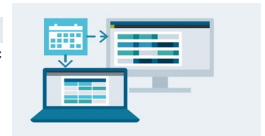
Material Type	Order No
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## SIMATIC WinCC Unified PC RT Plant Intelligence Options

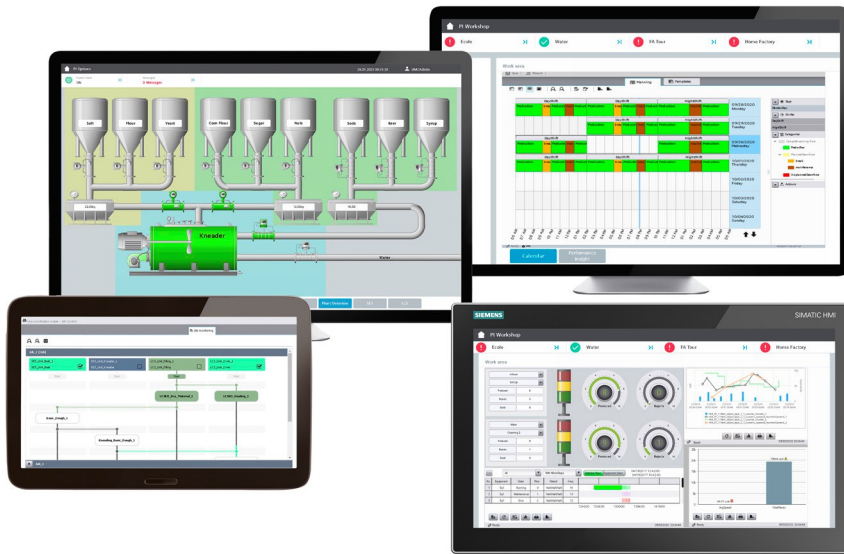
**SIMATIC WinCC Unified Calendar**  
 Unified Calendar, used with S7-1500 PLCs and valid on the Unified RT PC side, is used to schedule, configure and manage (tag link or scripts) tasks on specific dates in a single global calendar in WinCC Unified. Base license is needed to use the Calendar option.

WinCC Unified Calendar Base V20 (includes 3 Calendar licenses)	Download 6AV2156-0BC02-4LA0
WinCC Unified Calendar Extension (1) (countable) *	Download 6AV2156-1JC00-0LB0
WinCC Unified Calendar Base Upgrade V18..V19 -> V20	Download 6AV2156-0BC32-4LA0

\* Independent of WinCC Unified version.



WinCC Unified calendar-based run



### SIMATIC WinCC Unified Performance Insight

The Performance Insight option, used in conjunction with the Calendar option, is used for the definition, calculation and analysis of plant-specific KPIs for a specific machine or entire production lines in production facilities. Base license is to use Performance Insight option.

WinCC Unified Performance Insight Base V20 (includes 3 KPI licenses)	Download 6AV2156-0BP02-4LA0
WinCC Unified Performance Insight Extension (10) (countable) *	Download 6AV2156-2CP00-0LB0
WinCC Unified Performance Insight Extension (30) (countable) *	Download 6AV2156-6CP00-0LB0
WinCC Unified Performance Insight Extension (100) (countable) *	Download 6AV2156-2DP00-0LB0
WinCC Unified Performance Insight Extension (300) (countable) *	Download 6AV2156-6DP00-0LB0
WinCC Unified Performance Insight Base Upgrade V18..V19 -> V20	Download 6AV2156-0BP32-4LA0

\* Independent of WinCC Unified version.



# SIMATIC WinCC Scada Software



Up to 512 process tags can be archived in runtime and complete package. Archival DVDs and PowerPacks are used to increase WinCC archiving capacity. CP5622 S7 MPI/ Profibus driver is included in the runtime DVD. Softnet S7 lean license for industrial Ethernet comes with runtime and complete DVD licenses. Allen Bradley Ethernet IP, Modbus TCP/IP, Mitsubishi MC TCP/IP drivers from other PLC manufacturers are available on DVD. For communication cards and drivers SIMATIC NET PC cards section. WinCC V8.1, Microsoft Windows 11/10 Pro/Enterprise (64-Bit), Windows 10 Pro/Enterprise Version 22H2 (64-Bit), Windows 11 Pro/Enterprise Version 23H2 (64-Bit), Windows 10 Enterprise LTSC 2021 Version 21H2 (64-Bit), Windows 10 Enterprise LTSC 2019 Version 1809 (64-Bit), It supports Windows 11 Enterprise LTSC 2024 Version 24H2 (64-Bit), Windows Server 2019 Standard Edition (64-Bit), Windows Server 2022 Standard Edition (64-Bit), Windows Server 2019 Datacenter Edition (64-Bit) and Windows Server 2022 Datacenter Edition (64-Bit) operating systems. You can access the detailed compatibility table from the link below. <https://support.industry.siemens.com/compatool/#/main/start>



Material Type	Order No
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## SIMATIC WinCC V8.1 Runtime Packages

WinCC V8.1 RT Client (used in Server Client architecture)	DVD Download	6AV6381-2CA08-1AX0 6AV6381-2CA08-1AH0
WinCC V8.1 RT 128 PowerTags (RT 128)	DVD Download	6AV6381-2BC08-1AX0 6AV6381-2BC08-1AH0
WinCC V8.1 RT 512 PowerTags (RT 512)	DVD Download	6AV6381-2BD08-1AX0 6AV6381-2BD08-1AH0
WinCC V8.1 RT 2048 PowerTags (RT 2048)	DVD Download	6AV6381-2BE08-1AX0 6AV6381-2BE08-1AH0
WinCC V8.1 RT 8K PowerTags (RT 8192)	DVD Download	6AV6381-2BH08-1AX0 6AV6381-2BH08-1AH0
WinCC V8.1 RT 64K PowerTags (RT 65536)	DVD Download	6AV6381-2BF08-1AX0 6AV6381-2BF08-1AH0
WinCC V8.1 RT 100K PowerTags (RT 102400)	DVD Download	6AV6381-2BJ08-1AX0 6AV6381-2BJ08-1AH0
WinCC V8.1 RT Unlimited PowerTags (RT unlimited) (as of V8.1)	DVD Download	6AV6381-2BK08-1AX0 6AV6381-2BK08-1AH0



WinCC V8.1 Runtime (ordered together with IPC)

## SIMATIC WinCC V8.1 Runtime Packages (for Panel PC/IPC/Rack PC and Box PC)

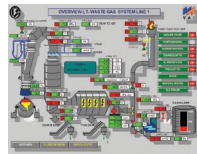
### SIMATIC HMI, WinCC V8.1 Package

IPC127E/227E/277E/277E/227G/277G/327G/377G/BX-21A/ BX-32A/BX-39A/PX-32A/PX-39A/277G (PRO)/PX-39A(PRO)/ BX-56A/BX-59A/527G /627E, IPC347G/ RW-543A/RC-545A RW-545A/RS-545A/RS-545A/547J/647E/847E/1047E, can be ordered with IPC MD-34A

### Software Components

WinCC V8.1 RT Client	6AV6382-2AA08-1AX0
WinCC V8.1 RT 128 PowerTags (RT 128)	6AV6382-2CA08-1AX0
WinCC V8.1 RT 512 PowerTags (RT 512)	6AV6382-2DA08-1AX0
WinCC V8.1 RT 2048 PowerTags (RT 2048)	6AV6382-2EA08-1AX0
WinCC V8.1 RT 8K PowerTags (RT 8K)	6AV6382-2HA08-1AX0
WinCC V8.1 RT 64K PowerTags (RT 64K)	6AV6382-2FA08-1AX0

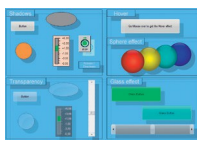
\* You can use it for Scada project suitable for IPC's performance.



WinCC RT

## SIMATIC WinCC V8.1 Complete Packages (Runtime+Configuration Software)

WinCC V8.1 RC Client (used in Server Client architecture)	DVD Download	6AV6381-2CB08-1AX0 6AV6381-2CB08-1AH0
WinCC V8.1 RC 128 PowerTag (RC 128)	DVD Download	6AV6381-2BM08-1AX0 6AV6381-2BM08-1AH0
WinCC V8.1 RC 512 PowerTag (RC 512)	DVD Download	6AV6381-2BN08-1AX0 6AV6381-2BN08-1AH0
WinCC V8.1 RC 2048 PowerTag (RC 2048)	DVD Download	6AV6381-2BP08-1AX0 6AV6381-2BP08-1AH0
WinCC V8.1 RC 8K PowerTag (RC 8192)	DVD Download	6AV6381-2BS08-1AX0 6AV6381-2BS08-1AH0
WinCC V8.1 RC 64K PowerTag (RC 65536)	DVD Download	6AV6381-2BQ08-1AX0 6AV6381-2BQ08-1AH0
WinCC V8.1 RC 100K PowerTag (RC 102400)	DVD Download	6AV6381-2BT08-1AX0 6AV6381-2BT08-1AH0
WinCC V8.1 RC Unlimited PowerTags (RC Unlimited) (as of V8.1)	DVD Download	6AV6381-2BU08-1AX0 6AV6381-2BU08-1AH0



Graphic effects

## SIMATIC WinCC V8.1 Powerpacks for Runtime (RT) Packages

### Used to increase Runtime PowerTag license

128 to 512 PowerTags	Download	6AV6371-2BD08-1AJ0
512 to 2048 PowerTags	Download	6AV6371-2BG08-1AJ0
2048 to 8K PowerTag	Download	6AV6371-2BM08-1AJ0
8K to 64K PowerTag	Download	6AV6371-2BN08-1AJ0
64K to 100K PowerTag	Download	6AV6371-2BP08-1AJ0
100K to 150K PowerTag	Download	6AV6371-2BQ08-1AJ0

# SIMATIC WinCC Scada Software

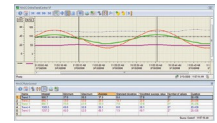


Material Type	Order No
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## SIMATIC WinCC V8.1 for Powerpacks, Complete (RC) Packages

**Used to increase the complete DVDPowerTag license**

PowerTag Range	Download	Order No
128 to 512 PowerTags	Download	6AV6371-2BD18-1AJ0
512 to 2048 PowerTags	Download	6AV6371-2BG18-1AJ0
2048 to 8K PowerTag	Download	6AV6371-2BM18-1AJ0
8K to 64K PowerTag	Download	6AV6371-2BN18-1AJ0
64K to 100K PowerTag	Download	6AV6371-2BP18-1AJ0
100K to Unlimited PowerTag	Download	6AV6371-2BQ18-1AJ0

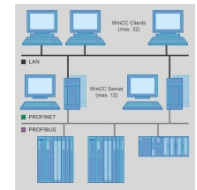


WinCC Trend Control Statistical Analysis

## SIMATIC WinCC V8.1 Archive Packages

WinCC is used to increase archiving capacity. Archive Tag licenses used on the same PC are collected. The 512 archive tags in the main package are not included in this scope.

Archive Tag	DVD / Download	Order No
1500 Archive Tag	DVD / Download	6AV6371-1DQ10-0AX0 / 6AV6371-1HQ10-0AX0
5000 Archive Tag	DVD / Download	6AV6371-1DQ10-0BX0 / 6AV6371-1HQ10-0BX0
10.000 Archive Tag	DVD / Download	6AV6371-1DQ10-0CX0 / 6AV6371-1HQ10-0CX0
30.000 Archive Tag	DVD / Download	6AV6371-1DQ10-0EX0 / 6AV6371-1HQ10-0EX0



WinCC/Server

## SIMATIC WinCC V8.1 Upgrades\*

Upgrade Description	DVD / Download	Order No
For RT station upgrade from V7.4/7.5 to V8.1	DVD / Download	6AV6381-2AA08-1AX3 / 6AV6381-2AA08-1AK3
For RT station upgrade from V8.0 to V8.1	DVD / Download	6AV6381-2AA08-1AX4 / 6AV6381-2AA08-1AK4
For RT Client station upgrade from V7.4/7.5 to V8.1	DVD / Download	6AV6381-2CA08-1AX3 / 6AV6381-2CA08-1AK3
For RT Client station upgrade from V8.0 to V8.1	DVD / Download	6AV6381-2CA08-1AX4 / 6AV6381-2CA08-1AK4
For RC station upgrade from V7.4/7.5 to V8.1	DVD / Download	6AV6381-2AB08-1AX3 / 6AV6381-2AB08-1AK3
For RC station upgrade from V8.0 to V8.1	DVD / Download	6AV6381-2AB08-1AX4 / 6AV6381-2AB08-1AK4
For RC Client station upgrade from V7.4/7.5 to V8.1	DVD / Download	6AV6381-2CB08-1AX3 / 6AV6381-2CB08-1AK3
For RC Client station upgrade from V8.0 to V8.1	DVD / Download	6AV6381-2CB08-1AX4 / 6AV6381-2CB08-1AK4

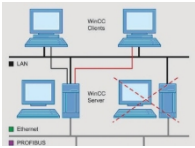
\* WinCC V8.1 RT and RC Upgrade licenses include base option upgrade licenses (Datamonitor, Connectivity Pack, Connectivity Station RT/RC, WebNavigator, User Archives, Server, Redundancy)



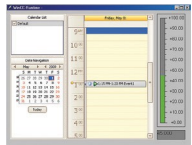
# SIMATIC WinCC Scada Software Options



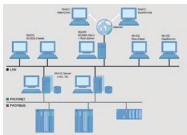
Configure Now



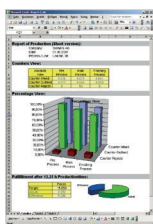
WinCC/Redundancy



SIMATIC WinCC/Calendar Scheduler



WinCC/Web Navigator



WinCC DataMonitor Excel Workbooks

Material Type	Order No	
<b>SIMATIC WinCC V8.1 Options</b>		
WinCC/Server V8.1 is used for Server Client structure, RT Client or RC Client license is sufficient for Client traffic, Windows 10 or Windows 11 is required if the number of Clients is 3, Windows Server operating system is required if the number of Clients is more than 3.	DVD Download	6AV6371-1CA08-1AX0 6AV6371-1HA08-1AX0
WinCC/Redundancy V8.1, used for redundant WinCC stations, automatic Client replacement and automatic archive update, one license is enough for redundant WinCC station pair	DVD Download	6AV6371-1CF08-1AX0 6AV6371-1HF08-1AX0
WinCC/User Archives V8.1, used for Recipe functions	DVD Download	6AV6371-1CB08-1AX0 6AV6371-1HB08-1AX0
SIMATIC WinCC/Calendar Scheduler V8.1 is used for the scheduling and configuration of complex, date-based recurring events with a calendar-based interface	DVD Download	6AV6372-1DC08-1AX0 6AV6372-1HC08-1AX0
SIMATIC WinCC/Event Notifier V8.1 is used to send time-based notifications by e-mail to the relevant personnel, escalation levels can be set	DVD Download	6AV6372-1DD08-1AX0 6AV6372-1HD08-1AX0
SIMATIC WinCC/ProAgent V8.1	DVD Download	6AV6371-1DG08-1AX0 6AV6371-1HG08-1AX0
WinCC/ODK V8.1 (Open Development Kit)	DVD Download	6AV6371-1CC08-1AX0 6AV6371-1GC08-1AX0
SIMATIC WinCC/Cloud Connect V8.1	DVD Download	6AV6362-5AA08-1BB0 6AV6362-5AA08-1AH0
SIMATIC WinCC/Rest connect V8.1 is used for data transfer to the IT layer.	DVD Download	6AV6362-6AA08-1BB0 6AV6362-6AA08-1AH0
SIMATIC ProDiag is a diagnostic management software for processes and machines. In case of malfunction, it is possible to get information about the current status of the process, if necessary, to see the ladder or graph program code without a programming device and to intervene quickly in the system. It is used for V14/V7.4 and higher versions.	DVD Download	6AV2107-0UB00-0BB0 6AV2107-0UB00-0BH0
SIMATIC WinCC Sinumerik 840 Channel	DVD Download	6AV9681-1AA22-4AX0 6AV9681-1AA22-4AH0

<b>SIMATIC WinCC WebNavigator</b>		
Used for process monitoring and control via internet or intranet, for V14/V7.4 and higher versions.		
SIMATIC WinCC WebNavigator, for WinCC V7.4 and higher, 1 user at a time license	DVD Download	6AV6362-1AB00-0BB0 6AV6362-1AB00-0AH0
SIMATIC WinCC WebNavigator, for WinCC V7 and above, license for 3 simultaneous users	DVD Download	6AV6362-1AD00-0BB0 6AV6362-1AD00-0AH0
SIMATIC WinCC WebNavigator, for WinCC V7 and above, license for 10 simultaneous users	DVD Download	6AV6362-1AF00-0BB0 6AV6362-1AF00-0AH0
SIMATIC WinCC WebNavigator, for WinCC V7 and above, license for 30 simultaneous users	DVD Download	6AV6362-1AJ00-0BB0 6AV6362-1AJ00-0AH0
SIMATIC WinCC WebNavigator, for WinCC V7 and above, for 100 simultaneous users license	DVD Download	6AV6362-1AM00-0BB0 6AV6362-1AM00-0AH0
SIMATIC WinCC WebNavigator Diagnostics Client	DVD Download	6AV6362-1BA00-0BB0 6AV6362-1BA00-0AH0

<b>SIMATIC WinCC DataMonitor</b>		
It consists of WebCenter, a tool for creating a web portal using WinCC data over the Internet or intranet, WinCC ViewerRT for monitoring Scada pages, Published Reports for receiving reports in Excel and pdf format, Trends&Alarms, a WinCC process and alarm archive tool, and Excel Workbooks, an Excel analysis and report tool using WinCC current values, process and alarm archive data. It is used for V14/V7.4 and higher versions.		
SIMATIC WinCC DataMonitor, for WinCC V7.4 and above, 1 user at a time license	DVD Download	6AV6362-3AB00-0BB0 6AV6362-3AB00-0AH0
SIMATIC WinCC DataMonitor, for WinCC V7.4 and above, license for 3 simultaneous users	DVD Download	6AV6362-3AD00-0BB0 6AV6362-3AD00-0AH0
SIMATIC WinCC DataMonitor, for WinCC V7.4 and above, license for 10 simultaneous users	DVD Download	6AV6362-3AF00-0BB0 6AV6362-3AF00-0AH0
SIMATIC WinCC DataMonitor, for WinCC V7.4 and above, license for 30 simultaneous users	DVD Download	6AV6362-3AJ00-0BB0 6AV6362-3AJ00-0AH0

# SIMATIC WinCC Scada Software Options



Material Type	Order No
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## WinCC WebUX

It is used for monitoring and controlling the process over the Internet or intranet from mobile terminal devices as well as from a computer. It can be used with browsers that support HTML5, independent of the operating system. Direct connection, tag connection, Vbscript, C-Script and WebUX compatible objects (e.g. alarm and trend control) are supported. WinCC Runtime Professional license includes WebUX monitor license with 1 user at the same time. Used for V14/V7.3 and higher versions.



WinCC WebUX

Monitor license with 1 user at the same time	DVD Download	6AV6362-2AB00-0BB0 6AV6362-2AB00-0AH0
Monitor license with 3 users at the same time	DVD Download	6AV6362-2AD00-0BB0 6AV6362-2AD00-0AH0
Monitor license with 10 simultaneous users	DVD Download	6AV6362-2AF00-0BB0 6AV6362-2AF00-0AH0
Monitor license with unlimited users (as of V8.1)	DVD Download	6AV6362-2AU00-0BB0 6AV6362-2AU00-0AH0
Operate license with 1 user at the same time	DVD Download	6AV6362-2BB00-0BB0 6AV6362-2BB00-0AH0
Operate license with 3 users at the same time	DVD Download	6AV6362-2BD00-0BB0 6AV6362-2BD00-0AH0
Operate license with 10 simultaneous users	DVD Download	6AV6362-2BF00-0BB0 6AV6362-2BF00-0AH0
Web Operate License (WebUX+ WebNav) operate license with unlimited users (as of V8.1)	DVD Download	6AV6362-1AU00-0BB0 6AV6362-1AU00-0AH0

## WinCC WebNavigator V8.1 Load Balancing Licenses

WinCC/Web Load Balancing (License for 2 Web Servers)	DVD Download	6AV6362-1FA00-0BB0 6AV6362-1FA00-0AH0
WinCC/Web Load Balancing StepUp (License for 2 Web Servers) For WinCC Redundancy V7.4 or higher version runtime software	DVD Download	6AV6362-1GA00-0BB0 6AV6362-1GA00-0AH0



WinCC/Web Navigator WebViewer Runtime

## WinCC PerformanceMonitor V8.1

**PerformanceMonitor** enables flexible calculation and analysis of plant-specific KPI (Key Performance Indicator) parameters. The basic package includes a configuration editor and runtime control objects (bar graph, gant chart, table). With SIMATIC Information Server WinCC/Performance, web-based reports can be generated (template reports can be extended if desired).

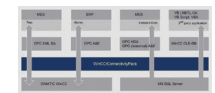
WinCC/PerformanceMonitor V8.1 Basic. 30 PerformanceMonitor archive tags included. Collects archive tag licenses used on the same PC.	DVD Download	6AV6372-2DG08-1AA0 6AV6372-2HG08-1AA0
30 PerformanceMonitor archive tag	DVD Download	6AV6372-2CG20-0BA0 6AV6372-2JG20-0BA0
100 PerformanceMonitor archive tag	DVD Download	6AV6372-2CG20-0CA0 6AV6372-2JG20-0CA0
300 PerformanceMonitor archive tag	DVD Download	6AV6372-2CG20-0DA0 6AV6372-2JG20-0DA0
1000 PerformanceMonitor archive tag	DVD Download	6AV6372-2CG20-0EA0 6AV6372-2JG20-0EA0
For WinCC PerformanceMonitor V8.0 -> WinCC PerformanceMonitor 8.1 Upgrade	DVD Download	6AV6372-2DG08-1AX4 6AV6372-2KG08-1AX4



WinCC/Performance Monitor

## WinCC Connectivity Pack and IndustrialDataBridge

WinCC Connectivity Pack V8.1, OPC XML DA, A&E, HDA support, with OPC UA process data and process archive, alarm and process archive via WinCC OLE DB archive is used to access user archive. Collaboration for WinCC Unified is also required to use the feature. Import and export of data from the OT layer to the IT layer REST for exchange and Cloud connector for sending data to the Cloud platform also licenses.	DVD Download	6AV6371-1DR08-1AX0 6AV6371-1HR08-1AX0
WinCC Connectivity Station V8.1 as a point of access to WinCC archive data used, no WinCC RT and RC installation required	DVD Download	6AV6371-1DR18-1AX0 6AV6371-1HR18-1AX0
WinCC IndustrialDataBridge V8.1, OPC, SQL/OLE - DB/ODBC with databases and TCP data exchange, WinCC current values, alarm, process and user archive access, option to write to excel	DVD Download	6AV6362-4AA08-1AA0 6AV6362-4AA08-1AH0
WinCC IndustrialDataBridge V8.1, Basic DVD100 Tag	DVD Download	6AV6362-4AD00-0BB0 6AV6362-4AD00-0AH0
300 Tag	DVD Download	6AV6362-4AF00-0BB0 6AV6362-4AF00-0AH0
1,000 Tag	DVD Download	6AV6362-4AH00-0BB0 6AV6362-4AH00-0AH0
3.000 Tag	DVD Download	6AV6362-4AA08-1AE1 6AV6362-4AA08-1AK1
WinCC IndustrialDataBridge V8.0->8.1 Upgrade	DVD Download	6AV6362-4AA08-1AE1 6AV6362-4AA08-1AK1



WinCC/Connectivity Pack



WinCC/Industrial DataBridge

# SIMATIC WinCC Scada Software Options



Configure Now



WinCC/FDA Options

Material Type	Order No	
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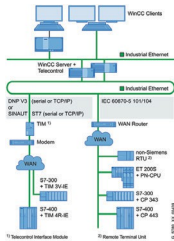
## WinCC V8.1 FDA Options

WinCC FDA options are used for electronically signed recording of changes to the process and WinCC configuration on a user-by-user basis in accordance with the FDA (American Food and Drug Administration) specification 21 CFR Part 11.

WinCC Audit RT V8.1 for the creation of Audit records in RT	DVD Download	6AV6371-1DV08-1AX0 6AV6371-1HV08-1AX0	
WinCC Audit RC V8.1 is the base for Audit trail (RT and Projecting) configuration package, RT/Projecting software. WinCC ChangeControl V8.0 is included.	DVD Download	6AV6371-1DV18-1AX0 6AV6371-1HV18-1AX0	
WinCC ChangeControl V8.1, project version management	DVD Download	6AV6371-1DV28-1AX0 6AV6371-1HV28-1AX0	
WinCC Audit RT Server (required for each server.)	DVD Download	6AV6371-1DV38-1AX0 6AV6371-1HV38-1AX0	
WinCC Audit RC Base, the base for Audit trail (RT and Projecting) configuration package, RT/Projecting software. WinCC ChangeControl V8.1 is not included.	DVD Download	6AV6371-1DV48-1AX0 6AV6371-1HV48-1AX0	
WinCC Audit RT Server PowerPack (Version-independent Audit RT->Audit RT Server license)	DVD Download	6AV6371-1BV38-1AX0 6AV6371-1JV38-1AX0	
For WinCC Audit RT V8.0 -> V8.1 Upgrade	DVD Download	6AV6371-1DV08-1BX4 6AV6371-1KV08-1BX4	
For SIMATIC WinCC Audit RC/Change Control V8.0 -> V8.1 Upgrade	DVD Download	6AV6371-1DV18-1BX4 6AV6371-1KV18-1BX4	

## SIMATIC TeleControl V8.0

Used for connection of SIMATIC TeleControl V7.5/V8.0 RTU units to WinCC V8.0 and WinCC V7.5 scada system with telecontrol protocols. SINAUT ST7 supports IEC 60870-5 101/104, DNP 3 protocols. It can be used in single station, server and redundant server structures.



SIMATIC Telecontrol

SIMATIC TeleControl V7.5/V8.0 WinCC Basic Engineering Project Design Package	DVD Download	6DL5000-7AA57-0XA5 6DL5000-7AA57-0XH5	
SIMATIC TeleControl V7.5/V8.0 WinCC Server Runtime (6 stations)	DVD Download	6DL5002-7AA57-0XA0 6DL5002-7AA57-0XH0	
SIMATIC TeleControl V7.5/V8.0 WinCC Server Runtime (12 stations)	DVD Download	6DL5002-7AB57-0XA0 6DL5002-7AB57-0XH0	
SIMATIC TeleControl V7.5/V8.0 WinCC Server Runtime (256 stations)	DVD Download	6DL5002-7AE57-0XA0 6DL5002-7AE57-0XH0	
TeleControlSINAUT Driver for single station or server station	DVD Download	6DL5101-8AX00-0XB0 6DL5101-8AX00-0XH0	
TeleControlDNP3 Driver for single station or server station	DVD Download	6DL5101-8EX00-0XB0 6DL5101-8EX00-0XH0	
TeleControlIEC 870-5-101/104, for single station or server station	DVD Download	6DL5101-8CX00-0XB0 6DL5101-8CX00-0XH0	
SIMATIC TeleControl V7.5/V8.0 Upgrade V7.4->V7.5	DVD Download	6DL5002-7AA57-0XE0 6DL5002-7AA57-0XH0	

# Power Management Software



Material Type	Order No
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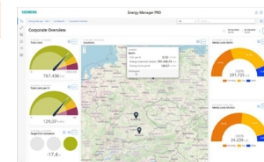
## SIMATIC Energy Manager Basic V7.5

Energy Manager Basic is a modular, sector independent, web configurable, basic level energy management and information management system for industrial plants. Configuration of data points and dashboards, charts and reports via OPC UA, OPC DA, OPC HDA, Energy Suite, WinCC / PCS 7, Modbus TCP, DesigoCC, ASCII is possible. Energy Manager Basic Starter Package includes 1 data acquisition component, Web-Client, Projecting/Runtime software. You can access the detailed operating system compatibility table from the link. <https://support.industry.siemens.com/compatool/#/main/start>

SIMATIC Energy Manager V7.5, Basic Starter Pack (50 tags)	DVD Download	6AV6372-1DF07-5AX0 6AV6372-1DF07-5AH0
SIMATIC Energy Manager V7.5, PowerPack Basic->PRO	Download	6AV6372-2DF00-0AH3

## SIMATIC Energy Manager PRO V7.5

Energy Manager PRO is a modular, sector-independent energy management and management information system for industrial plants. Connection of data points via OPC UA, OPC DA, OPC HDA, Energy Suite, WinCC / PCS 7, Modbus TCP, DesigoCC, ASCII, connection of machines via S7 Energy Efficiency Monitor and configuration of dashboards, charts and reports are possible. Manager PRO Starter Package 1 data acquisition component, Client, Web-Client Projecting/Runtime software. You can access the detailed operating system compatibility table from the link. <https://support.industry.siemens.com/compatool/#/main/start>



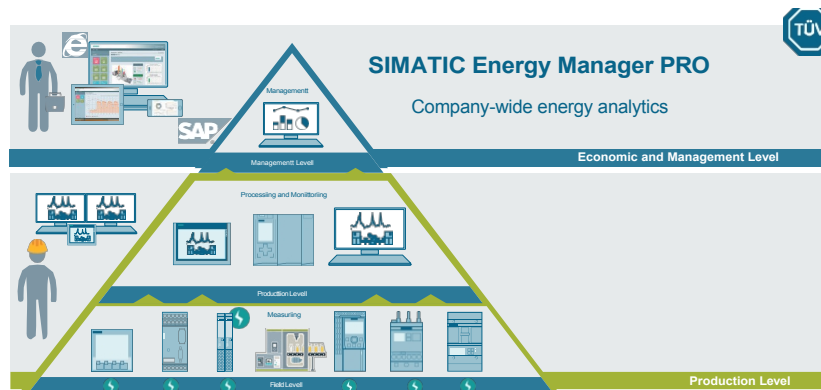
SIMATIC Energy Manager V7.5, PRO Starter Pack (50 tags)	DVD Download	6AV6372-2DF07-5AX0 6AV6372-2DF07-5AH0
SIMATIC Energy Manager V7.5, Tag Pack 50**	DVD Download	6AV6372-2DF07-0CX0 6AV6372-2DF07-0CH0
SIMATIC Energy Manager V7.5, Tag Pack 100 **	DVD Download	6AV6372-2DF07-0DX0 6AV6372-2DF07-0DH0
SIMATIC Energy Manager V7.5, Tag Pack 250 **	DVD Download	6AV6372-2DF07-0EX0 6AV6372-2DF07-0EH0
SIMATIC Energy Manager V7.5, Tag Pack 500 **	DVD Download	6AV6372-2DF07-0FX0 6AV6372-2DF07-0FH0
SIMATIC Energy Manager V7.5, Tag Pack 1000 **	DVD Download	6AV6372-2DF07-0GX0 6AV6372-2DF07-0GH0
SIMATIC Energy Manager V7.5, Tag Pack 5000 **	DVD Download	6AV6372-2DF07-0HX0 6AV6372-2DF07-0HH0
SIMATIC Energy Manager V7.5, Tag Pack 30,000 **	DVD Download	6AV6372-2DF07-0JX0 6AV6372-2DF07-0JH0
SIMATIC Energy Manager V7.5, up to SUS 50 Tag ***	DVD Download	6AV6372-2DF00-0CL0 6AV6372-2DF00-0CY0
SIMATIC Energy Manager V7.5, up to SUS 100 Tag ***	DVD Download	6AV6372-2DF00-0DL0 6AV6372-2DF00-0DY0
SIMATIC Energy Manager V7.5, up to SUS 500 Tag ***	DVD Download	6AV6372-2DF00-0FL0 6AV6372-2DF00-0FY0
SIMATIC Energy Manager V7.5, up to SUS 5000 Tag ***	DVD Download	6AV6372-2DF00-0HL0 6AV6372-2DF00-0HY0
SIMATIC Energy Manager V7.5, up to SUS 6000 Tag ***	DVD Download	6AV6372-2DF70-0XL0 6AV6372-2DF70-0XY0

\*\*\*New software versions will be sent with SUS (Software Update Service) for 1 year. If not canceled 3 months before the end of the term, the agreement is automatically extended for 1 year for a fee."

## SIMATIC WinCC Energy Manager PRO V7.5 Expansion Packs

The SIMATIC WinCC Energy Manager functions can be extended with the following packages.

SIMATIC Energy Manager V7.5, 3 WEB Client	DVD Download	6AV6372-2DF27-0AX0 6AV6372-2DF27-0AH0
SIMATIC Energy Manager V7.5, 20 WEB Client	DVD Download	6AV6372-2DF27-0BX0 6AV6372-2DF27-0BH0
SIMATIC Energy Manager V7.5, 60 WEB Client	DVD Download	6AV6372-2DF27-0CX0 6AV6372-2DF27-0CH0
SIMATIC Energy Manager V7.5, Client	DVD Download	6AV6372-2DF37-0AX0 6AV6372-2DF37-0AH0
SIMATIC Energy Manager V7.5, Data import component	DVD Download	6AV6372-2DF57-0AX0 6AV6372-2DF57-0AH0
SIMATIC Energy Manager V7.5, Forward forecasting and planning	DVD Download	6AV6372-2DF47-0AX0 6AV6372-2DF47-0AH0



# Power Management Software

Material Type	Order No
<b>SIMATIC WinCC Energy Manager PRO Consumer</b>	
Consumer Pack 1, Including S7 EE-Monitor	DVD 6AV6372-2DF67-1AX0 Download 6AV6372-2DF67-1AH0
Consumer Pack 5, Including S7 EE-Monitor	DVD 6AV6372-2DF67-1BX0 Download 6AV6372-2DF67-1BH0
Consumer Pack 25, Including S7 EE-Monitor	DVD 6AV6372-2DF67-1CX0 Download 6AV6372-2DF67-1CH0
Consumer Pack 1, Excluding S7 EE-Monitor	DVD 6AV6372-2DF77-1AX0 Download 6AV6372-2DF77-1AH0
Consumer Pack 5, Excluding S7 EE-Monitor	DVD 6AV6372-2DF77-1BX0 Download 6AV6372-2DF77-1BH0
Consumer Pack 25, Excluding S7 EE-Monitor	DVD 6AV6372-2DF77-1CX0 Download 6AV6372-2DF77-1CH0





# SIMOTION / SIMATIC

## Motion Control Units

# Motion Control Units



Reference	Description
<b>SIMOTION D4XX Motion Controllers</b>	
6AU1410-2AA00-0AA0	SIMOTION D410-2 DP 1 Axis, 5DI, 8 DI/DO, 3 F-DI, 1 F-DO, 1 AI 1 Encoder, 1 Drive-Cliq, 2 PROFIBUS, 1 Ethernet
6AU1410-2AD00-0AA0	SIMOTION D410-2 DP/PN1 Axis, 5DI, 8 DI/DO, 3 F-DI, 1 F-DO, 1 AI 1 Encoder, 1 Drive-Cliq, 1 PROFIBUS, 2 PROFINET Ports, 1 Ethernet
6AU1425-2AA00-0AA0	SIMOTION D425-2 16 Axis, 12DI, 16 DI/DO 4 Drive-Cliq, 2 PROFIBUS, 3 Ethernet, 2 USB, 1 Option Slot
6AU1425-2AD00-0AA0	SIMOTION D425-2 16 Axis, 12DI, 16 DI/DO 4 Drive-Cliq, 2 PROFIBUS, 3 PROFINET Ports, 2 Ethernet, 2 USB, 1 Option Slot
6AU1435-2AA00-0AA0	SIMOTION D435-2 32 Axis, 12DI, 16 DI/DO 6 Drive-Cliq, 2 PROFIBUS, 3 Ethernet, 2 USB, 1 Option Slot
6AU1435-2AD00-0AA0	SIMOTION D435-2 32 Axis, 12DI, 16 DI/DO 6 Drive-Cliq, 2 PROFIBUS, 3 PROFINET Ports, 2 Ethernet, 2 USB, 1 Option Slot
6AU1435-2AD00-0AA2****	SIMOTION D435-2 32 Axis, 12DI, 16 DI/DO 6 Drive-Cliq, 2 PROFIBUS, 3 PROFINET Ports, 2 Ethernet, 2 USB, 1 Option Slot (used with 8GB sd card with code 6AU1400-3SA20-0AA0)
6AU1455-2AD00-0AA0****	SIMOTION D455-2 64 Axis High Performance, 12DI, 16 DI/DO 6 Drive-Cliq, 2 PROFIBUS, 3 PROFINET Port, 2 Ethernet, 2 USB, 1 Option Slot (used with 8GB sd card with code 6AU1400-3SA20-0AA0)
6AU1400-1QA20-0AA0***	Memory Card Compact Flash Card for SIMOTION D410-2 with SINAMICS drive and SIMOTION kernel with current firmware files, 1GB
6AU1400-2QA20-0AA0*	Memory Card Compact Flash for SIMOTION D4X5-2, 1GB SINAMICS drive and SIMOTION kernel with updated firmware files. Compatible with 6AU1400-2PA23-0AA0.
6AU1432-2AA00-0AA0 **	SIMOTION Drive-based Controller Extension CX32-2; inverter control module; to increase drive count on SIMOTION D4x5-2; interfaces: 6 DI, 4 DI/DO, 4 DRIVE-CLIQ
6AU1400-3SA20-0AA0*	SIMOTION 8GB SD-Card

\* For Multi axis license, -Z+M42 for D425, -Z+M43 for D435, -Z+M44 for D445 and 455 must be added to the end of the product code depending on the type of the related product. Necessary selections can be made via Sizer.

\*\* Up to 6 vector or servo drives can be added with each CX32. Drive cliq ports are used for expansion.

\*\*\* For Multi axis license, add -Z+M41 to the end of the relevant product code

\*\*\*\* New design D435 and D455 are used with 8GB SD card with code 6AU1400-3SA20-0AA0.

<b>SIMOTION SCOUT Engineering Software</b>	
6AU1810-1BA56-1XE0	SIMOTION SCOUT&TIA SCOUT Engineering Software V5.6, installation DVD and upgrade license
6AU1810-1BA56-1XA0	SIMOTION SCOUT&TIA SCOUT Engineering Software V5.6, installation DVD and license
6AU1810-1BA56-0XK5	SIMOTION SCOUT&TIA SCOUT Engineering Software V5.6 upgrade license, OSD ** email address required for submission.
6AU1810-1BA56-0XH5	SIMOTION SCOUT&TIA SCOUT Engineering Software V5.6, OSD ** email address for submission is required

Note : With the Tia Selection Tool, CPU selections can be made depending on the number of axes, fast input and output, glass curve and encoder to be used.

\* Can be ordered with 128, 512, 2048 Power Tag Wincc Advanced Runtime license by changing the letter in parentheses. K : 128 Power Tag, L : 512 Power Tag, M : 2048 Power Tag

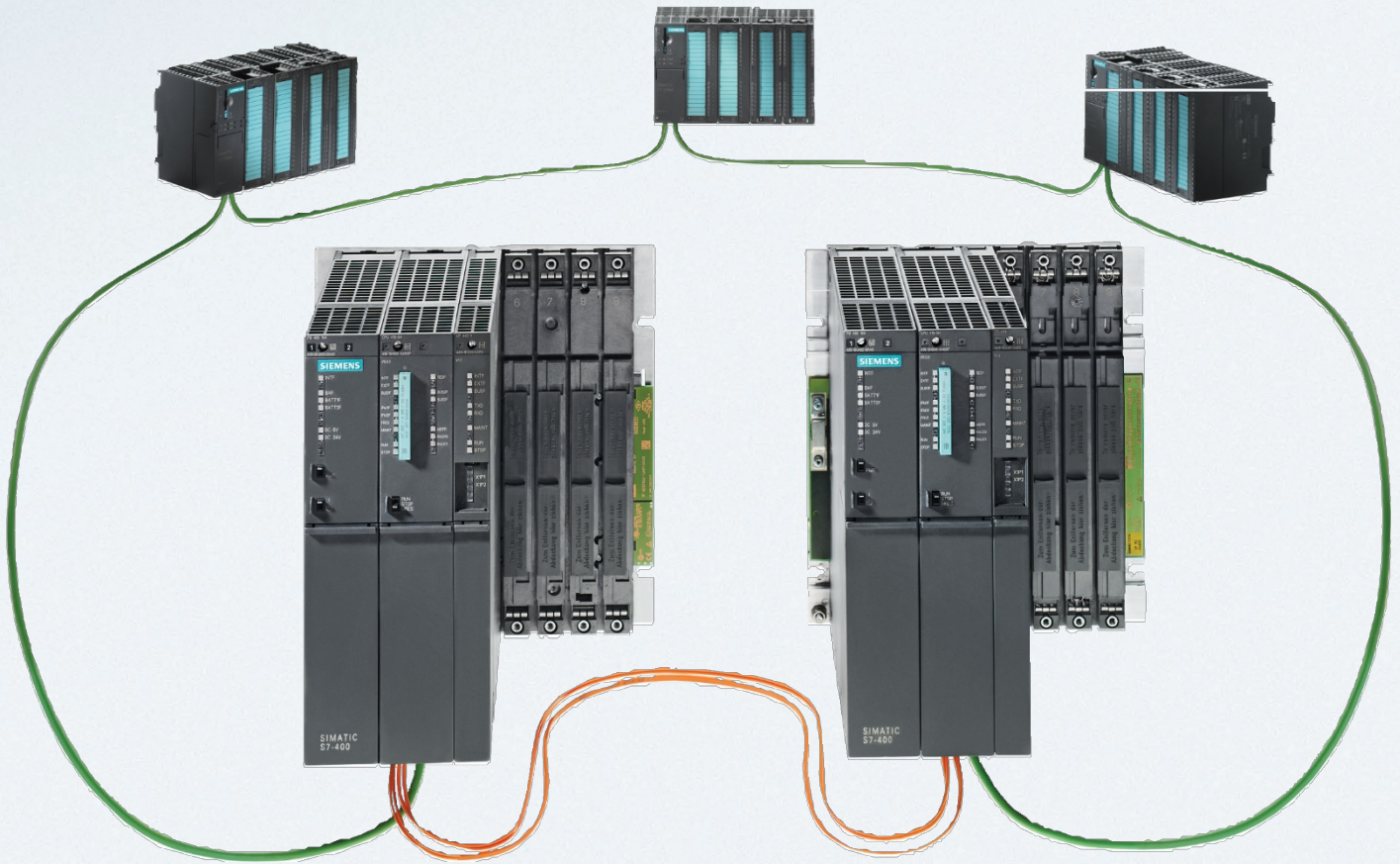
# SIMATIC Motion Control Units

Reference	Description	
<b>SIMATIC S7-1500T Technology CPU</b>		
6ES7511-1TL03-0AB0	SIMATIC S7-1500T, CPU 1511T-1 PN, 450 KB program + 1.5 MB data memory (SIMATIC memory card required), PROFINET IRT x 2 port switch, 25 ns bit performance	
6ES7511-1UL03-0AB0	SIMATIC S7-1500T, CPU 1511TF-1 PN, 450 KB program + 1.5 MB data memory (SIMATIC memory card required), PROFINET IRT x 2 port switch, 25 ns bit performance	
6ES7515-2TN03-0AB0	SIMATIC S7-1500T, CPU 1515T-2 PN, 1.5 MB program + 4.5 MB data memory (SIMATIC memory card required), PROFINET IRT x 2 port switch+ PROFINET RT x 1 port, 6 ns bit performance	
6ES7515-2UN03-0AB0	SIMATIC S7-1500T, CPU 1515TF-2 PN, 1.5 MB program + 4.5 MB data memory (SIMATIC memory card required), PROFINET IRT x 2 port switch+ PROFINET RT x 1 port, 6 ns bit performance	
6ES7516-3TP10-0AB0*	SIMATIC S7-1500T, CPU 1516T-3 PN, 3 MB program+ 25 MB data memory (SIMATIC memory card required),PROFINET IRT x 2 port switch+ PROFINET IRT x 2 port+ Profinet 1 port, 1.2 ns bit performance	
6ES7516-3UP10-0AB0*	SIMATIC S7-1500T, CPU 1516TF-3 PN, 3 MB program+ 25 MB data memory (SIMATIC memory card required),PROFINET IRT x 2 port switch+ PROFINET IRT x 2 port+ PROFINET 1 port, 1.2 ns bit performance	
6ES7517-3TQ10-0AB0*	SIMATIC S7-1500T, CPU 1517T-3 PN, 6 MB program+ 50 MB data memory (SIMATIC memory card required),PROFINET IRT x 2 port switch+ PROFINET IRT x 2 port+ Profinet 1 port, 0.6 ns bit performance	
6ES7517-3UQ10-0AB0*	SIMATIC S7-1500T, CPU 1517TF-3 PN, 6 MB program+ 50 MB data memory (SIMATIC memory card required),PROFINET IRT x 2 port switch+ PROFINET IRT x 2 port+ Profinet 1 port, 0.6 ns bit performance	
6ES7518-3TT10-0AB0*	SIMATIC S7-1500T, CPU 1518T-3 PN, 18 MB program + 150 MB data memory (SIMATIC memory card required), PROFINET IRT x 2 port switch, + PROFINET IRT x 2 port+ Profinet 1 port, 0.3 ns bit performance	
6ES7518-3UT10-0AB0*	SIMATIC S7-1500T, CPU 1518TF-3 PN, 18 MB program+ 150 MB data memory (SIMATIC memory card required), PROFINET IRT x 2 port switch, + PROFINET IRT x 2 port+ Profinet 1 port, 0.3 ns bit performance	
6ES7514-2VN03-0AB0	SIMATIC DP, CPU 1514SP T-2 PN, 900 KB program+ 3.5 MB data memory (SIMATIC memory card and bus adapter required), PROFINET IRT x 2 port switch+ PROFINET RT x 1 port, 6 ns bit performance	
6ES7514-2WN03-0AB0	SIMATIC DP, CPU 1514SP TF-2 PN, 900 KB program+ 3.5 MB data memory (SIMATIC memory card and bus adapter required), PROFINET IRT x 2 port switch+ PROFINET RT x 1 port, 6 ns bit performance	
6ES7677-2VB42-0GB1	SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 T, 8 GB RAM, 128 GB CFast Windows 10 LTSC 2021 64-bit and S7-1500 Software Controller CPU 1505SP T pre-installed, Interfaces: 1x Slot CFast, 1x slot SD/MMC, 1x slot ET 200SP bus Adapter PROFINET, 1x 10/100/1000 Mbit/s Ethernet, 2x USB 3.0, 2x USB 2.0, 1x display port, CFast card installed, CFast Restore image and documentation. Supports up to fw30.0.	
6ES7677-2WB42-0GB1	SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 TF, 8 GB RAM, 128 GB CFast Windows 10 LTSC 2021 64-bit and S7-1500 Failsafe Software Controller CPU 1505SP T pre-loaded, Interfaces: 1x Slot CFast, 1x slot SD/MMC, 1x slot ET 200SP bus Adapter PROFINET, 1x 10/100/1000 Mbit/s Ethernet, 2x USB 3.0, 2x USB 2.0, 1x display port, CFast card installed, CFast Restore image and documentation. Supports up to fw30.0.	
6ES7615-4DF10-0AB0	SIMATIC S7-1500, Drive Controller CPU 1504D TF, integrated SINAMICS S120; Interfaces: 12 DI, 16 DI/DQ, 4 DRIVE-CLIQ, 3 PROFINET: 3+1+1+1 ports, 1 PROFIBUS, SIMATIC memory card required.	
6ES7615-7DF10-0AB0	SIMATIC S7-1500, Drive Controller CPU 1507D TF, integrated SINAMICS S120; Interfaces: 12 DI, 16 DI/DQ, 4 DRIVE-CLIQ, 3 PROFINET: 3+1+1+1 ports, 1 PROFIBUS, SIMATIC memory card required.	

**New**



Note : With the Tia Selection Tool, CPU selections can be made depending on the number of axes, fast input and output, glass curve and encoder to be used.  
 \* Previous 1516T/TF, 1517T/TF and 1518T/TF CPU versions continue to be sold as spare parts as of the 6th month.



# S7 400 H PROFINET REDUNDANT System





# SIMATIC S7-400



S7 400 PLC

Material Type				Order No
<b>SIMATIC S7-400 Modular CPU</b>				
CPU 412-1 DP	2 x 256 Kb	MPI / DP	FW.V7	6ES7412-1XJ07-0AB0
CPU 412-2 DP	2 x 512 Kb	MPI / DP, PROFIBUS DP	FW.V7	6ES7412-2XK07-0AB0
CPU 412-2 PN/DP**	2 x 512 Kb	MPI/DP, PROFINET (2 ports)	FW.V7	6ES7412-2EK07-0AB0
CPU 414-2 DP	2 x 1 MB	MPI / DP, PROFIBUS DP	FW.V7	6ES7414-2XL07-0AB0
CPU 414-3 DP	2 x 2 MB	MPI/DP, PROFIBUS DP, 1 x IF slot*	FW.V7	6ES7414-3XM07-0AB0
CPU 414-3 PN/DP**	2 x 2 MB	MPI/DP, PROFINET (2 ports), 1 x IF slot*	FW.V7	6ES7414-3EM07-0AB0
CPU 416-2 DP	2 x 4 MB	MPI / DP, PROFIBUS DP	FW.V7	6ES7416-2XP07-0AB0
CPU 416-3 DP	2 x 8 MB	MPI/DP, PROFIBUS DP, 1 x IF slot*	FW.V7	6ES7416-3XS07-0AB0
CPU 416-3 PN/DP**	2 x 8 MB	MPI/DP, PROFINET (2 ports), 1 x IF slot*	FW.V7	6ES7416-3ES07-0AB0
CPU 417-4 DP	2 x 15 MB	MPI/DP, PROFIBUS DP, 2 x IF slots*	FW.V7	6ES7417-4XT07-0AB0
*IF 964 DP, PROFIBUS DP Communication Module (Master / Slave)				6ES7964-2AA04-0AB0

\*\* Integrated WEB Server feature



<b>SIMATIC S7-400 H/F/FH CPU for safety and redundant applications)</b>				
CPU 414F-3 PN/DP**	2 x 2 MB	MPI/DP, PROFINET (2 ports), 1 x IF slot*		6ES7414-3FM07-0AB0
CPU 416F-2 DP	2 x 4 MB	MPI / DP, PROFIBUS DP		6ES7416-2FP07-0AB0
CPU 416F-3 PN/DP**	2 x 8 MB	MPI/DP, PROFINET (2 ports), 1 x IF slot*		6ES7416-3FS07-0AB0
*IF 964 DP, PROFIBUS DP Communication Module (Master / Slave)				6ES7964-2AA04-0AB0
** Integrated WEB Server feature				
S7 F Dist. Safety V5.4 Failsafe Programming Software for F-CPU				6ES7833-1FC02-0YA5
CPU 412-5 H PN/DP***	2 x 512 Kb	MPI/DP, DP, DP, PROFINET (2 ports), 2 x Sync##		6ES7412-5HK06-0AB0
CPU 414-5 H PN/DP***	2 x 2 MB	MPI/DP, DP, DP, PROFINET (2 ports), 2 x Sync##		6ES7414-5HM06-0AB0
CPU 416-5 H PN/DP*** 6	+ 10 MB	MPI/DP, DP, DP, PROFINET (2 ports), 2 x Sync##		6ES7416-5HS06-0AB0
CPU 417-5 H PN/DP***	2 x 16 MB	MPI/DP, DP, DP, PROFINET (2 ports), 2 x Sync##		6ES7417-5HT06-0AB0
***DP ports can only be used as Master, PN ports can only be used as IO Controller.				
##Sync Module, 10 m, 4 synchronization modules required for H systems				6ES7960-1AA06-0XA0
##Sync Module, 10 km, 4 synchronization modules required for H systems				6ES7960-1AB06-0XA0
##Sync Cable, 1 m, 2 sync cables required for H systems				6ES7960-1AA04-5AA0
##Sync Cable, 2 m, 2 sync cables required for H systems				6ES7960-1AA04-5BA0
##Sync Cable, 10 m, 2 sync cables required for H systems				6ES7960-1AA04-5KA0
Failsafe Programming Software for S7 F System SW, H-CPU (v6.4)				6ES7833-1CC46-0YA5
F Runtime License, Failsafe License for H-CPU (1 required)				6ES7833-1CC00-6YX0



S7 400 F/H

## S7-400H Bundle

**DVDContent;**  
 2x CPU 41x-5H PN/DP  
 1x UR2-H (6ES7 400-2JA00-0AA0)  
 4x Sync.Module (6ES7 960-1AA06-0XA0) ,10mt.  
 2x Sync.Cable (6ES7 960-1AA04-5AA0) ,1mt.

For each Bundle 2 additional memory modules and 4 batteries (6ES7 971-0BA00) must be ordered separately. PS  
 407: 6ES7 407-0KA02-0AA0 (120/230 V AC/DC, 5V DC/10A)  
 PS 405: 6ES7 405-0KA02-0AA0 (24/48/60 V DC, 5V DC/10A)



S7 400 H (Redundant)

412-5 H AC Bundle	DVD Content+ 2 x PS 407	6ES7400-0HR01-4AB0
414-5 H AC Bundle	DVD Content+ 2 x PS 407	6ES7400-0HR02-4AB0
416-5 H AC Bundle	DVD Content+ 2 x PS 407	6ES7400-0HR03-4AB0
417-5 H AC Bundle	DVD Content+ 2 x PS 407	6ES7400-0HR04-4AB0
412-5 H DC Bundle	DVD Content+ 2 x PS 405	6ES7400-0HR51-4AB0
414-5 H DC Bundle	DVD Content+ 2 x PS 405	6ES7400-0HR52-4AB0
416-5 H DC Bundle	DVD Content+ 2 x PS 405	6ES7400-0HR53-4AB0
417-5 H DC Bundle	DVD Content+ 2 x PS 405	6ES7400-0HR54-4AB0



# SIMATIC S7-400



Material Type			Order No
<b>SIMATIC S7-400 Digital Input/Output Modules</b>			
SM 421	24 V DC, diagnostic	16DI	6ES7421-7BH01-0AB0
SM 421	120/230 V AC / DC	16DI	6ES7421-1FH20-0AA0
SM 421	24/60 V AC/DC, diagnostic	16DI	6ES7421-7DH00-0AB0
SM 421	24 V DC	32DI	6ES7421-1BL01-0AA0
SM 421	120 V AC / DC	32DI	6ES7421-1EL00-0AA0
SM 422	24 V DC, 2 A	16DO	6ES7422-1BH11-0AA0
SM 422	120/230 V AC, 2 A	16DO	6ES7422-1FH00-0AA0
SM 422	Relay, 5 A	16DO	6ES7422-1HH00-0AA0
SM 422	24 V DC, 0.5 A	32DO	6ES7422-1BL00-0AA0
SM 422	24 V DC, 0.5 A, diagnostic	32DO	6ES7422-7BL00-0AB0
Front Connector for Digital/Analog/Function Modules (screw)			6ES7492-1AL00-0AA0
Front Connector for Digital/Analog/Function Modules (spring loaded)			6ES7492-1BL00-0AA0



S7 400 Input/Output Module

<b>SIMATIC S7-400 Analog Input/Output Modules</b>			
SM 431	V, mA, R	8AI, 13 Bit	6ES7431-1KF00-0AB0
SM 431	V, mA, R, RTD, TC	8AI, 14 Bit	6ES7431-1KF10-0AB0
SM 431	V, mA, R	8AI, 14 Bit	6ES7431-1KF20-0AB0
SM 431	V, mA, TC	8AI, 16 Bit	6ES7431-7KF00-0AB0
SM 431	RTD	8AI, 16 Bit	6ES7431-7KF10-0AB0
SM 431	V, mA	16AI, 13 Bit	6ES7431-0HH00-0AB0
SM 431	V, mA, R, RTD, TC	16AI, 16 Bit	6ES7431-7QH00-0AB0
SM 432	V, mA	8AO, 13 Bit	6ES7432-1HF00-0AB0
Front Connector for Digital/Analog/Function Modules (screw)			6ES7492-1AL00-0AA0
Front Connector for Digital/Analog/Function Modules (spring loaded)			6ES7492-1BL00-0AA0



S7 400 Function Module

<b>SIMATIC S7-400 Function Modules</b>			
FM 450-1	Fast counter, 2 channels, max. 500 kHz	6ES7450-1AP01-0AE0	
FM 451	Position Control, 3 axis	6ES7451-3AL00-0AE0	
FM 452	Electronic Cam Control	6ES7452-1AH00-0AE0	
FM 453	Position Control, 3 axis (Servo/Step Motor)	6ES7453-3AH00-0AE0	
FM 455 C	PID Standing Control Module, 16 channels, 16 analog outputs	6ES7455-0VS00-0AE0	
FM 455 S	PID Step/Pulse Control Module, 16 channels, 32 digital outputs	6ES7455-1VS00-0AE0	
Front Connector for Digital/Analog/Function Modules (screw)			6ES7492-1AL00-0AA0
Front Connector for Digital/Analog/Function Modules (spring loaded)			6ES7492-1BL00-0AA0



S7 400 CP

<b>SIMATIC S7-400 Communication Modules</b>		
CP 440-1	Point-to-Point, RS 422/485, ASCII/3964 (R)	6ES7440-1CS00-0YE0
CP 441-1***	Point-to-Point, 1 x channel	6ES7441-1AA05-0AE0
CP 441-2***	Point-to-Point, 2 x channels, modbus protocol installable	6ES7441-2AA05-0AE0
***RS 232 C	Communication Interface Module	6ES7963-1AA10-0AA0
***20 mA (TTY)	Communication Interface Module	6ES7963-2AA10-0AA0
***RS 422/485	Communication Interface Module	6ES7963-3AA10-0AA0
CP 443-5 Ext.	PROFIBUS DP Communication Interface	6GK7443-5DX05-0XE0
CP 443-1**	End. Ethernet, PROFINET, TCP/IP, UDP, 2 x RJ45 ports	6GK7443-1EX30-0XE0
CP 443-1 Adv.**	End. Ethernet, PROFINET, TCP/IP, UDP, FTP, www server	6GK7443-1GX30-0XE0

\*\* Can be used with CPUs with Firmware V5 and above for PROFINET. 4xRJ45 ports

<b>SIMATIC S7-400 Rack</b>		
Rack UR1	Universal Rack, 18 slots	6ES7400-1TA01-0AA0
Rack UR2	Universal Rack, 9 slots	6ES7400-1JA01-0AA0
Rack CR2	Main rack, 18 slots (2 segments, 8+ 10)	6ES7401-2TA01-0AA0
Rack CR3	Main rack, 4 slots	6ES7401-1DA01-0AA0
Rack UR2H	Universal Rack, 18 slots (for 9+ 9, H system)	6ES7400-2JA00-0AA0
Rack ER1	Expansion rack, 18 slots	6ES7403-1TA01-0AA0
Rack ER2	Expansion rack, 9 slots	6ES7403-1JA01-0AA0



S7 400 Rack

# SIMATIC S7-400



Configure Now



S7 400 PS

Material Type		Order No
<b>SIMATIC S7-400 Power Supplies</b>		
PS 405 4 A	24/48/60 V DC, 5V DC/4A	6ES7405-0DA02-0AA0
PS 405 10 A#	24/48/60 V DC, 5V DC/10A	6ES7405-0KA02-0AA0
PS 405 10 A#	24/48/60 V DC, 5V DC/10A, redundant	6ES7405-0KR02-0AA0
PS 405 20 A#	24/48/60 V DC, 5V DC/20A	6ES7405-0RA02-0AA0
PS 407 4 A	120/230 V AC/DC, 5V DC/4A	6ES7407-0DA02-0AA0
PS 407 10 A#	120/230 V AC/DC, 5V DC/10A	6ES7407-0KA02-0AA0
PS 407 10 A#	120/230 V AC/DC, 5V DC/10A, redundant	6ES7407-0KR02-0AA0
PS 407 10 A#	120/230 V AC/DC, 5V DC/20A	6ES7407-0RA02-0AA0
Battery	2 are required for those marked #, 1 for others.	6ES7 971-0BA00

SIMATIC S7-400 Memory Modules			
RAM	64 Kb	Memory Module	6ES7952-0AF00-0AA0
RAM	256 Kb	Memory Module	6ES7952-1AH00-0AA0
RAM	1 MB	Memory Module	6ES7952-1AK00-0AA0
RAM	2 MB	Memory Module	6ES7952-1AL00-0AA0
RAM	4 MB	Memory Module	6ES7952-1AM00-0AA0
RAM	8 MB	Memory Module	6ES7952-1AP00-0AA0
RAM	16 MB	Memory Module	6ES7952-1AS00-0AA0
RAM	64 MB	Memory Module	6ES7952-1AY00-0AA0
FEPRAM	64 Kb	Memory Module	6ES7952-0KF00-0AA0
FEPRAM	256 Kb	Memory Module	6ES7952-0KH00-0AA0
FEPRAM	1 MB	Memory Module	6ES7952-1KK00-0AA0
FEPRAM	2 MB	Memory Module	6ES7952-1KL00-0AA0
FEPRAM	4 MB	Memory Module	6ES7952-1KM00-0AA0
FEPRAM	8 MB	Memory Module	6ES7952-1KP00-0AA0
FEPRAM	16 MB	Memory Module	6ES7952-1KS00-0AA0
FEPRAM	32 MB	Memory Module	6ES7952-1KT00-0AA0
FEPRAM	64 MB	Memory Module	6ES7952-1KY00-0AA0



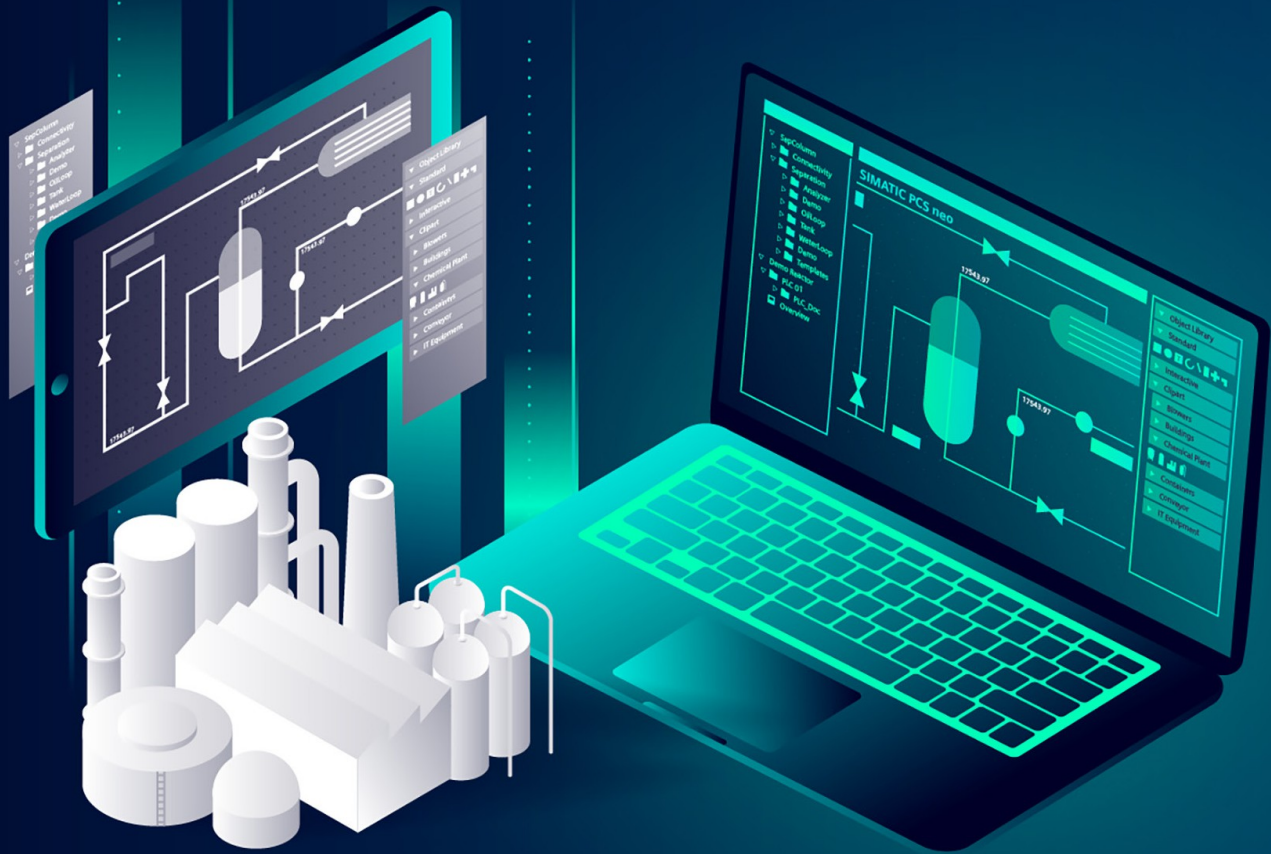
Memory Module

SIMATIC S7-400 Expansion Modules		
IM 460-0	Main Rack expansion interface, max. 5 m, +C bus	6ES7460-0AA01-0AB0
IM 461-0	Expansion Rack interface, max. 5 m, +C bus	6ES7461-0AA01-0AA0
IM Cable, 0.75 m	Connection cable for IM 461-0	6ES7468-1AH50-0AA0
IM Cable, 1.5 m	Connection cable for IM 461-0	6ES7468-1BB50-0AA0
IM Cable, 5 m	Connection cable for IM 461-0	6ES7468-1BF00-0AA0
IM Terminator	Terminator for IM 461-0	6ES7461-0AA00-7AA0
IM 460-1	Main Rack expansion interface, max. 1.5 m, -C bus, +5V	6ES7460-1BA01-0AB0
IM 461-1	Expansion Rack interface, max. 1.5 m, -C bus, +5V	6ES7461-1BA01-0AA0
IM Cable, 0.75 m	Connection cable for IM 461-1	6ES7468-3AH50-0AA0
IM Cable, 1.5 m	Connection cable for IM 461-1	6ES7468-3BB50-0AA0
IM 460-3	Main Rack expansion interface, max. 102 m, +C bus	6ES7460-3AA01-0AB0
IM 461-3	Expansion Rack interface, max. 102 m, +C bus	6ES7461-3AA01-0AA0
IM Cable, 0.75 m	Connection cable for IM 461-3	6ES7468-1AH50-0AA0
IM Cable, 1.5 m	Connection cable for IM 461-3	6ES7468-1BB50-0AA0
IM Cable, 5 m	Connection cable for IM 461-3	6ES7468-1BF00-0AA0
IM Cable, 10 m	Connection cable for IM 461-3	6ES7468-1CB00-0AA0
IM Cable, 25 m	Connection cable for IM 461-3	6ES7468-1CC50-0AA0
IM Cable, 50 m	Connection cable for IM 461-3	6ES7468-1CF00-0AA0
IM Cable, 100 m	Connection cable for IM 461-3	6ES7468-1DB00-0AA0
IM Terminator	Terminator for IM 461-3	6ES7461-3AA00-7AA0



S7 400 IM

+C bus: The communication bus is transferred.  
 -C bus : The communication bus is not transferred.  
 +5V : Rack supply is transferred.



## THE WORLD OF PROCESS CONTROL

# SIMATIC PCS neo

The first **web-based process control system** that allows engineers and operators to work in a secure and highly intuitive user interface.

SIMATIC PCS neo enables multi-user engineering and remote access from anywhere and offers maximum scalability from small process modules to worldwide plants.



# Process Instrumentation and Gas Analysis Family



You can contact us at [atproses@siemens.com](mailto:atproses@siemens.com) for detailed information about all types of process measurement technologies.

## Pressure



Tailored to the specific requirements of your applications, Siemens pressure measuring instruments provide the confidence you need in your instrumentation.

## Temperature



Siemens offers you a complete temperature sensor and transmitter - all from a single source.

## Valve Positioners



SIPART PS2 and SIPART PS100 As digital and electro-pneumatic positioners, they are the key equipment between the control system and the valves and an important role in ensuring reliability and optimum performance in your automated process plants.

## Level



We can offer solutions for all types of level applications, including Ultrasonic, Radar and Capacitive Technology.

## Our Gas Analysis Family



Continuous Measurement Gas Analyzers, in-situ measurement and Laser Gas Analyzers; whether in chemistry for gas analysis, whether for rotary kiln monitoring in cement plants, whether Whether for flue gas monitoring in waste incineration plants or power plants - contact us for a complete portfolio of measuring instruments for extractive continuous process gas analysis.

## Weighing Technologies



With our electronics portfolio, we can offer weighing solutions with direct load-cell connection to the automation system and mechanical design products. Also loadcell We also meet your weighing needs with our products.

## Flowmeters



Magnetic flow meters, We can produce solutions with Coriolis and Ultrasonic (clamp-on / in-line) measurement techniques.

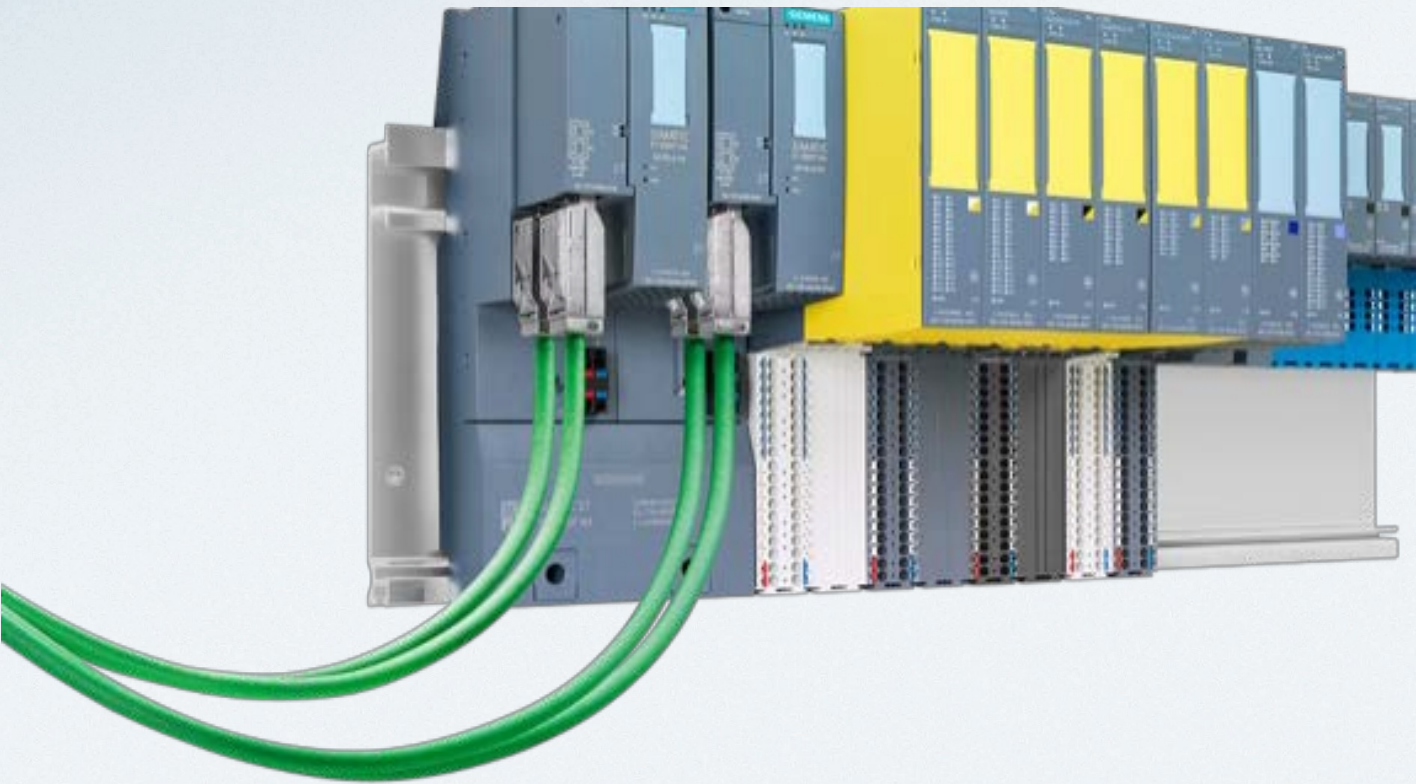


IS THE STANDARD SIMATIC PCS 7

# The one you trust Performance

The harmonious interaction of expertise and automation is one of the key requirements for achieving operational efficiency in industrial plants. There is another requirement: A process control system that fully meets performance expectations. This is where SIMATIC PCS 7 stands out by offering numerous opportunities to optimize the potential of your plant over its full life cycle. This covers all levels, from process control to product quality monitoring, performance values and process optimization. The advantages are clear: Continuity of operation and security of investment, as well as improved process flexibility. When it comes to efficiency and production output, take no chances. Rely on performance to unlock the potential of your plant.

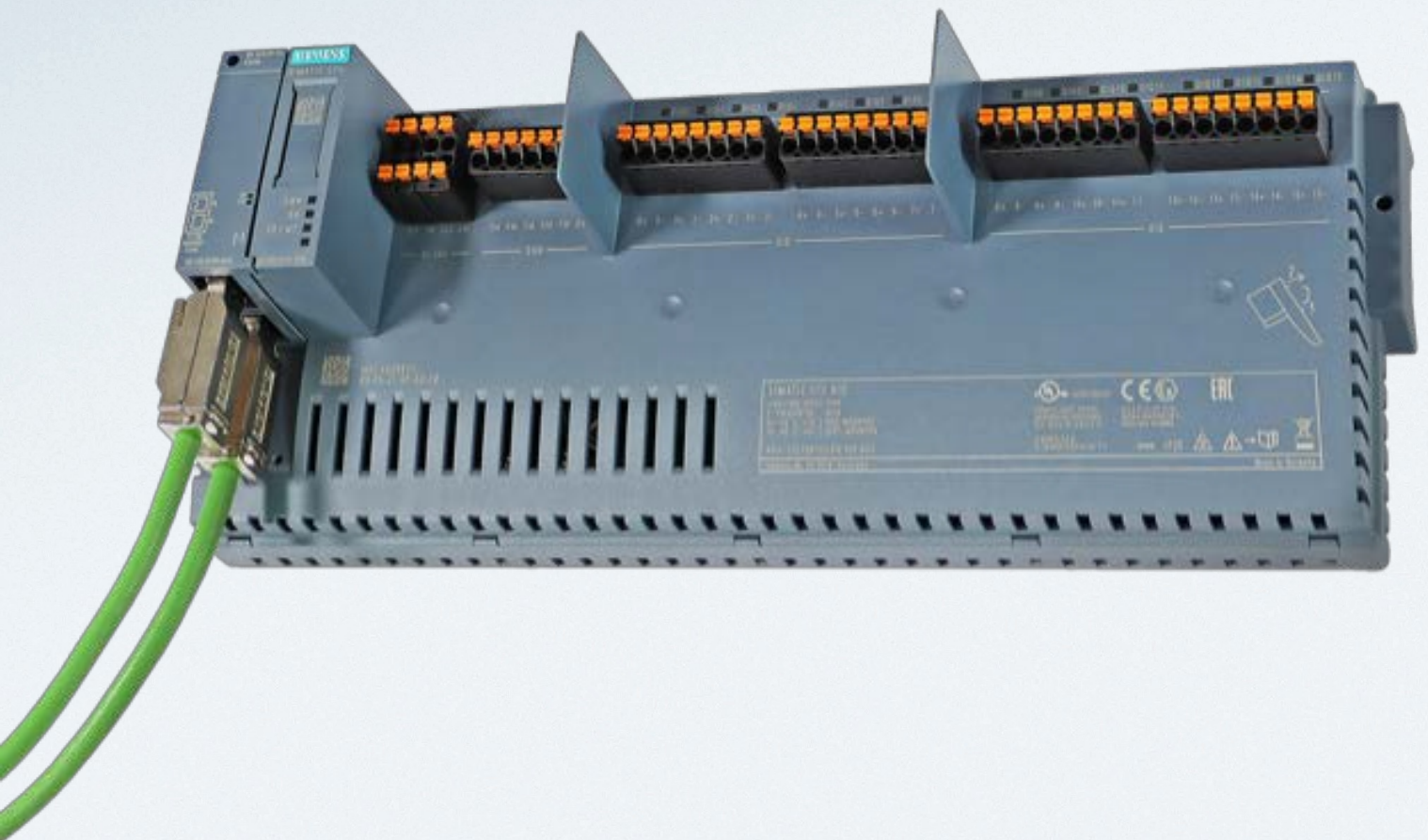
**SIEMENS**



# SIMATIC ET200SP HA I/O System Designed for Process Industries: **Maximum Accessibility and Flexibility**

A new IO system combining Standard, Fail-Safe and ex-Proof modules for any process application. It provides maximum performance with an operating temperature range adapted to the harsh environments of the process industries and a special coating on the modules.

- Redundant Profinet Communication interface (Profinet R1 & Profinet S2)
- -40...+70 Degrees operation temperature to meet the requirements of process industries
- Ability to use Standard, Fail-Safe and EX-Proof IO modules at the same time
- Conformal Coating (ISA-S71.04/G3), which provides extra protection in module design and is offered as standard
- EMC requirements in Namur NE21
- Redundant IO module support
- Profinet CiR: Configuration change in the system without downtime
- Multi-HotSwap: Ability to remove and install multiple modules under power
- Fast and Easy wiring



## INTEGRATION OF FIELD

# SIMATIC Compact Field Unit (CFU)



An innovative perspective on the integration of field devices communicating with the Profibus PA Protocol into the Profinet protocol: CFU. It offers both a local communication management and power distribution features at the same time to get full performance from your devices.

- Redundant Profinet Communication interface (Profinet R1 & Profinet S2)
- 8 integration ports for Profibus PA Protocol devices
- 8x DI/DO ports that can be used independently
- Fast counter integration
- Plug-and-Produce: Automatic commissioning of field devices to be integrated into the system with plug-and-play feature
- -40...+70 Degrees operation temperature to meet the requirements of process industries
- Conformal Coating (ISA-S71.04/G3), which provides extra protection in module design and is offered as standard
- Automatic Profibus PA address assignment in addition to Quick and Easy wiring





## SIMATIC S7-1500 AND TIA PORTAL

# New Dimensions in Automation



Highest performance, highest availability: A milestone in automation, SIMATIC® S7-1500 is the next generation control family. With a single controller, you can use it in both standard and safety-demanding applications.

### Our strengths

- System Performance - Fast response times and the highest level of quality control
- Integrated Technology - Perfect integration of drives via integrated motion control functions and PROFIdrive
- Integrated Security - Security integration for the highest level of protection of your investment

### Our productivity enabling features:

- Innovative Design and Easy Operation - Simplest handling and fast commissioning
- Integrated System Diagnostics - Full transparency in case of malfunctions with automatically generated and detailed diagnostic information display on the status of your plant
- TIA Portal - Low project costs with high engineering efficiency in your projects

# SIMATIC S7-1500



Configure Now



S7 1500 CPU



S7 1500 Compact CPU



S7 1500F CPU



S7-1500H CPU



S7-1500R CPU



SYNC Module



F/O Cable

Material Type	Order No
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## SIMATIC S7-1500 Modular CPU

CPU 1511-1PN	300 KB+ 1.5MB* PROFINET IRT x 2 port	6ES7511-1AL03-0AB0
CPU 1513-1PN	600 KB+ 2.5MB* PROFINET IRT x 2 ports	6ES7513-1AM03-0AB0
CPU 1515-2PN	1MB+ 4.5MB* PROFINET IRT x 2 ports+PROFINET RT	6ES7515-2AN03-0AB0
CPU 1516-3PN/DP	2 MB+ 7.5MB* PROFINET IRT x 2 ports+ PROFINET RT+ Profibus DP	6ES7516-3AP03-0AB0
CPU 1517-3PN/DP	2 MB+ 8MB* PROFINET IRT x 2 ports+ PROFINET RT+ Profibus DP	6ES7517-3AP00-0AB0
CPU 1518-4 PN/DP	6MB+ 60MB* PROFINET IRT x 2 ports+ PROFINET RT+ ETHERNET + Profibus DP	6ES7518-4AP00-0AB0

\* SMC Memory Card is required!  
!!! Check the ET200SP page for SP CPUs

## SIMATIC S7-1500 Compact CPU

CPU 1511C-1 PN	300 KB+ 1.5MB* PROFINET IRT x 2 port 16DI/16DO/5AI/2AO 6xHSC 4xPTO/PWM/F	6ES7511-1CL03-0AB0
CPU 1512C-1PN	400 KB+ 2MB* PROFINET IRT x 2 port 32DI/32DO/5AI/2AO 6xHSC 4xPTO/PWM/F	6ES7512-1CM03-0AB0

\* SMC Memory Card is required!

## SIMATIC S7-1500 Failsafe CPU

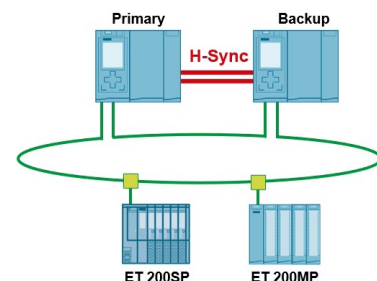
CPU 1511F-1PN	450 KB+ 1.5 MB* PROFINET IRT x 2 port	6ES7511-1FL03-0AB0
CPU 1513F-1PN	900 KB+ 2.5 MB* PROFINET IRT x 2 ports	6ES7513-1FM03-0AB0
CPU 1515F- 2PN	1.5 MB+ 4.5 MB* PROFINET IRT x 2 ports+ PROFINET RT	6ES7515-2FN03-0AB0
CPU 1516F-3 PN/DP	3 MB+ 7.5 MB* PROFINET IRT x 2 port+ PROFINET + Profibus DP	6ES7516-3FP03-0AB0
CPU 1517F-3 PN/DP	3 MB+ 8 MB* PROFINET IRT x 2 port+ PROFINET + Profibus DP	6ES7517-3FP01-0AB0
CPU 1518F-4 PN/DP	9 MB+ 60 MB* PROFINET IRT x 2 port+ PROFINET RT+ ETHERNET+ Profibus DP	6ES7518-4FP00-0AB0

\* SMC Memory Card is required!

## SIMATIC S7-1500R/H Redundant CPU

SIMATIC S7-1500HF Bundle**	2 x 1518HF-4PN CPU, 4xSync Module, 2x1m f/o patch cable. (excluding SMC*.)	6ES7500-0JP00-0AB0
SIMATIC S7-1500H Bundle**	2 x 1517H-3PN CPU, 4xSync Module, 2x1m f/o patch cable. (excluding SMC*.)	6ES7500-0HP00-0AB0
CPU 1518HF-4 PN*** #	9 MB+ 60 MB* Profinet RT x 2 ports + Ethernet x 2 ports+ SYNC ports	6ES7518-4JP00-0AB0
CPU 1517H-3 PN***	2 MB+ 8 MB* Profinet RT x 2 port+ Ethernet + SYNC ports	6ES7517-3HP00-0AB0
CPU 1515R-2 PN	1 MB+ 4.5 MB* Profinet RT x 2 ports+ Ethernet	6ES7515-2RN03-0AB0
CPU 1513R-1 PN	600 KB+ 2.5 MB* Profinet RT x 2 port	6ES7513-1RM03-0AB0
Synchronization module 10 m	Synchronization module (SFP) up to a distance of 10 meters	6ES7960-1CB00-0AA5
Synchronization module 10 km	Synchronization module (SFP) , up to 10 kilometers	6ES7960-1FB00-0AA5
F/O Synchronization cable 1 m	Ready-made patch cable, two-end socket, 1 meter	6ES7960-1BB00-5AA5
F/O Synchronization cable 2 m	Ready-made patch cable, with socket at both ends, 2 meters	6ES7960-1BC00-5AA5
F/O Synchronization cable 10 m	Ready-made patch cable, two-end socket, 10 meters	6ES7960-1CB00-5AA5

\* SMC Memory Card required!  
\*\* The synchronization modules included in the bundle package support distances up to 10m.  
\*\*\* 4 SFP synchronization modules are required in an H-System.  
Redundant + Failsafe CPU



# SIMATIC S7-1500



Material Type	Order No
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## SIMATIC ET 200MP Modular Distributed Input/Output Modules

Interface Module		
IM155-5PN ST	PROFINET Interface for ET 200MP Distributed Input/Output Modules	6ES7155-5AA01-0AB0
IM 155-5 MF HF#	ET200MP PROFINET Interface Module for Distributed Input/Output Modules Multi Fieldbus Profinet, EtherNet/IP, Modbus TCP	6ES7155-5MU00-0CN0
IM155-5DP ST	PROFIBUS Interface for ET 200MP Distributed Input/Output Modules	6ES7155-5BA00-0AB0

S7 1500 boards for ET 200MP distributed inputs and outputs!  
 #Bus Adapter required - Select bus adapter from ET200P page. It is recommended to use the TIA Selection Tool to select the product.

## SIMATIC S7-1500 Digital Input/Output Modules (25 mm)

SM 521 16xDI	24V DC BA	6ES7521-1BH10-0AA0
SM 521 32xDI	24V DC BA	6ES7521-1BL10-0AA0
SM 522 16xDQ	24V DC/0.5A BA	6ES7522-1BH10-0AA0
SM 522 32xDQ	24V DC/0.5A BA	6ES7522-1BL10-0AA0
SM 523 16DI/16DO	DI 16x24V DC / DQ 16x24V DC/0.5A BA	6ES7523-1BL00-0AA0
Spare Front Connector	Front connector for 25 mm I/O cards (Spare Material)	6ES7592-1BM00-0XA0

Note: 25 mm I/O cards with a print type pre-connector. There is no channel based diagnostic feature. Note: There is no channel-by-channel diagnostic feature.



S7 1500 Input/Output Modules

## SIMATIC S7-1500 Digital Input/Output Modules (35 mm)

SM 521* 16 x DI	24 VDC SRC BA**	6ES7521-1BH50-0AA0
SM 521* 16 x DI	24 VDC HF	6ES7521-1BH00-0AB0
SM 521* 16 x DI	230 VAC BA**	6ES7521-1FH00-0AA0
SM 521* 16 x DI	DI 16x24...125VUC HF	6ES7521-7EH00-0AB0
SM 521* 32 x DI	24 VDC HF	6ES7521-1BL00-0AB0
SM 521# 64 x DI	24V DC 64xDI SNK/SRC BA**	6ES7521-1BP00-0AA0
SM 522* 8 x DO	24 VDC/2A HF	6ES7522-1BF00-0AB0
SM 522* 8 x DO	230 VAC/2A Triac ST	6ES7522-5FF00-0AB0
SM 522* 8 x DO	230 VAC/5A Relay ST	6ES7522-5HF00-0AB0
SM 522* 16 x DO	DQ 16x24...48VUC/125VDC/0.5A ST	6ES7522-5EH00-0AB0
SM 522* 16 x DO	DQ 16x230VAC/1A ST Triac	6ES7522-5FH00-0AB0
SM 522* 16 x DO	DQ 16x230VAC/2A ST Relay	6ES7522-5HH00-0AB0
SM 522* 16 x DO	24 VDC/0.5A HF	6ES7522-1BH01-0AB0
SM 522* 32 x DO	24 VDC/0.5A HF	6ES7522-1BL01-0AB0
SM 522# 64 x DO	24V DC/0.3A SNK BA**	6ES7522-1BP50-0AA0
SM 522# 64 x DO	24V DC/0.3A SNK SOSD SIL2 BA**	6ES7522-1BP00-0AA0
SM 523# 32DI/32DO	24 VDC/0.3A SNK/SRC BA**	6ES7523-1BP50-0AA0



S7 1500 Input/Output Modules

\* Front connector must be selected.  
 \*\* There is no channel based diagnostic feature.  
 # Front connector is not installed, cable and terminal block must be selected. Tia selection tool is recommended.

# SIMATIC S7-1500



Configure Now

Material Type	Order No
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## SIMATIC S7-1500 Analog Input/Output Modules (25 mm)

SM 531	4 x AI	V,mA,R,RTD,TC 16bit ST #	6ES7531-7QD00-0AB0
SM 532	2x AQ	U/I ST	6ES7532-5NB00-0AB0
SM 534	4XAI/2XAQ	U/I/RTD/TC - U/I ST	6ES7534-7QE00-0AB0
Spare Front Connector	Front connector for 25 mm I/O cards (Spare Material)		6ES7592-1BM00-0XA0

Note: The 25 mm I/O boards with a print type pre-connector. # When R and RTD type signals are connected, the number of channels halved.

## SIMATIC S7-1500 Analog Input/Output Modules (35 mm)

SM 531*	8 x AI	V,mA,R,RTD 16bit BA	6ES7531-7QF00-0AB0
SM 531*	8 x AI	V,mA,R,RTD,TC 16bit ST #	6ES7531-7KF00-0AB0
SM 531*	8 x AI	R,RTD,TC 16bit HF	6ES7531-7PF00-0AB0
SM 531*	8 x AI	V,mA 16bit HF	6ES7531-7NF00-0AB0
SM 531*	8 x AI	V,mA 16bit HS (Fast)	6ES7531-7NF10-0AB0
SM 531*	16x AI	V 16bit BA	6ES7531-7LH00-0AB0
SM 531*	16x AI	mA 16bit BA	6ES7531-7MH00-0AB0
SM 532*	4 x AO	V,mA 16bit ST	6ES7532-5HD00-0AB0
SM 532*	4 x AO	V,mA 16bit HF	6ES7532-5ND00-0AB0
SM 532*	8 x AO	V,mA 16bit HS (Fast)	6ES7532-5HF00-0AB0

\* Front connector must be selected.

# When R and RTD type signals are connected, the number of channels halved.

## SIMATIC S7-1500 Failsafe Input/Output Modules

SM 526	16 x F-DI	F-DI 16x24VDC PROFIsafe	6ES7526-1BH00-0AB0
SM 526 *	8 x F-DQ	F-DQ 8x24VDC/2A PPM PROFIsafe	6ES7526-2BF00-0AB0

\*Front connector must be selected.

## SIMATIC S7-1500 Communication Modules

CM 540 BA #	PtP RS 232 Basic, Freeport, 3964(R), USS, 19200kbit (does not support Modbus)	6ES7540-1AD00-0AA0
(CM) (540) (BA) (##)	PtP RS 422/485 Basic, Freeport, 3964(R), USS, 19200kbit (does not support Modbus)	6ES7540-1AB00-0AA0
CM 541 HF ##	PtP RS 422/485 High Feature, Freeport, 3964(R), USS, MODBUS RTU Master, Slave	6ES7541-1AB00-0AB0
(CM) (541) (HF) (##)	PtP RS 232 High Feature, Freeport, 3964(R), USS, MODBUS RTU Master, Slave	6ES7541-1AD00-0AB0
CM 8xIO-Link*	CM 8xIO-Link , IO-Link Master V1.1 , 8 Port	6ES7547-1JF00-0AB0
(CM) (1542-5)	PROFIBUS DP, DPV1 master or DP slave, S7 and PG/OP communication	6GK7542-5DX00-0XE0
CP 1542-5	PROFIBUS DP, DPV1 master or DP slave, S7 and PG/OP communication	6GK7542-5FX00-0XE0
(CM) (1542-) (1)	PROFINET as IO controller: TCP/IP, ISO-on-TCP, UDP, S7 communication, IP broadcast Multicast, SNMPV1	6GK7542-1AX00-0XE0
CM 1543-1	End. Ethernet, 1GB TCP/IP, ISO, UDP, S7 communication, IP Broadcast/ Multicast	6GK7543-1AX10-0XE0
(CP) (1545-1)	End. Ethernet, 1GB TCP/IP, ISO, UDP, S7 communication, Firewall, MQTT, Cloud	6GK7545-1GX00-0XE0
TIM 1531 IRC	TIM 1531 Industrial Remote Com. SINAUT ST7, IEC60870-5-101/104, DNP3	6GK7543-1MX00-0XE0
(SIMATIC) (S7) (PtP) (Cable) (5m)	9-pin D-Sub cable for Point-to-Point (PtP) two prongs, 5 meters	6ES7902-1AB00-0AA0
# SIMATIC S7 PtP Cable 10m	9-pin D-Sub cable for Point-to-Point (PtP) connection, two-ended, 10 meters	6ES7902-1AC00-0AA0
(SIMATIC) (S7) (PtP) (Cable) (15m) (PtP)	9-pin D-Sub cable for Point-to-Point	6ES7902-1AD00-0AA0
## SIMATIC S7 PtP Cable 5m	15-pin D-Sub cable for Point-to-Point (PtP) connection, two-ended, 5 meters	6ES7902-3AB00-0AA0
(SIMATIC) (S7) (PtP) (Cable) (10m) (PtP)	15-pin D-Sub cable for Point-to-Point	6ES7902-3AC00-0AA0
SIMATIC S7 PtP Cable 50m	15-pin D-Sub cable for Point-to-Point (PtP) connection, two-ended, 50 meters	6ES7902-3AG00-0AA0

\*Front connector must be selected.

It is recommended to use the TIA Selection Tool to select products.

Parmley Graham Ltd



S7 1500

Input/Output Modules

# SIMATIC S7-1500



Material Type		Order No
<b>SIMATIC S7-1500 Technology Modules</b>		
TM Count*	Fast counter, 2 channels, 24 V, max 200 kHz / 800 kHz	6ES7550-1AA01-0AB0
TM PosInput*	Position Reader, Fast counter, 2 channels, RS 422, SSI, max. 1 MHz / 4 MHz	6ES7551-1AB00-0AB0
(TM) (Timer*)	Time-Based IO Module DIDQ 16x24V, 8DI, 16DQ, Count, PWM, Oversampling	6ES7552-1AA00-0AB0
TM PTO 4*	TM PTO 4xPTO 24V/422/TTL 4 Channel Pulse Train Output	6ES7553-1AA00-0AB0
(TM) (FAST)	TM FAST Field Adaptable High-Speed Technology, 8xDI, 8xDQ, 4xDIQ 24 V, 8xRS485 DIQ	6ES7554-1AA00-0AB0



S7 1500

\* Front connector must be selected.

<b>SIMATIC S7-1500 Accessories</b>		
Ray 160	S7-1500 rail, 160 mm	6ES7590-1AB60-0AA0
Ray 245	S7-1500 rail, 245 mm	6ES7590-1AC40-0AA0
Ray 482	S7-1500 rail, 482 mm	6ES7590-1AE80-0AA0
Ray 530	S7-1500 rail, 530 mm	6ES7590-1AF30-0AA0
Ray 830	S7-1500 rail, 830 mm	6ES7590-1AJ30-0AA0
Ray 2000	S7-1500 rail, 2000 mm	6ES7590-1BC00-0AA0
PS 25W	System power supply, 24 V DC, 25 W	6ES7505-0KA00-0AB0
PS 60W	System power supply, 24/48/60 V DC, 60 W	6ES7505-0RA00-0AB0
PS 60W HF	System power supply, 24/48/60 V DC, 60 W, Buffer Capable, CPU Non-volatile memory boost	6ES7505-0RB00-0AB0
PS 60W	System power supply, 120/230 V AC/DC, 60 W	6ES7507-0RA00-0AB0
PM 70W	Load power module, 120/230 V AC, 70 W	6EP1332-4BA00
PM 190W	Load power module, 120/230 V AC, 190 W	6EP1333-4BA00
SMC 4 MB	SIMATIC memory card, 4 MB	6ES7954-8LC04-0AA0
SMC 12 MB	SIMATIC memory card, 12 MB	6ES7954-8LE04-0AA0
SMC 24 MB	SIMATIC memory card, 24 MB	6ES7954-8LF04-0AA0
SMC 256 MB	SIMATIC Memory Card 256 MB	6ES7954-8LL04-0AA0
SMC 2 GB	SIMATIC Memory Card 2 GB	6ES7954-8LP04-0AA0
SMC 32 GB	SIMATIC Memory Card 32 GB	6ES7954-8LT04-0AA0
Front Connector, Screw	Universal 40 pin screw type front connector - for I/O cards (35 mm)	6ES7592-1AM00-0XB0
Front Connector, Push-on	Universal 40 pin push-in type front connector - for I/O cards (35 mm)	6ES7592-1BM00-0XB0
Front Connector, Push-on	Universal 40 pin push-in type front connector - for I/O cards (25 mm)	6ES7592-1BM00-0XA0
Bridge For Front Connector	Jumpers for bridging front connector L+/M (20 pcs)	6ES7592-3AA00-0AA0
U-Profile	U-Connector, for IO module connection (5 pcs.)	6ES7590-0AA00-0AA0
Shielding set	Set for shielding cables (5 pcs.) - for front connectors	6ES7590-5CA00-0AA0
CPU Display1	Spare CPU display (for CPU1511 and CPU1513)	6ES7591-1AA01-0AA0
CPU Display2	Spare CPU display (for CPU1515,1516,1517 and 1518)	6ES7591-1BA02-0AA0



Shielding Kit



Front Connector

It is recommended to use the TIA Selection Tool to select products.



# ET 200SP Open Controller



Parmley Graham | [siemens.com](https://www.siemens.com)

**SIEMENS**

# SIMATIC ET200SP Open Controller and Software Controller

Material Type		Order No
<b>Open Controller (PC Based Controller)</b>		
CPU 1515SP PC2** Software-Controller V30.0 - SIMATIC Industrial OS	8-GB RAM 128-GB CFast card SIMATIC Industrial OS	6ES7677-2DB43-0GB1
CPU 1515SP PC2** Software-Controller V30.0 - Windows LTSC 2021	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit,	6ES7677-2DB42-0GB1
CPU 1515SP PC2** Software-Controller V21.9 - Windows LTSC 2019	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit,	6ES7677-2DB42-0GB0
CPU 1515SP PC2** Software-Controller V21.9 - Windows LTSC 2019 + HMI 128PT	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, WinCC RT Adv. 128PT	6ES7677-2DB42-0GK0
CPU 1515SP PC2** Software-Controller V21.9 - Windows LTSC 2019 + HMI 512PT	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, WinCC RT Adv. 512PT	6ES7677-2DB42-0GL0
CPU 1515SP PC2** Software-Controller V21.9 - Windows LTSC 2019 + HMI 2048PT	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, WinCC RT Adv. 2048PT	6ES7677-2DB42-0GM0
CPU 1515SP PC2** Software-Controller V30.0 - Failsafe SIMATIC Industrial	8-GB RAM 128-GB CFast card SIMATIC Industrial OS, F-CPU	6ES7677-2SB43-0GB1
CPU 1515SP PC2** Software-Controller V30.0 - Failsafe Win- dows LTSC 2021	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, F-CPU	6ES7677-2SB42-0GB1
CPU 1515SP PC2** Software-Controller V21.9 - Failsafe Win- dows LTSC 2019	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, F-CPU	6ES7677-2SB42-0GB0
CPU 1515SP PC2** Software-Controller V21.9 - Failsafe Windows LTSC 2019 + HMI 128PT	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, F-CPU, WinCC RT Adv. 128 PT	6ES7677-2SB42-0GK0
CPU 1515SP PC2** Software-Controller V21.9 - Failsafe Windows LTSC 2019 + HMI 512PT	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, F-CPU, WinCC RT Adv. 512 PT	6ES7677-2SB42-0GL0
CPU 1515SP PC2** Software-Controller V21.9 - Failsafe Windows LTSC 2019 + HMI 2048PT	8-GB RAM 128-GB CFast card Windows 10 IoT Ent. 64Bit, F-CPU, WinCC RT Adv. 2048 PT	6ES7677-2SB42-0GM0
** Bus Adapter	BA 2xRJ45 port (Ethernet)	6ES7193-6AR00-0AA0
** Bus Adapter	BA 2xFC port (Fast Connect)	6ES7193-6AF00-0AA0
ET200SP CM	4 channel IO-Link communication module ST A	6ES7137-6BD00-0BA0

## SIMATIC Software Controller

CPU 1508S [Download]	CPU 1508S S7-1500 Software Controller (Downloadable Version)*	6ES7672-8AC02-0YG0
CPU 1508S [DVD]	CPU 1508S S7-1500 Software Controller (DVD Version) *	6ES7672-8AC02-0YA0
CPU 1507S [Download]	CPU 1507S S7-1500 Software Controller (Downloadable Version)*	6ES7672-7AC02-0YG0
CPU 1507S [DVD]	CPU 1507S S7-1500 Software Controller (DVD Version) *	6ES7672-7AC02-0YA0

\*\* Bus Adapter must be selected for PN IO communication! Use ET200SP modules for IO modules.

# SIMATIC ET200SP Open Controller and Software Controller

Material Type		Order No
<b>SIMATIC Failsafe Software Controller</b>		
CPU 1508S F [Download]	CPU 1508S S7-1500 Failsafe Software Controller (Downloadable Version)*	6ES7672-8FC02-0YG0
CPU 1508S F [DVD]	CPU 1508S S7-1500 Failsafe Software Controller (DVD Version) *	6ES7672-8FC02-0YA0
CPU 1507S F [Download]	CPU 1507S S7-1500 Failsafe Software Controller (Downloadable Version)*	6ES7672-7FC02-0YG0
CPU 1507S F [DVD]	CPU 1507S S7-1500 Failsafe Software Controller (DVD Version) *	6ES7672-7FC02-0YA0

\* The Software Controller comes installed on the Open Controller. It does not need to be purchased separately. 1507S-1508S S7-1500 Software Controller is for use with compatible SIMATIC IPCs, it is important to check the configuration. Firmware V30.0, TIA Portal can be used from version V18 and higher.

<b>SIMATIC ODK</b>		
ODK 1500S V2.5 (Download)	Open Development Kit Software 1500S V2.5 - Product development kit with C/C++ (Downloadable Version)	6ES7806-2CD03-0YG0
ODK 1500S V2.5 (DVD)	Open Development Kit Software 1500S V2.5 (DVD version) Product development kit with C/C++	6ES7806-2CD03-0YA0
Target 1500S™ for Simulink® V6.0 SP2 (Download)	Simulink Integration Software (Downloadable Version)	6ES7823-1BE05-0YA5
Target 1500S™ for Simulink® V2.0...V5.0 > V6.0 SP2 Upgrade (Download)	Upgrade SIMATIC Target 1500S™ for Simulink® V2.0...V5.0 -> V6.0 SP2 (Downloadable Version )	6ES7823-1BE05-0YE5
Target 1500S + ODK 1500S Bundle (Download)	Target 1500S™ Simulink V6.0 SP2+ ODK 1500S V2.5 Package (Downloadable Version)	6ES7823-1BE15-0YA0
SIMATIC Model Based Design 2024 PoC 90-day Bundle (Download)	SIMATIC Target 1500S™ for Simulink® V6.0 PoC DL, SIMATIC ODK 1500S V2.5 PoC, SIMATIC S7-PLCSIM Advanced V7.0 PoC, SIMATIC STEP 7 Professional V20 PoC-90-day license (Downloadable Version)	6ES7823-1BE25-0YA3
SIMATIC ODK 1500S V2.5 PoC-90	SIMATIC ODK 1500S V2.5 PoC-90-day license (Downloadable Version)	6ES7806-2CD03-0YG6

It is recommended to use the TIA Selection Tool to select products.

You can get information from our solution partners about SIPLUS products for products that are required to operate in harsh conditions.(Page 213)



# SIMATIC Software Packages



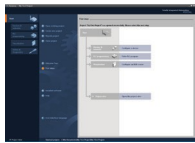
New

Material Type	Package	Order No
<b>TIA Portal Software</b>		
TIA PORTAL CLOUD 365	Download	6ES7804-0CP41-1YA8
STEP7 Prof. V20	DVD Download	6ES7822-1AA24-0YA5 6ES7822-1AE24-0YA5
STEP 7 Prof. 2021 / V20 R3 Combo	DVD Download	6ES7810-5CC17-0YA5 6ES7810-5CE17-0YB5
STEP7 V20 PowerPack1	DVD Download	n.a. 6ES7822-1AE23-0YC5
STEP7 V20 PowerPack2 & Upgrade	DVD Download	n.a. 6ES7822-1AE23-0XC5
STEP7 V20 Combo Upgrade	DVD Download	6ES7822-1AA24-0YE5 6ES7822-1AE24-0YE5

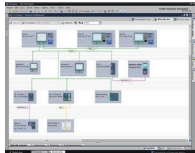


SIMATIC Software Package

<b>Safety Option Packages</b>		
Safety Adv. V20	Failsafe Programming software for TIA Portal	DVD Download 6ES7833-1FA24-0YA5 6ES7833-1FA24-0YH5
Safety Adv. V20 Upgr.	S7 F Dist. for TIA Portal. Safety Adv. V20 upgrade from Safety V5.4 / V11..19	DVD Download 6ES7833-1FA24-0YF5 6ES7833-1FA24-0YY5
S7 F Dist. Safety V5.4	F Series CPU Failsafe Programming Software for Step7 V5.5	DVD Download 6ES7833-1FC02-0YA5 6ES7833-1FC02-0YH5



TIA PORTAL



TIA PORTAL NETWORK VIEW

<b>TIA Portal Options Software</b>		
Multuser	TIA Portal Multuser Engineering V20	DVD Download 6ES7823-1AA24-0YA5 6ES7823-1AE24-0YA5
Cloud Connector	TIA Portal Cloud Connector V2	DVD Download 6ES7823-1CA02-0YA0 6ES7823-1CE02-0YA0
Teamcenter Gateway	TIA Portal Teamcenter Gateway V20	DVD Download n.a. 6ES7823-1EE24-0YA5
Test Suite Advanced	TIA Portal Test Suite Advanced V20	DVD Download n.a. 6ES7823-1TE24-0AA5
ProDiag (250)	SIMATIC ProDiag S7-1500 250 Supervisions	DVD Download 6ES7823-0AA00-1AA0 6ES7823-0AE00-1AA0
ProDiag (Unlimited)	SIMATIC ProDiag S7-1500 250 Supervisions	DVD Download 6ES7823-0AA00-1DA0 6ES7823-0AE00-1DA0
PLCSim Advanced V7.0	SIMATIC S7-PLCSIM Advanced V7.0	DVD Download 6ES7823-1FA06-0YA5 6ES7823-1FE06-0YA5
SIMATIC OPC UA S7-1200 basic	CPU-1200(F) FW> for 4.4	DVD Download 6ES7823-0BA00-2BA0 6ES7823-0BE00-2BA0
SIMATIC OPC UA S7-1500 small	For CPU-1510-1512 / CPU-1511-1513 / CPU-1505S (F)	DVD Download 6ES7823-0BA00-1BA0 6ES7823-0BE00-1BA0
SIMATIC OPC UA S7-1500 middle	For CPU-1515 / CPU-1516- CPU-1507S (F)	DVD Download 6ES7823-0BA00-1CA0 6ES7823-0BE00-1CA0
SIMATIC OPC UA S7-1500 big	For CPU-1517 / CPU-1518 (F)	DVD Download 6ES7823-0BA00-1DA0 6ES7823-0BE00-1DA0



TIA PORTAL DEVICE VIEW

<b>SIMATIC Manager Software</b>		
STEP7 V5.7	S7-30/400 PLC Programming Software	DVD Download 6ES7810-4CC12-0YA5 6ES7810-4CE12-0YB5
STEP7 V5.7 Upgrade	Upgrading S7-30/400 PLC Programming Software to V5.3..5.6 -> V5.7	DVD Download 6ES7810-4CC12-0YE5
STEP 7 Prof. 2021 / V20 Combo	STEP7, PLCSIM, S7 GRAPH, SCL packages+ TIA Portal Combo License. STEP 7 Prof 2021 / TIA V20 combo.	DVD Download 6ES7810-5CC17-0YA5 6ES7810-5CE17-0YB5
STEP7 V20 PowerPack2 & Upgrade	STEP 7 V5.3...V5.7 -> Prof.2021 / TIA V20 Upgrade	DVD Download n.a. 6ES7822-1AE23-0XC5

<b>SIMATIC Manager Option Software</b>		
MODBUS Master	Modbus Master Driver V3.1 for CP 341 / CP 441 Boards	DVD Download 6ES7870-1AA01-0YA0
MODBUS Slave	Modbus Slave Driver V3.1 for CP 341 / CP 441 Boards	DVD Download 6ES7870-1AB01-0YA0

It is recommended to use the TIA Selection Tool to select products.



# SIMATIC SAFETY Family

Parmley Graham | [siemens.com](http://siemens.com)

**SIEMENS**

# SIMATIC SAFETY



1510SP F CPU



S7-1513 F CPU



S7 1500 F CPU

Material Type		Order No
<b>SIMATIC S7 Fail-safe CPU</b>		
CPU 1510SP F-1 PN*	300KB+ 1MB* PROFINET IRT x 3 port*** (BusAdapter)	6ES7510-1SK03-0AB0
CPU 1512SP F-1 PN*	600KB+ 2MB* PROFINET IRT x 3 port*** (BusAdapter)	6ES7512-1SM03-0AB0
CPU 1514SP F-2 PN*	900KB+ 3.5MB* PROFINET IRT x2 port**+ PROFINET RT	6ES7514-2SN03-0AB0
CPU 1511F-1 PN*	450KB+ 1.5MB* PROFINET IRT x 2 port	6ES7511-1FL03-0AB0
CPU 1513F-1 PN*	900KB+ 2.5MB* PROFINET IRT x 2 port	6ES7513-1FM03-0AB0
CPU 1515F-2 PN*	1.5MB+ 4.5MB* PROFINET IRT x 2port+ PROFINET RT	6ES7515-2FN03-0AB0
CPU 1516F-3 PN/DP*	3MB+ 7.5MB* PROFINET IRT x 2port+ PROFINET RT + ProfibusDP	6ES7516-3FP03-0AB0
CPU 1517F-3 PN/DP*	3MB+ 8MB* PROFINET IRTx2port+ PROFINET RT+ ProfibusDP	6ES7517-3FP01-0AB0
CPU 1518F-4 PN/DP*	9MB+ 60MB* PROFINET IRTx2port+ PROFINET + ETHERNET+ ProfibusDP	6ES7518-4FP00-0AB0
CPU 1518F-4 PN/DP MFP*	9MB+ 60MB *PROFINET IRTx2port+ PROFINET RT+ ETHERNET+ ProfibusDP	6ES7518-4FX00-1AC0

\* SMC memory card required.  
 \*\* MMC memory card required !  
 \*\*\* For 3 ports, the appropriate Bus Adapter must be selected from the ET200SP section!

See Page 80 for S7-1200 F G2

## SIMATIC Safety Software

STEP 7 Distributed Safety	Fail-safe Programming for SIMATIC Manager Software (V5.4)	DVD Download	6ES7833-1FC02-0YA5 6ES7833-1FC02-0YH5
STEP 7 Safety Advanced V20	Fail-safe Programming Software for TIA Portal	DVD Download	6ES7833-1FA24-0YA5 6ES7833-1FA24-0YH5
Safety Advance Upgrade	STEP 7 Safety Advanced V20; upgrade DS V5.4 / V11..V19 (Combo) -> STEP7 Safety Advanced V20 (Combo) - Upgrade Package	DVD Download	6ES7833-1FA24-0YF5 6ES7833-1FA24-0YY5



DOWNLOAD



# SIMATIC SAFETY



Material Type		Order No
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## SIMATIC ET 200SP Fail-safe Input/Output Modules

ET 200SP F-DI	F-DI 8 x 24 V DC Fail-safe Digital Input Module	6ES7136-6BA01-0CA0
ET 200SP F-DQ	F-DQ 8 x 24 V DC / 0.5A Fail-safe Digital Output Module	6ES7136-6DC00-0CA0
ET 200SP F-DQ	F-DQ 4 x 24 V DC / 2A Fail-safe Digital Output Module	6ES7136-6DB00-0CA0
ET 200SP F-RQ	F-RQ 1 x 24 V DC / 24..230 V AC / 5A Fail-safe Relay Output Module	6ES7136-6RA00-0BF0
ET 200SP F-PME	PPM Power Module (24 V DC Safe Shutdown of DQ and F-DQ)	6ES7136-6PA00-0BC0
ET 200SP F-AI 4xI(0)4..20mA	F-AI 4 x I 0(4)..20 mA Fail-safe Analog Input Module	6ES7136-6AA00-0CA1
ET 200SP F-AI 4xU 0..10V	F-AI 4 x U 0..10V Fail-safe Analog Input Module	6ES7136-6AB00-0CA1
ET 200SP F-TM Count	F-TM Count 1 x 1Vpp sin/cos Fail-safe Fast Counter Module	6ES7136-6CB00-0CA0
(ET) (200SP) (E-) (Code)	ET 200SP Coding Element for F-DI, F-DQ, F-PM-E Modules (5 pieces)	6ES7193-6EF00-1AA0



As an Interface Module (IM), the ET 200SP can be used with ST, HS or HF.

## SIMATIC ET 200MP Fail-safe Input/Output Modules

ET 200MP F-DI	F-DI 16 x 24 V DC Fail-safe Digital Input Module	6ES7526-1BH00-0AB0
ET 200MP F-DQ	F-DQ 8 x 24 V DC 2A PPM Fail-safe Digital Output Module	6ES7526-2BF00-0AB0

It can be used with ET 200MP, ST or HF as an Interface Module (IM).



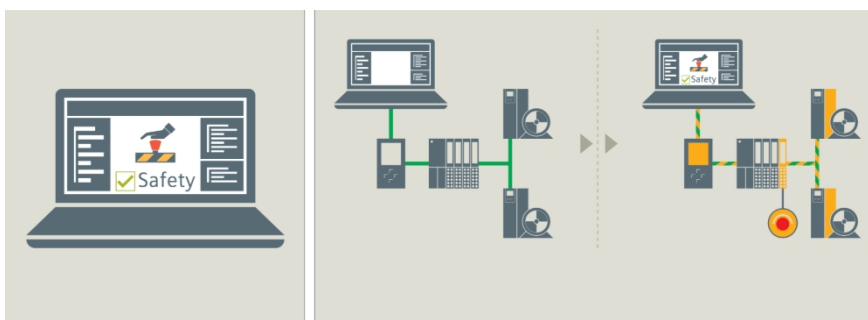
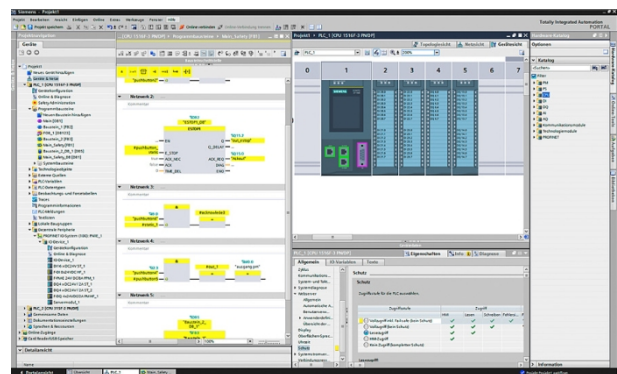
F-DI 16x24 VDC

## SIMATIC ET 200pro - ET 200ecoPN Fail-safe Input / Output Modules

IM 154-2 DP HF	PROFIBUS DP Interface Module	6ES7154-2AA01-0AB0
IM 154-4 PN HF	PROFINET Interface Module	6ES7154-4AB10-0AB0
EM148	8/16 DI Fail-safe; 24V	6ES7148-4FA00-0AB0
EM148	4/8 DI Fail-safe; 24V	6ES7148-4FC00-0AB0
EM148	F Switch Profisafe	6ES7148-4FS00-0AB0
EM146	ET 200eco PN, F-DI 8x24V /F-DQ 3x24V 2A	6ES7146-6FF00-0AB0
CMS	F Switch Profisafe Connection Module	6ES7194-4DA00-0AA0
CMI/O	4/8 DI, 4DO Connection Module	6ES7194-4DC00-0AA0
CMI/O	8/16 DI Connection Module	6ES7194-4DD00-0AA0



It is recommended to use the TIA Selection Tool to select products.



# SIRIUS SAFETY



3SK2 Main Module

New



Material Type	Order No
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## SIRIUS 3SK2 Parameterizable Safety Relays

3SK2 Parameterizable Safety Relay 22.5 mm 10 Safety Inputs, 2 Safety Outputs, 1 Signal Output	3SK2112-2AA10
3SK2 Parameterizable Safety Relay 45 mm 20 safe inputs, 4 safe outputs, 2 signal outputs	3SK2122-2AA10
3SK2 PROFINET Communication Module*	3SK2511-2FA10
Simocode Inter-Module Connection Cable - 0.025 m flat cable	3UF7930-0AA00-0

## SIRIUS 3SK2 Starter Pack, Software and Programming Cable

SIRIUS 3SK2 Starter Pack (3SK2 Parameterizable Safety Relay 22.5 mm and USB Programming Cable. Downloadable Safety ES V20 Basic Software)	3SK2941-2AA11
SIRIUS 3SK2 PROFINET Starter Package (3SK2 Parameterizable Safety Relay 45 mm, PROFINET communication module, RJ45 cable and Safety ES 20 Professional Software)	3SK2942-2AA11
SIRIUS Safety ES V20 (TIA Portal) Professional License (Software DVD and license key in USB)*	3ZS1326-2CC10-0YA5
SIRIUS Safety ES V20 (TIA Portal) Professional License (Downloadable license key)*	3ZS1326-2CE10-0YB5
SIRIUS Safety ES V1.0 to V20 Update License*	3ZS1326-2CC10-0YE5
PC connection cable USB	3UF7941-0AA00-0

\* You can download SIRIUS Safety ES V20 software from the link below and use the basic version for free.

[https://support.industry.siemens.com/cs/document/109793090/sirius-safety-es-v20-\(tia-portal\)?dti=0&lc=en-LY](https://support.industry.siemens.com/cs/document/109793090/sirius-safety-es-v20-(tia-portal)?dti=0&lc=en-LY)

## SIRIUS 3SK2 Connection Connectors\*\*

22.5mm 3SK2 Parameterizable Safety Relay Expansion Connector	3ZY1212-2GA00
45mm 3SK2 Parameterizable Safety Relay Expansion Connector	3ZY1212-4GA01

\*\* Connection Connectors must be used when the 3SK2 parameterizable safety relay is extended with 3SK1 output or 3RM1 motor starter. Connection and termination connectors for 3SK1 and 3RM1 devices can be selected from the Switchgear and Installation Price List.

Note: For other Siemens SIRIUS series safety products, please refer to Switchgear and Installation Technology Price List.

## ET200SP AS-i Master

ET 200SP Safety communication module F-CM AS-i Safety ST	3RK7136-6SC00-0BC1
ET 200SP communication module CM AS-i Master ST	3RK7137-6SA00-0BC1
ET 200SP AS-I communication modules BaseUnit	6ES7193-6BP20-0DC0



With the Sirius Safety Integrated Application Manual (SIAM), which you can download from the link below, you can benefit from ready-made sample safety circuits in accordance with the regulations. You can download and use the control diagrams of the sample circuits, ready-made sample programs and safety evaluation reports free of charge.

<https://support.industry.siemens.com/cs/document/81366718?caller=view&lc=en-WW>

# SIMATIC ET 200SP

## The compact I/O System for the distributed control cabinet



### SIMATIC ET 200SP

The right connection for every performance requirement

**SIEMENS**

*Ingenuity for Life*

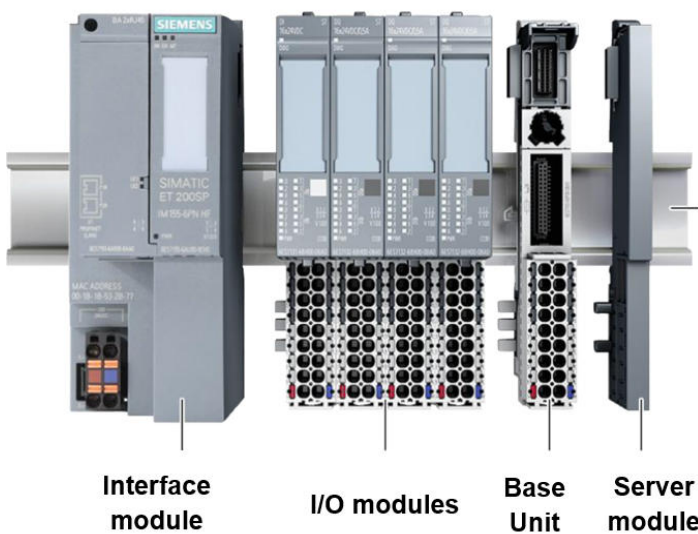
		<b>Basic</b> Up to 12 modules	<ul style="list-style-type: none"> <li>• Basic functions (all modules except Safety can be used)</li> <li>• Operation with gaps</li> <li>• 2 x Ethernet ports</li> </ul>
		<b>Standard</b> up to 32 modules	<ul style="list-style-type: none"> <li>+ Safety Integrated modules</li> <li>+ Expansion in IP 67 (ET 200AL connection)</li> <li>+ Single hot swapping</li> </ul>
		<b>High Feature</b> up to 64 modules	<ul style="list-style-type: none"> <li>+ Flexible connection via copper or fiber optic <u>BusAdapter</u></li> <li>+ Isochronous mode: 250 µs</li> <li>+ Multi hot swapping</li> </ul>
		<b>High Speed</b> up to 30 modules	<ul style="list-style-type: none"> <li>+ Isochronous mode: 125µs</li> </ul>
		<b>CPU</b> up to 64 modules	<ul style="list-style-type: none"> <li>+ S7-1500 CPU integrated</li> <li>+ Web server onboard</li> <li>+ Local data backup using memory card</li> </ul>

### SIMATIC ET 200SP

Mechanical design

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*Ingenuity for Life*



Feature/function	Benefits
Interface module	Flexible connection to PROFINET/PROFIBUS via copper or fiber optic
I/O modules	Large selection of I/O modules flexible in use
BaseUnit: Light-colored: new load group Dark: continue LG Long: +10 auxiliary terminals	<ul style="list-style-type: none"> <li>• Reduced module variance through module/<u>BaseUnit</u> combination</li> <li>• 1- to 3-conductor connection with the same space requirements</li> </ul>

# SIMATIC ET 200SP

## The compact I/O System



SIMATIC ET 200SP

New

Material Type			Order No
<b>SIMATIC ET 200SP CPU and Modular Distributed Input/Output Modules</b>			
<b>Standard CPU</b>			
CPU 1510SP-1 PN*	200 KB+ 1MB* PROFINET IRT x 3 port** (Bus Adapter Required)		6ES7510-1DK03-0AB0
CPU 1512SP-1 PN*	400 KB+ 2MB* PROFINET IRT x 3 ports ** (Bus Adapter Required)		6ES7512-1DM03-0AB0
CPU 1514SP-2 PN*	600 KB+ 3.5MB* PROFINET IRT x 3 port+ PROFINET RT (Bus Adapter Required)		6ES7514-2DN03-0AB0
CM PROFIBUS DP	DP Master Module for 1510SP and 1512SP CPUs		6ES7545-5DA00-0AB0

\* SMC Memory Card required! S7 1500 accessories section.

\*\* It comes with single port. For 3 ports, the appropriate one of the following Bus Adapter products should be selected.

### Fail-safe CPU and I/O Modules

New

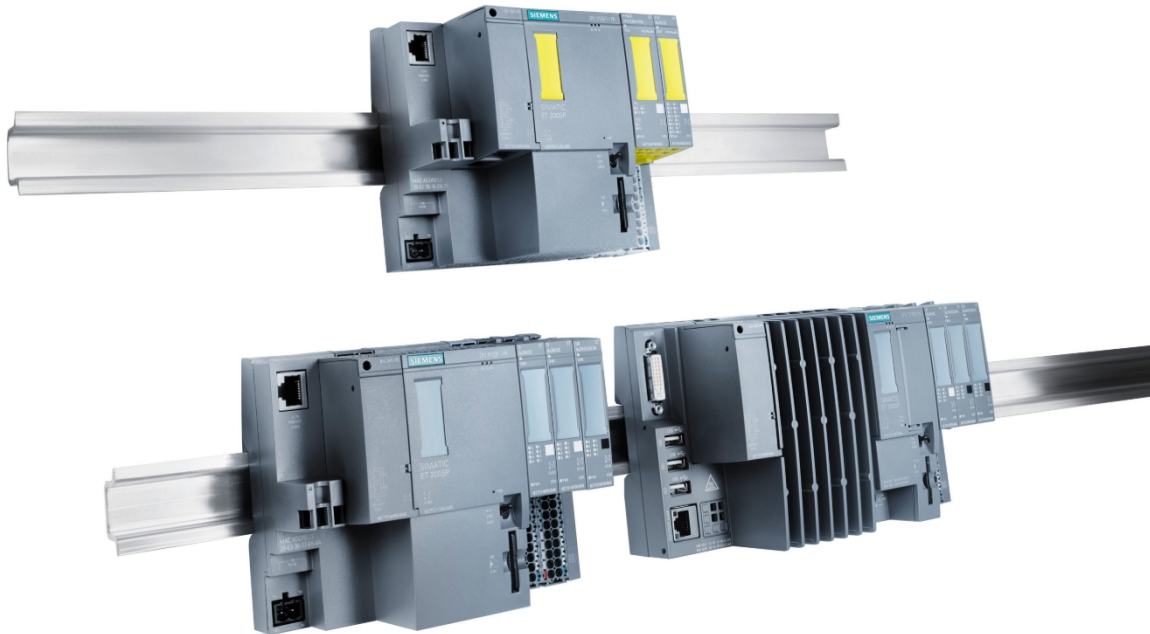
CPU 1510SP F-1 PN*	300KB+ 1MB* PROFINET IRT x 3 port**(BusAdapter)		6ES7510-1SK03-0AB0
CPU 1512SP F-1 PN*	600KB+ 2MB* PROFINET IRT x 3 port**(BusAdapter)		6ES7512-1SM03-0AB0
CPU 1514SP F-2 PN*	900KB+ 3.5MB* PROFINET IRT x 3 port*** PROFINET RT (Bus Adapter Required)		6ES7514-2SN03-0AB0
ET 200SP F-DI	F-DI 8 x 24 V DC Fail-safe Digital Input Module	A	6ES7136-6BA01-0CA0
ET 200SP F-DQ	F-DQ 8 x 24 V DC / 0.5A Fail-safe Digital Output Module	A	6ES7136-6DC00-0CA0
ET 200SP F-DQ	F-DQ 4 x 24 V DC / 2A Fail-safe Digital Output Module	A	6ES7136-6DB00-0CA0
ET 200SP F-RQ	F-RQ 1 x 24 V DC / 24..230 V AC / 5A Fail-safe Relay Output Module	F	6ES7136-6RA00-0BF0
ET 200SP F-PME	PPM Power Module (24 V DC Safe Shutdown of DQ and F-DQ)		6ES7136-6PA00-0BC0
ET 200SP F-AI 4xI(0)4..20mA	F-AI 4 x I 0(4)..20 mA Fail-safe Analog Input Module		6ES7136-6AA00-0CA1
ET 200SP F-AI 4xU 0..10V	F-AI 4 x U 0..10V Fail-safe Analog Input Module		6ES7136-6AB00-0CA1
ET 200SP F-TM Count	F-TM Count 1 x 1Vpp sin/cos Fail-safe Fast Counter Module		6ES7136-6CB00-0CA0

\* SMC Memory Card required! S7 1500 accessories section.

\*\* It comes with appropriate one of the above Bus Adapter products should be selected. # Basic (BA) type cannot be selected as Interface Module (IM) for Failsafe IO.



ET 200SP-F



ET 200SP CPU Family

# SIMATIC ET 200SP

## The compact I/O System



Material Type	Order No
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### SIMATIC ET 200SP Modular Distributed Input/Output Modules

#### Example Configuration: Interface Module+ Base Unit+ I/O Module

Interface Module			
IM 155-6 PN BA	Profinet IM Basic	: Max. 12 ET 200SP Cards, BA 2 x RJ45 Ports	6ES7155-6AR01-0AN0
IM 155-6 PN ST Bundle	Profinet IM Standard	: Max. 32 ET 200SP Cards, BA 2 x RJ45 Ports	6ES7155-6AA02-0BN0
IM 155-6 PN ST **	Profinet IM Standard	: Supports Max.32 ET 200SP Cards	6ES7155-6AU02-0BN0
IM 155-6 PN/2 HF**	Profinet IM High Feature	: Supports Max.64 ET200SP Cards	6ES7155-6AU01-0CN0
IM 155-6 PN HS **	Profinet IM High Speed	: Supports Max.30 ET 200SP Cards	6ES7155-6AU00-0DN0
IM 155-6 PN/3 HF**	Profinet IM High Feature	: Supports Max.64 ET 200SP Cards	6ES7155-6AU30-0CN0
IM 155-6 DP HF	Profibus IM High Feature	: Supports Max.32 ET 200SP Cards	6ES7155-6BA01-0CN0
IM 155-6MF HF	Multiprotocol Interface Module - PROFINET, Ethernet IP, Modbus TCP (Max. 64 ET200SP Cards)		6ES7155-6MU01-0CN0
IM 155-6 PN R1***	R1 Redundanc Interface Module: Supports up to 64 ET 200SP cards		6ES7155-6AU00-0HM0
** Bus Adapter	BA 2x RJ45 Port		6ES7193-6AR00-0AA0
** Bus Adapter	BA 2x FC Port		6ES7193-6AF00-0AA0
** Bus Adapter	BA 2 x SCRJ (for IM155-6 PN HF, IM155-6 PN HS and CPU1512SP)		6ES7193-6AP00-0AA0
** Bus Adapter	BA SCRJ/RJ45 (for IM155-6 PN HF, IM155-6 PN HS and CPU1512SP)		6ES7193-6AP20-0AA0
** Bus Adapter	BA SCRJ/FC (for IM155-6 PN HF, IM155-6 PN HS and CPU1512SP)		6ES7193-6AP40-0AA0
** Bus Adapter	BA 2 x LC (for IM155-6 PN HF, IM155-6 PN HS and CPU1512SP)		6ES7193-6AG00-0AA0
** Bus Adapter	BA LC/RJ45 (for IM155-6 PN HF, IM155-6 PN HS and CPU1512SP)		6ES7193-6AG20-0AA0
** Bus Adapter	BA LC/FC (for IM155-6 PN HF, IM155-6 PN HS and CPU1512SP)		6ES7193-6AG40-0AA0
Bus Adapter	ET 200AL BusAdapter "BA-Send 1xFC" ET Link Communication Module G		6ES7193-6AS00-0AA0
Base Unit			
BU covers	5 x Base Unit Cover, 15 mm. for Protection of Empty Slots.		6ES7133-6CV15-1AM0
BU covers	5 x Base Unit Cover, 20 mm. for Protection of Empty Slots.		6ES7133-6CV20-1AM0
BU15-P16+A0+2B	Base Unit, 16 Pin I/O, Feed-through (Black)	A	6ES7193-6BP00-0BA0
BU15-P16+A0+2D	Base Unit, 16 Pin I/O, Feed-through (White)	A	6ES7193-6BP00-0DA0
BU15-P16+A10+2B	Base Unit, 16 Pin I/O, 10 Common Bus Terminals, Feed-through (Black)	A	6ES7193-6BP20-0BA0
BU15-P16+A10+2D	Base Unit, 16 Pin I/O, 10 Common Bus Terminals, Supply Source (White)	A	6ES7193-6BP20-0DA0
BU15-P16+A0+2B/T #	Base Unit, 16 Pin I/O, Temperature, Supply Transmitted (Black)	B	6ES7193-6BP00-0BA1
BU15-P16+A0+2D/T #	Base Unit, 16 Pin I/O, Temperature, Supply Transmitted (White)	B	6ES7193-6BP00-0DA1
BU15-P16+A0+12B/T #	Base Unit, 16 Pin I/O, Temperature, 5+5 Common Bus Terminal, Feed-Through (Black)	B	6ES7193-6BP40-0BA1
BU15-P16+A0+12D/T #	Base Unit, 16 Pin I/O, Temperature, 5+5 Common Bus Terminal, Supply Source (White)	B	6ES7193-6BP40-0DA1
BU20-P12+A4+0B	Base Unit, 12 Pin I/O, 4 Common Bus Terminals, Feed-Through (Black)	C	6ES7193-6BP20-0BB0
BU20-P16+A0+2D	Base Unit, 16 pin, supply source (White)	D	6ES7193-6BP00-0DU0
BU20-P16+A0+2B	Base Unit, 16 pin, with feed-through (Black)	D	6ES7193-6BP00-0BU0
BU20-P6+A2+4D	Base Unit, 6 Pin, 2 Common Bus Terminals, Feed-through (White)	E	6ES7193-6BP20-0DC0
BU20-P8+A4+0B	Base Unit, 8 Pin, 4 Common Bus Terminals, Feed-through (Black)	F	6ES7193-6BP20-0BF0
BU-SEND	Base Unit, BU-SEND, For ET Connection via ET200SP	G	6ES7193-6BN00-0NE0
BU20-P12+A0+4B	Base Unit, 12 Pin I/O, Feed-through (Black)	H	6ES7193-6BP20-0BB1
BU20-P16+A0+2D	Base Unit, 16 Pin I/O, Feed-through (White)	J	6ES7193-6BP00-0DU0
BU20-P16+A0+2B	Base Unit, 16 Pin I/O, Feed-through (Black)	J	6ES7193-6BP00-0BU0
BU20-P6+A2+4B	Base Unit, 16 Pin I/O, Feed-through (Black)	J	6ES7193-6BP20-0BC1
Server module	Server Module For ET 200SP		6ES7193-6PA00-0AA0



IM 155-6 PN ST Bundle



ET 200SP BUS ADAPTER



BASE UNIT



16 Pin IO, 10 AUX BU20

\*\* PN comes without port. For 2 ports, the appropriate one of the above Bus Adapter products should be selected.

\*\*\* Please Siemens office for R1 Redundant configuration. # Products temperature compensation for TC.

# SIMATIC ET 200SP

## The compact I/O System



Material Type	Order No
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### SIMATIC ET 200SP Modular Distributed Input/Output Modules

#### I/O Module

MEAT 200SP 8DI/8DQ	8DI/8DQ, 24 V DC/0.5A digital input and output combo module, Standard A	6ES7133-6BH00-0BA0
ET 200SP 4DI	4DI, 120..230 V AC Digital Input Module	H 6ES7131-6FD01-0BB1
ET 200SP 8DI BA Source	8DI, 24V Digital Input Module, Basic (NPN to M readout)	A 6ES7131-6BF61-0AA0
ET 200SP 8DI BA	8DI, 24V Digital Input Module, Basic	A 6ES7131-6BF01-0AA0
ET 200SP 8DI BA	8DI, 24 VAC..48 V AC Input Module,Basic	J 6ES7131-6CF00-0AU0
ET 200SP 8DI ST	8DI, 24V Digital Input Module, Standard	A 6ES7131-6BF01-0BA0
ET 200SP 8DI HF	8DI ; 24V Digital Input Module, High Feature	A 6ES7131-6BF00-0CA0
ET 200SP 8DI HS	8DI ; 24V Digital Input Module, High Speed	A 6ES7131-6BF00-0DA0
ET 200SP 8DI NAMUR HF	8DI, 24V Digital Input Module Namur, High Feature	A 6ES7131-6TF00-0CA0
ET 200SP 16DI ST	16DI, 24V Digital Input Module, Standard	A 6ES7131-6BH01-0BA0
MEAT 200SP 3DQ ST	3DQ,Relay RQ COni 3x120VDC..230VAC/5A ST	A 6ES7132-6HC50-0BU0
MEAT 200SP 4DQ ST	4DQ, 24V, 2A, Digital Output Module, Standard	A 6ES7132-6BD21-0BA0
ET 200SP 4DQ ST AC/2A	4DQ, 24...230 VAC, 2A, Digital Input Module, Standard	H 6ES7132-6FD00-0BB1
ET 200SP 4DQ PC HF	4DQ, Power Control, 4x24-230VAC/2A, High Feature	J 6ES7132-6FD00-0CU0
ET 200SP 4DQ HS	4DQ, 24V, 2A, Digital Input Module, High Speed	A 6ES7132-6BD20-0DA0
ET 200SP 4RQ ST CO	4RQ : Relay 4x24VDC/2A CO, Standard	A 6ES7132-6GD51-0BA0
ET 200SP 4RQ ST NO	4RQ : Relay 4x120VDC-230VAC/5A NO, Standard	C,H 6ES7132-6HD01-0BB1
ET 200SP 4RQ ST NO MA	4RQ : Relay 4x120VDC-230VAC/5A NO MA, Standard	C,H 6ES7132-6MD00-0BB1
ET200SP 8DQ BA	8DQ, 24V, 0.5A, Digital Output Module, Basic	A 6ES7132-6BF01-0AA0
ET 200SP 8DQ BA Sink	8DQ, 24V, 0.5A, Digital Output Module, Basic (Sink, M-switch)	A 6ES7132-6BF61-0AA0
ET 200SP 8DQ ST	8DQ ; 24V / 0.5A Digital Output Module, Standard	A 6ES7132-6BF01-0BA0
ET 200SP 8DQ HF	8DQ ; .5A Digital Output Module, High Feature	A 6ES7132-6BF01-0CA0
MEAT 200SP 16DQ BA	16DQ, 24V, 0.5A, Digital Output Module, Basic	A 6ES7132-6BH00-0AA0
ET 200SP 16DQ ST	16DQ, 24V, 0.5A, Digital Output Module, Standard	A 6ES7132-6BH01-0BA0
ET 200SP 2AI ST [mA]	AI 2xI mA, 2-/4-wire Analog Input Module, Standard	A,B 6ES7134-6GD00-0BA1
ET 200SP 2AI ST [V]	AI 2xU V, Analog Input Module, Standard	A,B 6ES7134-6FB00-0BA1
ET 200SP 2AI HF [V, mA]	AI 2xU/I V, mA, 2/4 Wire Analog Input Module, High Feature	A,B 6ES7134-6HB00-0CA1
ET 200SP 2AI HS [V, mA]	AI 2xU/I V, mA, 2/4 Wire Analog Input Module, High Speed	A,B 6ES7134-6HB00-0DA1
ET 200SP 4AI ST [mA]	AI 4xI mA, 2/4 Wire Analog Input Module, Standard	A,B 6ES7134-6GD01-0BA1
ET 200SP 4AI ST [V, mA]	AI 4xU/I V, mA, 2-Wire Analog Input Module, Standard	A,B 6ES7134-6HD01-0BA1
ET 200SP 4AI HF [RTD, TC]	AI 4xRTD/TC 2/3/4 Wire Analog Input Module, High Feature	A,B 6ES7134-6JD00-0CA1
ET 200SP 4AI HS [TC]	AI 4xTC 2-Wire Analog Input Module, High Speed	A,B 6ES7134-6JD00-0DA1
ET 200SP 4AI HF [mA] HART	AI 4xI mA, 2-Wire Analog HART Input Module, Standard	A,B 6ES7134-6TD00-0CA1
ET 200SP 8AI BA [V]	AI 8xU V, Analog Input Module, Basic	A,B 6ES7134-6FF00-0AA1
ET 200SP 8AI BA [mA]	AI 8xI mA, Analog Input Module, Basic	A,B 6ES7134-6GF00-0AA1
ET 200SP 8AI HF [RTD, TC]	AI 8xRTD/TC 2 Wire Analog Input Module, High Feature	A,B 6ES7134-6JF00-0CA1
ET 200SP AI Energy HF	AI Energy Meter 480V AC/CT HF	6ES7134-6PA01-0CU0
ET 200SP AI Energy ST	AI Energy Meter CT ST, for 1A or 5A Current Transformer	D 6ES7134-6PA01-0BU0
ET 200SP AI Energy HF	AI Energy Meter 480V AC/RC HF	6ES7134-6PA21-0CU0
ET 200SP AI Energy ST	AI Energy Meter RC ST, Rogowski Coils or Cur./Volt Transformer 330mV	D 6ES7134-6PA21-0BU0
ET 200SP 2AO ST [V]		
ET 200SP 2AO ST [mA]	AQ 2xI mA, Analog Output Module, Standard	A,B 6ES7135-6GB00-0BA1
ET 200SP 2AO HF [V, mA]		
ET 200SP 2AO HS [V, mA]	AQ 2xU/I V, mA Analog Output Module, High Speed	A,B 6ES7135-6HB00-0DA1
ET 200SP 4AO ST [V, mA]		
ET 200SP TM Count	Fast counter, 1 channel, 24 V, 200 kHz, 3DI, 2DQ, Incremental Encoder	A 6ES7138-6AA01-0BA0
ET 200SP TM Pos Input		
ET 200SP TM Timer	TM Timer DIDQ 10x24V, 4DI, 6DQ, Time Controlled Inputs Outputs	A 6ES7138-6CC00-0BA0
ET 200SP TM Pulse		
ET 200SP CM PiP	1 Channel RS232/422/485, Free Port, ASCII/3964/USS/Modbus RTU(M/S)	A 6ES7137-6AA01-0BA0
ET 200SP CM 4xIO-Link ST		
ET 200SP CM 1x DALI	1 Channel DALI Master Module	J 6ES7137-6CA00-0BU0
MEAT 200SP CM CAN		
CP 1542SP-1 IRC	DNP3 or IEC 60870-5-104 RTU Module*	6GK7542-6VX00-0XE0
CP 1542SP-1		
CP 1543SP-1	Ethernet module (Firewall, VPN)*	6GK7543-6WX00-0XE0

#### Power Supply

ET 200SP PS, 24 V DC/5A		
ET 200SP PS, 24 V DC/10A	ET200SP Power Supply, 120/230VAC, DC 24V 10A, 160x117x75	6EP7133-6AE00-0BN0

\*Bus adapter required.

#It is recommended to use the TIA Selection Tool to select products.

##For products that are required to operate in harsh conditions, you can get information about SIPLUS products from our solution partners.(Page 213)



ET 200SP DI 16x24V DC



ET 200SP DQ 4x24V DC



ET 200SP CM 1x DALI



ET 200SP CM 4x IO-LINK

## SIMATIC ET 200AL The Block I/O System for IP65/67

SIEMENS

Flexible Commissioning +

Robustness +

Sensors and Actuators +  
M8 and M12 connection option

Increased Reliability +

Open structure and easy integration +

Safe with SIL2 / PLd disconnection +



## SIMATIC ET 200eco PN Block IO in IP65/67

SIEMENS

Flexible installation +

Robust and Reliable +

Channel-based diagnostics and Hardware Interrupt +

Isochronous Operation +

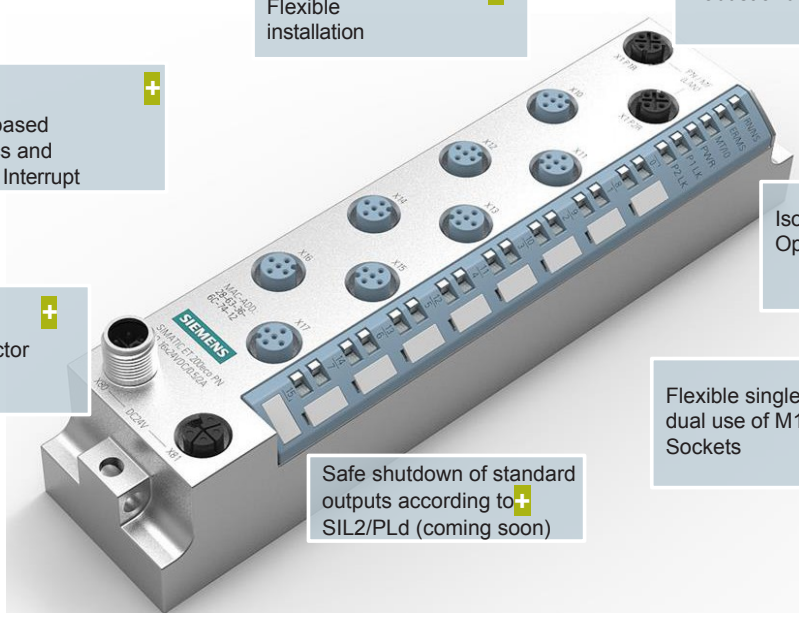
M12 L-coded high current with connector +

Flexible single and dual use of M12 IO Sockets +

Safe shutdown of standard outputs according to SIL2/PLd (coming soon) +



up to -40° C operating temperature





# SIMATIC ET 200AL

## Distributed Inputs/Outputs

Material Type	Order No
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### SIMATIC ET 200AL Block Distributed Input/Output Modules

#### Interface Module

IM157-1 DP	PROFIBUS Interface Module	6ES7157-1AA00-0AB0
IM157-1 PN	PROFINET Interface Module	6ES7157-1AB00-0AB0
BU-SEND	ET 200SP Connection Module Base Unit	6ES7193-6BN00-0NE0
BA-SEND	ET 200SP Connection Module 1 x FC Base Unit	6ES7193-6AS00-0AA0

#### Electronic module

ET 200AL 8DI	DI 8x24VDC, 8xM8	6ES7141-5BF00-0BA0
ET 200AL 8DI	DI 8x24VDC, 4xM12	6ES7141-5AF00-0BA0
ET 200AL 8DI	DI 16x24VDC, 8xM12	6ES7141-5AH00-0BA0
ET 200AL 8DO	DQ8 x 24VDC/2A, 8xM12	6ES7142-5AF00-0BA0
ET 200AL 8DI/DQ	DIQ4+ DQ4 x 24VDC / 0.5A, 4 x M12	6ES7143-5AF00-0BA0
ET 200AL 8DI/DQ	DIQ4+ DQ4 x 24VDC/0.5A, 8 x M8	6ES7143-5BF00-0BA0
ET 200AL, DIQ 16x24	DIQ16 x 24VDC/0.5A, 8 x M12	6ES7143-5AH00-0BA0
ET 200AL 4AI	AI4 x U/RTD, 4 x M12	6ES7144-5KD00-0BA0
ET 200AL 4AI	AI4 x RTD/TC, 4 x M12	6ES7144-5KD50-0BA0
ET 200AL 4AQ	AQ4 x U/I, 4 x M12	6ES7144-5KD50-0BA0
ET 200AL CM 4 x IO LINK	CM4 x IO-Link, 4 x M8	6ES7147-5JD00-0BA0
ET 200AL IO-Link DI16	DI16 x 24 V DC, 8 x M12	6ES7141-5AH00-0BLO
ET 200AL IO-Link DI8	DI8 x 24 V DC, 8x M8	6ES7141-5BF00-0BLO
ET 200AL IO-Link DQ8	DQ8x 24 V DC/2 A, 8xM12	6ES7142-5AF00-0BLO
ET 200AL IO-Link DIQ16	DIQ16 x 24 V DC/0.5 A, 8x M12	6ES7143-5AH00-0BLO
ET 200AL IO-Link DIQ4+DQ4	DIQ 4+DQ 4x 24 V DC/0.5 A, 8x M8	6ES7143-5BF00-0BLO

#### Accessories

ET 200AL Connector	M8 connector for ET-CONNECTION,4-pin, shielded	6ES7194-2AB00-0AA0
Power Connection Connector	M8 Power Connector, Male , 4-pin	6ES7194-2AA00-0AA0
Power Connection Connector	M8 Power Connector, Female , 4-pin	6ES7194-2AC00-0AA0

#### Ready ET Connection Cables

ET Connection Cable	Double sided 0.19 m with 2xM8 Ready Connectors	6ES7194-2LH02-0AA0
ET Connection Cable	Double sided 0.2 m with 2xM8 Ready Connectors	6ES7194-2LH02-0AD0
ET Connection Cable	Double sided 0.3 m with 2xM8 Ready Connectors	6ES7194-2LH03-0AA0
ET Connection Cable	Double-sided 2xM8 with Ready Connectors1.0 m	6ES7194-2LH10-0AA0
ET Connection Cable	Double-sided 2.0 m with 2xM8 Ready Connectors	6ES7194-2LH20-0AA0
ET Connection Cable	Double-sided 5.0 m with 2xM8 Ready Connectors	6ES7194-2LH50-0AA0
ET Connection Cable	Double-sided 10.0 m with 2xM8 Ready Connectors	6ES7194-2LN10-0AA0
ET Connection Cable	Double-sided 2xM8 0.3 m with Angled Ready Connectors	6ES7194-2LH03-0AB0
ET Connection Cable	Double-sided 2xM8 1.0 m with Angled Ready Connectors	6ES7194-2LH10-0AB0
ET Connection Cable	Double-sided 2xM8 2.0 m with Angled Ready Connectors	6ES7194-2LH20-0AB0
ET Connection Cable	Double-sided 2xM8 5.0 m with Angled Ready Connectors	6ES7194-2LH50-0AB0
ET Connection Cable	Double-sided 2xM8 10.0 m with Angled Ready Connectors	6ES7194-2LN10-0AB0
ET Connection Cable	Single-sided 2.0 m with 1xM8 Angle Ready Connector	6ES7194-2LH20-0AC0
ET Connection Cable	Single-sided 1xM8 5.0 m with Angled Ready Connector	6ES7194-2LH50-0AC0
ET Connection Cable	Single-sided 10.0 m with 1xM8 Angle Ready Connector	6ES7194-2LN10-0AC0

#### Ready-made Power Connection Cables

Power Connection Cable	Double sided 0.19 m with 2xM8 Ready Connectors	6ES7194-2LH02-1AA0
Power Connection Cable	Double sided 0.3 m with 2xM8 Ready Connectors	6ES7194-2LH03-1AA0
Power Connection Cable	Double-sided 2xM8 with Ready Connectors1.0 m	6ES7194-2LH10-1AA0
Power Connection Cable	Double-sided 2.0 m with 2xM8 Ready Connectors	6ES7194-2LH20-1AA0
Power Connection Cable	Double-sided 5.0 m with 2xM8 Ready Connectors	6ES7194-2LH50-1AA0
Power Connection Cable	Double-sided 10.0 m with 2xM8 Ready Connectors	6ES7194-2LN10-1AA0
Power Connection Cable	Double-sided 2xM8 0.3 m with Angled Ready Connectors	6ES7194-2LH03-1AB0
Power Connection Cable	Double-sided 2xM8 1.0 m with Angled Ready Connectors	6ES7194-2LH10-1AB0
Power Connection Cable	Double-sided 2xM8 2.0 m with Angled Ready Connectors	6ES7194-2LH20-1AB0
Power Connection Cable	Double-sided 2xM8 5.0 m with Angled Ready Connectors	6ES7194-2LH50-1AB0
Power Connection Cable	Double-sided 2xM8 10.0 m with Angled Ready Connectors	6ES7194-2LN10-1AB0
Power Connection Cable	Single-sided 2.0 m with 1xM8 Angle Ready Connector	6ES7194-2LH20-1AC0
Power Connection Cable	Single-sided 1xM8 5.0 m with Angled Ready Connector	6ES7194-2LH50-1AC0
Power Connection Cable	Single-sided 10.0 m with 1xM8 Angle Ready Connector	6ES7194-2LN10-1AC0



ET 200AL DIQ 16x24 V



ET 200AL IO-Link DI16



ET 200AL Family



#It is recommended to use the TIA Selection Tool to select products.

# SIMATIC ET 200eco PN

## Distributed Inputs/Outputs



Material Type	Order No
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### SIMATIC ET 200eco PN IP6x Panelless Operation Modular Distributed Input/Outputs

BM 141 PN	Basic Module, PROFINET ET 200eco PN, 8DI, 24 V DC, M 12-L, 8 x M12, IP67 / IP69K	6ES7141-6BG00-0BB0
BM 141 PN	Basic Module, PROFINET ET 200eco PN, 16DI, 24 V DC, M 12-L, 8 x M12, IP67 / IP69K	6ES7141-6BH00-0BB0
BM 142 PN	Basic Module, PROFINET ET 200eco PN, 8DO, 24 V DC, 0.5 A, M 12-L, 8 x M12, IP67 / IP69K	6ES7142-6BG00-0BB0
BM 142 PN	Basic Module, PROFINET ET 200eco PN, 8DO, 24 V DC, 2 A, M 12-L, 8 x M12, IP67 / IP69K	6ES7142-6BR00-0BB0
BM 146 PN	Basic Module, PROFINET ET 200eco PN, F-DI 8x24V /F-DQ 3x24V 2A, PL E, SIL 3, IP 65/67	6ES7146-6FF00-0AB0
BM 143 PN	Basic Module, PROFINET ET 200eco PN, 16 DIO 24 V DC/0.5A-2A, M12-L, 8xM12, IP67 / IP69K	6ES7143-6BH00-0BB0
BM 148 PN	Basic Module, SIMATIC ET 200eco PN, CM 4x IO-Link+ DIQ 12x 24 V DC/0.5 A/2 A, M12-L, 8x M12, IP67/IP69K	6ES7148-6JE00-0BB0
BM 148 PN	Basic Module, PROFINET ET 200eco PN, CM 8 x IO-Link+ 4 DI 24V DC, M 12-L, 8 X M12, IP67 / IP69K	6ES7148-6JD00-0AB0
BM 148 PN	Basic Module, SIMATIC ET 200eco PN, CM 8x IO-Link+ DIQ 8x 24 V DC/0.5 A, M12-L, 8x M12, IP67 / IP69K	6ES7148-6JG00-0BB0
BM 144 PN	Basic Module, SIMATIC ET 200eco PN, AI 8xRTD/TC, M12-L, 8x M12, IP67 / IP69K	6ES7144-6JF00-0BB0
BM 146 PN	Basic Module, SIMATIC ET 200eco PN, AI 6x U/I + AIQ 2x U/I, M12-L, 8x M12, IP67 / IP69K	6ES7146-6HF00-0BB0
BM 147 PN	Basic Module, ET 200eco PN TM PosInput 2, M12-L for counter and position detection	6ES7147-6AB00-0BB0
IE FC M12 Plug PRO	M12, 4-pole PROFINET metal connector, 1 piece	6GK1901-0DB20-6AA0
IE Power M12*	M12, 4 poles, female, power connector, 3 pcs	6GK1907-0DC10-6AA3
IE Power M12*	M12, 4 poles, male, power connector, 3 pcs	6GK1907-0DB10-6AA3



ET 200eco PN M12-L



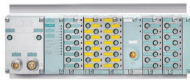
ET 200eco PN M12-L IO-Link Master

BM PN products have 2x M12 Profinet ports and 2x M12 power ports.  
 \* Shipping costs will be added to the prices for these

products! It is recommended to use the TIA Selection Tool to select products.

# SIMATIC ET 200ISP

## Distributed Inputs/Outputs



ET200 PRO



IM 154



CPU 1513PRO-2 PN



IM 154-6 IWLAN



ET200 PRO I/O



IE M12 FC PLUG PRO

Material Type		Order No
<b>SIMATIC ET200 PRO IP65 Panelless Operation Modular Distributed Inputs/Outputs</b>		
<b>Interface Module</b>		
IM 154-1 DP Standard	PROFIBUS IM, max. Supports 16 ET200 PRO cards	6ES7154-1AA01-0AB0
IM 154-2 DP HF	PROFIBUS IM, max. Supports 16 ET200 PRO cards, advanced diagnostics	6ES7154-2AA01-0AB0
IM 154-3 PN	PROFINET IM supports max. Supports 16 ET200 PRO cards	6ES7154-3AB00-0AB0
IM 154-4 PN HF	PROFINET IM supports max. Supports 16 ET200 PRO cards	6ES7154-4AB10-0AB0
CM IM DP M12, 7/8"	PROFIBUS Connection, 2 x M12, power connection 2 x 7/8"	6ES7194-4AD00-0AA0
CM IM DP ECOFAST	ECOFAST Connection, 2 x ECOFAST	6ES7194-4AA00-0AA0
IM 154-4 PN HF	PROFINET IM, max. Supports 16 ET200 PRO cards, advanced diagnostics	6ES7154-4AB10-0AB0
CM IM PN M12, 7/8"	PROFINET Connection, 2 x M12, power connection 2 x 7/8"	6ES7194-4AJ00-0AA0
CM IM PN Push-Pull	PROFINET Connection, 2 x Push-Pull RJ45, power connection 2 x Push-Pull power	6ES7194-4AF00-0AA0
<b>CPU</b>		
CPU 1513PRO-2 PN***	ET 200 PRO CPU, CPU1513PRO-2PN, 600 KB+ 2.5 MB memory, IP65/67	6ES7513-2PM03-0AB0
CPU 1516PRO-2 PN***	ET200 PRO CPU 2MB+ 7.5MB memory, IP65/67	6ES7516-2PP03-0AB0
CM CPU 2PN M12, 7/8"	CM CPU 2PN M12, 7/8"	6ES7194-4AP00-0AA0
PME	Power Module, 24 V DC power module	6ES7148-4CA00-0AA0
CM PM M12, 7/8"	Connection Module, 1 x 7/8" for power module	6ES7194-4BD00-0AA0
CM PM ECOFAST	Connection Module, 1 x ECOFAST for power module	6ES7194-4BA00-0AA0
CM PM Push-Pull	Connection Module, 2 x Push-Pull for power module	6ES7194-4BE00-0AA0
<b>Failsafe:</b>		
CPU 1513PRO F-2 PN***	ET 200 PRO CPU, CPU1513PRO F-2PN, 450 KB + 1.5 MB memory, IP65/67	6ES7513-2GM03-0AB0
CPU 1516PRO F-2 PN***	ET200 PRO CPU Failsafe 3MB+ 7.5MB memory, IP65/67	6ES7516-2GP03-0AB0
EM148	8/16 DI Failsafe, 24 V	6ES7148-4FA00-0AB0
EM148	4/8 DI, 4 DO Failsafe, 24 V	6ES7148-4FC00-0AB0
EM148	F Switch PROFIsafe	6ES7148-4FS00-0AB0
CM S	F Switch PROFIsafe connection module	6ES7194-4DA00-0AA0
CM I/O	4/8 DI, 4 DO connection module	6ES7194-4DC00-0AA0
CM I/O	8/16 DI connection module	6ES7194-4DD00-0AA0
<b>Electronic Module</b>		
EM 141	8DI, 24 V electronic module A,B,C	6ES7141-4BF00-0AA0
EM 141 HF	8DI, 24 V electronic module A,B,C	6ES7141-4BF00-0AB0
EM 141	16DI, 24 V electronic module A,B,C	6ES7141-4BH00-0AA0
EM 142	4DO, 24 V, 2 A electronic module A,B,C	6ES7142-4BD00-0AA0
EM 142 HF	4DO, 24 V, 2 A electronic module A,B,C	6ES7142-4BD00-0AB0
EM 142	8DO, 24 V, 2 A electronic module A,B,C	6ES7142-4BF00-0AA0
EM 143	4DIO/4DO 24 V electronic module A,B,C	6ES7143-4BF00-0AA0
EM 143	4DI/4DO 24 V electronic module A,B,C	6ES7143-4BF50-0AA0
EM 144 HF	4AI, V, 15-bit, electronic module C	6ES7144-4FF01-0AB0
EM 144 HF	4AI, mA, 15-bit, 2/4-wire connection, electronic module C	6ES7144-4GF01-0AB0
EM 144 HF	4AI, TC, 15-bit electronic module C	6ES7144-4PF00-0AB0
EM 144 HF	4AI, RTD, 15-bit electronic module C	6ES7144-4JF00-0AB0
EM 144 HF	4A0, V, 14/15-bit electronic module C	6ES7145-4FF00-0AB0
EM 144 HF	4A0, mA, 14/15-bit electronic module C	6ES7145-4GF00-0AB0
EM 147 HF	4 IO-Link C	6ES7147-4JD00-0AB0
CM IO 8 X M12	Connection Module A: 8 x M12	6ES7194-4CB00-0AA0
CM IO 8 X M8	Connection Module B: 8 x M12	6ES7194-4EB00-0AA0
CM IO 4 X M12	Connection Module C: 4 x M12	6ES7194-4CA00-0AA0

\* For these products, transportation cost will be added to the prices.  
 \*\* MMC Memory card required.  
 \*\*\*SMC Memory card required.

In IM/CPU products, female and male connectors must be used for power, DP, PN connection. 7/8 female connector is required for IWLAN power connection.  
 Connection modules must be ordered separately according to the board type.

# SIMATIC ET 200eco PN

## Distributed Inputs/Outputs



Material Type		Order No
<b>SIMATIC ET200 PRO IP65 Panelless Operation Modular Distributed Inputs/Outputs</b>		
<b>Accessories</b>		
Rail 500 mm	ET200 PRO Rail, 500 mm	6ES7194-4GC70-0AA0
Rail 1000 mm	ET200 PRO Rail, 1000 mm	6ES7194-4GC60-0AA0
Rail 2000 mm	ET200 PRO Rail, 2000 mm	6ES7194-4GC20-0AA0
M12 DP Connector*	PROFIBUS M12, male connector, pack of 5	6GK1905-0EA00
M12 DP Connector*	PROFIBUS M12, female connector, pack of 5	6GK1905-0EB00
7/8" Connector*	7/8", male connector, pack of 5	6GK1905-0FA00
7/8" Connector*	7/8", female connector, pack of 5	6GK1905-0FB00
7/8" CAP	Unused terminal protection cap, pack of 10	6ES7194-3JA00-0AA0
7/8" T-TAP	T-type power connector, 2 x female input, 1 x male output	6GK1905-0FC00
ECOFAST Connector*	ECOFAST male connector, 5-pack	6GK1905-0CA00
ECOFAST Connector*	ECOFAST female connector, 5-pack	6GK1905-0CB00
ECOFAST CAP	Unused terminal protection cap, pack of 10	6ES7194-1JB10-0XA0
Push-Pull Connector*	Push-Pull RJ45	6GK1901-1BB10-6AA0
Push-Pull Connector*	Push-Pull Power Connector	6GK1907-0AB11-6AA0
Insurance*	Replacement Fuse, 12.5A fuse for IM and PM, pack of 10	6ES7194-4HB00-0AA0
M12 IE FC Plug PRO	PROFINET M12 connector	6GK1901-0DB20-6AA0
M12 IE FC Plug PRO	PROFINET M12 connector, pack of 8	6GK1901-0DB20-6AA8

\* Transportation cost will be added to the prices for these products.

\*\* MMC Memory card required.

\*\*\*SMC Memory card required.

In IM/CPU products, female and male connectors must be used for power, DP, PN connection. 7/8 female connector is required for IWLAN power connection.

Connection modules must be ordered separately according to the board type.



IE M12 FC PLUG PRO



ET200PRO IO F

# SIMATIC ET 200ISP

## Distributed Inputs/Outputs



ET200ISP-FAILSAFE-REDUNDANT-750



ET200ISP-FAILSAFE-REDUNDANT-750

Material Type		Order No
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### SIMATIC ET200ISP Distributed Inputs/Outputs

IM 152-1 DP	IM152-1ET200ISP PROFIBUS DP, INTERFACE MODULE FOR STANDARD AND REDUNDANT SYSTEMS	6ES7152-1AA00-0AB0
TM-IM/EM60S	Terminal Module Interface Module / Electronics Module (blue screw type)	6ES7193-7AA00-0AA0
TM-IM/EM60C	Terminal Module Interface Module / Electronics Module (blue printing type)	6ES7193-7AA10-0AA0
TM-IM/IM	Terminal Module Interface Module / Interface Module (black screw type)	6ES7193-7AB00-0AA0
PS 24 V DC	Power Supply Module 24 V DC	6ES7193-7AA10-0AA0
TM-PSA	Power Supply Standard Terminal Module DC	6ES7193-7DA10-0AA0
TM-PSB	Power Supply Terminal Module DC for Redundant Systems	6ES7193-7DB10-0AA0
PS 120/230 V AC	Power Supply Module 120/230 V AC	6ES7138-7EC00-0AA0
TM-PS-A UC	Power Supply Standard Terminal Module AC	6ES7193-7DA20-0AA0
TM-PS-B UC	Power Supply Terminal Module AC for Redundant Systems	6ES7193-7DB20-0AA0
8 x DI Namur	Digital Input Module 8 DI NAMUR	6ES7131-7RF00-0AB0
4 x DO	Digital Output Module 4 DO 23.1 V DC/20 mA ("H"-SHUT DOWN)	6ES7132-7RD01-0AB0
4 x DO	Digital Output Module 4 DO 17.4 V DC/27 mA ("H"-SHUT DOWN)	6ES7132-7RD11-0AB0
4 x DO	Digital Output Module 4 DO 17.4 V DC/40 mA ("H"-SHUT DOWN)	6ES7132-7RD22-0AB0
4 x DO	Digital Output Module 4 DO 23.1 V DC/20 mA ("L"-SHUT DOWN)	6ES7132-7GD00-0AB0
4 x DO	Digital Output Module 4 DO 17.4 V DC/27 mA ("L"-SHUT DOWN)	6ES7132-7GD10-0AB0
4 x DO	Digital Output Module 4 DO 17.4 V DC/40 mA ("L"-SHUT DOWN)	6ES7132-7GD21-0AB0
4 x DO	Digital Output Module 4 DO 25.4 V DC/22 mA	6ES7132-7GD30-0AB0
4 AI	Analog Input Module 4 AI I 2 Wire HART	6ES7134-7TD00-0AB0
4 AI	Analog Input Module 4 AI I 4 Wire HART	6ES7134-7TD50-0AB0
4 AI	Analog Input Module 4 AI RTD	6ES7134-7SD51-0AB0
4 AI	Analog Input Module 4 AI TC	6ES7134-7SD00-0AB0
4 AO	Analog Output Module 4 AO I HART	6ES7135-7TD00-0AB0
Watchdog module	Circuit Keeper Module	6ES7138-7BB00-0AB0
Reserve module	Used to close terminals that remain empty.	6ES7138-7AA00-0AA0
2 x DO-R*	Digital Output Module with Relay 2 DO 60 V UC, 2 A	6ES7132-7HB00-0AB0
*TM-RM/RM 60S	Terminal Module Relay Module / Relay Module (black screw type)	6ES7193-7CB00-0AA0
TM-EM/EM60S	Terminal Module Electronics Module / Electronics Module (blue screw type)	6ES7193-7CA00-0AA0
TM-EM/EM60C	Terminal Module Interface Module / Electronics Module (blue printing type)	6ES7193-7CA10-0AA0
TM-EM/EM60S	Terminal Module Electronics Module / Electronics Module (black screw type)	6ES7193-7CA20-0AA0
Connector	PROFIBUS connector with terminating resistor	6ES7972-0DA60-0XA0
RS485-IS Coupler	PROFIBUS DP - PROFIBUS RS485-IS isolator	6ES7972-0AC80-0XA0

### SIMATIC ET200ISP Failsafe

8 F-DI Ex NAMUR	Failsafe Digital Input Module 8 F-DI NAMUR	6ES7138-7FN00-0AB0
4 F-DO Ex	Failsafe Digital Output Module 4 F-DO 17.4 V/40 mA	6ES7138-7FD00-0AB0
4 F-AI Ex HART	Failsafe Analog Input Module 4 F-AI I HART	6ES7138-7FA00-0AB0
TM-EM/EM60S	Terminal Module Electronics Module / Electronics Module (blue screw type)	6ES7193-7CA00-0AA0
TM-EM/EM60C	Terminal Module Interface Module / Electronics Module (blue printing type)	6ES7193-7CA10-0AA0
TM-EM/EM60S	Terminal Module Electronics Module / Electronics Module (black screw type)	6ES7193-7CA20-0AA0

### SIMATIC ET200M EX Distributed Inputs/Outputs

SM 321	Insulated Namur	4 DI	20 pins	6ES7321-7RD00-0AB0
SM322	Insulated 24 V DC/10 mA	4 DO	20 pins	6ES7322-5SD00-0AB0
SM322	Insulated 15 V DC/20 mA	4 DO	20 pins	6ES7322-5RD00-0AB0
SM331	Isolated 0/4...20 mA 15 bits	4 AI	20 pins	6ES7331-7RD00-0AB0
SM331	Insulated RTD, TC*	8 AI	20 pins	6ES7331-7SF00-0AB0
SM332	Isolated 0/4...20 mA 15 bits	4 AO	20 pins	6ES7332-5RD00-0AB0

The appropriate front connector must be selected for all signal boards!  
 \* The number of channels is halved when using R and RTD (Pt100, Pt200, Ni100) It is recommended to use the TIA Selection Tool to select products.

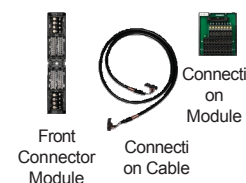
# SIMATIC TOP Connect Modular Connection

Material Type	Order No
<b>S7-300 Front Connector Modules</b>	
For CPU 312C	Screw connection 6ES7921-3AK20-0AA0
CPU 313C/314C - 2PI/314C-2DP, slot X1 for	Screw connection 6ES7921-3AM20-0AA0
Digital 2 x 8 I/O	Spring connection 6ES7921-3AA00-0AA0
Digital 2 x 8 I/O	Screw connection 6ES7921-3AB00-0AA0
Digital 4 x 8 I/O	Spring connection 6ES7921-3AA20-0AA0
Digital 4 x 8 I/O	Screw connection 6ES7921-3AB20-0AA0
1 x 8DO, 2A for digital outputs	Spring connection 6ES7921-3AC00-0AA0
1 x 8DO, 2A for digital outputs	Screw connection 6ES7921-3AD00-0AA0
20 pins, for analog cards	Spring connection 6ES7921-3AF00-0AA0
20 pins, for analog cards	Screw connection 6ES7921-3AG00-0AA0
40 pins, for analog cards	Spring connection 6ES7921-3AF20-0AA0
40 pins, for analog cards	Screw connection 6ES7921-3AG20-0AA0



Front Connector Module

<b>SS7-1500 / ET200 MP Front Connector Modules</b>	
For digital modules, 16-lead	Spring connection 6ES7921-5AH20-0AA0
For digital modules, 16-lead	Screw connection 6ES7921-5AB20-0AA0
For digital modules, 50-lead	Spring connection 6ES7921-5CH20-0AA0
For digital modules, 50-lead	Screw connection 6ES7921-5CB20-0AA0
For 2A Digital Output, 16-lead	Spring connection 6ES7921-5AJ00-0AA0
For 2A Digital Output, 16-lead	Screw connection 6ES7921-5AD00-0AA0
For analog modules, 4x16 leads	6ES7921-5AK20-0AA0
For analog modules, 1x50 leads	6ES7921-5CK20-0AA0



Front Connector Module

Connect on Module  
Connect on Cable

## Connection Cables

Ready-to-use round 16-prong, 0.14 mm 2 with connector connection

### Screenless

0.5 m	6ES7923-0BA50-0CB0
1.0 m	6ES7923-0BB00-0CB0
1.5 m	6ES7923-0BB50-0CB0
2.0 m	6ES7923-0BC00-0CB0
2.5 m	6ES7923-0BC50-0CB0
3.0 m	6ES7923-0BD00-0CB0
4.0 m	6ES7923-0BE00-0CB0
5.0 m	6ES7923-0BF00-0CB0

### With Screen

1.0 m	6ES7923-0BB00-0DB0
2.0 m	6ES7923-0BC00-0DB0
2.5 m	6ES7923-0BC50-0DB0
3.0 m	6ES7923-0BD00-0DB0
4.0 m	6ES7923-0BE00-0DB0
5.0 m	6ES7923-0BF00-0DB0

### 50-tip, 0.14 mm 2

#### Screenless

0.5 m	6ES7923-5BA50-0CB0
1.0 m	6ES7923-5BB00-0CB0
1.5 m	6ES7923-5BB50-0CB0
2.0 m	6ES7923-5BC00-0CB0
2.5 m	6ES7923-5BC50-0CB0
3.0 m	6ES7923-5BD00-0CB0
4.0 m	6ES7923-5BE00-0CB0
5.0 m	6ES7923-5BF00-0CB0



Connection Cable



System Setup

It is recommended to use the TIA Selection Tool to select products.

# SIMATIC TOP Connect Modular Connection

Material Type	Order No
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## Connection Cables

### With Screen

1.0 m	6ES7923-5BB00-0DB0
2.0 m	6ES7923-5BC00-0DB0
2.5 m	6ES7923-5BC50-0DB0
3.0 m	6ES7923-5BD00-0DB0
4.0 m	6ES7923-5BE00-0DB0
5.0 m	6ES7923-5BF00-0DB0

Ribbon cables with round outer sheath (connector connection made by the user) 16 terminals, 0.14 mm 2



Connection Module

## Connection Modules

### TP1

8 I/O without LED for 1-ended connection	Spring connection	6ES7924-0AA20-0AC0
8 I/O without LED for 1-ended connection	Screw connection	6ES7924-0AA20-0AA0
8 I/O with LEDs for 1-ended connection	Spring connection	6ES7924-0AA20-0BC0
8 I/O with LEDs for 1-ended connection	Screw connection	6ES7924-0AA20-0BA0
32 I/O without LED for 1-ended connection	Spring connection	6ES7924-2AA20-0AC0
32 I/O without LED for 1-ended connection	Screw connection	6ES7924-2AA20-0AA0
32 I/O with LED for 1-ended connection	Spring connection	6ES7924-2AA20-0BC0
32 I/O with LED for 1-ended connection	Screw connection	6ES7924-2AA20-0BA0

### TP3

8 I/O for 3-ended connection, without LED	Screw connection	6ES7924-0CA20-0AA0
8 I/O for 3-ended connection, without LED	Screw connection	6ES7924-0CA20-0BA0
32 I/O for 3-ended connection, without LED	Spring connection	6ES7924-2CA20-0AC0
32 I/O for 3-ended connection, without LED	Screw connection	6ES7924-2CA20-0AA0
32 I/O for 3-ended connection, with LED	Spring connection	6ES7924-2CA20-0BC0
32 I/O for 3-ended connection, with LED	Screw connection	6ES7924-2CA20-0BA0

### TP2

8 outputs, 2-pin connection for 2A modules, without LED	Spring connection	6ES7924-0BB20-0AC0
8 outputs, 2-pin connection for 2A modules, without LED	Screw connection	6ES7924-0BB20-0AA0

### TPA

S7-300 For analog modules,	Spring connection	6ES7924-0CC21-0AC0
S7-300 For analog modules,	Screw connection	6ES7924-0CC21-0AA0
S7-1500 For analog modules, 16-lead	Spring connection	6ES7924-0CC20-0AC0
S7-1500 For analog modules, 16-lead	Screw connection	6ES7924-0CC20-0AA0
S7-1500 For analog modules, 50-lead	Spring connection	6ES7924-2CC20-0AC0
S7-1500 For analog modules, 50-lead	Screw connection	6ES7924-2CC20-0AA0

## Function Modules

### TPRo, For Output Signals (with reverse diode)

8 NO, output 230 V AC / 3 A or 30 V DC / 3 A, input 24 V DC, with LED	Screw connection	6ES7924-0BD20-0BA0
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### TPOo, Octocoupler Module (with overload and short circuit protection)

8 NO, output 24 V DC / 4 A, input 24 V DC, with LED	Screw connection	6ES7924-0BF20-0BA0
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### TPRi for Input Signals

8 NO, output 24 V DC / 0.05 A, input 230 V AC with relay, LED	Screw connection	6ES7924-0BE20-0BA0
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System Setup



TPRo Function Module



TPOo Optocoupler Function Module

# SIMATIC TOP Connect Flexible Connectivity

Material Type	Order No
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## Ready-to-use cables for SIMATIC S7-300 (16 I/O, 20pin) with front connector connection

H05V-K cable (20 x 0.5 mm <sup>2</sup> screw connection)			
2.5 m	1 piece	6ES7922-3BC50-0AB0	
3.2 m	1 piece	6ES7922-3BD20-0AB0	
5 m	1 piece	6ES7922-3BF00-0AB0	
2.5 m	5 pieces	6ES7922-3BC50-5AB0	
3.2 m	5 pieces	6ES7922-3BD20-5AB0	
5 m	5 pieces	6ES7922-3BF00-5AB0	
H05V-K cable (20 x 0.5 mm <sup>2</sup> spring connection)			
2.5 m	1 piece	6ES7922-3BC50-0AF0	
3.2 m	1 piece	6ES7922-3BD20-0AF0	
5 m	1 piece	6ES7922-3BF00-0AF0	
UL/CSA certified cable (20 x 0.5 mm <sup>2</sup> screw connection)			
3.2 m	1 piece	6ES7922-3BD20-0UB0	
5 m	1 piece	6ES7922-3BF00-0UB0	



Cable connection made S7-300 front connector

## Ready-to-use cables for SIMATIC S7-300 (32 I/O, 40pin) with front connector connection

H05V-K cable (40 x 0.5 mm <sup>2</sup> screw connection)			
2.5 m	1 piece	6ES7922-3BC50-0AC0	
3.2 m	1 piece	6ES7922-3BD20-0AC0	
5 m	1 piece	6ES7922-3BF00-0AC0	
2.5 m	5 pieces	6ES7922-3BC50-5AC0	
3.2 m	5 pieces	6ES7922-3BD20-5AC0	
5 m	5 pieces	6ES7922-3BF00-5AC0	
H05V-K cable (40 x 0.5 mm <sup>2</sup> spring connection)			
2.5 m	1 piece	6ES7922-3BC50-0AG0	
3.2 m	1 piece	6ES7922-3BD20-0AG0	
5 m	1 piece	6ES7922-3BF00-0AG0	
UL/CSA certified cable (40 x 0.5 mm <sup>2</sup> screw connection)			
3.2 m	1 piece	6ES7922-3BD20-0UC0	
5 m	1 piece	6ES7922-3BF00-0UC0	



Cable connection made S7-300 front connector

## Ready-to-use cables for SIMATIC S7-400 (32 I/O, 48pin) with front connector connection

H05V-K cable (46 x 0.5 mm <sup>2</sup> screw connection)			
2.5 m	1 piece	6ES7922-4BC50-0AD0	
3.2 m	1 piece	6ES7922-4BD20-0AD0	
5 m	1 piece	6ES7922-4BF00-0AD0	
H05V-K cable (46 x 0.5 mm <sup>2</sup> spring connection)			
2.5 m	1 piece	6ES7922-4BC50-0AE0	
3.2 m	1 piece	6ES7922-4BD20-0AE0	
5 m	1 piece	6ES7922-4BF00-0AE0	
UL/CSA certified cable (20 x 0.5 mm <sup>2</sup> screw connection)			
3.2 m	1 piece	6ES7922-4BD20-0UD0	
5 m	1 piece	6ES7922-4BF00-0UD0	



Cable connection made S7-1500 front connector

## Ready-to-use cables for SIMATIC S7-1500 (16 I/O, 20pin) with front connector connection

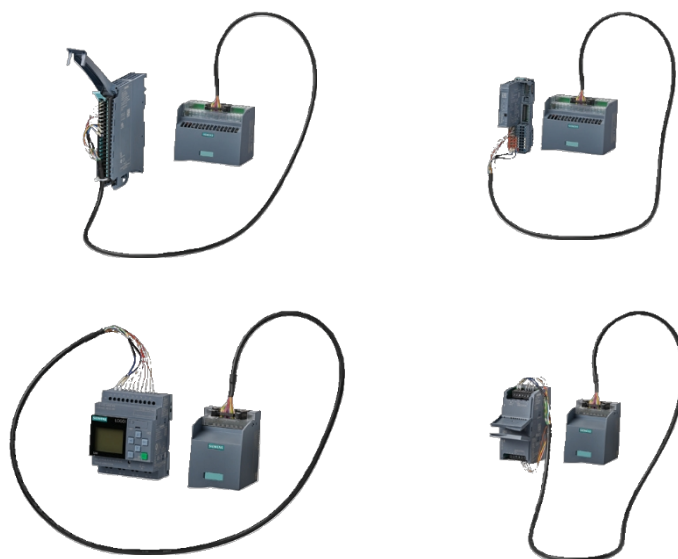
H05V-K cable (20 x 0.5 mm <sup>2</sup> screw connection)			
2.5 m	1 piece	6ES7922-5BC50-0AB0	
3.2 m	1 piece	6ES7922-5BD20-0AB0	
5 m	1 piece	6ES7922-5BF00-0AB0	
6.5 m	1 piece	6ES7922-5BG50-0AB0	
8 m	1 piece	6ES7922-5BJ00-0AB0	
10 m	1 piece	6ES7922-5CB00-0AB0	
H05Z-K halogen-free cable (20 x 0.5 mm <sup>2</sup> screw connection)			
2.5 m	1 piece	6ES7922-5BC50-0HB0	
3.2 m	1 piece	6ES7922-5BD20-0HB0	
5 m	1 piece	6ES7922-5BF00-0HB0	
6.5 m	1 piece	6ES7922-5BG50-0HB0	
8 m	1 piece	6ES7922-5BJ00-0HB0	
10 m	1 piece	6ES7922-5CB00-0HB0	
UL/CSA certified cable (20 x 0.5 mm <sup>2</sup> screw connection)			
3.2 m	1 piece	6ES7922-5BD20-0UB0	
5 m	1 piece	6ES7922-5BF00-0UB0	
6.5 m	1 piece	6ES7922-5BG50-0UB0	



S7-1500 front connector with cable connection

# SIMATIC TOP Connect Flexible Connectivity

Material Type	Order No
<b>Ready-to-use cables for SIMATIC S7-1500 (32 I/O, 40pin) with front connector connection</b>	
<b>H05V-K cable (40 x 0.5 mm<sup>2</sup> screw connection)</b>	
2.5 m	1 piece 6ES7922-5BC50-0AC0
3.2 m	1 piece 6ES7922-5BD20-0AC0
5 m	1 piece 6ES7922-5BF00-0AC0
6.5 m	1 piece 6ES7922-5BG50-0AC0
8 m	5 pieces 6ES7922-5BJ00-0AC0
10 m	5 pieces 6ES7922-5CB00-0AC0
<b>H05Z-K halogen-free cable (40 x 0.5 mm<sup>2</sup> screw connection)</b>	
2.5 m	1 piece 6ES7922-5BC50-0HC0
3.2 m	1 piece 6ES7922-5BD20-0HC0
5 m	1 piece 6ES7922-5BF00-0HC0
6.5 m	1 piece 6ES7922-5BG50-0HC0
8 m	1 piece 6ES7922-5BJ00-0HC0
10 m	1 piece 6ES7922-5CB00-0HC0
<b>UL/CSA certified cable (40 x 0.5 mm<sup>2</sup> screw connection)</b>	
3.2 m	1 piece 6ES7922-5BD20-0UC0
5 m	1 piece 6ES7922-5BF00-0UC0
6.5 m	1 piece 6ES7922-5BG50-0UC0
<b>SIMATIC Universal connection cables</b>	
<b>Compatible with all modules</b>	
0.5 m	1 piece 6ES7923-0BA50-0FB0
1.0 m	1 piece 6ES7923-0BB00-0FB0
2.0 m	1 piece 6ES7923-0BC00-0FB0



SIMATIC Universal connection cables



Top Connect Terminal Units

# SIMATIC NET Communication Systems



Material Type		Order No
<b>SIMATIC NET PROFIBUS Communication Products</b>		
PROFIBUS Connector	PROFIBUS 1 Port Connector, 90 degree	6ES7972-0BA52-0XA0
PROFIBUS Connector	PROFIBUS 2 Port Connector, 90 degree	6ES7972-0BB52-0XA0
PROFIBUS Connector	PROFIBUS 1 Port Connector, 35 degrees	6ES7972-0BA61-0XA0
PROFIBUS Connector	PROFIBUS 2 Port Connector, 35 degrees	6ES7972-0BB61-0XA0
PROFIBUS Connector	PROFIBUS 1 Port Connector, 180 degree, suitable for PC/OP	6GK1500-0FC10
PROFIBUS Cable	Standard PROFIBUS Cable, min. 20 m, max. 1000 m	6XV1830-0EH10
PROFIBUS Strip Tool	PROFIBUS Cable Stripper	6GK1905-6AA00
PROFIBUS Repeater	PROFIBUS Line Booster	6ES7972-0AA02-0XA0
PROFIBUS Diag. Repeater	PROFIBUS Line Booster with diagnostics	6ES7972-0AB01-0XA0
PROFIBUS DP/DP Coupler	PROFIBUS connects 2 separate DP Master lines	6ES7158-0AD01-0XA0
PROFIBUS DP/PA Link	Link module for PROFIBUS PA line (Ex)	6ES7157-0AD82-0XA0
PROFIBUS DP/PA Link	Link module for PROFIBUS PA line (None Ex)	6ES7157-0AC85-0XA0
PROFIBUS Y Coupler	Y coupler interface	6ES7197-1LB00-0XA0
PROFIBUS Y-Link Bundle	Unit that reduces 2 PROFIBUS lines to 1 line in redundant structures	6ES7197-1LA12-0XA0
PROFIBUS Bus Terminal	PROFIBUS line T connection interface with 1.5 m cable	6GK1500-0AA10
Active Terminator	Element with active terminator for RS 485 lines	6ES7972-0DA00-0AA0
OLM/P11 V4.1	Optical Link Module, 1 x RS 485, 1 x F0 (plastic), max. 80 m / 400 m	6GK1503-2CA01
OLM/P12 V4.1	Optical Link Module, 1 x RS 485, 2 x F0 (plastic), max. 80 m / 400 m	6GK1503-3CA01
OLM/P22 V4.1	Optical Link Module, 2 x RS 485, 2 x F0 (plastic), max. 80 m / 400 m	6GK1503-4CA01
OLM/G11 V4.0 **	Optical Link Module, 1 x RS 485, 1 x F0 MM (glass), max. 3 km	6GK1503-2CB00
OLM/G12 V4.0 **	Optical Link Module, 1 x RS 485, 2 x F0 MM (glass), max. 3 km	6GK1503-3CB00
OLM/G22 V4.0 **	Optical Link Module, 2 x RS 485, 2 x F0 MM (glass), max. 3 km	6GK1503-4CB00
OLM/G11-1300 V4.0 **	Optical Link Module, 1 x RS 485, 1 x F0 SM (glass), max. 15 km	6GK1503-2CC00
OLM/G12-1300 V4.0 **	Optical Link Module, 1 x RS 485, 2 x F0 SM (glass), max. 15 km	6GK1503-3CC00
BFOC	Fiber Optic Connector, 20 pcs	6GK1901-0DA20-0AA0



Profibus Connector



Profibus OLM

\*\* Fiber Optic ports      MM : Multi Mode (50/125µm, 62.5/125µm)      SM : Single Mode (9/125µm, 10/125µm)

<b>SIMATIC NET General Communication Products</b>		
PC to S7 Adapter USB A2#	USB connection adapter and 5 m cable for S7 PLC with PC	6GK1571-0BA00-0AA0
IE/PB Link PN IO	Gateway for PROFIBUS line with PROFINET	6GK1411-5AB10
SIMATIC PN/PN Coupler**	For deterministic data exchange between max.4 PN-Controllers per subnet, also from subnet to subnet, PROFIsafe data exchange, I/O-, MSI-, MSO- and data record communication.	6ES7158-3AD10-0XA0
C-PLUG	SCALANCE XC-200, XP-200, XM-400, XR-500, M-800, W-700, SC-600 and S615 parameter recording, copying module	6GK1900-0AB10

<b>SIMATIC NET Industrial Communication Cables</b>		
PROFIBUS Cable	Standard PROFIBUS Cable, min. 20 m, max. 1000 m	6XV1830-0EH10
PROFIBUS FC 20	Standard PROFIBUS Cable 20 m 6XV1 830-0EH10	6XV1830-0EN20
PROFIBUS FC 50	Standard PROFIBUS Cable 50 m 6XV1 830-0EH10	6XV1830-0EN50
PROFIBUS FC 100	Standard PROFIBUS Cable 100 m 6XV1 830-0EH10	6XV1830-0ET10
PROFIBUS FC 200	Standard PROFIBUS Cable 200 m 6XV1 830-0EH10	6XV1830-0ET20
PROFIBUS FC 500	Standard PROFIBUS Cable 500 m 6XV1 830-0EH10	6XV1830-0ET50
PROFIBUS FC 1000	Standard PROFIBUS Cable 1000 m 6XV1 830-0EH10	6XV1830-0EU10
PROFIBUS Strip Tool	PROFIBUS Cable Stripper	6GK1905-6AA00
F0 Cable 50/125	Standard, glass fiber optic cable, 50/125 min, 20 m, max. 3000 m	6XV1873-2A
F0 Cable 62.5/125	Standard, glass fiber optic cable, 62.5/125 min, 20 m, max. 4000 m	6XV1820-5AH10

\*\* : 2 bus adapters are required.  
# : Available for STEP7 V5.4 SP5 and above.

# SIMATIC NET Communication Systems



Cables and Connectors



IE FC 10 Gbit



Material Type		Order No
<b>SIMATIC NET Industrial Communication Cables and Connectors</b>		
IE FC RJ45 Plug 180	Industrial ethernet RJ45 connector, 2 x 2, 180 degrees, 1pc	6GK1901-1BB10-2AA0
IE FC RJ45 Plug 180*	Industrial ethernet RJ45 connector, 2 x 2, 180 degrees, 10 pcs	6GK1901-1BB10-2AB0
IE FC RJ45 Plug 180	Industrial ethernet RJ45 connector, 2 x 2, 180 degrees, 50 pcs	6GK1901-1BB10-2AE0
IE FC RJ45 Plug 90	Industrial ethernet RJ45 connector, 2 x 2, 90 degrees, 1 piece	6GK1901-1BB20-2AA0
IE FC RJ45 Plug 90*	Industrial ethernet RJ45 connector, 2 x 2, 90 degrees, 10 pcs	6GK1901-1BB20-2AB0
IE FC RJ45 Plug 90	Industrial ethernet RJ45 connector, 2 x 2, 90 degrees, 50 pcs	6GK1901-1BB20-2AE0
IE FC RJ45 Plug 180	Industrial ethernet RJ45 connector 1Gbit / 10 Gbit, 4 x 2, 180 degree, 1pc	6GK1901-1BB12-2AA0
IE FC RJ45 Plug 180	Industrial ethernet RJ45 connector 1Gbit / 10 Gbit, 4 x 2, 180 degree, 10pcs	6GK1901-1BB12-2AB0
IE FC RJ45 Plug 180	Industrial ethernet RJ45 connector 1Gbit / 10 Gbit, 4 x 2, 180 degree, 50pcs	6GK1901-1BB12-2AE0
IE FC Stripping Tool	Industrial ethernet cable stripping tool	6GK1901-1GA00
IE FC Standard Cable	Industrial Ethernet standard 2 x 2 cable, min. 20 m, max. 1000 m	6XV1840-2AH10
IE FC Standard Cable	Industrial Ethernet standard 4 x 2 cable, min. 20 m, max. 1000 m	6XV1878-2A
IE FC Standard Cable	Industrial Ethernet standard 4 x 2 cable, 1000 m	6XV1878-2AU10
IE, PROFINET FC Cable	Industrial Ethernet standard 2 x 2 cable, min. 20 m, max. 1000 m	6XV1840-2AH10
IE, PROFINET FC 20	Industrial Ethernet standard 2 x 2 cable, 20 m 6XV1 840-2AH10	6XV1840-2AN20
IE, PROFINET FC 50	Industrial Ethernet standard 2 x 2 cable, 50 m 6XV1 840-2AH10	6XV1840-2AN50
IE, PROFINET FC 100	Industrial Ethernet standard 2 x 2 cable, 100 m 6XV1 840-2AH10	6XV1840-2AT10
IE, PROFINET FC 200	Industrial Ethernet standard 2 x 2 cable, 200 m 6XV1 840-2AH10	6XV1840-2AT20
IE, PROFINET FC 500	Industrial Ethernet standard 2 x 2 cable, 500 m 6XV1 840-2AH10	6XV1840-2AT50
IE, PROFINET FC 1000	Industrial Ethernet standard 2 x 2 cable, 1000 m 6XV1 840-2AH10	6XV1840-2AU10
IE FC Stripping Tool	Industrial ethernet cable stripping tool	6GK1901-1GA00



You can contact our dealers for other prefabricated cables and fiber prefabricated cables.

# SIMATIC NET Communication Systems



Material Type	Order No
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## SIMATIC NET Industrial Communication Cables

PROFIBUS Cable	Standard PROFIBUS Cable, min. 20 m, max. 1000 m	6XV1830-0EH10
PROFIBUS FC 20	Standard PROFIBUS Cable 20 m 6XV1 830-0EH10	6XV1830-0EN20
PROFIBUS FC 50	Standard PROFIBUS Cable 50 m 6XV1 830-0EH10	6XV1830-0EN50
PROFIBUS FC 100	Standard PROFIBUS Cable 100 m 6XV1 830-0EH10	6XV1830-0ET10
PROFIBUS FC 200	Standard PROFIBUS Cable 200 m 6XV1 830-0EH10	6XV1830-0ET20
PROFIBUS FC 500	Standard PROFIBUS Cable 500 m 6XV1 830-0EH10	6XV1830-0ET50
PROFIBUS FC 1000	Standard PROFIBUS Cable 1000 m 6XV1 830-0EH10	6XV1830-0EU10
PROFIBUS Strip Tool	PROFIBUS Cable Stripper	6GK1905-6AA00
IE, PROFINET FC Cable	Industrial Ethernet standard 2 x 2 cable, min. 20 m, max. 1000 m	6XV1840-2AH10
IE, PROFINET FC 20	Industrial Ethernet standard 2 x 2 cable, 20 m 6XV1 840-2AH10	6XV1840-2AN20
IE, PROFINET FC 50	Industrial Ethernet standard 2 x 2 cable, 50 m 6XV1 840-2AH10	6XV1840-2AN50
IE, PROFINET FC 100	Industrial Ethernet standard 2 x 2 cable, 100 m 6XV1 840-2AH10	6XV1840-2AT10
IE, PROFINET FC 200	Industrial Ethernet standard 2 x 2 cable, 200 m 6XV1 840-2AH10	6XV1840-2AT20
IE, PROFINET FC 500	Industrial Ethernet standard 2 x 2 cable, 500 m 6XV1 840-2AH10	6XV1840-2AT50
IE, PROFINET FC 1000	Industrial Ethernet standard 2 x 2 cable, 1000 m 6XV1 840-2AH10	6XV1840-2AU10
IE FC Stripping Tool	Industrial ethernet cable stripping tool	6GK1901-1GA00



## Ethernet Cables with SIMATIC NET Connectors

TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 0.3 m	6XV1870-3QE30
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 0.5 m	6XV1870-3QE50
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 1 m	6XV1870-3QH10
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 2 m	6XV1870-3QH20
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 3 m	6XV1870-3QH30
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 4 m	6XV1870-3QH40
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 6 m	6XV1870-3QH60
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 10 m	6XV1870-3QN10
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 20 m	6XV1870-3QN20
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 30 m	6XV1870-3QN30
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 35 m	6XV1870-3QN35
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 40 m	6XV1870-3QN40
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 45 m	6XV1870-3QN45
TP CORD RJ45/RJ45	End Ethernet TP Cord RJ45/RJ45, CAT 6A, TP 4x2 cable 50 m	6XV1870-3QN50



## SIMATIC NET Ethernet Cables with Metal Connectors

IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 1 m	6XV1871-5BH10
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 2 m	6XV1871-5BH20
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 3 m	6XV1871-5BH30
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 5 m	6XV1871-5BH50
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 10 m	6XV1871-5BN10
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 12 m	6XV1871-5BN12
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 15 m	6XV1871-5BN15
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 20 m	6XV1871-5BN20
IE FC RJ45-180/RJ45-180	End Ethernet FC RJ45-180/RJ45-180, 2x2 cable 30 m	6XV1871-5BN30

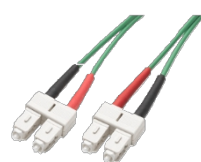


## SIMATIC NET Fiber Patch Cables

IE FO Cord MM SC/SC	SC duplex / SC duplex Multimode fiber 1m patch cable	6XV1843-5EH10-0CC0
IE FO Cord MM SC/ST	SC duplex / BFOC(ST) Multimode fiber 1m patch cable	6XV1843-5EH10-0CB0
IE FO Cord MM SC/LC	SC duplex / LC Multimode fiber 1m patch cable	6XV1843-5EH10-0CA0
IE FO Cord SM SC/SC	SC duplex / SC duplex Singlemode fiber 1m patch cable	6XV1843-5FH10-0CC0
IE FO Cord SM SC/ST	SC duplex / BFOC(ST) Singlemode fiber 1m patch cable	6XV1843-5FH10-0CB0
IE FO Cord SM SC/LC	SC duplex / LC Singlemode fiber 1m patch cable	6XV1843-5FH10-0CA0



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Parmley Graham Ltd

# SIMATIC NET Communication Systems



Material Type		Order No
<b>SIMATIC NET Fiber and Fiber Cables with Connectors</b>		
F0 Cable 50/125	Standard, glass fiber optic cable, 50/125 min, 20 m, max. 3000 m	6XV1873-2A
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 0.5 meters with 4 BFOC/ST connectors	6XV1873-3AH05
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 1 meter with 4 BFOC/ST connectors	6XV1873-3AH10
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 2 meters with 4 BFOC/ST connectors	6XV1873-3AH20
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 3 meters with 4 BFOC/ST connectors	6XV1873-3AH30
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 5 meters with 4 BFOC/ST connectors	6XV1873-3AH50
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 10 meters with 4 BFOC/ST connectors	6XV1873-3AN10
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 15 meters with 4 BFOC/ST connectors	6XV1873-3AN15
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 20 meters with 4 BFOC/ST connectors	6XV1873-3AN20
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 30 meters with 4 BFOC/ST connectors	6XV1873-3AN30
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 40 meters with 4 BFOC/ST connectors	6XV1873-3AN40
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 50 meters with 4 BFOC/ST connectors	6XV1873-3AN50
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 80 meters with 4 BFOC/ST connectors	6XV1873-3AN80
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 100 meters with 4 BFOC/ST connectors	6XV1873-3AT10
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 150 meters with 4 BFOC/ST connectors	6XV1873-3AT15
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 200 meters with 4 BFOC/ST connectors	6XV1873-3AT20
F0 Cable 50/125 ST	Standard, glass fiber optic cable, 50/125, 300 meters with 4 BFOC/ST connectors	6XV1873-3AT30
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 0.5 meters with 4 SC connectors	6XV1873-6AH05
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 1 m with 4 SC connectors	6XV1873-6AH10
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 2 meters with 4 SC connectors	6XV1873-6AH20
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 3 meters with 4 SC connectors	6XV1873-6AH30
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 5 meters with 4 SC connectors	6XV1873-6AH50
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 10 meters with 4 SC connectors	6XV1873-6AN10
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 15 meters with 4 SC connectors	6XV1873-6AN15
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 20 meters with 4 SC connectors	6XV1873-6AN20
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 30 meters with 4 SC connectors	6XV1873-6AN30
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 40 meters with 4 SC connectors	6XV1873-6AN40
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 50 meters with 4 SC connectors	6XV1873-6AN50
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 80 meters with 4 SC connectors	6XV1873-6AN80
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 100 meters with 4 SC connectors	6XV1873-6AT10
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 150 meters with 4 SC connectors	6XV1873-6AT15
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 200 meters with 4 SC connectors	6XV1873-6AT20
F0 Cable 50/125 SC	Standard, glass fiber optic cable, 50/125, 300 meters with 4 SC connectors	6XV1873-6AT30
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 1 meter with 4 LC connectors	6XV1873-5AH10
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 2 meters with 4 LC connectors	6XV1873-5AH20
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 3 meters with 4 LC connectors	6XV1873-5AH30
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 5 meters with 4 LC connectors	6XV1873-5AH50
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 10 meters with 4 LC connectors	6XV1873-5AN10
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 15 meters with 4 LC connectors	6XV1873-5AN15
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 20 meters with 4 LC connectors	6XV1873-5AN20
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 30 meters with 4 LC connectors	6XV1873-5AN30
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 40 meters with 4 LC connectors	6XV1873-5AN40
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 50 meters with 4 LC connectors	6XV1873-5AN50
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 80 meters with 4 LC connectors	6XV1873-5AN80
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 100 meters with 4 LC connectors	6XV1873-5AT10
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 150 meters with 4 LC connectors	6XV1873-5AT15
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 200 meters with 4 LC connectors	6XV1873-5AT20
F0 Cable 50/125 LC	Standard, glass fiber optic cable, 50/125, 300 meters with 4 LC connectors	6XV1873-5AT30
F0 Cable 62.5/125	Standard, glass fiber optic cable, 62.5/125 min, 20 m, max. 4000 m	6XV1820-5AH10
F0 Cable 62.5/125 ST	Standard, glass fiber optic cable, 62.5/125, 120 meters with 4 BFOC/ST connectors	6XV1820-5BT12
F0 Cable 62.5/125 ST	Standard, glass fiber optic cable, 62.5/125, 130 meters with 4 BFOC/ST connectors	6XV1820-5BT13
F0 Cable 62.5/125 ST	Standard, glass fiber optic cable, 62.5/125, 150 meters with 4 BFOC/ST connectors	6XV1820-5BT15
F0 Cable 62.5/125 ST	Standard, glass fiber optic cable, 62.5/125, 200 meters with 4 BFOC/ST connectors	6XV1820-5BT20
F0 Cable 62.5/125 ST	Standard, glass fiber optic cable, 62.5/125, 250 meters with 4 BFOC/ST connectors	6XV1820-5BT25
F0 Cable 62.5/125 ST	Standard, glass fiber optic cable, 62.5/125, 300 meters with 4 BFOC/ST connectors	6XV1820-5BT30

You can contact our dealers for other prefabricated cables and fiber prefabricated cables.

# SIMATIC NET Communication Systems



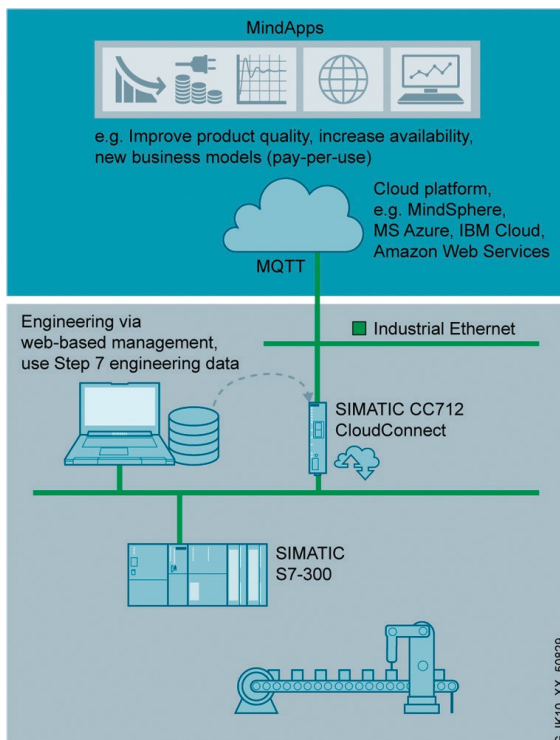
Material Type		Order No	
<b>SCALANCE M - Industrial Modems</b>			
SCALANCE M876-4	4G/LTE modem/router with 4xRJ45 ports, VPN	6GK5876-4AA10-2BA2	
ANT 794 - 4MR	GSM modem external antenna SMA connection and 5m. cable	6NH9860-1AA00	
ANT 896 - 4MA	GSM modem internal antenna SMA connection	6GK5896-4MA00 - 0AA3	
ANT 896 - 4ME	GSM modem external antenna N - female connection	6GK5896-4ME00 - 0AA0	
ANT896-6MH	GSM modem external antenna, for railway applications, N-connect socket, 5/6dBi, -40 to +85 °C	6GK5896-6MH00-0AA0	
ANT cable	Antenna Cable 0.3 m, N/SMA male/male for ANT 896 - 4ME	6XV1875-5LE30	
ANT cable	Antenna Cable 1 m, N/SMA male/male for ANT 896 - 4ME	6XV1875-5LH10	
ANT cable	Antenna Cable 2 m, N/SMA male/male for ANT 896 - 4ME	6XV1875-5LH20	
ANT cable	Antenna Cable 5 m, N/SMA male/male for ANT 896 - 4ME	6XV1875-5LH50	
Ant cable	Antenna cable 1m, N/SMA male/male, for ANT896-6MH	6XV1875-5UH10	
Ant cable	Antenna cable 2m, N/SMA male/male, for ANT896-6MH	6XV1875-5UH20	
Ant cable	Antenna cable 5m, N/SMA male/male, for ANT896-6MH	6XV1875-5UH50	
Adapter	SMA/SMA male/female elbow adapter	6GK5898-1CV00-4AA0	
SIMATIC CC712	SIMATIC CloudConnect 712 IoT Gateway, 2x Ethernet RJ45, S7, Modbus, MQTT, OPC, MindSphere, Microsoft Azure, IBM Cloud	6GK1411-1AC00	
SIMATIC CC716	SIMATIC CloudConnect 716 IoT Gateway, 2x Ethernet RJ45, 1xMPI/PB Profibus S7, Modbus, MQTT, OPC, MindSphere, Microsoft Azure, IBM Cloud	6GK1411-5AC00	



M876-4



M874 - 3



CC712



CC716



ANT 896 - 4MA



ANT 896 - 4ME



ANT 794 - 4MR



ANT896-6MH

# SIMATIC NET Communication Systems

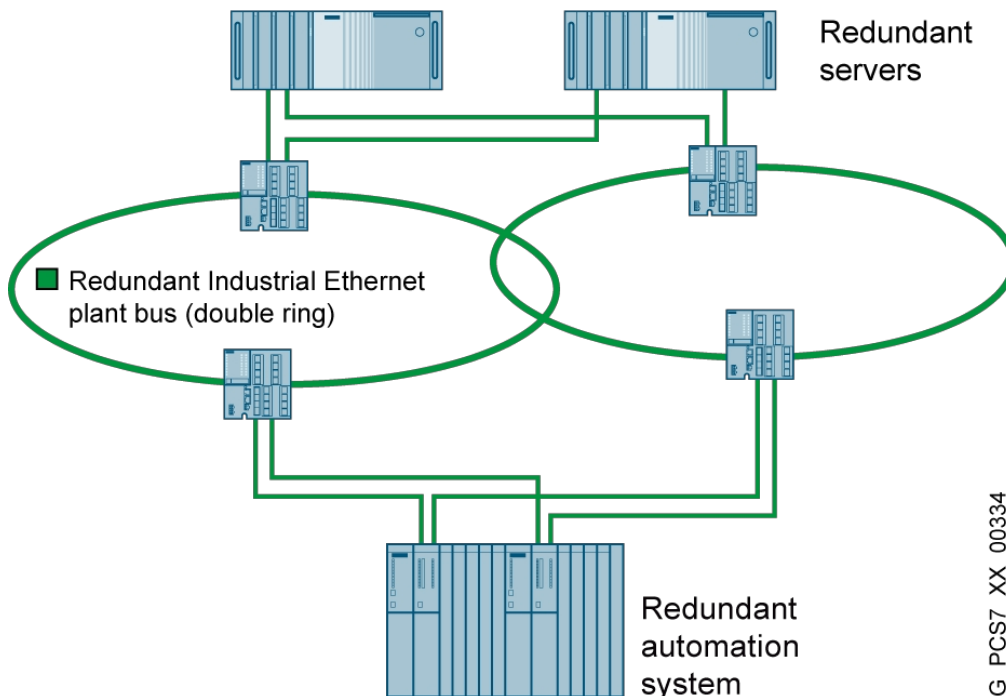


Material Type			Order No
<b>SIMATIC NET PROFIBUS PC Cards</b>			
CP 5612	MPI/DP	PCI Card, S7/DP/OPC	6GK1561-2AA00
CP 5622	MPI/DP	PCI Express Card, S7/DP/OPC	6GK1562-2AA00
CP 5711	MPI/DP	USB V2.0 Communication Module	6GK1571-1AA00
MPI Cable	MPI/DP	MPI cable, 5 m	6ES7901-0BF00-0AA0
SOFTNET-PB S7 V20	MPI/DP	OPC software for CP 5612 / 5622 / 5711 boards - S7	6GK1704-5CW24-0AA0
SOFTNET-PB DP V20	MPI/DP	OPC software for CP 5612 / 5622 / 5711 boards - DP	6GK1704-5DW24-0AA0
CP 5623	PROFIBUS	PCI Express Card, 1 x port PROFIBUS, S7/DP/FMS/OPC	6GK1562-3AA00
CP 5624	PROFIBUS	PCI Express Card, 2 x port PROFIBUS, S7/DP/FMS/OPC	6GK1562-4AA00
HARDNET-PB S7 V20	PROFIBUS	S7 driver software for CP 5623 / CP 5624 boards, OPC	6GK1713-5CB24-0AA0
HARDNET-PB DP V20	PROFIBUS	DP driver software for CP 5623 / CP 5624 boards, OPC	6GK1713-5DB24-0AA0



SIMATIC NET Industrial Ethernet PC Cards			Order No
SOFTNET-IE S7 V20		OPC software for PC cards, 64 connections	6GK1704-1CW24-0AA0
SOFTNET-IE S7 Lean V20		OPC software for PC cards, 8 connections	6GK1704-1LW24-0AA0
SOFTNET-IE S7 Extended V20		OPC software for PC cards, 255 connections (S7-300, S7-400), 512 connections (S7-1200 V4.0, S7-1500)	6GK1704-1BW24-0AA0
CP 1623		PCI express card, TCP/IP, ISO, OPC	6GK1162-3AA00
HARDNET-IE S7 V20		S7 driver software for CP 1623/1628 board, OPC	6GK1716-1CB24-0AA0
HARDNET IE S7-REDCONNECT Power V20		Migration to redundant system for S7 1623 driver software	6GK1716-0HB24-0AC0
HARDNET IE S7-REDCONNECT V20		S7 1623 and redundant driver software for CP 1623 solid state	6GK1716-0HB24-0AA0
SOFTNET-IE S7 REDCONNECT V20		Redundant driver software for PC cards and virtual OS	6GK1704-0HB24-0AA0
SNMP OPC Server Basic V20		OPC server for network diagnostic collection and monitoring, for 20 IP (devices)	6GK1706-1NW24-0AA0
SNMP OPC Server Extended V20		OPC server for network diagnostic collection and monitoring, for 200 IP (devices)	6GK1706-1NX24-0AA0
SOFNET-IE RNA V20		PRP driver software for connecting to redundant parallel networks	6GK1711-1EW24-0AA0

- V20 license can be used for V19, V18, V17, V16, V15, V14, V13, V12, V8.x and V7.x. For SIMATIC software compatibility, V20 license can be used in your V19, V18, V17, V16, V15, V14, V13, V12, V8.x and V7.x installations.  
 - You can contact our Solution Partner companies for OSD Online downloadable licenses.



G\_PCS7\_XX\_00334

# SIMATIC NET Communication Systems



Material Type		Order No
<b>SIMATIC NET OPC Server</b>		
SOFTNET-IE S7 V20	OPC software, 64 connections, for ethernet connection to S7-300/S7-400/S7-1200/S7-1500 PLC	6GK1704-1CW24-0AA0
SOFTNET-IE S7 Lean V20	OPC software, 8 connections, for ethernet connection to S7-300/S7-400/S7-1200/S7-1500 PLC	6GK1704-1LW24-0AA0
SOFTNET-IE S7 Extended V20	OPC software, 255 connections (S7-300/S7-400), 512 connections (S7-1200 V4.0/S7-1500) ethernet	6GK1704-1BW24-0AA0
CP 343-1 Lean	S7-300 PLC, End. Ethernet, TCP/IP, UDP, PROFINET (4 links), 2 ports, HMI, OPC, S7 Communication Server (can only respond), Profinet IO Device	6GK7343-1CX10-0XE0
CP 343-1	S7-300 PLC, End. Ethernet, TCP/IP, UDP, PROFINET (16 links), 2 port, HMI, OPC, S7 communication Server/Client, Profinet IO Controller, Profi-net IO Device	6GK7343-1EX30-0XE0
CP 343-1 Adv.	S7-300 PLC, End. Ethernet, TCP/IP, UDP, FTP, www, PROFINET, 1xGbit, 2xRJ 45, VPN, Firewall, HMI, OPC, S7 Communication Server/Client, Profinet IO Controller, Profinet IO Device	6GK7343-1GX31-0XE0
CP 443-1	S7-400 PLC, End. Ethernet, PROFINET, TCP/IP, UDP, 2 x RJ45 ports, HMI, OPC, S7 Communication Server/Client, Profinet IO Controller, Profinet IO Device	6GK7443-1EX30-0XE0
CP 443-1 Adv.	S7-400 PLC, End. Ethernet, PROFINET, TCP/IP, UDP, FTP, www server,HMI,OPC, S7 communication Server/Client, Profinet IO Controller, Profinet IO Device	6GK7443-1GX30-0XE0
CP 1243-1	S7-1200 PLC, End. Ethernet, Profinet, HMI, OPC, S7 Communication Server (can only respond), Profinet IO Device	6GK7243-1BX30-0XE0
CM 1542-1	S7-1500 PLC, TCP/IP, ISO-on-TCP, UDP, HMI,OPC, S7 communication Server/Client, Profinet IO Controller, Profinet IO Device	6GK7542-1AX00-0XE0
CP 1543-1	S7-1500 PLC, End. Ethernet, 1Gbit TCP/IP, ISO, UDP, HMI,OPC, S7 Communication Server/Client, Profinet IO Device	6GK7543-1AX00-0XE0
SIMATIC CC712	SIMATIC CloudConnect 712 IoT Gateway, 2x Ethernet RJ45, S7, Modbus, MQTT, OPC, MindSphere, Microsoft Azure, IBM Cloud	6GK1411-1AC00
SIMATIC CC716	SIMATIC CloudConnect 716 IoT Gateway, 2x Ethernet RJ45, 1xMPI/PB Profibus S7, Modbus, MQTT, OPC, MindSphere, Microsoft Azure, IBM Cloud	6GK1411-5AC00

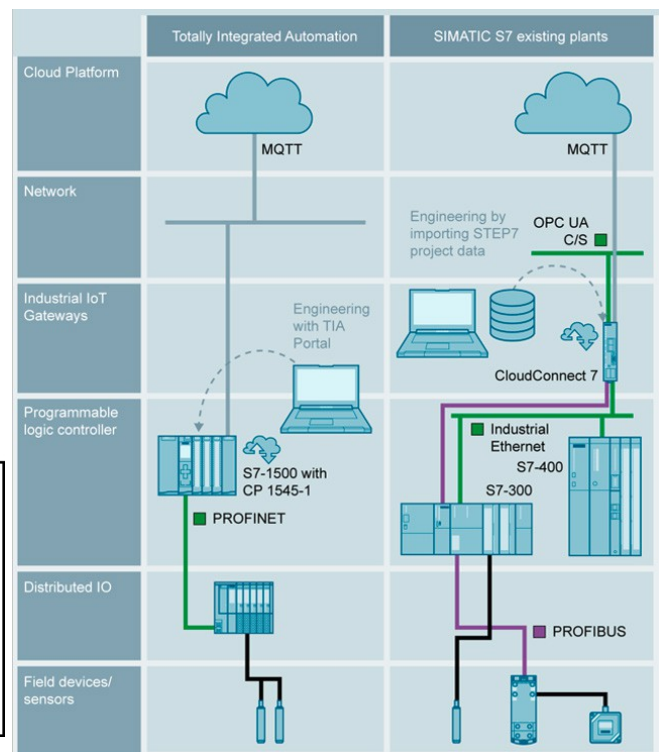
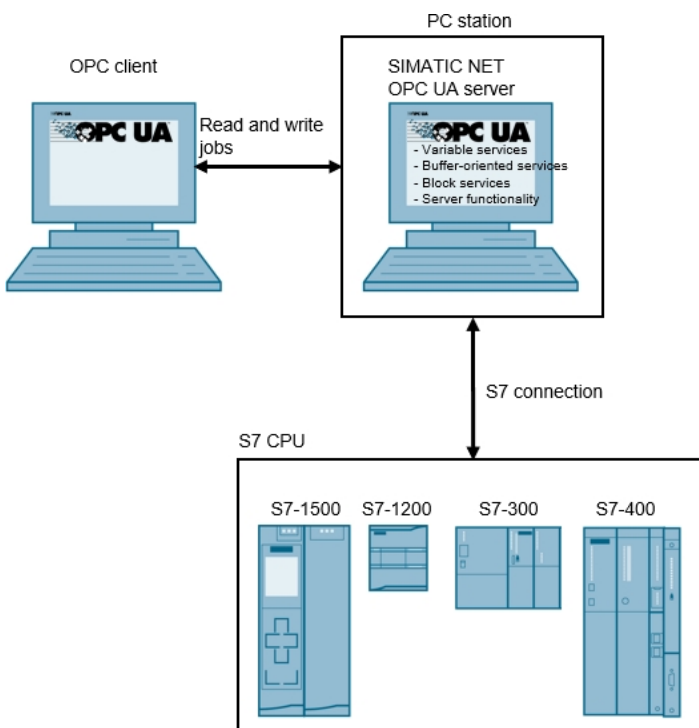


CC716



CC712

For PROFIBUS OPC software and PROFIBUS PC cards, see PROFIBUS PC cards section. With PLC CP cards, a second IP address and subnet can be added to the PLC. HMI, OPC connection can be made. The compatibility of the existing CPU and CP communication card should be checked. CP443-1/CP443-1 Adv. Profinet IO controller feature for S7-300/S7-400 PLC may vary according to CPU version. Available S7-300/S7-400 PLCs with CC712 and CC716 can communicate data via OPC UA variables (server).



# SIMATIC NET Communication Systems



Material Type		Order No
<b>SINEC NMS Network Monitoring and Management Software</b>		
V3.0 Monitoring XS 3Y	Monitoring and diagnostics 100 IP devices 36 months, auto extension OSD	6GK8781-1DD02-0AK1
V3.0 Monitoring S 3Y	Monitoring and diagnostics 500 IP devices 36 months, auto extension OSD	6GK8781-1TD02-0AK1
V3.0 Monitoring M 3Y	Monitoring and diagnostics 1000 IP devices 36 months auto extension OSD	6GK8781-1UD02-0AK1
V3.0 Configuration XS 3Y	Configuration, 100 IP devices, 36 months, automatic non-extension, OSD	6GK8781-1DD02-0AK2
V3.0 Configuration S 3Y	Configuration, 500 IP devices, 36 months, automatic non-extension, OSD	6GK8781-1TD02-0AK2
V3.0 Configuration M 3Y	Configuration, 1000 IP devices, 36 months, automatic non-extension, OSD	6GK8781-1UD02-0AK2

You can contact our solution partners for -1 year, 5 year and automatic extension (subscription) versions and versions supporting 3000, 10000, 37500 devices.

<b>SCALANCE LPE</b>			
<b>New</b>	SCALANCE LPE9403	Local processing engine; 64-bit ARMv8 (4-core); 4 GB RAM; 40 GB eMMC(pSLC); Debian Linux; 3x 10/100/1000 Mbps RJ45; 1x 100/1000 Mbps SFP; 1 combo port; 1xUSB3.0; CLP slot; diagnostic LED; redundant power supply	6GK5998-3GS00-2AC2
	SCALANCE LPE9413	Industrial Edge Local processing engine; 64-bit ARMv8 (4-core); 4 GB RAM; 40 GB eMMC(pSLC); 3x 10/100/1000 Mbps RJ45; 1x 100/1000 Mbps SFP; 1 combo port; 1xUSB3.0; CLP slot; diagnostic LED; redundant power supply	6GK5998-3GS01-2AC2
<b>SINEC Traffic Analyzer</b>			
<b>New</b>	SINEC Traffic Analyzer	Software that enables monitoring of errors that may occur during the communication of PROFINET devices	6GK8822-1BG01-0BA0

## SIMENS

**CONTROL**

Home | Network monitoring | Network administration | System monitoring | System administration

Home

**Overall Device Status**

Devices OK: 32 | Goto: Device list for control

**Overall System Status**

CONTROL SYSTEM STATUS: OK

CONNECTED OPERATIONS: 3

WORST OPERATION CONNECTION STATUS: OK

WORST OPERATION HEALTH STATUS: OK

Goto: Operation Management

**Policy Status** | Total amount of policies: 3

Goto: Policy Control Center | Policy Result Log

**SIMENS** | SINEC NMS

Operation - OpProduction (192.168.130.70) | Notifications | SuperAdmin

Home | Network monitoring | Network administration | System monitoring | System administration | Control

Home >> Network monitoring >> Topology

- Overall status
  - Internal
    - OK (13)
    - Maintenance demanded (4)
    - Error (1)
  - Devices
    - All devices (18)
    - PROFINET device name
    - Grouped
      - Access point (1)
      - Other (1)
      - PC/HMI (1)
      - PLC (1)
      - PLC-CPU (1)
      - Router (4)
      - Switch (7)
      - WLAN client (1)
    - Vendor
      - Other (1)
      - Siemens AG (17)
    - Subnet
      - 192.168.130.0/24 (17)
      - 192.168.130.0/24 (1)
    - PNIO systems
    - Unassigned devices (11)
    - Views

Status: Down

Monitoring setting: Down

Statistics: false

**Redundancy information**

Protocol: MRP

Port status: not connected

Role: Ring manager

Ring status: Maintenance demanded

**Pending event (most negative)**

Time stamp: 2018-08-23 07:48:28.404

Overall status: -2

Event: Redundancy status: interrupt...

**Pending events (opposit)**

Time stamp: 2018-08-23 07:48:28.404

Overall status: +3

Event: Redundancy status: interrupt...

**Note**

Read	Event status	Event	Event class	Time stamp	Event details	IP address - affected
<input type="checkbox"/>	Pending	Wireless interface quality: critical high signal strength to the connect	Warning	2018-08-26 19:25:57.595	MAC address: 00:1b:37:a4:f9, value: -34	192.168.120.82
<input type="checkbox"/>	Resolving	Wireless interface quality: normal signal strength to the connect	Info	2018-08-26 19:20:57.431	MAC address: 00:1b:37:a4:f9, value: -43	192.168.120.82
<input type="checkbox"/>	Resolved automat	Wireless interface quality: critical high signal strength to the connect	Warning	2018-08-26 19:15:57.544	MAC address: 00:1b:37:a4:f9, value: -31	192.168.120.82
<input type="checkbox"/>	Resolving	Wireless interface quality: normal signal strength to the connect	Info	2018-08-26 19:10:57.505	MAC address: 00:1b:37:a4:f9, value: -41	192.168.120.82
<input type="checkbox"/>	Resolved automat	Wireless interface quality: risky high signal strength to the connect	Warning	2018-08-26 19:05:57.608	MAC address: 00:1b:37:a4:f9, value: -36	192.168.120.82

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# SIMATIC NET Communication Systems



Material Type		Order No
<b>SCALANCE S Security Modules</b>		
SCALANCE S615	SCALANCE Security Module, VPN, Firewall, 5 port RJ45	6GK5615-0AA00-2AA2
SCALANCE SC622-2C	2 x combo ports, RJ45 10/100/1000 Mbit/s or fiber SFP 1000 Mbit/s firewall	6GK5622-2GS00-2AC2
		6GK5626-2GS00-2AC2
SCALANCE SC632-2C	2 x combo ports, RJ45 10/100/1000 Mbit/s or fiber SFP 1000 Mbit/s bridged firewall	6GK5632-2GS00-2AC2
SCALANCE SC636-2C	2 x combo ports, RJ45 10/100/1000 Mbit/s or fiber SFP 1000 Mbit/s, 4 x RJ45 ports 10/100/1000 Mbit/s, bridged firewall	6GK5636-2GS00-2AC2
SCALANCE SC642-2C	2 x combo ports, RJ45 10/100/1000 Mbit/s or fiber SFP 1000 Mbit/s bridged firewall / VPN	6GK5642-2GS00-2AC2
SCALANCE SC646-2C	2 x combo ports, RJ45 10/100/1000 Mbit/s or fiber SFP 1000 Mbit/s, 4 x RJ45 ports 10/100/1000 Mbit/s,bridged firewall / VPN	6GK5646-2GS00-2AC2

# Select SFP Modules from the Scalance X section.

<b>SINEMA RC Remote Connect, Teleservice, machine monitoring and remote service system</b>		
SINEMA RC Basic	Service center software package, including 4 connections	6GK1720-1AH01-0BV0
SINEMA RC Upgr. 64	Service center upgrade software package, 64 connections	6GK1722-1JH01-0BV0
SINEMA RC Upgr. 256	Service center upgrade software package, 256 connections	6GK1722-1MH01-0BV0
SINEMA RC Upgr. 1024	Service center upgrade software package, 1024 connections	6GK1722-1QH01-0BV0
SINEMA RC Client V2.1	Service, engineering computer Client software	6GK1721-1XG01-0AA0
SINEMA RC Client V3.0	Service, engineering computer Client software SINEMA Server >=V3.0	6GK1721-1XG03-0AA0
SINEMA RC Client V3 (OSD)	Service, engineering computer Client software SINEMA Server >=V3.0	6GK1721-1XG03-0AK0
SINEMA RC Client V3 Upd.(OSD)	License to upgrade to Cinema RC Client V3	6GK1721-3XG03-0AK0
CINEMA RC KEY-PLUG	SINEMA RC activation Module for Scalance S615 and Scalance M800	6GK5908-0PB00
SCALANCE M804PB	2x Ethernet RJ45, 1xMPI/PROFIBUS SINEMA RC connection	6GK5804-0AP00-2AA2
SCALANCE S615	SCALANCE Security Module, VPN, Firewall, 5 port RJ45	6GK5615-0AA00-2AA2
SCALANCE M876-4	4G/LTE modem/router with 4xRJ45 ports, VPN	6GK5876-4AA10-2BA2
ANT 794 - 4MR	GSM modem, external antenna SMA connection and 5m. cable	6NH9860-1AA00



S615



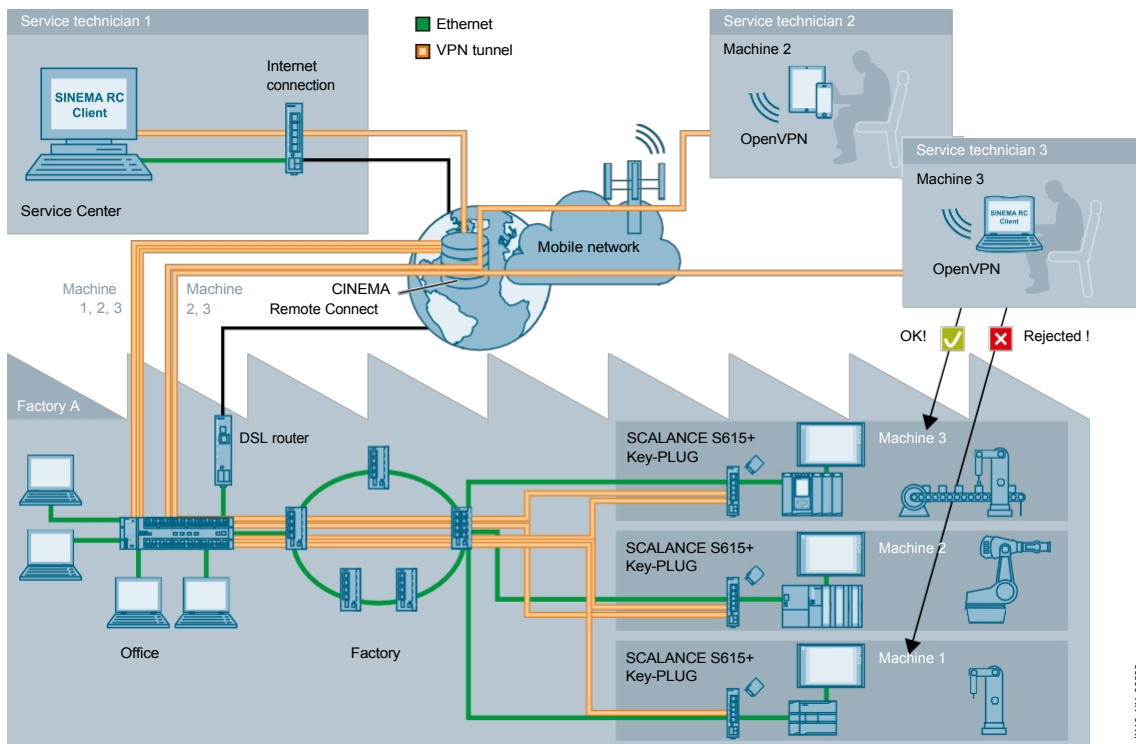
SCALANCE SC



M804PB



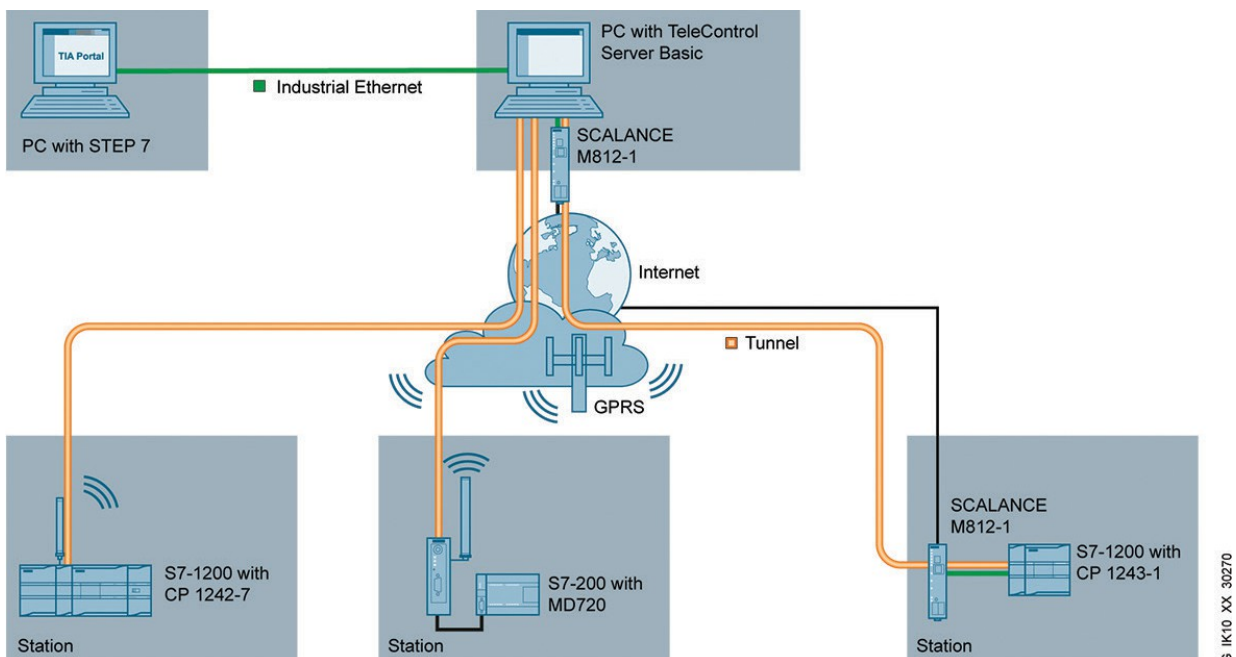
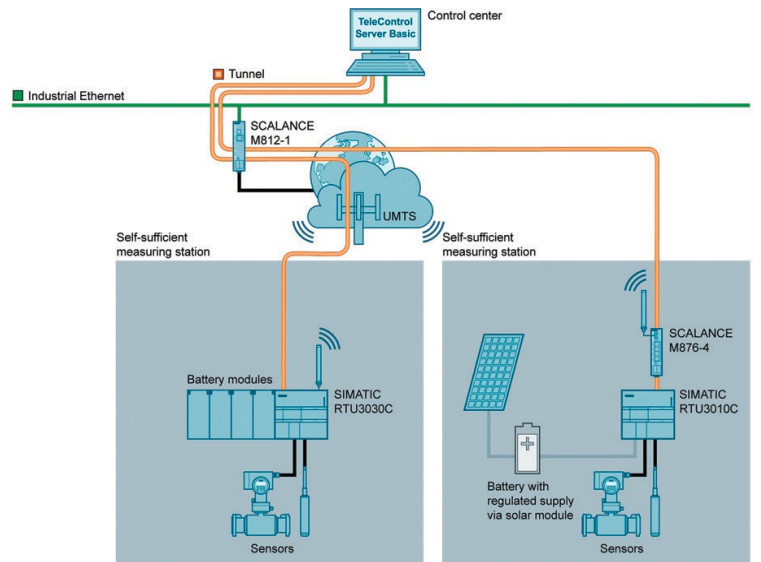
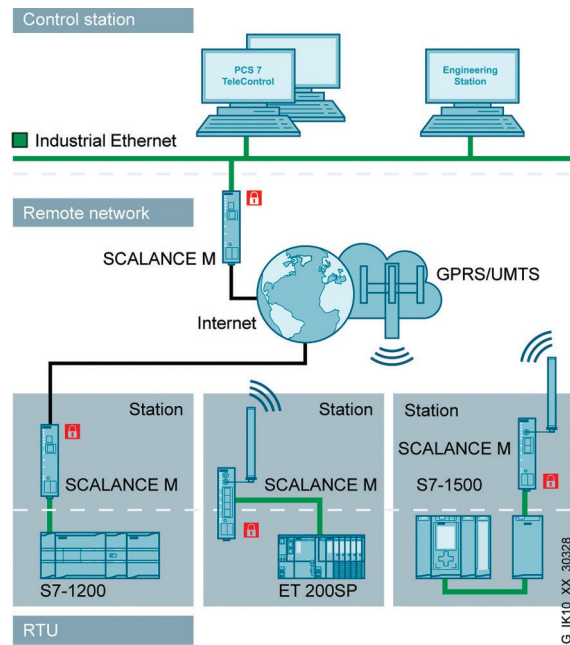
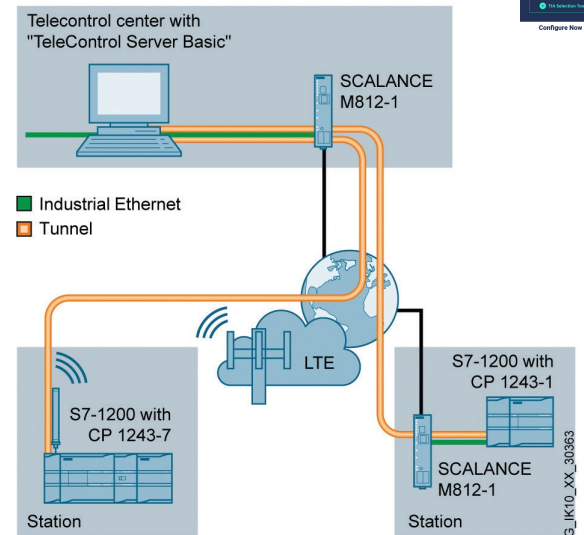
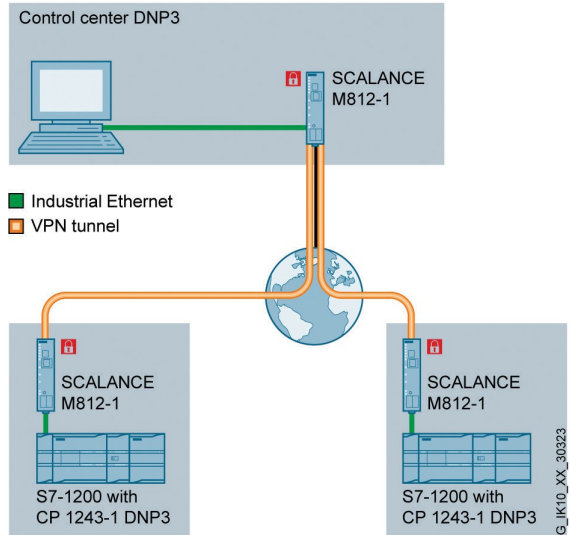
M876-4



N\_1K10\_XX\_30366

SINEMA RC Remote Connect, Teleservice, machine monitoring and remote service system

# SIMATIC NET Communication Systems



# SIMATIC NET Communication Systems



Material Type	Order No
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Telecontrol protocols; DNP3, IEC 60870-5-104, TeleControl Basic, SINAUT ST7 12 ... 24 V DC, 2 x 3 redundant battery modules, Battery with solar panel  
 -40 ... +70 °C operating temperature  
 IP20 (with IP68 external enclosure accessory) Programming via web interface

## SIMATIC RTU3000C, Compact RTU family

SIMATIC RTU3011C	8 DI, 4 DO, 4 AI compact RTU	6NH3112-0BB00-0XX0
SIMATIC RTU3051C	LTE-MNB-IoT, 8 DI, 4 DO, 4 AI compact RTU, built-in GSM, GPS	6NH3112-5BB00-0XX0
HART/RS485	HART/RS485 module	6NH3112-3BA00-6XX1
RTU panel	IP68 Aluminum panel	6NH3112-3BA00-1XX3
Record	Cable gland for IP68 enclosure (pack of 2)	6NH3112-3BA00-1XX4
Record cover	IP68 cable record empty slot cover for enclosure (2-pack)	6NH3112-3BA00-1XX5
Battery module	Battery slot	6NH3112-3BA00-1XX2
Battery module	Battery expansion slot	6NH3112-3BA00-1XX6



SIMATIC RTU 3000C



HART/RS485

## SIMATIC PLC Based RTU family

CP 1243-7 LTE	S7-1200 PLC RTU module, TeleControl Basic, GSM/LTE/4G, data log, time tag	6GK7243-7KX30-0XE0
CP 1243-1	S7-1200 PLC RTU module, TeleControl Basic or Telecontrol Prof. with DNP3 or IEC 60870-5-104, data log, time tag	6GK7243-1BX30-0XE0
CP 1243-8 IRC	S7-1200 PLC RTU module, SINAUT ST7, Telecontrol Prof. with DNP3 or IEC 60870-5-104, data log, time tag	6GK7243-8RX30-0XE0
CP 1542SP-1 IRC	ET200SP PLC RTU module, SINAUT ST7, Telecontrol Prof. with DNP3 or IEC 60870-5-104, data log, time tag	6GK7542-6VX00-0XE0
TIM 1531 IRC	S7-1500 PLC RTU module, SINAUT ST7, DNP3 with Telecontrol Prof., IEC 60870-5, data log, time tag	6GK7543-1MX00-0XE0



S7-1200 RTU

See WinCC section for Telecontrol Prof.

## SIMATIC PLC Based RTU family

TCSB 8 V3.1	OPC Server 8 for connection	6NH9910-0AA31-0AA0
TCSB 32 V3.1	OPC Server 32 for connection	6NH9910-0AA31-0AF0
TCSB 64 V3.1	OPC Server 64 for connection	6NH9910-0AA31-0AB0
TCSB 256 V3.1	OPC Server for 256 connections	6NH9910-0AA31-0AC0
TCSB 1000 V3.1	OPC Server 1000 for connection	6NH9910-0AA31-0AD0
TCSB 5000 V3.1	OPC Server 5000 for connection	6NH9910-0AA31-0AE0



ET200SP RTU

## SCALANCE M GSM Modems, SCALANCE S Security Modules

SCALANCE M876-4	4G/LTE modem/router with 4xRJ45 ports, VPN	6GK5876-4AA10-2BA2
ANT 794 - 4MR	GSM modem, external antenna SMA connection and 5m. cable	6NH9860-1AA00
SCALANCE S615	SCALANCE Security Module, VPN, Firewall, 5 port RJ45	6GK5615-0AA00-2AA2
SCALANCE SC632-2C	2 x combo ports, RJ45 or fiber SFP 10/100/1000 Mbit/s firewall	6GK5632-2GS00-2AC2
SCALANCE SC636-2C	2 x combo ports, 4 x RJ45 ports 10/100/1000 Mbit/s firewall	6GK5636-2GS00-2AC2
SCALANCE SC642-2C	2 x combo ports, RJ45 or fiber SFP 10/100/1000 Mbit/s firewall / VPN	6GK5642-2GS00-2AC2
SCALANCE SC646-2C	2 x combo ports, 4 x RJ45 ports 10/100/1000 Mbit/s firewall / VPN	6GK5646-2GS00-2AC2



S7-1500 RTU



SCALANCE SC



M876-4



# SIMATIC NET Communication Systems



Material Type	Order No
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## SCALANCE X Industrial Ethernet / PROFINET Switches

### SCALANCE XB 000: Entry Level Compact Industrial Ethernet / PROFINET Switches

SCALANCE XB005*	5 x RJ45 port switch	6GK5005-0BA00-1AB2
SCALANCE XB008*	8 x RJ45 port switch	6GK5008-0BA10-1AB2
SCALANCE XB004-1	4 x RJ45, 1 x SC FO port, MM switch, max. 3 km	6GK5004-1BD00-1AB2
SCALANCE XB004-2	4 x RJ45, 2 x SC FO ports, MM switch, max. 3 km	6GK5004-2BD00-1AB2
SCALANCE XB004-1LD	4 x RJ45, 1 x SC FO port, SM switch, max. 26 km	6GK5004-1BF00-1AB2
SCALANCE XB004-2LD	4 x RJ45, 2 x SC FO ports, SM switch, max. 26 km	6GK5004-2BF00-1AB2
SCALANCE XB005 G	5 x RJ45 port, gigabit switch	6GK5005-0GA10-1AB2
SCALANCE XB008 G	8 x RJ45 port, gigabit switch	6GK5008-0GA10-1AB2
SCALANCE XB004-1 G	4 x RJ45, 1 x SC FO port, MM gigabit switch, max. 750 m	6GK5004-1GL10-1AB2
SCALANCE XB004-1LD G	4 x RJ45, 1 x SC FO port, SM gigabit switch, max. 10 km	6GK5004-1GM10-1AB2



SCALANCE XB008



SCALANCE XB004-2

### SCALANCE X00: Compact Industrial Ethernet / PROFINET Switches

SCALANCE X005	5 x RJ45 ports, basic level switch	6GK5005-0BA10-1AA3
SCALANCE X005 TS	5 x RJ45 ports, for transportation systems, EN50155	6GK5005-0BA10-1CA3

## SCALANCE X Industrial Ethernet Converters

SCALANCE XCM102	1x RJ45 100/1000 Mbit/s, 1xSFP fiber 100/1000 Mbit/s	6GK5102-1GS00-2AC2
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New



PORT LOCK

## SCALANCE XB-100: Compact Industrial Ethernet PROFINET Switches

SCALANCE XB108-2	8x RJ45 port, 2x ST/BFOC port Multi Mode	6GK5108-2BB00-2AB2
SCALANCE XB108-2	8x RJ45 port, 2x SC port Multi Mode	6GK5108-2BD00-2AB2
SCALANCE XB112*	12x RJ45 ports	6GK5112-0BA00-2AB2
SCALANCE XB116*	16x RJ45 ports	6GK5116-0BA00-2AB2
SCALANCE XB124*	24x RJ45 ports	6GK5124-0BA00-2AB2



## SCALANCE XC-100: Compact Industrial Ethernet PROFINET Switches

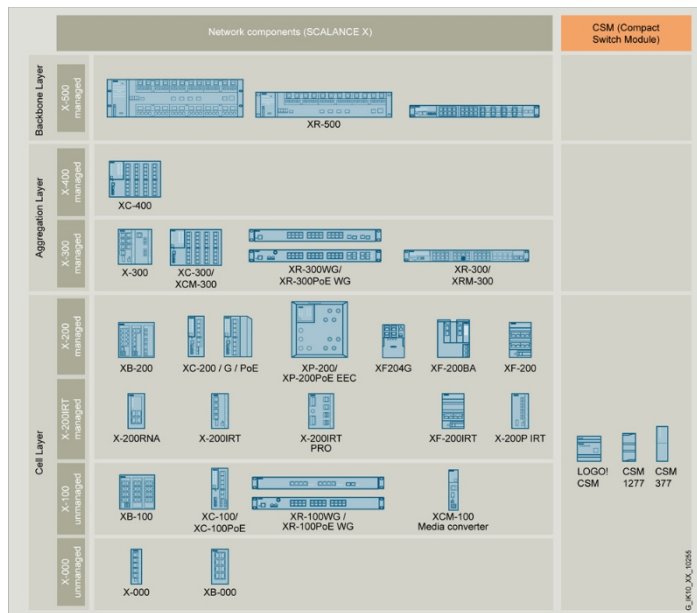
SCALANCE XC106-2	6 x RJ45 ports, 2 x FO MM ST connectors, switch	6GK5106-2BB00-2AC2
SCALANCE XC108	8 x RJ45 ports, switch	6GK5108-0BA00-2AC2
SCALANCE XC116	16 x RJ45 ports, switch	6GK5116-0BA00-2AC2
SCALANCE XC124	24 x RJ45 ports, switch	6GK5124-0BA00-2AC2



SCALANCE XC106-2

## SCALANCE XR-100: 19" rack-type Industrial Ethernet PROFINET Switches

XR124WG	24 V DC, 24x 10/100 Mbps Port, unManaged	6GK5124-0BA00-2AR3
XR124WG	110-240V AC, 24x 10/100 Mbps Port, unmanaged	6GK5124-0BA00-3AR3



SCALANCE XB124



SCALANCE XCM102



SCALANCE XR100

\* : There is a campaign for purchases of 10 and above. Please our dealers.

# SIMATIC NET Communication Systems



Material Type	Order No
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## SCALANCE XB-200: Compact and Managed Industrial Ethernet PROFINET Switches

SCALANCE XB208	8 x RJ45 ports, switch	6GK5208-0BA00-2AB2
SCALANCE XB205-3	5 x RJ45, 3 x F0 MM switch, max. 5 km, SC connector	6GK5205-3BD00-2AB2
SCALANCE XB205-3	5 x RJ45, 3 x F0 MM switch, max. 5 km, ST, connector	6GK5205-3BB00-2AB2
SCALANCE XB205-3LD	5 x RJ45, 3 x F0 SM switch, max. 26 km, SC, connector	6GK5205-3BF00-2AB2
SCALANCE XB216	16 x RJ45 ports, switch	6GK5216-0BA00-2AB2
SCALANCE XB213-3	13 x RJ45, 3 x F0 MM switch, max. 5 km, SC, connector	6GK5213-3BD00-2AB2
SCALANCE XB213-3	13 x RJ45, 3 x F0 MM switch, max. 5 km, ST, connector	6GK5213-3BB00-2AB2
SCALANCE XB213-3LD	13 x RJ45, 3 x F0 SM switch, max. 26 km, SC connector	6GK5213-3BF00-2AB2



SCALANCE XB2133

XB200 series switches have 0+60 degree operating temperature, MRP Ring, VLAN, redundant supply and console port.

## SCALANCE XC-200: Compact and Managed Industrial Ethernet PROFINET Switches

SCALANCE XC206-2	6x RJ45 port 10/100 Mbps, 2x FO MM ST/BFOC port 100 Mbps	6GK5206-2BB00-2AC2
SCALANCE XC206-2	6x RJ45 port 10/100 Mbps, 2x FO MM SC port 100 Mbps	6GK5206-2BD00-2AC2
SCALANCE XC206-2SFP	6x RJ45 ports 10/100 Mbps, 2x SFP ports, 100/1000 Mbps	6GK5206-2BS00-2AC2
SCALANCE XC206-2SFP G	6x RJ45 ports 10/100/1000 Mbps, 2x SFP ports, 100/1000 Mbps	6GK5206-2GS00-2AC2
SCALANCE XC208	8x RJ45 ports 10/100 Mbps	6GK5208-0BA00-2AC2
SCALANCE XC208 G	8x RJ45 ports 10/100/1000 Mbps	6GK5208-0GA00-2AC2
SCALANCE XC216	16x RJ45 ports 10/100 Mbps	6GK5216-0BA00-2AC2
SCALANCE XC216-4C	12x 10/100 Mbit/s RJ45 ports, 4x 1000 Mbit/s combo (4 ports 10/100 Mbit/s RJ45 or 1000 Mbit/s SFP)	6GK5216-4BS00-2AC2
(SCALANCE) (XC216-4C) (G)	12x 10/100/1000 Mbit/s RJ45 ports, 4x 1000 Mbit/s combo (4 ports 10/100/1000 Mbit/s RJ45 or 1000 Mbit/s SFP)	6GK5216-4GS00-2AC2
SCALANCE XC224	24x RJ45 ports 10/100 Mbps	6GK5224-0BA00-2AC2
(SCALANCE) (XC224-4C) (G)	20x 10/100/1000 Mbit/s RJ45 ports, 4x 1000 Mbit/s combo (4 ports 10/100/1000 Mbit/s RJ45 or 1000 Mbit/s SFP)	6GK5224-4GS00-2AC2



SCALANCE XC206-2SFP



XC216-4C

\*See SFP section for SFP fiber port options.

XC-200 series switches have -40, +70 degree operating temperature, fault contact, C-Plug, VLAN, MRP Ring RSTP, Standby Master/Slave, Link aggregation IGMP Snooping and Query, IEEE 802.1X and console port.

## SCALANCE XP200: IP65 Managed Industrial Ethernet / PROFINET Switches

SCALANCE XP208	8x M12 port 10/100 Mbps (D-coded)	6GK5208-0HA00-2AS6
SCALANCE XP208EEC	8x M12 port 10/100 Mbps (D-coded) EN50155/45545	6GK5208-0HA00-2ES6
SCALANCE XP208PoE EEC	4x M12 port 10/100 Mbps (D-coded), 4x M12-PoE+ port 10/100 Mbps (D-coded) EN50155/45545 approval	6GK5208-0UA00-5ES6
SCALANCE XP216	12x M12 port 10/100 Mbps (D-coded), 4x M12 port 10/100/1000 Mbps (X-coded)	6GK5216-0HA00-2AS6
(SCALANCE) (XP216EEC)	12x M12 port 10/100 Mbps (D-coded), 4x M12 port 10/100/1000 Mbps (X-coded) EN50155/45545	6GK5216-0HA00-2ES6
SCALANCE XP216PoE EEC	8x M12 ports 10/100 Mbps (D-coded), 6x M12 PoE ports 10/100 Mbps (D-coded), 2x M12 ports 10/100/1000 Mbps (X-coded), EN50155/45545	6GK5216-0UA00-5ES6



XP200

SCALANCE XP - 200 family has metal, IP65, -40 +70 operating temperature, VLAN, IGMP, ACL, IEEE 802.1X (RADIUS client), RSTP/MSTP, RMON, DHCP server features.

## SCALANCE XF200: IRT Managed Industrial Ethernet / PROFINET Switches

(SCALANCE) (XF204-2BA) (IRT)	Managed Profinet IRT Switch, 4 x 10/100 Mbit/s, (2 x Bus adapter must be taken)	6GK5204-2AA00-2BD2
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XF204



SFP

FO: Fiber Optic port MM: Multi Mode (50/125µm, 62.5/125µm) SM: Single Mode (9/125µm, 10/125µm)  
 - The maximum distance may vary depending on the type and cross-section of fiber cable selected.

# SIMATIC NET Communication Systems



Material Type	Order No
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## SCALANCE X PoE: Compact Industrial Power Over Ethernet PROFINET Switches



XCM108 PoE



XC206-2G PoE (24V)

SCALANCE XCM108PoE	UnManaged, 8x100 Mbit/s RJ45, PoE IEEE802.3at (30 W), 24 V DC / 54 V DC supply	6GK5108-0PA00-2AC2
SCALANCE XCM108PoE	UnManaged, 100/1000 Mbit/s RJ45, PoE IEEE802.3at (30 W), 24 V DC / 54 V DC supply	6GK5108-0RA00-2AC2
SCALANCE XCM108PoE	UnManaged, 6x100/1000 Mbit/s RJ45, PoE IEEE802.3at (30 W), 2x1000/10000 Mbit/s SFP, 24 V DC / 54 V DC supply	6GK5108-2RS00-2AC2
SCALANCE XCM108PoE	UnManaged, 6x100/1000 Mbit/s RJ45, PoE IEEE802.3at (30 W), 2x1000/10000 Mbit/s SFP, 24 V DC / 54 V DC supply, conformal coating	6GK5108-2RS00-2FC2
XC206-2G PoE	6x 10/100/1000 Mbps RJ45 PoE ports IEEE802.3at ; 2 x 10/100/1000 Mbps RJ45 PoE port IEEE802.3bt; 2x 1,000, 10,000 Mbps SFP+; 24 V DC supply; 120 W PoE power	6GK5206-2RS00-2AC2
XC206-2G PoE (54 V)	6x 10/100/1000 Mbps RJ45 PoE ports IEEE802.3at; 2 10/100/1000 Mbps RJ45 PoE port IEEE802.3bt; 2x 1,000, 10,000 Mbps SFP+; 54 V DC supply; 240 W PoE power	6GK5206-2RS00-5AC2
XC206-2G PoE EEC (54 V)	6x 10/100/1000 Mbps RJ45 PoE ports IEEE802.3at, 2 x 10/100/1000 Mbps IEEE802.3bt, 2x 1Gbit, 10Gbit Mbps SFP+, 54 V DC supply, 240 W PoE power, coated board design	6GK5206-2RS00-5FC2
XC208G PoE	6x 10/100/1000 Mbps RJ45 PoE ports IEEE802.3at, 2x 10/100/1000 Mbps RJ45 PoE port IEEE802.3bt, 24 V DC supply; 120 W PoE power	6GK5208-0RA00-2AC2
XC208G PoE (54 V)	6x 10/100/1000 Mbps RJ45 PoE ports IEEE802.3at, 6x 10/100/1000 Mbps RJ45 PoE port IEEE802.3bt, 54 V DC supply; 240 W PoE power	6GK5208-0RA00-5AC2

XC200 series switches; Managed, MRP, RSTP, ring support, VLAN, -40 +60 C operating temperature, redundant supply, console port, C-Plug, IEC 62443 certification

## SCALANCE X PoE: Rack Type Industrial Power Over Ethernet PROFINET Switches



XC206-2G PoE (54V)

XR108-2PoE WG	8x 10/100/1000 Mbps PoE ports, 2 x 1G/10Gbps SFP ports, unmanaged, 19" Rack, 240 V AC (85 - 264 V) supply	6GK5108-2QS00-3AR3
XR326-2C PoE WG	24x 10/100/1000 PoE ports, 2 x 10Gbit combo ports, , 19" rack; 240 V AC (85 - 264 V) supply	6GK5326-2QS00-3AR3
XR326-2C PoE WG	24x 10/100/1000 PoE ports, 2 x 10Gbit combo ports, Managed, 19" rack; 240 V AC (85 - 264 V) supply, UL uncertified	6GK5326-2QS00-3RR3
PSR9230PoE	"Rack PoE power supply with 110-240 V AC supply SCALANCE PSR9230PoE 19" rack power supply for Power over Ethernet, Input: 230 V AC; output: 54 V DC"	6GK5923-0PS00-2RA3
SCALANCE XR324-4M POE	19" rack mount gigabit switch, 8 x Gbit POE, 4 x MM module slots, front cable, 24 V DC	6GK5324-4QG10-1AR2
SCALANCE XR324-4M POE	19" rack mount gigabit switch, 8 x Gbit POE, 4 x MM module slots, rear cable, 24 V DC	6GK5324-4QG10-1HR2
SCALANCE XR324-4M POE	19" rack mount gigabit switch, 8 x Gbit POE, 4 x MM module slots, front cable, 230 V DC	6GK5324-4QG10-3AR2
SCALANCE XR324-4M POE	19" rack mount gigabit switch, 8 x Gbit POE, 4 x MM module slots, rear cable, 230 V DC	6GK5324-4QG10-3HR2

For XR324-4M POE MM:Media Module, Fiber and other media modules, see XR-300 section. For Layer 3 PoE switches, please refer to XM-400 and XR-500.

## Gigabit and 10 Gigabit SFP modules



SFP

SFP992-1	1x 1 Gigabit FO LC port multimode, max.400 m / 750 m	6GK5992-1AL00-8AA0
SFP992-1+	1x 1 Gigabit FO LC port multimode, max. 1 km / 2 km	6GK5992-1AG00-8AA0
SFP992-1LD	1x 1 Gigabit FO LC port, singlemode, max. 10 km	6GK5992-1AM00-8AA0
SFP992-1LH	1x 1 Gigabit FO LC port, singlemode, max. 40 km	6GK5992-1AN00-8AA0
SFP992-1LH+	1x 1 Gigabit FO LC port, singlemode, max. 70 km	6GK5992-1AP00-8AA0
SFP992-1ELH	1x 1 Gigabit FO LC port, singlemode, max. 120 km	6GK5992-1AQ00-8AA0
SFP 993-1	1x 10 gigabit FO LC port multimode, max. 300 m	6GK5993-1AT00-8AA0
SFP 993-1LD	1x 10 gigabit FO LC port singlemode, max. 10 km	6GK5993-1AU00-8AA0
SFP993-1LH	1x 10 gigabit FO LC port singlemode, max. 40 km	6GK5993-1AV00-8AA0



XR108-2PoE WG

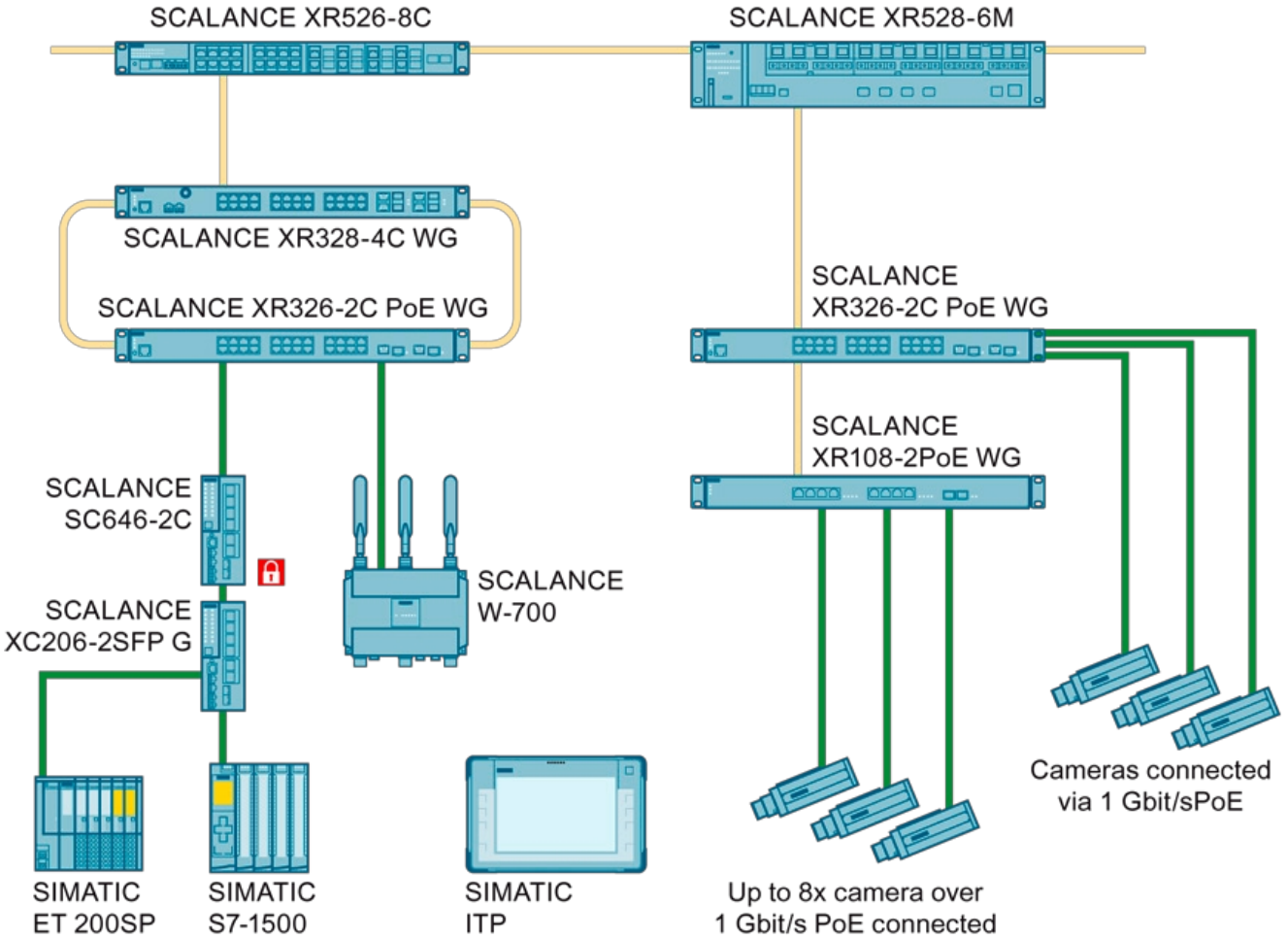


XR326-2C PoE WG

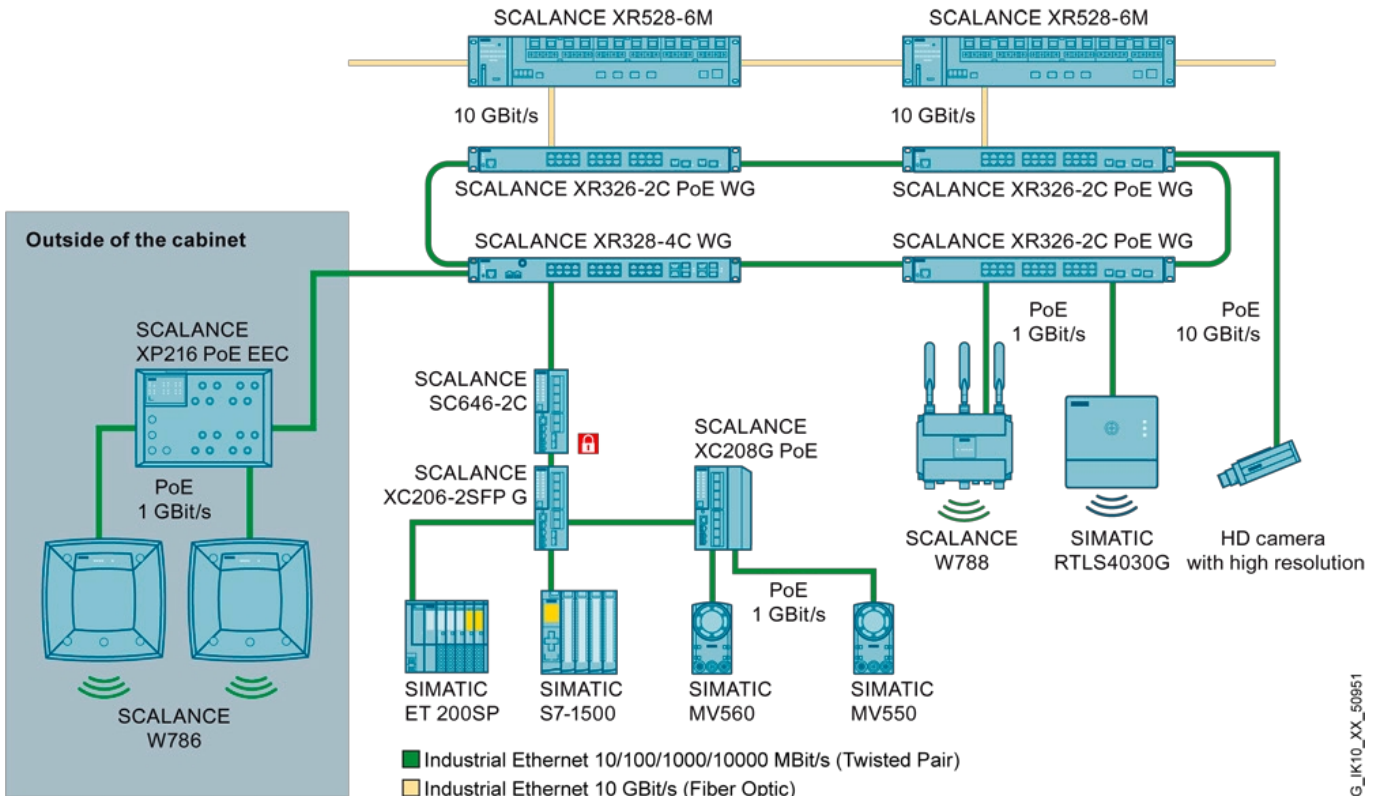
FO: Fiber Optic port MM: Multi Mode (50/125µm, 62.5/125µm) SM: Single Mode (9/125µm, 10/125µm)  
 - The maximum distance may vary depending on the type and cross-section of fiber cable selected.

# SIMATIC NET Communication Systems

## SCALANCE X PoE: Industrial Power Over Ethernet PROFINET Switches



- Industrial Ethernet 10/100/1000/10000 MBit/s (Twisted Pair)
- Industrial Ethernet 10 GBit/s (Fiber Optic)

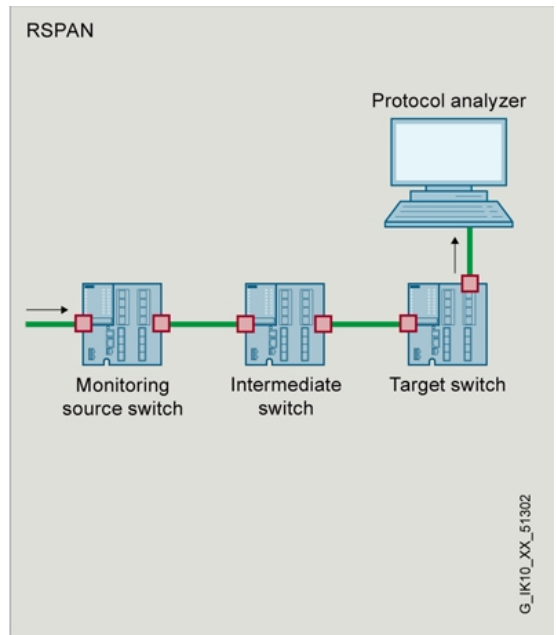
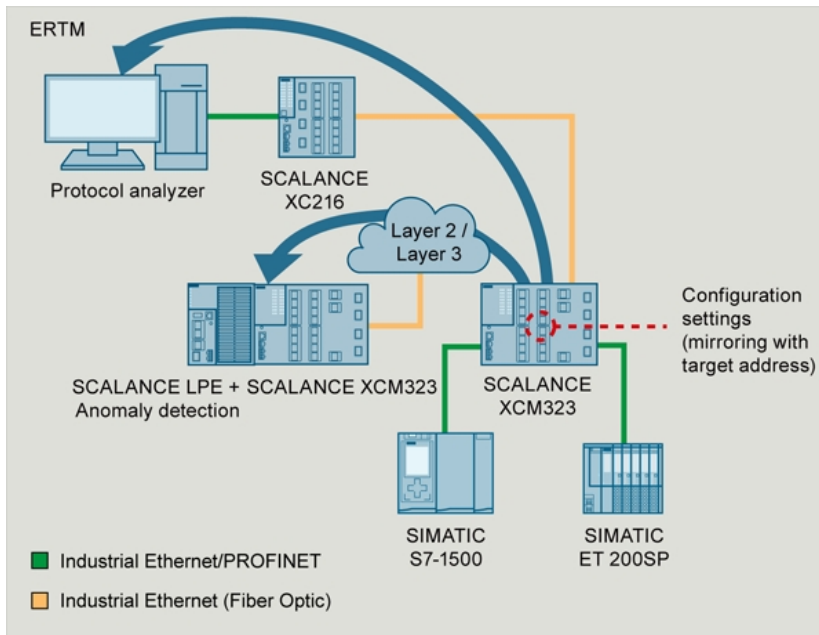


- Industrial Ethernet 10/100/1000/10000 MBit/s (Twisted Pair)
- Industrial Ethernet 10 GBit/s (Fiber Optic)

# SIMATIC NET Communication Systems



Material Type		Order No
<b>SCALANCE X Industrial Ethernet / PROFINET Switches</b>		
XR324WG	Redundant 24 V DC, 24x 10/100 Mbps Port	6GK5324-0BA00-2AR3
XR324WG	110-240V AC, 24x 10/100 Mbps Port	6GK5324-0BA00-3AR3
XR328-4C WG	Redundant 24 V DC, 24x 10/100 Mbps Port 4 x 1000 Mbps Combo Port	6GK5328-4FS00-2AR3
XR328-4C WG	110-240V AC, 24x 10/100Mbps/s Port 4 x 1000 Mbps Combo Port	6GK5328-4FS00-3AR3
XR328-4C WG*	Redundant 24 V DC, 24x 10/100 Mbps Port 4 x 1000 Mbps Combo Port	6GK5328-4FS00-2RR3
XR328-4C WG*	110-240V AC, 24x 10/100 Mbps Port 4 x 1000 Mbps Combo Port	6GK5328-4FS00-3RR3
XR328-4C WG	Redundant 24 V DC, 24x 10/100/1000 Mbps Port 4 x 1000 Mbps Combo Port	6GK5328-4SS00-2AR3
XR328-4C WG	110-240V AC, 24x 10/100/1000 Mbps Port 4 x 1000 Mbps Combo Port	6GK5328-4SS00-3AR3



XR324WG



XR328-4C

\* UL non-certified version.  
 Combo ports are fiber ports when SFP is used and RJ45 copper ports when SFP is not used.  
 FO : Fiber Optic port MM : Multi Mode (50/125µm, 62.5/125µm) SM : Single Mode (9/125µm, 10/125µm)  
 - The maximum distance may vary depending on the type and cross-section of fiber cable selected.

# SIMATIC NET Communication Systems



Material Type	Order No	
<b>SCALANCE X Industrial Ethernet / PROFINET Switches</b>		
SCALANCE XC3168	16x 10/100/1000 Mbps RJ45, 8x 1/10 Gbps SFP+ ports	6GK5324-8TS00-2AC2
SCALANCE XC3244	24x 10/100/1000 Mbps RJ45, 4x 1/10 Gbps SFP+ ports	6GK5328-4TS00-2AC2
SCALANCE XC332	32x 10/100/1000 Mbps RJ45 ports	6GK5332-0GA00-2AC2
SCALANCE XC324-EEC	24x 10/100/1000 Mbps RJ45, 4x 1/10 Gbps SFP+ ports, conformal coating	6GK5328-4TS00-2EC2
SCALANCE XCM324	16x 10/100/1000 Mbps RJ45, 3x 1/2.5/5/10 Gbps RJ45, 4x 1/10 Gbps SFP+ ports	6GK5324-8TS01-2AC2
SCALANCE XCM328	24x 10/100/1000 Mbps RJ45, 4x 1/10 Gbps SFP+ ports	6GK5328-4TS01-2AC2
SCALANCE XCM332	32x 10/100/1000 Mbps RJ45 ports	6GK5332-0GA01-2AC2
SCALANCE XCH328	24x 10/100/1000 Mbps RJ45, 4x 1/10 Gbps SFP+ ports, conformal coating	6GK5328-4TS01-2EC2
SCALANCE XR326-8	24x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 8x 1/10 Gbps SFP+, 24V DC	6GK5334-2TS00-2AR3
SCALANCE XR326-8	24x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 8x 1/10 Gbps SFP+, 230V AC	6GK5334-2TS00-3AR3
SCALANCE XR326-8	24x 100/1000 Mbps RJ45, 2x 100/1000/10000Mbit/s RJ45, 8x 1/10 Gbps SFP+, 2 x 230V AC	6GK5334-2TS00-4AR3
SCALANCE XR322-12	20x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 4x 1 Gbps SFP, 24V DC, 8x 1/10 Gbps SFP+	6GK5334-3TS00-2AR3
SCALANCE XR322-12	20x 100/1000 Mbps RJ45, 2x 100/1000/10000Mbit/s RJ45, 4x 1 Gbps SFP, 8x 1/10 Gbps SFP+, 230V AC	6GK5334-3TS00-3AR3
SCALANCE XR322-12	20x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 4x 1 Gbps SFP, 8x 1/10 Gbps SFP+, 2 x 230V AC	6GK5334-3TS00-4AR3
SCALANCE XR302-32	24x 100/1000 Mbit/s SFP, 8x 1000/10000Mbit/s SFP+, 2x 100/1000/10000Mbit/s RJ45, 2x 24V DC	6GK5334-5TS00-2AR3
SCALANCE XR302-32	24x 100/1000 Mbit/s SFP, 8x 1000/10000Mbit/s SFP+, 2x 100/1000/10000Mbit/s RJ45, 230V AC	6GK5334-5TS00-3AR3
SCALANCE XR302-32	24x 100/1000 Mbit/s SFP, 8x 1000/10000Mbit/s SFP+, 2x 100/1000/10000Mbit/s RJ45, 2x 230V AC	6GK5334-5TS00-4AR3
SCALANCE XR326-8EEC	24x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 8x 1/10 Gbps SFP+, 24V DC, Conformal Coating	6GK5334-2TS00-2ER3
SCALANCE XRM334	24x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 8x 1/10 Gbps SFP+, 24V DC	6GK5334-2TS01-2AR3
SCALANCE XRM334	24x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 8x 1/10 Gbps SFP+, 230V AC	6GK5334-2TS01-3AR3
SCALANCE XRM334	20x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 4x 1 Gbps SFP, 8x 1/10 Gbps SFP+, 24V DC	6GK5334-3TS01-2AR3
SCALANCE XRM334	20x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 4x 1 Gbps SFP, 8x 1/10 Gbps SFP+, 230V AC	6GK5334-3TS01-3AR3
SCALANCE XRM334	24x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 8x 1/10 Gbps SFP+, 230V AC	6GK5334-2TS01-4AR3
SCALANCE XRM334	20x 100/1000 Mbps RJ45, 2x 100/1000/10000 Mbps RJ45, 4x 1 Gbps SFP, 8x 1/10 Gbps SFP+, 2 x 230V AC	6GK5334-3TS01-4AR3



XC332

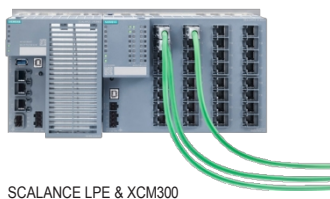
\*See SFP section for SFP fiber port options.

XC300: Rail type, Layer2, PROFINET(PN device, MRP, MRP-I, MRP-SSMR), EtherNet/IP, Red system HRP, SINEC NMS support, SNMP support)

XCM300: Rail type, Layer2, SINEC NMS support, SNMP support, NETCONF, LPE connection support, TSN, PRP / HSR and PROFINET (PN device, MRP, MRP-I, MRP-SSMR) with future firmware support

XR300: Rail type, Layer2, PROFINET (PN device, MRP, MRP-I, MRP-SSMR), EtherNet/IP, Red system HRP, SINEC NMS support, SNMP support XRM300: Rail type,

Layer2, SINEC NMS support, SNMP support, NETCONF, LPE connection support, TSN with future firmware support, PRP/HSR and PROFINET(PN device, MRP, MRP-I, MRP-SSMR)



SCALANCE LPE & XCM300



SCALANCE XRM300



# SIMATIC NET Communication Systems



Material Type	Order No	
<b>SCALANCE XM 400: Layer3 Modular and Managed Gigabit Industrial Ethernet / PROFINET Switches</b>		
SCALANCE XM408-8C	8 x RJ45 Gigabit (8 combo ports/SFP), total 24 ports with port expansion module, Layer3 with Key-Plug	6GK5408-8GS00-2AM2
SCALANCE XM408-8C	8 x RJ45 Gigabit (8 combo ports/SFP), total 24 ports with port expansion module, Layer3	6GK5408-8GR00-2AM2
SCALANCE XM416-4C	16 x RJ45 Gigabit (4 combo ports/SFP), total 24 ports with port expansion module, Layer3 with Key-Plug	6GK5416-4GS00-2AM2
SCALANCE XM416-4C	16 x RJ45 Gigabit (4 combo ports/SFP), total 24 ports with port expansion module, Layer3	6GK5416-4GR00-2AM2
PE408	8 x 10/100/1000 Mbit/s RJ45 port expansion module	6GK5408-0GA00-8AP2
PE400-8SFP	8 x SFP slot 100/1000 Mbit/s port expansion module	6GK5400-8AS00-8AP2
PE408- PoE	8 x 10/100/1000 Mbit/s RJ45 ports PoE (AT) expansion module with external power supply	6GK5408-0PA00-8AP2
KEY-PLUG XM-400	Layer 3 upgrade module (IP routing, Static routing, OSPF, VRRP)	6GK5904-0PA00
SCALANCE XC4168	Layer 3, 16 x 10/100/1000 Mbit/s RJ45, 8x 1/10 Gbit/s SFP+ ports	6GK5424-8TR00-2AC2
SCALANCE XC4244	Layer 3, 24x 10/100/1000 Mbit/s RJ45, 4x 1/10 Gbit/s SFP+ ports	6GK5428-4TR00-2AC2
SCALANCE XC432	Layer 3, 32x 10/100/1000 Mbit/s RJ45 ports	6GK5432-0GR00-2AC2
C-PLUG	Parameter recording, copy module, SCALANCE XC-200, XP-200, XM-400, XR-500, M-800, W-700, SC-600 and S615	6GK1900-0AB10

New

\*See SFP section for SFP fiber port options.



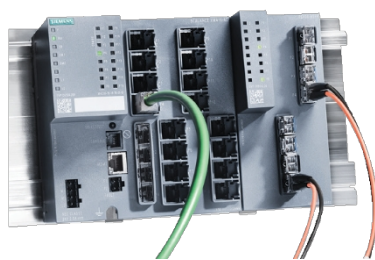
SCALANCE XC4168



SCALANCE XC4244



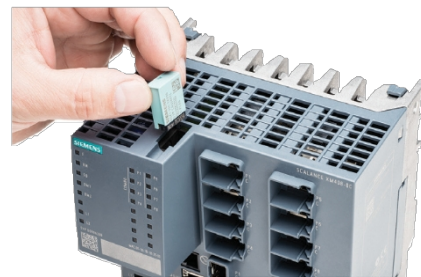
SCALANCE XC432



SCALANCE XM416-4C+  
PE400-8SFP



SCALANCE X408-4C



KEY PLUG

FO: Fiber Optic port    MM: Multi Mode (50/125µm, 62.5/125µm)    SM Single Mode (9/125µm, 10/125µm)  
- The maximum distance may vary depending on the type and cross-section of fiber cable selected.

# SIMATIC NET Communication Systems



Material Type		Order No
<b>SCALANCE X500: Layer 3 / Modular and Managed Gigabit Industrial Ethernet / PROFINET Switches</b>		
SCALANCE XR524-8C	L3, 24 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x24 VDC	6GK5524-8GR00-2AR2
SCALANCE XR524-8C	L3, 24 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 1x 110 - 240 VAC	6GK5524-8GR00-3AR2
SCALANCE XR524-8C	L3, 24 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 110 - 240 VAC	6GK5524-8GR00-4AR2
SCALANCE XR524-8C	L3 ops., 24 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x24 VDC	6GK5524-8GS00-2AR2
SCALANCE XR524-8C	L3 ops., 24 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 1x 110 -240 VAC	6GK5524-8GS00-3AR2
SCALANCE XR524-8C	L3 ops., 24 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 110 -240 VAC	6GK5524-8GS00-4AR2
SCALANCE XR526-8C	L3, 26 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 10 Gbit/S SFP+, 2x24 VDC	6GK5526-8GR00-2AR2
SCALANCE XR526-8C	L3, 26 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 10 Gbit/S SFP+, 1x 110 -240 VAC	6GK5526-8GR00-3AR2
SCALANCE XR526-8C	L3, 26 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 10 Gbit/S SFP+, 2x 110 -240 VAC	6GK5526-8GR00-4AR2
SCALANCE XR526-8C	L3 ops., 26 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 10 Gbit/S SFP+, 2x24 VDC	6GK5526-8GS00-2AR2
SCALANCE XR526-8C	L3 ops., 26 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 10 Gbit/S SFP+, 1x 110 -240 VAC	6GK5526-8GS00-3AR2
SCALANCE XR526-8C	L3 ops., 26 ports, 24x 10/100/1000 Mbit/s RJ45, 8x 100/1000 Mbit/s SFP Combo, 2x 10 Gbit/S SFP+, 2x 110 -240 VAC	6GK5526-8GS00-4AR2
SCALANCE XR528-6M	L3 ops. switch, 4 x 10 gigabit SFP, 6 x 4 ports, 1 gigabit MM, front cable	6GK5528-0AA00-2AR2
SCALANCE XR528-6M	L3 ops. switch, 4 x 10 gigabit SFP, 6 x 4 ports, 1 gigabit MM, rear cable	6GK5528-0AA00-2HR2
SCALANCE XR528-6M	L3 switch, 4 x 10 gigabit SFP, 6 x 4 ports, 1 gigabit MM, front cable	6GK5528-0AR00-2AR2
SCALANCE XR528-6M	L3 switch, 4 x 10 gigabit SFP, 6 x 4 ports, 1 gigabit MM, rear cable	6GK5528-0AR00-2HR2
SCALANCE XR552-12M	L3 ops. switch, 4 x 10 gigabit SFP, 12 x 4 ports, 1 gigabit MM, front cable	6GK5552-0AA00-2AR2
SCALANCE XR552-12M	L3 ops. switch, 4 x 10 gigabit SFP, 12 x 4 ports, 1 gigabit MM, rear cable	6GK5552-0AA00-2HR2
SCALANCE XR552-12M	L3 switch, 4 x 10 gigabit SFP, 12 x 4 ports, 1 gigabit MM, front cable	6GK5552-0AR00-2AR2
SCALANCE XR552-12M	L3 switch, 4 x 10 gigabit SFP, 12 x 4 ports, 1 gigabit MM, rear cable	6GK5552-0AR00-2HR2
FAN 597-1	Fan module set for SCALANCE XR552 switch	6GK5597-1AA00-8AA0
FAN 597-2	Fan module set for SCALANCE XR528 switch	6GK5597-2AA00-8AA0
PS 598-1	AC 85-264 V power supply for SCALANCE X500 switcher	6GK5598-1AA00-3AA0
MM 991-4	MM module, 4 x F0 100 Mbit ST port MM, max. 3 km	6GK5991-4AB00-8AA0
MM 991-4LD	MM module, 4 x F0 100 Mbit ST port SM, max. 26 km	6GK5991-4AC00-8AA0
MM 992-4	MM module, 4 x F0 1 gigabit SC port MM, max. 750 m	6GK5992-4AL00-8AA0
MM 992-4LD	MM module, 4 x F0 1 gigabit SC port SM, max. 10 km	6GK5992-4AM00-8AA0
MM 992-4CUC	MM module, 4 x RJ45 1 gigabit, with connector holder	6GK5992-4GA00-8AA0
MM 992-4CU	MM module, 4 x RJ45 1 gigabit, without connector holder	6GK5992-4SA00-8AA0
MM 992-4SFP	MM module, 4 x 100 Mbit / 1 gigabit SFP slots	6GK5992-4AS00-8AA0
SCALANCE XR526-8	Layer 3, 34 ports: 24 x 10/100/1000 Mbit/s RJ45, 2 x 1000/2500/5000/10000 Mbit/s RJ45, 8x 1/10 Gbit/s SFP+ ports, 2x 24 V DC	6GK5534-2TR00-2AR3
SCALANCE XR526-8	Layer 3, 34 ports: 24 x 10/100/1000 Mbit/s RJ45, 2 x 1000/2500/5000/10000 Mbit/s RJ45, 8x 1/10 Gbit/s SFP+ ports, 1x 230 V AC	6GK5534-2TR00-3AR3
SCALANCE XR526-8	Layer 3, 34 ports: 24 x 10/100/1000 Mbit/s RJ45, 2 x 1000/2500/5000/10000 Mbit/s RJ45, 8x 1/10 Gbit/s SFP+ ports, 2x 230 V AC	6GK5534-2TR00-4AR3
SCALANCE XR522-12	Layer 3, 34 ports: 16 x 10/100/1000 Mbit/s RJ45, 2 x 1000/2500/5000/10000 Mbit/s RJ45, 4 x 100/1000 Mbit/s SFP ports, 8 x 1/10 Gbit/s SFP+ ports, 2x 24 V DC	6GK5534-3TR00-2AR3
SCALANCE XR522-12	Layer 3, 34 ports: 16 x 10/100/1000 Mbit/s RJ45, 2 x 1000/2500/5000/10000 Mbit/s RJ45, 4 x 100/1000 Mbit/s SFP ports, 8 x 1/10 Gbit/s SFP+ ports, 1x 230 V	6GK5534-3TR00-3AR3
SCALANCE XR522-12	Layer 3, 34 ports: 16 x 10/100/1000 Mbit/s RJ45, 2 x 1000/2500/5000/10000 Mbit/s RJ45, 4 x 100/1000 Mbit/s SFP ports, 8 x 1/10 Gbit/s SFP+ ports, 2x 230 V	6GK5534-3TR00-4AR3
SCALANCE XR502-32	Layer 3, 34 ports: 2 x 1000/2500/5000/10000 Mbit/s RJ45, 24 x 100/1000 Mbit/s SFP ports, 8 x 1/10 Gbit/s SFP+ ports, 2x 24 V DC	6GK5534-5TR00-2AR3
SCALANCE XR502-32	Layer 3, 34 ports: 2 x 1000/2500/5000/10000 Mbit/s RJ45, 24 x 100/1000 Mbit/s SFP ports, 8 x 1/10 Gbit/s SFP+ ports, 1x 230 V	6GK5534-5TR00-3AR3
SCALANCE XR502-32	Layer 3, 34 ports: 2 x 1000/2500/5000/10000 Mbit/s RJ45, 24 x 100/1000 Mbit/s SFP ports, 8 x 1/10 Gbit/s SFP+ ports, 2x 230 V	6GK5534-5TR00-4AR3



XR524 - 8C



XR526 - 8C



XR526 - 8C



SCALANCE XR528-6M



SCALANCE XR552-12M



SCALANCE XR502-32



SCALANCE XR522-12



SCALANCE XR526-8

\*See SFP section for SFP fiber port options.

Combo ports are fiber ports when SFP is used and RJ45 copper ports when SFP is not used.

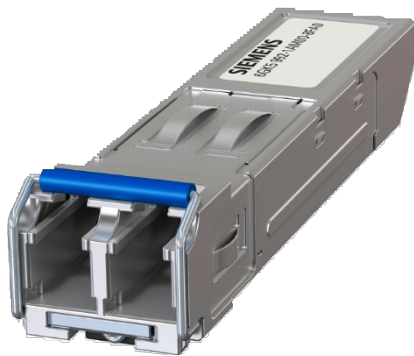
FO: Fiber Optic port MM: Multi Mode (50/125µm, 62.5/125µm) SM Single Mode (9/125µm, 10/125µm)

# SIMATIC NET Communication Systems



	Material Type	Order No
<b>SFP fiber modules for SCALANCE products</b>		
SFP991-1	1x 100 Mbps FO LC port, multimode glass, max. 5 km	6GK5991-1AD00-8AA0
SFP991-1LD	1x 100 Mbps FO LC port, single mode, cam, max. 26 km	6GK5991-1AF00-8AA0
SFP991-1LH+	1x 100 Mbps FO LC port, single mode, cam, max. 70 km	6GK5991-1AE00-8AA0
SFP991-1ELH200	1x 100Mbps FO LC port single mode, cam, max. 200 km	6GK5991-1AE30-8AA0
SFP992-1	1x 1000 Mbps FO LC port, multimode, glass, max. 400 m / 750 m	6GK5992-1AL00-8AA0
SFP992-1+	1x 1000 Mbps FO LC port, multimode, glass, max. 1 km / 2 km	6GK5992-1AG00-8AA0
SFP992-1LD	1x 1000 Mbps FO LC port, single-mode, glass, max. 10 km	6GK5992-1AM00-8AA0
SFP992-1LH	1x 1000 Mbps FO LC port, single-mode, glass, max. 40 km	6GK5992-1AN00-8AA0
SFP992-1LH+	1x 1000 Mbps FO LC port single-mode, glass, max. 70 km	6GK5992-1AP00-8AA0
SFP992-1ELH	1x 1000 Mbps FO LC port single-mode, cam, max.120 km	6GK5992-1AQ00-8AA0
SFP991-1A*	Active SFP, 1x 100 Mbps FO LC port, multimode glass, max. 5 km	6GK5991-1AD00-8GA0
SFP991-1LD A*	Active SFP, 1x 100 Mbps FO LC port, single mode, cam, max. 26 km	6GK5991-1AF00-8GA0
SFP992-1LD+	1x 1000 Mbps FO LC port, single-mode, glass, max. 30 km	6GK5992-1AM30-8AA0
SFP991-1 (10-pack)	1x 100 Mbps FO LC port, multimode glass, max. 5 km, 10-pack	6GK5991-1AD00-8AC0
SFP991-1LD (10-pack)	1x 100 Mbps FO LC port, single mode, cam, max. 26 km, 10 lu	6GK5991-1AF00-8AC0
SFP992-1 (10-pack)	1x 1000 Mbps FO LC port, multimode, glass, max. 400 m /750 m, 10 lu	6GK5992-1AL00-8AC0
SFP992-1LD (10-pack)	1x 1000 Mbps FO LC port, single-mode, glass, max. 10 km, 10 lu	6GK5992-1AM00-8AC0
SFP 993-1	1x 10 Gigabit FO LC port multimode, max. 300 m	6GK5993-1AT00-8AA0
SFP 993-1LD	1x 10 Gigabit FO LC port singlemode, max. 10 km	6GK5993-1AU00-8AA0
SFP993-1LH	1x 10 Gigabit FO LC port singlemode, max. 40 km	6GK5993-1AV00-8AA0

\*Active SFPs can only be used in switches that support gigabit SFP if 100 Mbit SFP is required (switches such as XC216-4C, XC224-4C, XR-300 WG)



# SIMATIC NET Communication Systems



Material Type	Order No
<b>SCALANCE W- Wireless Communication Products</b>	

## IP 30 IEEE 802.11 a/b/g/n Wireless Communication Products - 2.4 GHz / 5 GHz, 2x2 MIMO, -20 °+°

SCALANCE W774-1 RJ45	Access Module, 1 channel, 2x2 R-SMA, 2xRJ45, Metal Case	6GK5774-1FX00-0AA0
SCALANCE W734-1 RJ45	Client Module, 1 channel, 2x2 R-SMA, 2xRJ45, Metal Chassis, maximum 8 connections via RJ45 ports	6GK5734-1FX00-0AA0
SCALANCE W774-1 M12 EEC	Access Module, 1 channel, 2x2 R-SMA, 2xM12, Metal Case, EN 50155	6GK5774-1FY00-0TA0
IE FC M12 Plug PRO 2x2	M12 Profinet connector for Profinet connection	6GK1901-0DB20-6AA0
Power M12 Plug PRO	M12 power connection connector	6GK1907-0DB10-6AA3
KEY-PLUG W780	Access Module i-FEATURES activation module	6GK5907-8PA00
KEY-PLUG W740	Client Module i-FEATURES activation module	6GK5907-4PA00
C-PLUG	Access/Client parameter recording, copying module	6GK1900-0AB10
TI 795-1R	R-SMA termination part (3 pcs.)	6GK5795-1TR10-0AA6

This range can be installed on the S7 rail, fuse rail and panel mounting plate.

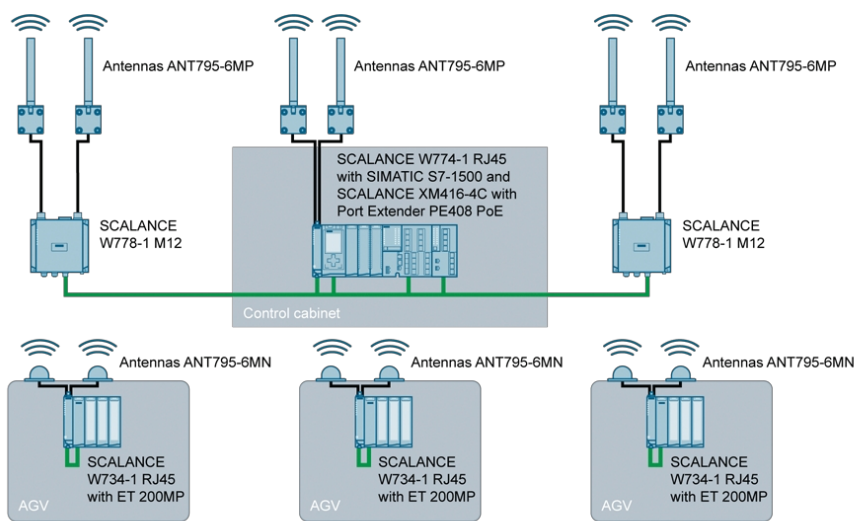
## IP 20 IEEE 802.11 a/b/g/n Wireless Communication Products - 2.4 GHz / 5 GHz, 0 °+°

SCALANCE W761-1 RJ45	Access Module, 1 channel, 1x R-SMA, 1xRJ45, Plastic Case	6GK5761-1FC00-0AA0
SCALANCE W722-1 RJ45	Client Module, 1 channel, 1x R-SMA, 1xRJ45, Plastic Case, maximum 4 connections via RJ45 ports, integrated i-FEATURES	6GK5722-1FC00-0AA0
SCALANCE W721-1 RJ45	Client Module, 1 channel, 1x R-SMA, 1xRJ45, Plastic Case, maximum 4 connections via RJ45 ports	6GK5721-1FC00-0AA0
TI 795-1R	R-SMA termination part (3 pcs.)	6GK5795-1TR10-0AA6

This product group can be installed on the fuse rail.

## IP 65 IEEE 802.11 a/b/g/n Wireless Communication Products - 2.4 GHz / 5 GHz

SCALANCE W778-1 M12	Access Module, 1 channel, 2xN-Connect, 2xM12 Profinet, -20 to 60 C operating temperature	6GK5778-1GY00-0AA0
SCALANCE W778-1 M12 EEC	Access Module, 1 channel, 2xN-Connect, 2xM12 Profinet, -30 to 70 C operating temperature	6GK5778-1GY00-0TA0
SCALANCE W738-1 M12	Client Module, 1 channel, 2xN-Connect, 2xM12 Profinet, -20 to 60 C operating temperature	6GK5738-1GY00-0AA0
W778/W738 Mounting Kit	90 degree rail mounting kit	6GK5798-8MA00-0AA1
W778/W738 Mounting Kit	Rail mounting kit	6GK5798-8MF00-0AA1
M12 IE FC Plug PRO	PROFINET M12 connector	6GK1901-0DB20-6AA0
TI795-1N	N-Connect termination part	6GK5795-1TN00-1AA0
M12 connector	IP 65 is required for the power connection of SCALANCE (3 pcs.)	6GK1907-0DC10-6AA3
KEY-PLUG W780	Access Module i-FEATURES activation module	6GK5907-8PA00
KEY-PLUG W740	Client Module i-FEATURES activation module	6GK5907-4PA00
C-PLUG	Access/Client parameter recording, copying module	6GK1900-0AB10



W774, W734



W774 M12 EEC



W761, W722, W721



IE M12 FC PLUG PRO



IE M12 FC PLUG PRO



W778/W738



W778/W738

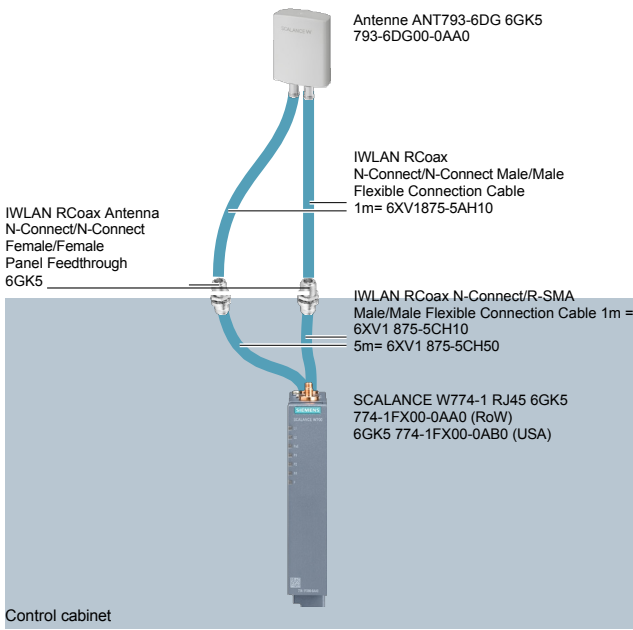


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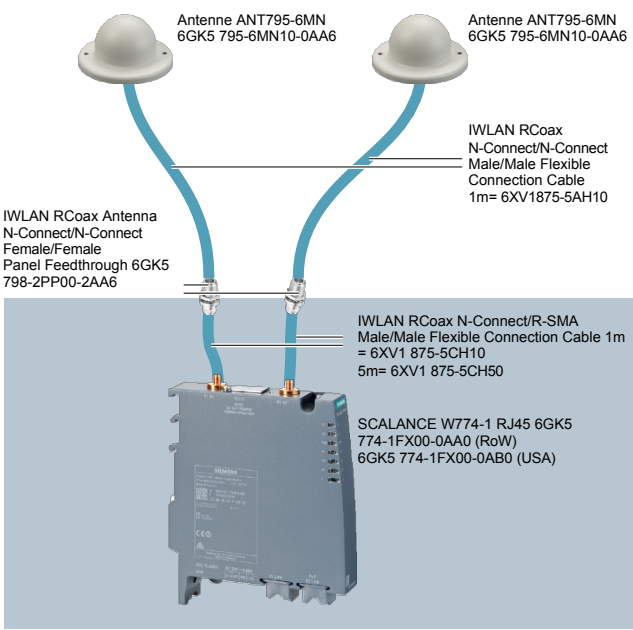
# SIMATIC NET Communication Systems



SCALANCE W774-1RJ45 with detached antenna (frontal)



SCALANCE W774-1RJ45 with detached antenna (lateral)



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IWLAN RCoax N-Connect Female N-Connector 6GK5 798-0CN00-0AA0

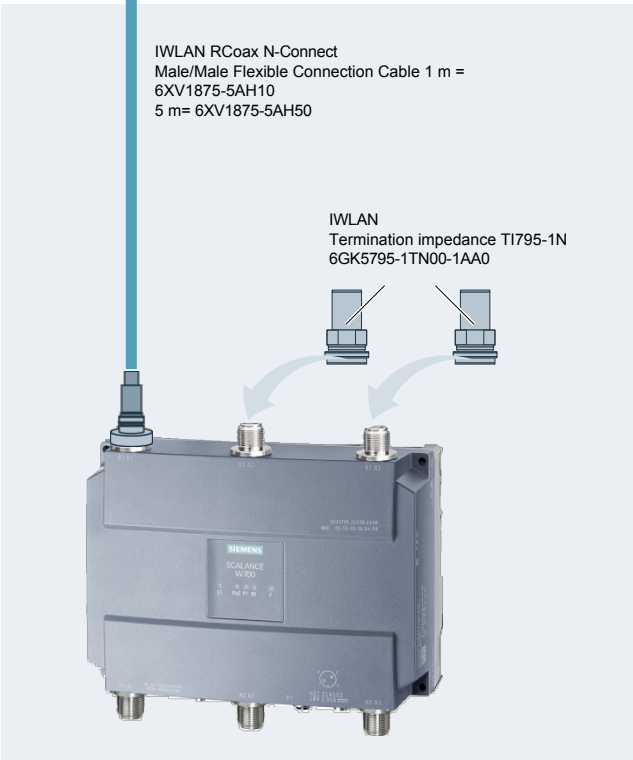
IWLAN RCoax Cable 2.4 GHz= 6XV1 875-2A 5 GHz = 6XV1 875-2D

IWLAN RCoax N-Connect Female N-Connector 6GK5 798-0CN00-0AA0

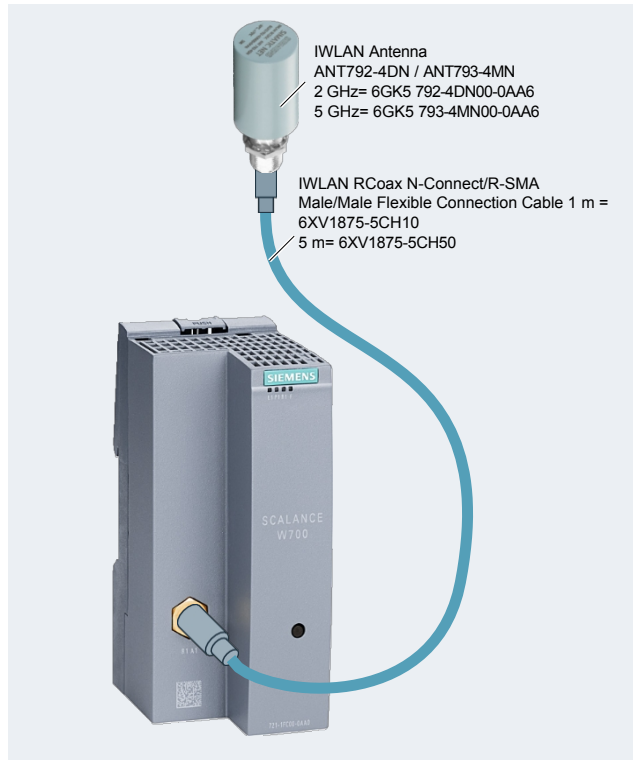
IWLAN RCoax N-Connect Male Termination Impedance 50 Ohm 6GK5 795-1TN00-1AA0



Access Point SCALANCE W788-1 M12



Client Module SCALANCE W722-1 RJ45



N\_IK10\_XX\_30344

# SIMATIC NET Communication Systems

Material Type		Order No
<b>SCALANCE W- Wireless Communication Products</b>		
<b>IP30 IEEE 802.11a/g/n/ac/ax Wifi 6 Wireless Communication Products - 2.4 GHz / 5 GHz, 2x2 MIMO, - 30° + °</b>		
SCALANCE WAM763-1	IP 30 Access module (1 channel), 2xR-SMA, gross 1201 Mbit/s IWLAN, 4x10/100/1000 Mbps RJ45 ports	6GK5763-1AL00-7DA0
SCALANCE WUM763-1	IP 30 Client module (1 channel), 2xR-SMA, gross 1201 Mbit/s IWLAN, 4x10/100/1000 Mbps RJ45 ports, system DI/DO	6GK5763-1AL00-3DA0
SCALANCE WUM763-1	IP 30 Client module (1 channel), 2xR-SMA, gross 1201 Mbit/s IWLAN, 4x10/100/1000 Mbps RJ45 ports	6GK5763-1AL00-3AA0
Since Scalance Wifi 6 products support Gigabit, it is to use IE FC RJ45 Plug 180 4x2 connectors.		
<b>IP65 IEEE 802.11a/g/n/ac/ax Wifi 6 Wireless Communication Products - 2.4 GHz / 5 GHz, 2x2 MIMO, - 30° + °</b>		
SCALANCE WAM766-1 M12	IP 65 Access module (1 channel), 2xNCon, gross 1201 Mbit/s IWLAN, 1x M12 X-Coded max. 1 Gbit/s	6GK5766-1GE00-7DA0
SCALANCE WAM766-1 M12 EEC	IP 65 Access module (1 channel), 2xNCon, gross 1201 Mbit/s IWLAN, 1x M12 X-Coded max. 1 Gbit/s -30..+75 °C, conformal coating	6GK5766-1GE00-7TA0
SCALANCE WUM766-1	IP 65 Client module (1 channel), 2xNCon, gross 1201 Mbit/s IWLAN, 1x M12 X-Coded max. 1 Gbit/s	6GK5766-1GE00-3DA0
Mounting kit	DIN rail mounting kit	6GK5798-8MF00-0AA1
M12 connector	Power M12 Cable Connector PRO (L-coded) is required for power connection	6GK1906-0EB00
IE FC M12 Plug PRO 4 x 2	M12 X-Coded Profinet connector for Profinet connection	6GK1901-0DB50-6AA0
IE FC M12 Plug PRO 4 x 2	M12 X-Coded Profinet connector for Profinet connection, 8 pcs	6GK1901-0DB50-6AA8
IE FC RJ45 Plug 180	Industrial ethernet RJ45 connector 1 Gbit/ 10 Gbit, 4 x 2, 180 degrees, 1 piece	6GK1 901-1BB12-2AA0
IE FC RJ45 Plug 180	Industrial ethernet RJ45 connector 1 Gbit/ 10 Gbit, 4 x 2, 180 degrees, 10 pieces	6GK1 901-1BB12-2AB0
IE FC TP Standard Cable GP 4x2	Industrial Ethernet standard 4 x 2 cable, min. 20 m, max. 1000 m	6XV1878-2A
IE FC TP Flexible Cable GP 4x2	Industrial Ethernet standard 4 x 2 cable, min. 20 m, max. 1000 m	6XV1878-2B
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 0.5 m	6XV1878-5TE50
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 1 m	6XV1878-5TH10
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 1.5 m	6XV1878-5TH15
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 2 m	6XV1878-5TH20
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 3 m	6XV1878-5TH30
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 5 m	6XV1878-5TH50
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 10 m	6XV1878-5TN10
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 15 m	6XV1878-5TN15
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 30 m	6XV1878-5TN30
IE TP Cord M12-180/RJ45-180	4x2 M12/M12 Profinet cable 50 m	6XV1878-5TN50
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 0.3 m	6XV1878-5HE30
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 0.5 m	6XV1878-5HE50
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 1 m	6XV1878-5HH10
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 1.5 m	6XV1878-5HH15
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 2 m	6XV1878-5HH20
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 3 m	6XV1878-5HH30
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 5 m	6XV1878-5HH50
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 10 m	6XV1878-5HN10
IE TP CORD M12/M12	4x2 M12/M12 Profinet cable 15 m	6XV1878-5HN15

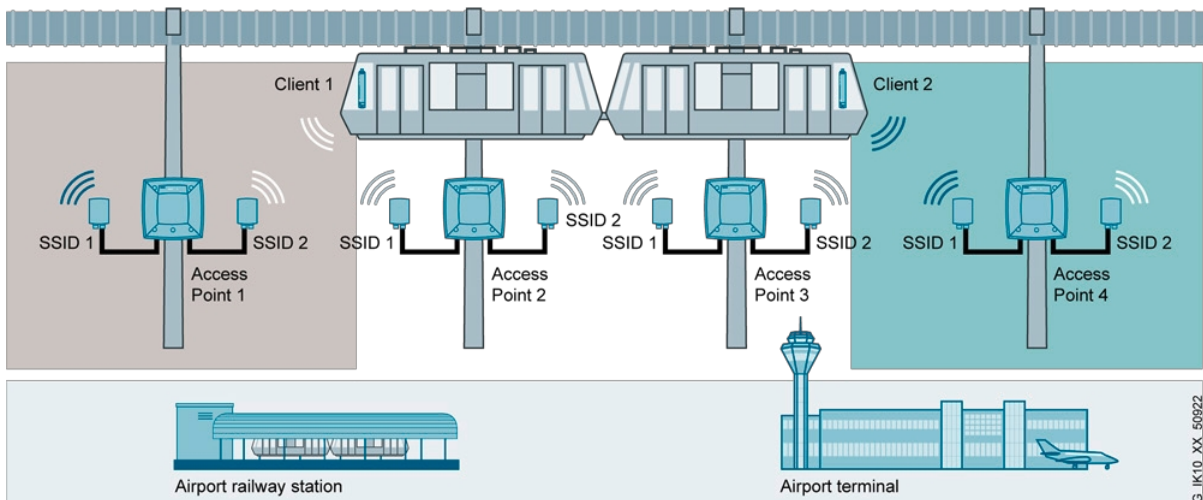
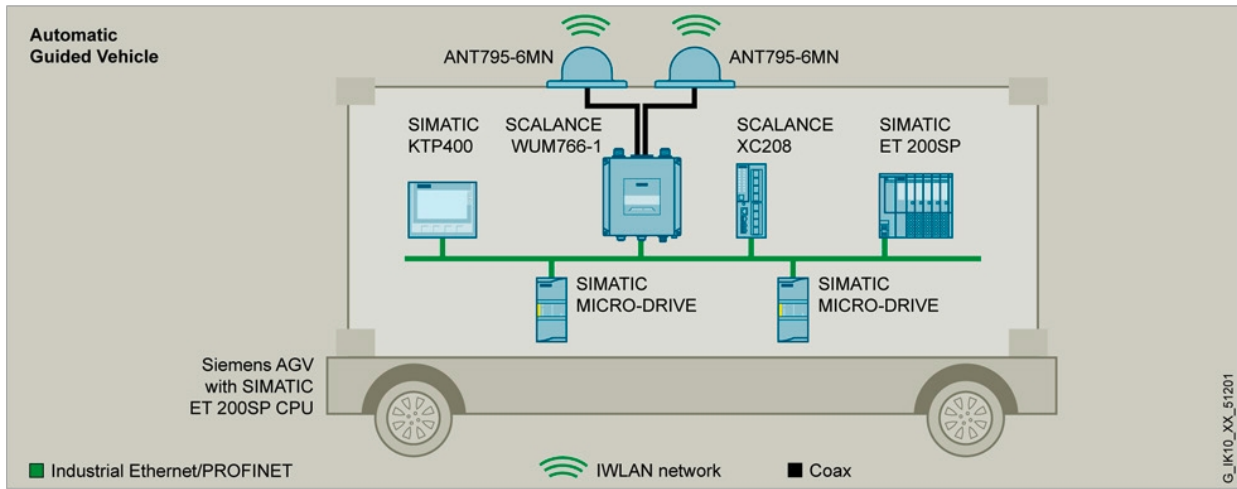
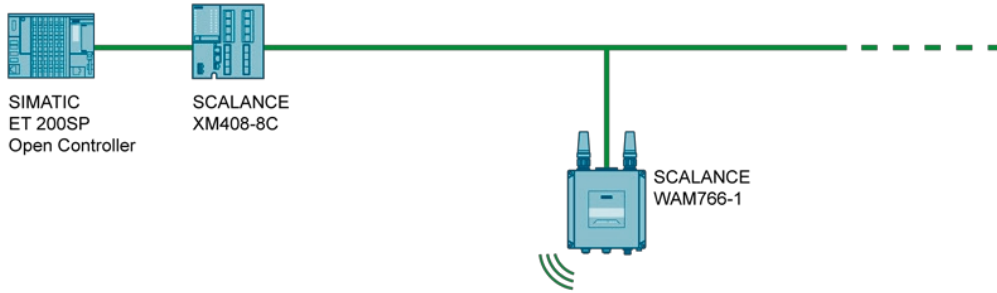


SCALANCE WAM & WUM 763






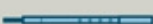





SCALANCE WAM & WUM 766

# SIMATIC NET Communication Systems



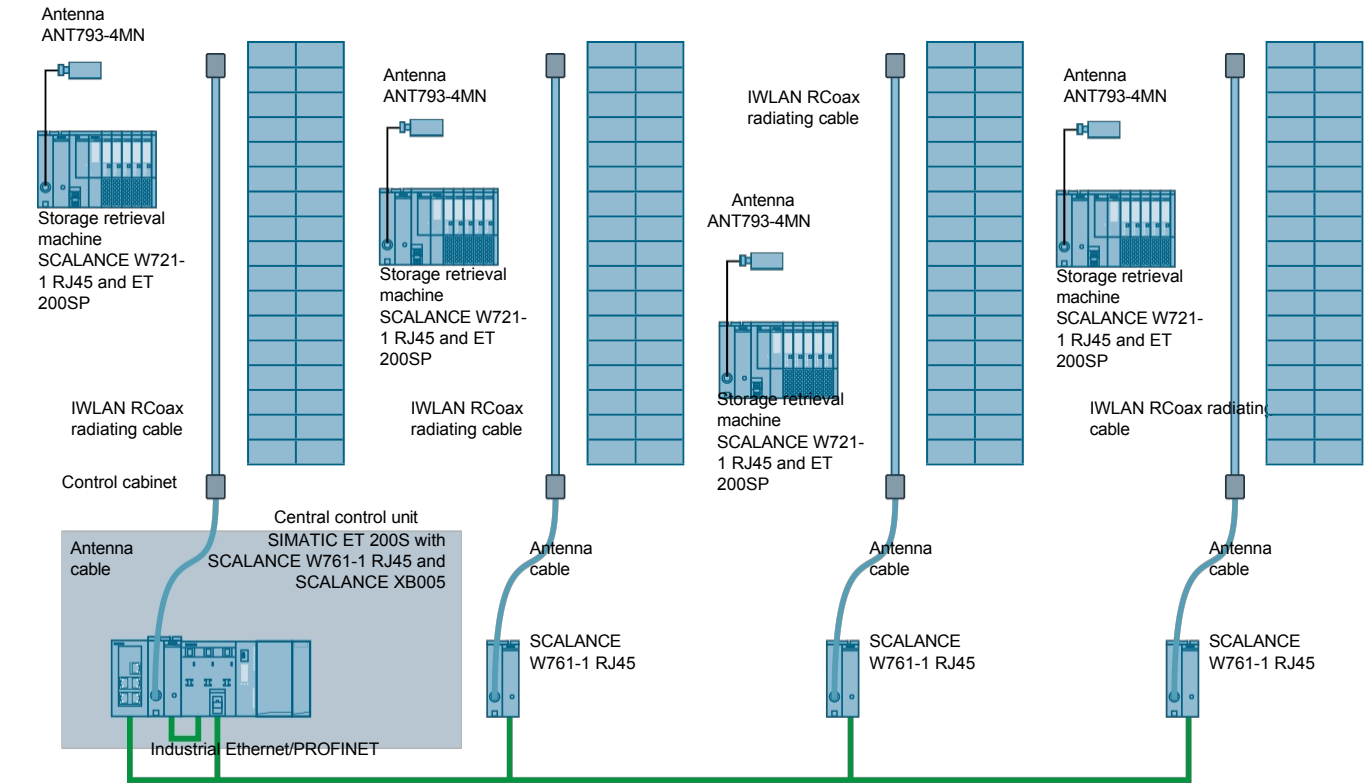
# SCALANCE W Wireless Communication Products Antenna Compatibility Table

Type of antenna	Frequency range (GHz)	Antennas	SCALANCE W780/W740	SCALANCE W760/W720, W770/W730	SCALANCE W770/W730 IP65	SCALANCE W1780/W1740	SCALANCE WAM766-1/WUM766-1	SCALANCE WAM763-1/WUM763-1
directional	2.4	 ANT792-8DN	●			●	●	●
	5	 ANT793-8DP	●	●	●	●*	●	●
		 ANT793-8DJ	●	●	●	●*	●	●
		 ANT793-8DK	●	●	●	●*	●	●
		 ANT793-8DL	●	●	●	●*	●	●
RCoax	2.4	 RCoax radiating cables 2.4 GHz	●	●	●	●	●	●
		 ANT792-4DN	●	●	●	●	●	●
	5	 RCoax radiating cables 5 GHz	●	●	●	●	●	●
		 ANT793-4MN	●	●	●	●	●	●

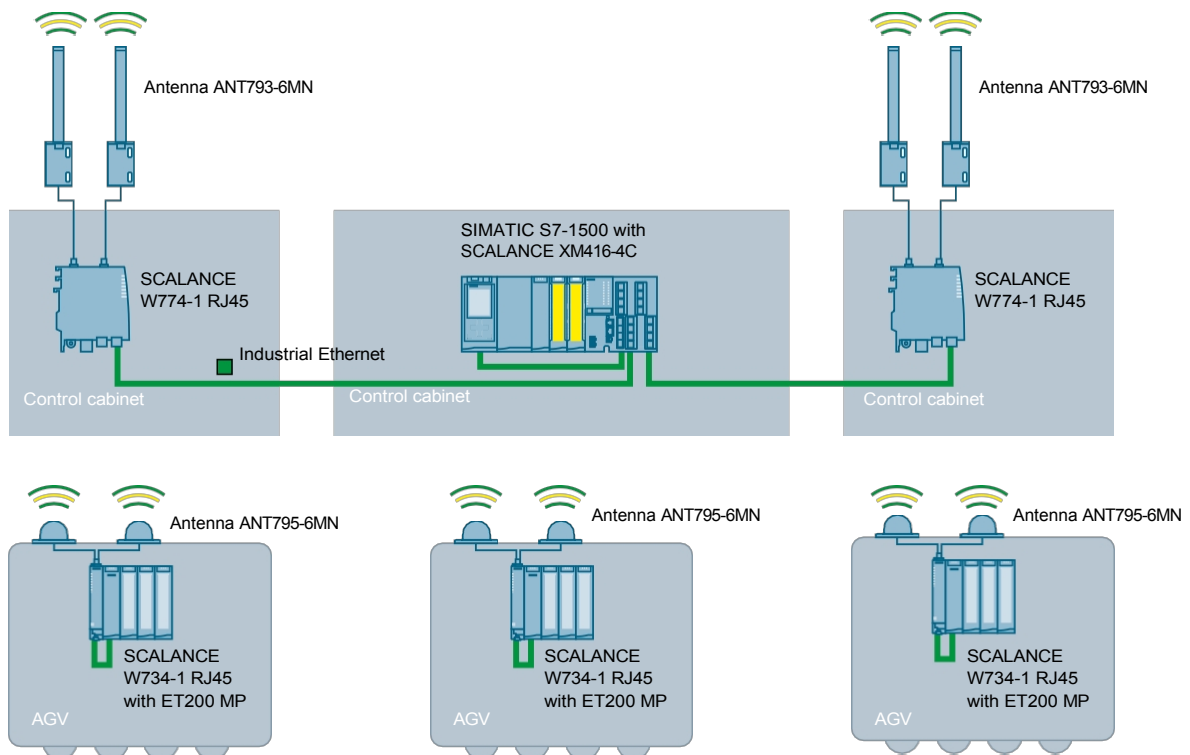
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\*Antennas can only be used on one antenna connector per radio interface (R1A1 or R2A1) and the rest of the antenna connectors have to be fitted with a terminating resistor.

# SIMATIC NET Scalance W Wireless Communication Systems



Rcoax wireless communication system example



Failsafe wireless communication example

# SIMATIC NET Communication Systems



Material Type		Order No
<b>SCALANCE W: Wireless Communication Antenna Products</b>		
ANT795-6MP	1xN connect, 2.4 GHz, 5dBi, H:360, V:25, 5GHz: 7dBi, H:360, V:15	6GK5795-6MP00-0AA0
ANT795-6MN	1xN connect, 2.4 GHz, 6dBi, H:360, 5GHz: 8dBi, H:150	6GK5795-6MN10-0AA6
ANT792-6MN	1xN connect, 2.4 GHz, 6dBi, H:360, V:30	6GK5792-6MN00-0AA6
ANT792-8DN	1xN connect, 2.4 GHz, 14dBi, H:35, V:30	6GK5792-8DN00-0AA6
ANT792-4DN	1xN connect, antenna for RCoax cable line 2.4 GHz	6GK5792-4DN00-0AA6
ANT793-4MN	1xN connect, antenna for RCoax cable line 5 GHz	6GK5793-4MN00-0AA6
ANT795-4MA	1xR-SMA connect, internal antenna, 2.4GHz, 3dBi, H:360, 5GHz: 5dBi, H:360	6GK5795-4MA00-0AA3
ANT795-4MC	1xN connect, internal antenna, 2.4GHz, 3dBi, H:360, 5GHz: 5dBi, H:360	6GK5795-4MC00-0AA3
ANT795-4MD	1xN connect, internal antenna 90° mount, 2.4 GHz, 3dBi, H:360, 5GHz: 5dBi, H:360	6GK5795-4MD00-0AA3
ANT795-6DC	1xN connect, 2.4 GHz, 9dBi, H:75, V:55, 5GHz: 9dBi, H:55, V:55	6GK5795-6DC00-0AA0
ANT793-8DP	1xN connect, 5 GHz, 13.5dBi, H:40, V:35	6GK5793-8DP00-0AA0
ANT793-6DG	2xN connect, 5 GHz, 9dBi, H:70, V:60	6GK5793-6DG00-0AA0
ANT793-8DJ	2xN connect, 5 GHz, 18dBi, H:17, V:17	6GK5793-8DJ00-0AA0
ANT793-8DK	2xN connect, 5 GHz, 23dBi, H:9, V:9	6GK5793-8DK00-0AA0
ANT793-8DL	2xN connect, 5 GHz, 14dBi, H:30, V:30	6GK5793-8DL00-0AA0
ANT795-6MT	3xQMA connect, 2.4 GHz, 5dBi, H:360, 5GHz: 7dBi, H:360	6GK5795-6MT00-0AA0
ANT795-4MX	1xN connect, internal antenna, 2.4 GHz, 2dBi, H:360, 5GHz: 2.5dBi, H:360	6GK5795-4MX00-0AA0
ANT793-8DQ	1xN connect, 5.7-5.85 GHz, 15dBi, H:28	6GK5793-8DQ00-0AA0

H: Horizontal angle, V: Vertical angle

Antenna Cables		
ANT cable	Antenna Cable 1m, QMA/N male/female (3 pcs)	6XV1875-5JH10
ANT cable	Antenna Cable 0.3 m, N-Connect/R-SMA male/male	6XV1875-5CE30
ANT cable	Antenna Cable 1m, N-Connect/R-SMA male/male	6XV1875-5CH10
ANT cable	Antenna Cable 2m, N-Connect/R-SMA male/male	6XV1875-5CH20
ANT cable	Antenna Cable 5m, N-Connect/R-SMA male/male	6XV1875-5CH50
ANT cable	Antenna Cable 10m, N-Connect/R-SMA male/male	6XV1875-5CN10
ANT cable	Antenna cable 1m, N-Connect/N-Connect male/male	6XV1875-5AH10
ANT cable	Antenna cable 2m, N-Connect/N-Connect male/male	6XV1875-5AH20
ANT cable	Antenna cable 5m, N-Connect/N-Connect male/male	6XV1875-5AH50
ANT cable	Antenna cable 10m, N-Connect/N-Connect male/male	6XV1875-5AN10
LP798-2N	SCALANCE W lightning protection part N/N, F/F	6GK5798-2LP10-2AA6

Rcoax Cable and Accessories		
RCoax cable	RCoax antenna 2.4 GHz (min. 20 m max:200m)	6XV1875-2A
RCoax cable	RCoax antenna 5 GHz (min. 20 m max:200m)	6XV1875-2D
RCoax tool	RCoax cable stripping tool	6GK1901-1PH00
RCoax coupler	RCoax N-Connect male/male coupler	6GK5798-0CP00-1AA0
RCoax clip	RCoax antenna cable fastener clip 10pcs	6GK5798-8MB00-0AC1
RCoax clip	RCoax antenna cable fastener clip 100pcs	6GK5798-8MB00-0AM1
RCoax spacer	85 mm anchor foot for RCoax antenna cable 10 pcs	6GK5798-8MD00-0AC1
RCoax spacer	85 mm anchor foot for RCoax antenna cable 100 pcs	6GK5798-8MD00-0AM1
RCoax Con	IWLAN RCoax N-Connect Female N-Connector	6GK5798-0CN00-0AA0
RCoax Term	IWLAN RCoax N-Connect Male termination	6GK5795-1TN00-1AA0
Splitter	Y-connector for antennas, N-Connect female	6GK5798-0SN00-0EA0
Attenuator	10dB, N-Connect male/female	6GK5798-0AP00-4CA0

\* For antenna device compatibility, refer to the table on the Antenna Device selection page.



ANT795-6MN



ANT795-6MP



ANT792-8DN



ANT793-8DQ



ANT793-8DL



ANT793-6DG



ANT795-4MX



# SIMATIC Programming Devices



IPC MD-57A

Material Type	Order No	
<b>SIMATIC IPC MD-57A</b>		
Intel® Core i7-12800HE processor (20 threads, 24 MB cache, up to 4.60 GHz) 15.6" Display, Full HD (1920 x 1080) Wi-Fi 6E Bluetooth V5.3 Intel® Iris® Xe graphics eligible 64 GB DDR5 SDRAM SO-DIMM Built-in 2 TB M.2 NVMe, Extra 2 TB NVMe SSD Slider Power cord AC, Europe keyboard: QWERTY Windows 11 IoT Enterprise (22H2) 64-bit and recovery USB STEP 7 Prof. Combo (V20 & SIMATIC Manager V5.7), WinCC Adv. (V20), Safety Adv. Combo (V20 & distrib. V5.4 SP5)	6ES7730-1AC26-3BC0	
Intel® Core i7-12800HE processor (20 threads, 24 MB cache, up to 4.60 GHz) 15.6" Screen, Full HD (1920 x 1080); Wi-Fi 6E Bluetooth V5.3 Intel® Iris® Xe graphics eligible 32 GB DDR5 SDRAM SO-DIMM Built-in 2 TB M.2 NVME Power cord AC, Europe keyboard: QWERTY Windows 11 Enterprise (22H2) 64-Bit STEP 7 Prof. Combo (V20 & SIMATIC Manager V5.7), WinCC Adv. (V20), Safety Adv. Combo (V20 & distrib. V5.4 SP5)	6ES7730-1AB26-0AC0	
Intel® Core i7-12800HE processor (20 threads, 24 MB cache, up to 4.60 GHz) 15.6" Screen, Full HD (1920 x 1080); Wi-Fi 6E Bluetooth V5.3 Intel® Iris® Xe graphics eligible 32 GB DDR5 SDRAM SO-DIMM Internal 512 GB M.2 NVME Power cord AC, Europe keyboard: QWERTY Windows 11 Enterprise (22H2) 64-Bit STEP 7 Prof. (V20), WinCC Adv. (V20), Safety Adv. (V20)	6ES7730-1AB06-0AB0	
Intel® Core i5 -12600HE processor (16 threads, 18M cache, up to 4.50 GHz) 15.6" Screen, Full HD (1920 x 1080); Wi-Fi 6E Bluetooth V5.3 Intel® Iris® Xe graphics eligible 16GB DDR4 SDRAM SO-DIMM; Internal 512 GB M.2 NVME Power cord AC, Europe keyboard: QWERTY Without operating system (FreeDOS); STEP 7 Prof. (V20), WinCC Adv. (V20), Safety Adv. (V20)	6ES7730-0AA06-0NB0	

# SIMATIC Programming Devices



Material Type	Order No	
<b>Accessories</b>		
IPC MD-57A backpack (IPC MD-57A, Field PG M6/M5/M4)	6ES7798-0DA02-0XA0	
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	
SIMATIC IPC Slider M.2 SSD for IPC MD-57A, IPC BX-39A and IPC PX-39An	6ES7648-0EK00-0GA1	
Li-ion battery 8.25 Ah for Field PG M6/M5/M4	6ES7798-0AA10-0XA0	
Li-ion battery 7.8 Ah for IPC MD57-A	6ES7798-0AA11-0XA0	
Power Cord AC Plug for Europe Field PG M6/M5/M4/M4/M2	6ES7900-5AA00-0XA0	
Power Cord AC Plug UK Field PG for M6/M5/M4/M4/M2	6ES7900-5AA00-0XA0	
Power Cord AC Plug CH Field PG for M6/M5/M4/M4/M2	6ES7900-5CA00-0XA0	
Power Cord AC Plug USA Field PG for M6/M5/M4/M4/M2	6ES7900-5DA00-0XA0	
Power Cord AC Plug Italy Field PG for M6/M5/M4/M4/M2	6ES7900-5EA00-0XA0	
MPI Cable - Field PG/IPC for MD-57A	6ES7901-0BF00-0AA0	
SIMATIC IPC Image & Partition Creator V3.6	6ES7648-6AA13-6YA0	



IPC MD-57A

\*In accordance with the new legal obligation, the deposit values of the batteries sold also be stated on the invoice. For price information, please contact Siemens Partners.

# SIMATIC Industrial Computers and Monitors



SIMATIC IPC MD-34A



Hand Hanger Accessory



DESK DOCK

Material Type	Order No	
<b>SIMATIC Industrial Tablet PC MD-34A</b>		
<b>SIMATIC Tablet PC Entry</b> 10.1" multi-touch, Type-C PD, 256 GB SSD, 8 GB RAM Intel Core i5-11th; Windows 10 IoT Enterprise LTSC 21H2; resolution: 1280x800 pixels; brightness: 350 cd/m2; Wi-Fi, 3,500 mAh with Bluetooth. The battery power cable must be selected.	6AV7880-4AA01-0AA2	
<b>SIMATIC Tablet PC Entry Plus</b> 10.1" multi-touch, Type-C PD, 256 GB SSD, 8 GB RAM Intel Core i5-11th; Windows 10 IoT Enterprise LTSC 21H2; resolution: 1280x800 pixels; brightness: 350 cd/m2 Wi-Fi, Bluetooth, 1D/2D barcode reader, 4G/LTE module with 3,500 mAh battery, battery power cable must be selected.	6AV7880-4BA01-0AA2	
<b>SIMATIC Tablet PC High End</b> 10.1" multi-touch, Type-C PD, 512 GB SSD, 32 GB RAM Intel Core i5-11th; Windows 10 IoT Enterprise LTSC 21H2; resolution: 1920x1200 pixels; brightness: 800 cd/m2 Wi-Fi, Bluetooth, 1D/2D barcode reader, HF RFID reader included, global 4G/LTE module, built-in GPS and GLONASS 3,500 with mAh battery. The battery power cable must be selected.	6AV7880-4CB01-1AA2	
<b>SIMATIC Tablet PC Automation</b> 10.1" multi-touch, Type-C PD, 256 GB SSD, 16 GB RAM; Intel Core i5-11th; Windows 10 IoT Enterprise LTSC 21H2; resolution: 1280x800 pixels Brightness: 350 cd/m2 Wi-Fi, Bluetooth HF RFID reader With 3,500 mAh battery. Battery power cable must be selected.	6AV7880-4DB01-1AA2	
<b>SIMATIC Tablet PC Outdoor</b> 10.1" multi-touch; Type-C PD, 256 GB SSD, 8 GB RAM Intel Core i5-11th; Windows 10 IoT Enterprise LTSC 21H2; resolution: 1920x1200 pixels; brightness: 800 cd/m2 Wi-Fi, Bluetooth, global 4G/LTE; built-in GPS and GLONASS with 3,500 mAh battery. The battery power cable must be selected.	6AV7880-4EB01-1AA2	
<b>SIMATIC IPC MD-34A-Desk Docking accessory</b> MD-34A all configurations 1 LAN 10/100 Mbps, 2x USB 2.0, 1x RS-232, 1x RS-232, 1* VGA, 2* USB2.0 power cable with 19 V DC input side must be selected	6AV7676-1AC00-0AA0	
<b>SIMATIC IPC MD-34A-Vehicle Docking accessory</b> MD-34A all configurations 1 LAN 10/100 Mbps, 2x USB 2.0 1x RS-232, 1* VGA, 9-36 V DC input side 2* USB2.0 power cable must be selected	6AV7676-1AC10-0AA0	
<b>SIMATIC IPC MD-34A-Battery Charger accessory</b> 2-bay battery charger battery charger, 2-bay MD-34A, battery charger power cable must be selected	6AV7676-3AC00-0AA0	
<b>SIMATIC IPC MD-34A-Battery Pack accessory</b> battery kit lithium ion batteries approx. 3500 mAh, including mounting accessories, 6 months warranty	6AV7676-3AC10-0AA0	
<b>SIMATIC IPC MD-34A-Shoulder Strap accessory</b>	6AV7676-4AC00-0AA0	
<b>SIMATIC IPC MD-34A-Hand Strap accessory</b> MD-34A hand tie-down sling in all configurations	6AV7676-4AC10-0AA0	

## SIMATIC IPC MD-34A General Specifications:

Features	Entry	Entry plus	High-End	Automation	Outdoor
RAM	8 GB	8 GB	32 GB	16 GB	16 GB
Storage	SSD 256 GB	SSD 256 GB	SSD 512 GB	SSD 256 GB	SSD 512 GB
Display	WXGA 1280*800 350 nits	WXGA 1280*800 350 nits	WUXGA 1920*1200 800 nits	WXGA 1280*800 350 nits	WUXGA 1920*1200 800 nits
GPS	No	No	Yes	No	Yes
Network	No	4G LTE	4G LTE	No	4GLTE
Barcode Scanner	No	Yes	Yes	No	No
HF RFID	No	No	Yes	Yes	No

### Power Cables

6ES7900-5AA00-0XA0	Power Cable 3m (DE/FR/SP/NE/BE/SW/AU/FL)
6ES7900-5BA00-0XA0	Power Cable 3m (GB)
6ES7900-5CA00-0XA0	Power Cable 3m (Switzerland)
6ES7900-5DA00-0XA0	Power Cord 3m (USA)
6ES7900-5EA00-0XA0	Power Cable 3m (Italy)
6ES7900-5FA00-0XA0	Power Cable 3m (China)
6ES7900-5GA00-0XA0	Power Cable 3m(India)

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC377G</b>		
<b>SIMATIC IPC377G</b>	<b>6AV7 2 31 - 0 C C C 2 1 - 0 A A A 0</b>	
12" Touch(1280 x800) Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio 4GB RAM, 4USB+2CCOM, OS not available Driver not available, Reserve		
<b>Screen</b>		
12" Touch(1280 x800)	X	C
15" Touch(1366 x768)		D
19" Touch(1366 x768)		E
22" Touch(1920 x1080)		F
<b>Processor</b>		
Intel Atomx6413E Processor (up to 3.0 GHz)		A
Intel Atomx6413E Processor (up to 3.0 GHz)/TPM		B
Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio	X	C
Intel Atomx6413E Processor (up to 3.0 GHz)/TPM/w/o Audio		D
<b>RAM</b>		
4 GB RAM	X	2
8 GB RAM		3
16 GB RAM		4
<b>Hardware</b>		
4USB+2CCOM	X	1
With 4USB+4COM pin header		2
<b>Operating system</b>		
Without operating system	X	0
Windows 10 Enterprise LTSC 2019, 64Bit, MUI (De, En, Fr, It, Sp)		2
<b>Driver</b>		
Driverless	X	A
256 GB SSD		B
512 GB SSD		C



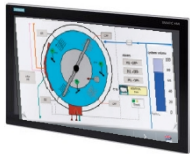
SIMATIC IPC377G

## \*Preferable configurations from stock:

12" Touch (1280x800) Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA): without mass storage Main Memory: 4 GB DRAM (1x 4 GB); No Operating System;	6AV7231-0CC21-0AA0	
12" Touch (1280x800) Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA): 256G SSD Main Memory: 4 GB DRAM (1x 4 GB); Windows 10 Enterprise LTSC 2019, 64Bit, MUI (De, En, Fr, It, Sp)	6AV7231-0CC21-2BA0	
15" Touch (1366x768) Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA):without mass storage Main Memory: 4 GB DRAM (1x 4 GB); No Operating System;	6AV7231-0DC21-0AA0	
15" Touch (1366x768) Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA):256G SSD Main Memory: 4 GB DRAM (1x 4 GB); Windows 10 Enterprise LTSC 2019, 64Bit, MUI (De, En, Fr, It, Sp)	6AV7231-0DC21-2BA0	
19" Touch (1366x768) Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA):256G SSD Main Memory: 4 GB DRAM (1x 4 GB); Windows 10 Enterprise LTSC 2019, 64Bit, MUI (De, En, Fr, It, Sp)	6AV7231-0EC21-2BA0	

\* It is kept in Siemens Germany stocks.

# SIMATIC Industrial Computers and Monitors



SIMATIC IPC277G

Material Type	Order No	
<b>SIMATIC IPC277G (Nanopanel PC)</b>		
SIMATIC IPC 277G, Nanopanel PC	6AV7 8 8 8 6 - 0 A A A 1 1 - 1 A A A 0	
7" Multitouch (800 x 480) Atom X6211E (2-Core) 4 GB RAM COM Not available, Driver not available Hardware plugin not available OS not available <b>Screen</b>		
7" Multitouch (800 x 480)	X	A
10" Multitouch (1280 x 800)		B
12" Multitouch (1280 x 800)		C
15" Multitouch (1920 x 1080)		D
19" Multitouch (1920 x 1080)		E
22" Multitouch (1920 x 1080)		F
24" Multitouch (1920 x 1080)		G
7" Multitouch (800 x 480) ATEX/IECEX/UL HazLoc		H
10" Multitouch (1280 x 800) ATEX/IECEX/UL HazLoc		J
12" Multitouch (1280 x 800) ATEX/IECEX/UL HazLoc		K
15" Multitouch (1920 x 1080) ATEX/IECEX/UL HazLoc		L
19" Multitouch (1920 x 1080) ATEX/IECEX/UL HazLoc		M
22" Multitouch (1920 x 1080) ATEX/IECEX/UL HazLoc		N
24" Multitouch (1920 x 1080) (ATEX/IECEX/UL HazLoc		P
7" Multitouch Neutral (800 x 480)		Q
10" Multitouch Neutral (1280 x 800)		R
12" Multitouch Neutral (1280 x 800)		S
15" Multitouch Neutral (1920 x 1080)		T
19" Multitouch Neutral (1920 x 1080)		U
22" Multitouch Neutral (1920 x 1080)		V
24" Multitouch Neutral (1920 x 1080)		W
<b>Processor / TPM</b>		
Atom X6211E (2-Core)	X	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
<b>RAM</b>		
4 GB RAM	X	1
8 GB RAM		2
16 GB RAM		3
<b>Hardware</b>		
COM Not available	X	1
1x COM		2
2x COM		3
Slim body - COM not available		4
<b>Driver</b>		
Driver not available	X	1
256 GB Eco SSD		2
240 GB SSD		3
480 GB SSD		4
<b>Hardware Plugin</b>		
Hardware plugin not available	X	A
NVRAM		B
<b>Operating System</b>		
No operating system available	X	A
Windows 10 IoT Enterprise 2019 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It)		B
Windows 10 IoT Enterprise 2021 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It)		C

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC277G PRO Nanopanel PC</b>		
<b>SIMATIC IPC227G PRO, Nanopanel PC</b>	<b>6AV7886-1 A A A 1 1-1 A A A 0</b>	
12" Atom X6211E (2-Core) for Multitouch (1280 x 800) support arm (non-expandable, flange above)		
4 GB RAM		
COM Not available Driver not available		
Hardware plugin not available OS not available		
<b>Screen</b>		
12" Multitouch (1280 x 800) for support arm (non-expandable, flange above)	X	A
12" Multitouch (1280 x 800) for pedestal mounting (expandable, flange at bottom)		B
12" Multitouch (1280 x 800) for support arm (expandable, round tube)		C
15" Multitouch (1920 x 1080) for support arm (non-expandable, flange above)		D
15" Multitouch (1920 x 1080) for pedestal mounting (expandable, flange on bottom)		E
15" For Multitouch (1920 x 1080) support arm (expandable, round tube)		F
For 19" Multitouch (1920 x 1080) support arm (non-expandable, flange above)		G
19" Multitouch (1920 x 1080) for pedestal mounting (expandable, flange on bottom)		H
For 19" Multitouch (1920 x 1080) support arm (expandable, round tube)		J
12" Multitouch Neutral (1280 x 800) for support arm (non-expandable, flange above)		K
12" Multitouch Neutral (1280 x 800) for pedestal mounting (expandable, flange on bottom)		L
12" Multitouch Neutral (1280 x 800) for support arm (expandable, round tube)		M
15" Multitouch Neutral (1920 x 1080) for support arm (non-expandable, flange above)		N
15" Multitouch Neutral (1920 x 1080) for pedestal mounting (expandable, flange on bottom)		P
15" Multitouch Neutral (1920 x 1080) for support arm (expandable, round tube)		Q
For 19" Multitouch Neutral (1920 x 1080) support arm (non-expandable, flange above)		R
19" Multitouch Neutral (1920 x 1080) for pedestal mounting (expandable, flange on bottom)		S
19" Multitouch Neutral (1920 x 1080) for support arm (expandable, round tube)		T
<b>Processor / TPM</b>		
Atom X6211E (2-Core)	X	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
<b>RAM</b>		
4 GB RAM	X	1
8 GB RAM		2
16 GB RAM		3
<b>Hardware</b>		
COM Not available	X	1
1x COM		2
<b>Driver</b>		
Driver not available	X	1
256 GB Eco SSD		2
240 GB SSD		3
480 GB SSD		4
<b>Hardware Plugin</b>		
Hardware plugin not available	X	A
NVRAM		B
<b>Operating System</b>		
No operating system available	X	A
Windows 10 IoT Enterprise 2019 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It)		B
Windows 10 IoT Enterprise 2021 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It)		C



SIMATIC IPC277G PRO

# SIMATIC Industrial Computers and Monitors



(IPC) (PX-) (32A)

Material Type	Order No
<b>SIMATIC IPC PX-32A (Panel PC)</b>	
<b>SIMATIC IPC PX-32A (Panel PC)</b>	<b>6AV727 2-1 A A A 0 0 0 -0 A B</b>
<b>Standard-Device</b>	1
Celeron G6600HLE(2.1GHz, 2C/2T)	
12" Touchscreen 4GB RAM	
Except RS232/485, PCIe, without operating system	
Internal drive-1 is not available Internal drive-2 is not available	
USB-Stick (Restore-Image; D&D) included	
9-36V DC Industrial Power Supply (wide range)	
<b>Device Type</b>	
Standard device	2
<b>Processor</b>	
Celeron G6600HLE(2.1GHz, 2C/2T)	1
Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel	3
Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel Xeon	5
W-11865MLE (1.5/4.5 GHz, 8C/16T)	7
<b>Screen</b>	
12" Touchscreen	X A
15" Touchscreen	B
19" Touch	C
22" Touch	D
<b>Ram/NVRAM</b>	
4GB	X A
8GB	B
16GB	C
32GB	D
<b>Internal Drive-1 (OS)</b>	
Internal Drive-1 not available	X
M.2 SSD 256 GB Eco	0
M.2 SSD 512 GB Eco	1
	2
<b>Internal Drive-2</b>	
Internal Drive-2 not available	X 0
<b>Operating System</b>	
Operating system not available	X 0
Windows 10 IoT Enterprise 2021 LTSC with processors Celeron, W-11155MLE, W-11555MLE	1
Windows 10 IoT Enterprise 2021 LTSC with processor W-11865MLE	2
<b>Option 1</b>	
Option-1 is not available	X
Additional; 1 x Com (RS232/485/422) (3 in total)	A
Additional; 2 x Com (RS232/485/422) (4 in total)	B
	C
<b>Option 2</b>	
USB-Stick (Restore-Image; D&D) included	B
<b>Power Supply</b>	
9-36V DC Industrial Power Supply (wide range)	1

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
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IPC PX-39A

SIMATIC IPC PX-39A (Panel PC)		6AV72 4 2-1 A A A 0 0-0 A A A 0
<b>Standard-Device</b>		
Celeron G6600HLE(2.1GHz, 2C/2T)		
15" Multitouch (1920 x 1080) 4GB RAM Excluding		
RS232/485, excluding PCIe, without operating system		
No external and internal drivers, 24V DC industrial power supply excluding SIMATIC software		
<b>Device Type</b>		
Standard device	X	2
<b>Processor</b>		
Celeron G6600HLE(2.1GHz, 2C/2T)	X	1
Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T)		3
Intel Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T)		5
Intel Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)		7
<b>Front Panel</b>		
15" Multitouch (1920 x 1080)	X	A
19" Multitouch (1920 x 1080)		B
22" Multitouch (1920 x 1080)		C
24" Multitouch (1920 x 1080)		D
15" Multitouch Neutral (1920 x 1080)		L
19" Multitouch Neutral (1920 x 1080)		M
22" Multitouch Neutral (1920 x 1080)		N
24" Multitouch Neutral (1920 x 1080)		P
<b>Ram/NVRAM</b>		
4GB	X	A
8GB		B
16GB		C
32GB		D
16GB with ECC		E
32GB with ECC		F
8GB and NVRAM (M.2 Module)		G
16GB and NVRAM (M.2 Module)		H
32GB and NVRAM (M.2 Module)		J
16GB with ECC and NVRAM (M.2 Module)		K
32GB with ECC and NVRAM (M.2 Module)		L
<b>Internal Drive-1 (OS)</b>		
Internal Drive-1 not available	X	0
256 GB Eco M.2 SSD		1
512 GB Eco M.2 SSD		2
240 GB M.2 SSD		4
480 GB M.2 SSD		5
960 GB M.2 SSD		6
RAID1 - with 512 GB Eco SSD (need to select 512 GB Eco SSD to SSD2)		8
<b>Internal Drive-2</b>		
Internal Drive-2 not available	X	0
256 GB Eco M.2 SSD		1
512 GB Eco M.2 SSD		2
240 GB M.2 SSD		4
480 GB M.2 SSD		5
960 GB M.2 SSD		6

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC PX-39A (Panel PC)</b>		
<b>SIMATIC IPC PX-39A (Panel Pc)</b>	<b>6AV7242-1 A A A 0 0 0-0 A A A 0</b>	
<b>Standard-Device</b>		
Celeron G6600HLE(2.1GHz, 2C/2T)		
15" Multitouch (1920 x 1080) 4GB RAM Excluding		
RS232/485, excluding PCIe, without operating system		
No external and internal drivers, 24V DC industrial power supply excluding SIMATIC software		
<b>Operating System</b>		
Operating system not available	X	0
Windows 10 IoT Enterprise 2021 LTSC with processors Celeron, W-11155MLE, W-11555MLE		1
Windows 10 IoT Enterprise 2021 LTSC with processor W-11865MLE		2
SIMATIC Industrial OS		7
<b>Option 1</b>		
Hardware plugin not available	X	A
1 x PCIe-Slot		B
1 x Com (RS232/485/422)		C
1 x PCIe-Slot and 1 x Com (RS232/485/422)		D
<b>Option 2</b>		
without USB-Stick (Restore-Image; D&D)	X	A
with USB-Stick (Restore-Image; D&D)		B
<b>Power Supply</b>		
24V DC Industry-power supply (Premium, NAU, isolated)	X	0
110/230V AC Industrial PS with NAMUR; power cord not included.		2
110/230V AC Industrial PS with Namur; power cord included (Europe)		3
24V DC Industry-power supply (NAU, isolated, with hold-up time) with ATEX/IECEX/UL HazLoc		7



SIMATIC IPC BX-39A and IPC PX-39A family

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC PX-39A Pro</b>		
SIMATIC IPC PX-39A Pro	6AV725 2-1 A A A 0 0-0 A A A 0	
<p><b>IP65 Protected All Round</b>            Intel Celeron G6600HLE(2.1GHz, 2C/2T) 15"            Multitouch (1920 x 1080) 4GB RAM No operating system, except hardware add-on,            Pedestal mounted (expandable, flange down)            No external and internal drivers, 24V DC industrial power supply</p>		
<b>Device Type</b>		
IP65 Protected All Round	X	2
<b>Processor</b>		
Intel Celeron 6600HLE (2.1 GHz, 2C/2T)	X	1
Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T)		3
Intel Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T)		5
Intel Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)		7
<b>Screen</b>		
15" Multitouch (1920 x 1080)	X	A
19" Multitouch (1920 x 1080)		C
22" Multitouch (1920 x 1080)		E
24" Multitouch (1920 x 1080)		G
15" Multitouch Neutral (1920 x 1080)		K
19" Multitouch Neutral (1920 x 1080)		M
22" Multitouch Neutral (1920 x 1080)		P
24" Multitouch Neutral (1920 x 1080)		R
<b>Ram/NVRAM</b>		
4GB	X	A
8GB		B
16GB		C
32GB		D
16GB with ECC		E
32GB with ECC		F
8GB and NVRAM (M.2 Module)		G
16GB and NVRAM (M.2 Module)		H
32GB and NVRAM (M.2 Module)		J
16GB with ECC and NVRAM (M.2 Module)		K
32GB with ECC and NVRAM (M.2 Module)		L
<b>Internal Drive-1 (OS)</b>		
Internal Drive-1 not available	X	
256 GB Eco M.2 SSD		
512 GB Eco M.2 SSD		
240 GB M.2 SSD		
480 GB M.2 SSD		
960 GB M.2 SSD		
<b>Internal Drive-2 (only with operating system, if drive 1 is not used) / Com</b>		
Internal Drive-2 not available	X	0
256 GB Eco SSD		1
512 GB Eco SSD		2
1 x Com (RS232/485/422)		3

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC PX-39A Pro</b>		
SIMATIC IPC PX-39A Pro	6AV725 2-1 A A A 0 0-0 A A A 0	
<b>IP65 Protected All Round</b> Intel Celeron G6600HLE(2.1GHz, 2C/2T) 15" Multitouch (1920 x 1080) 4GB RAM No operating system, except hardware add-on, Pedestal mounted (expandable, flange down) No external and internal drivers, 24V DC industrial power supply		
<b>Operating System</b> Operating system not available (Edge-option with OS) X 0 Windows 10 IoT Enterprise 2021 LTSC with processors Celeron, W-11155MLE, W-11555MLE 1 Windows 10 IoT Enterprise 2021 LTSC with processor W-11865MLE 2 SIMATIC Industrial OS 7		
<b>Option 1</b> plinth installation (expandable, flange below) X A support arm (expandable, round tube) B support arm (non-expandable, flange above) C		
<b>Option 2</b> USB-Stick (Restore-Image; D&D) not available X A USB-Stick (Restore-Image; D&D) is available B		
<b>Power Supply</b> 24V DC Industrial Power Supply (Premium, NAU, Isolated) X 0 24V DC Industry-power supply (NAU, isolated, with hold-up time) with ATEX/IECEX/UL HazLoc 7		



SIMATIC IPC PX-39A Pro

# SIMATIC Industrial Computers and Monitors

Material Type	Order No	
<b>SIMATIC IPC RW-543A (Rack PC, 19", 4U)</b>		
<b>SIMATIC IPC RW-543A (Rack PC, 19", 4U)</b>	<b>6AG4011-3 A A A 0 4-0 X X X 1</b>	
<b>SIMATIC IPC RW-543A (Rack PC, 19", 4U)</b> Mainboard (Chipset Q470): 2x Gigabit Ethernet, 2x USB 2.0 (front), 4x USB 3.2, 2x USB 2.0 (rear), 1x USB2.0 (internal), 1x HDMI, 1x DVI-D, 1x VGA, 2x COM, 1x PS/2, Audio Intel Pentium G6400 - 2 Cores / 4 Threads 1 TB HDD 4GB DDR4 SDRAM Eco chassis, 350W Add-ons (Hardware) not included Operating system not included		
<b>Processor</b>		
Intel Pentium G6400 - 2 Cores / 4 Threads	X	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
<b>Driver</b>		
1 TB HDD	X	A
2x1T HDD		B
256G SSD		C
512G SSD		D
1TB HDD+ 256G SSD		E
<b>Ram</b>		
4 GB DDR4 SDRAM	X	0
8 GB DDR4 SDRAM		1
16 GB DDR4 SDRAM		2
32 GB DDR4 SDRAM		3
64 GB DDR4 SDRAM (2x 32 GB)		4
128 GB DDR4 SDRAM (4x 32 GB)		5
<b>Sachet Type</b>		
Standard Chassis, 350W		0
Standard Chassis, 500W		1
Standard Chassis, 850W		2
Eco Chassis, 350W	X	4
Eco Chassis, 500W		5
<b>Add-ons (Hardware)</b>		
Add-ons (Hardware) not included	X	0
<b>Operating Systems (and activated)</b>		
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processors Core i3 / i5]		A
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processor Core i7 / i9 / Xeon]		B
Operating system not included	X	X



SIMATIC IPC RW-543A

# SIMATIC Industrial Computers and Monitors



SIMATIC IPC RC-545A

Material Type	Order No
<b>SIMATIC IPC RC-545A</b>	
<b>SIMATIC IPC RC-545A (Rack PC, 19", 4U)</b>	<b>6AG4 1 0 3 - 6 A X 0 0 - 0 A X 0</b>

**Standard-Device**

Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB Cache  
 SATA drive not included NVMe drive not included  
 8 GB DDR5 SDRAM (1x 8 GB)  
 Type C enclosure (short) type internally mounted / for 0.2 g vibration, 2 g shock) blue chromated 550W 100/240V  
 AC industrial power supply  
 Operating system not included USB-Drive (Restore-Image D&D not included Power cable not included  
 Mainboard (Chipset H610E): 2x Ethernet (2x 1 Gbit), 1x DVI-D, 2x DisplayPort, 1x COM, 2x USB 3.2 Gen.1 Type A, 4x USB 2.0 Type A, 1x USB 2.0 Type A intern; TPM2.0, audio, 2x USB3.1 Gen1 (Type A) frontside;  
 7 Slots: 1x PCIe x16(16L), 1x PCIe x16(2L), 1x PCIe x8(1L), 2x PCIe x4(1L), 2x PCI;

**Processor**

Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB Cache	X	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

**Drive 1, SATA**

1 TB HDD 3.5" SATA		A
2x 1 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
SATA drive not included	X	X

**Drive 2, NVMe**

NVMe drive not included	X	0
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**RAM**

8 GB DDR5 SDRAM (1x 8 GB)	X	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

**Case Type**

Type C housing (short) type internally mounted / for 0.2 g vibration, 2 g shock) blue chromated	X	0
Type B housing (internally mounted / for 0.5 g vibration, 5 g shock), blue chromate		1
Type A enclosure (for front-mounted removable tray), blue chromate		3
Type C housing (short) type internally mounted / for 0.2 g vibration, 2 g shock) blue chromated+ 2 x COM		5
Type B housing (internally mounted / for 0.5 g vibration, 5 g shock), blue chromate+ 2 x COM		6
Type A housing (for removable tray attached to the front), blue chromate+ 2 x COM		7

**Power Supply; graphics card**

550W 100/240V AC industrial power supply	X	A
NVIDIA T400 (4 GB, 3x mDP: 3x Adapter mDP to DP) graphics card; 550W 100/240V AC industrial power supply		D

**Operating Systems (and activated)**

Windows 10 IoT Enterprise 2021 LTSC, Multi Language (en, ge, fr, it, sp), 64 bit; for Core i3/i5; USB-Drive not included		A
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (en, ge, fr, it, sp), 64 bit; for Core i7 / i9; USB-Drive not included		B
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (en, ge, fr, it, sp), 64 bit; for Core i3/i5; USB-Drive included		C
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (en, ge, fr, it, sp), 64 bit; for Core i7/i9; USB-Drive included		D
Operating system not included USB-Drive not included	X	X

**Power cable**

Power cable not included	X	0
Power cable, Europe;		1
Power cord, USA;		2
Power cord, China;		3

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC RW-545A (Rack PC, 19", 4U)</b>		
<b>SIMATIC IPC RW-545A (Rack PC, 19", 4U)</b>	<b>6AG410 4 - 6 A X 0 0 - 1 A X 0</b>	
<b>SIMATIC IPC RW-545A (Rack PC, 19", 4U)</b> Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB Cache SATA drive not included NVMe drive not included 8 GB DDR5 SDRAM (1x 8 GB) Housing with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock), blue chromate 550W 100/240V AC industrial power supply Operating system not included; USB-Drive not included (Restore-Image; D&D power cord not included) Mainboard (Chipset R680E):3x Ethernet (2x 1 Gbit, 1x 2.5 Gbit), 1x DVI-D, 3x DisplayPort, 4x USB 3.2 Gen.2 Typ A, 2x USB 3.2 Gen.2x2 Typ C, 2x USB 2.0 Type A intern; TPM2.0, audio, 2x USB3.1 Gen1(Type A) frontside; 7 Slots: 2x PCIe x16(1x 16L oder 2x 8L), 1x PCIe x8(4L), 3x PCIe x4(4L), 1x PCI; 2x PCI M.2 Slots;		
<b>Processor</b>		
Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB Cache	X	A
Core i5-12500E 6C(4P)/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
Core i9-12900E 16C(8P+8E)/24T, 2.3 (5.0) GHz, 30 MB Cache		D
<b>Drive-1, SATA</b>		
1 TB HDD 3.5" SATA		A
2x 1 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
SATA drive not included	X	X
<b>Drive-2, NVMe</b>		
NVMe drive not included	X	0
512 GB SSD M.2 NVMe(in M.2 Slot)		1
1 TB SSD M.2 NVMe (in M.2 Slot)		2
2 x 1 TB SSD M.2 NVMe (in M.2 Slot)		3
<b>RAM</b>		
8 GB DDR4 SDRAM (2x 4 GB)	X	0
16 GB DDR4 SDRAM (2x 8 GB)		1
32 GB DDR4 SDRAM (2x 16 GB)		2
64 GB DDR4 SDRAM (2x 32 GB)		3
128 GB DDR4 SDRAM (4x 32 GB)		4

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC RW-545A (Rack PC, 19", 4U)</b>		
SIMATIC IPC RW-545A (Rack PC, 19", 4U)	6AG410 4 - 6 A X 0 0 - 1 A X 0	
<b>Case Type</b>		
Enclosure with type B drive cage (internally mounted / 0.5 g vibration, 5 g for shock), blue chromate	X	1
Enclosure with type A drive cage (for front-mounted removable tray), blue chromate		3
Enclosure with type A drive cage (for front mounted removable tray), painted		4
Enclosure with type B drive cage (internally mounted / 0.5 g vibration, 5 g for shock), blue chromate+ 2xCOM ports		6
Enclosure with type A drive cage (internally mounted / 0.5 g vibration, 5 g for shock), blue chromate+ 2xCOM ports		7
Enclosure with type A drive cage (internally mounted / 0.5 g vibration, 5 g for shock), painted+ 2xCOM ports		8
<b>Power Supply; graphics card</b>		
550W 100/240V AC industrial power supply	X	A
850W 100/240V AC industrial power supply		B
700W 2x100/240V AC redundant industrial power supply		C
Graphics card NVIDIA T400 (4 GB, 3x mDP: 3x Adapter mDP to DP); 550W 100/240V AC industrial power supply		D
Graphics card NVIDIA RTX A2000 (12 GB, 4x mDP: 3x Adapter mDP to DP); 550W 100/240V AC industrial power supply		E
Graphics card NVIDIA RTX A4000 (16 GB, 4x DP: w/o adapter) ; 850W 100/240V AC industrial power supply		F
Graphics card NVIDIA RTX A5000 (24 GB, 4x DP: w/o adapter); 850W 100/240V AC industrial power supply		G
Graphics card NVIDIA T400 (4 GB, 3x mDP: 3x Adapter mDP to DP); 700W 2x100/240V AC redundant industrial power supply		H
Graphics card NVIDIA RTX A2000 (12 GB, 4x mDP: 3x Adapter mDP to DP); 700W 2x100/240V AC redundant industrial power supply		J
<b>Operating Systems (and activated)</b>		
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit; for Core i3 / i5; USB-Drive (Restore-Image; D&D) not included		A
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit; for Core i7 / i9; USB-Drive (Restore-Image; D&D) not included		B
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit; for Core i3 / i5; USB-Drive (Restore-Image; D&D) included		C
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit; for Core i7 / i9; USB-Drive (Restore-Image; D&D) included		D
Operating system not included USB-Drive (Restore-Image) D&D not included	X	X
<b>Power Cable</b>		
Power cable not included		0
Power cable, Europe;		1
Power cord, USA;	X	2
Power cord, China;		3



SIMATIC IPC RW-545A

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
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## SIMATIC IPC RS-545A

SIMATIC IPC RS-545A (Rack PC, 19", 4U)

6AG4 1 0 5 - 6 A X 0 0 0 - 1 A X 0 0

### Standard-Device

Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB Cache  
 SATA drive not included NVMe drive not included  
 8 GB DDR5 SDRAM (1x 8 GB)  
 Housing with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock), blue chromate  
 550W 100/240V AC industrial power supply  
 Operating system not included USB-Drive (Restore-Image) & not included Power cable not included  
 Mainboard (Chipset R680E): 3x Ethernet (2x 1 Gbit, 1x 2.5 Gbit), 1x DVI-D, 3x DisplayPort, 4x USB 3.2 Gen.2 Typ A, 2x USB 3.2 Gen.2 Typ C, 2x USB 2.0 Type A intern; TPM2.0, audio, 2x USB3.1 Gen1 (Type A) frontside;  
 7 Slots: 2x PCIe x16 (1x 16L oder 2x 8L), 1x PCIe x8(4L), 3x PCIe x4(4L), 1x PCI; 2x M.2 Slots;



SIMATIC IPC RS-545A

### Processor

Core i3-12100E 4C(4P)/8T, 3.2 (4.2) GHz, 12 MB Cache	X	A
Core i5-12500E 6C(6P)/12T, 2.9 (4.5) GHz, 18 MB Cache; iAMT		B

### Drive 1, SATA

1 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 HotSpare		M
RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA		N
RAID5, 3x 4 TB HDD [Enterprise] 3.5" SATA+ 2TB HDD [Enterprise] 3.5" SATA as HotSpare		P
SATA drive not included	X	X

### Drive 2, NVMe

NVMe drive not included	X	
1 TB SSD M.2 NVMe (in M.2 Slot)		
RAID1, 2x 512 GB SSD M.2 NVMe (in M.2 Slot)		
RAID1, 2x 1TB SSD M.2 NVMe (in M.2 Slot)		

### RAM

8 GB DDR5 SDRAM (1x 8 GB)	X	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

### Case Type

Type B housing (internally mounted / for 0.5 g vibration, 5 g shock), blue chromate	X	1
Type A housing (for front mounted removable cassette), blue chromate		3
Type B housing (internally mounted / for 0.5 g vibration, 5 g shock), blue chromate+ 2xCOM		6
Type A housing (for removable cassette mounted on the front), blue chromate+ 2xCOM		7

### Power Supply; graphics card

550W 100/240V AC industrial power supply	X	A
700W 2x100/240V AC redundant industrial power supply		C

### Operating Systems (and activated)

Windows Server 2022 Standard Edition incl. 5 clients multi language (en, ge, fr, it, sp), 64 bit; USB-Drive not included		N
Windows Server 2022 Standard Edition incl. 5 clients multi language (en, ge, fr, it, sp), 64 bit; USB-Drive included		P
Operating system not included USB-Drive not included	X	X

### Power cable

Power cable not included	X	0
Power cable, Europe;		1
Power cord, USA;		2
Power cord, China;		3

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
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## SIMATIC IPC547J

SIMATIC IPC547J (Rack PC, 19", 4U)

6AG4104-5CA000-0AAA00

Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) / MB (Chipset H410, 2x Gbit Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.2, 1x USB 2.0 intern); 1 TB HDD 3.5" SATA, Drive cage enclosure (short) type B (for internal mounting / 0.2 g vibration, 2 g shock) with blue chrome, 100/240V AC industrial power supply, power cable not included; 4 GB DDR4 SDRAM (1x 4 GB), Single Channel; expansion not available, Windows 10 IoT Enterprise 2019 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit; [for Core i3 / i5 processor] expansion not available, Interfaces: 2x USB3.1 Gen1(type A) frontside; 1x COM (RS 232, 9-pol); Audio, 7 expansion slots: 5x PCI-Express, 2x PCI, Watchdog, Temperature and Fan Control; Board Holder

### Processors and Motherboard

Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) / MB (Chipset H410, 2x Gbit Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.2, 1x USB 2.0 intern)	X	C
Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache) / MB (Chipset H410, 2x Gbit Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.2, 1x USB 2.0 intern)		D
Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache) / MB (Chipset H410, 2x Gbit Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.2, 1x USB 2.0 intern)		E
Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache) / MB (Chipset H410, 2x Gbit Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen.2, 1x USB 2.0 intern)		F
Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) / MB (Chipset W480E, 3x Gbit Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 intern, M.2 Slot intern)		G
Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache) / MB (Chipset W480E, 3x Gbit Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 intern, M.2 Slot intern)		H
Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache) / MB (Chipset W480E, 3x Gbit Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 intern, M.2 Slot intern)		J
Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache) / MB (Chipset W480E, 3x Gbit Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 intern, M.2 Slot intern)		K
Xeon W-1270E (8C/16T, 3.4 (4.8) GHz, 16 MB Cache) / MB (Chipset W480E, 3x Gbit Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 intern, M.2 Slot intern);		L

### Drives (SATA)

1 TB HDD 3.5" SATA	X	A
2x 1 TB HDD 3.5" SATA		B
1 TB HDD 3.5" SATA+ 960 GB SSD 2.5" SATA (for OS, if M.2 SSD is 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 1TB HDD 3.5" SATA, [onlyW480 Chipset]		G
RAID1, 2x 480 GB SSD 2.5" SATA, [onlyW480 Chipset]		H
RAID1, 2x 960 GB SSD 2.5" SATA, [onlyW480 Chipset]		J
RAID1, 2x 2TB HDD [Enterprise] 3.5" SATA, [onlyW480 Chipset]		K
RAID1, 2x 4TB HDD [Enterprise] 3.5" SATA, [onlyW480 Chipset]		L
RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA+ 4 TB HDD [Enterprise] 3.5" SATA as HotSpare, [W480 Chipset only]		M
RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA+ 960 GB SSD 2.5" SATA (for OS, if M.2 SSD is not ordered), [W480 Chipset only]		N
RAID5, 3x 4TB HDD [Enterprise] 3.5" SATA, [onlyW480 Chipset]		P
RAID5, 3x 4TB HDD [Enterprise] 3.5" SATA+ 2TB HDD [Enterprise] 3.5" SATA as HotSpare, [W480 Chipset only]		Q
Driver not available		X



SIMATIC IPC547J

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC Rack IPC 547J</b>		
SIMATIC IPC547J (Rack PC, 19", 4U)	6AG4 1 0 4 - 5 C A 0 0 0 - 0 A A A 00	
<b>Chassis type/Power supply and replaceable disk</b>		
Drive cage housing (short) type B (for internal mounting / 0.2 g vibration, 2 g shock) blue chromated	X	0
Drive cage housing type B (for internal mounting / 0.5 g vibration, 5 g shock) with blue chromate		1
Drive cage housing type B (for internal mounting / 0.5 g vibration, 5 g shock) painted		2
Enclosure with drive cage type A (for frontside mounted removable tray) blue chromed		3
Drive cage enclosure type A (for frontside mounted removable tray) painted		4
<b>Power supplies</b>		
100/240V AC industrial power supply, power cord not included	X	0
100/240V AC industrial power supply, power cable Europe		1
100/240V AC industrial power supply, power cord USA		2
100/240V AC industrial power supply, power cable China		3
2x 100/240V AC redundant industrial power supply, power cable not included		4
2x 100/240V AC redundant industrial power supply, 2x power cable Europe		5
100/240V AC industrial power supply, 850W, power cord not included		6
100/240V AC industrial power supply, 850W, power cable Europe		7
<b>Memory</b>		
4 GB DDR4 SDRAM (1x 4 GB), Single Channel;	X	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 (2x 32 GB), Dual Channel;		4
128 GB DDR4 SDRAM (4x 32 GB), Dual Channel;[onlyW480 Chipset]		5
<b>Add-ons (Hardware)</b>		
expansion not available	X	A
COM2 port		B
512 GB SSD M.2 NVMe (M.2 Slot full)(for OS)[onlyW480 Chipset]		C
1024 GB SSD M.2 NVMe (M.2 Slot full)(for OS)[onlyW480 Chipset]		D
PCIe x16 graphics card NVIDIA Quadro P400 (3x mDP: 3x adapter mDP to DP), 2 GB (1 slot full)		J
PCIe x16 graphics card NVIDIA Quadro P2200 (4x DP), 5 GB (1 slot full), [onlyW480 Chipset and Drive cage enclosure type A]		K
PCIe x16 graphics card NVIDIA RTX 4000 (3x DP), 8 GB (1 Slot occupied), [only with 850W PS]		L
<b>Operating systems (Pre-installed and activated)</b>		
Windows 10 IoT Enterprise 2019 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit; [for Core i3 / i5 processor]	X	A
Windows 10 IoT Enterprise 2019 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit; [for Core i7 / i9 / Xeon processor]		B
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processors Core i3 / i5]		C
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processor Core i7 / i9 / Xeon]		D
Windows Server 2019 Standard Edition 64 bit, incl. 5 clients multi language (En, Ger, Fr, It, Sp);[onlyW480 Chipset and Xeon]		N
Windows Server 2022 Standard Edition 64 bit, incl. 5 clients multi language (En, Ger, Fr, It, Sp);[only with Xeon]		P
Processing system not available		X
<b>Add-ons (Software / Adapter / Security)</b>		
expansion not available	X	0
SIMATIC PC DiagMonitor software attached		1
SIMATIC PC Image & Partition Creator software attached		2
SIMATIC PC DiagMonitor & ImagePartition Creator software		3
attached adapter cable DP to VGA for onboard graphics card		4
adapter cable DP to DVI-D for onboard graphics card		5
TPM 2.0		8



IPC 547 J  
hard disk drive



IPC 547J back side

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC Rack IPC 647E</b>		
<b>SIMATIC IPC647E (Rack PC, 19", 4U)</b>	<b>6AG4 1 12 - 3 A X 0 0 - 0 X X X 0</b>	
<p>SIMATIC IPC647E (Rack PC, 19", 2U)            Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache); Card 2 Slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L); drive not available Enclosure with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock); 100/240V AC industrial power supply            4 GB DDR4 SDRAM (1x4 GB), Single Channel; 512 GB SSD M.2 NVMe (M.2 Slot occupied) (for OS)+ PCIe x16 graphics card (3x mDP: 3x adapter mDP to DP - DP), 2 GB (1 Slot occupied), OS not available Expansion not available, Power cable available;            Interface: 3x Gigabit/s Ethernet (IE/PN, RJ45); M.2 PCIe x4 (Key M) Slot internal; 1x DVI-D; 2x DisplayPort; 1x COM (RS 232, 9-pol); audio 4x USB3.1 Gen2(Type A), 2x USB3.1 Gen2(Type C) backside; 2x USB3.1 Gen1(Type A) frontside; 1x USB3.1 Gen2(Type A) internal; Watchdog, Temperature and Fan Control; Board Retainer</p>		
<b>Processor / Main board</b>		
Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache); Card 2 Slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L);	X	A
Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache); Motherboard 4 Slots: 2x PCI, 2x PCIe x16 (8 L);		B
Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache); Card 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, AMT); Card 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, AMT); Motherboard 4 Slots: 2x PCI, 2x PCIe x16 (8 L);		E
Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache, TB, AMT); Card 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, AMT); Card 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, AMT); Motherboard 4 Slots: 2x PCI, 2x PCIe x16 (8 L);		H
Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache, TB, AMT); Card 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, 12MB Cache, TB, AMT); Card 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, AMT); Motherboard 4 Slots: 2x PCI, 2x PCIe x16 (8 L);		L
Xeon E-2176G (6C/12T, 3.7(4.7)GHz, 12 MB Cache, TB, AMT); Card 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, 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, 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, AMT); Board 4 Slots: 2x PCIe x16 (8 L), 1x PCIe x16 (4 L), 1x PCIe x16 (1 L);		R
<b>Drivers</b>		
1 TB HDD 3.5" SATA		A
2x1 TB HDD 3.5" SATA		B
RAID1, 2x1 TB HDD 3.5" SATA		C
RAID1, 2x2 TB HDD [Enterprise] 3.5" SATA		D
RAID1, 2x4 TB HDD [Enterprise] 3.5" SATA		E
RAID1, 2x 2TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP-Modul (1 Slot occupied)		K
RAID1, 2x 2TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP-Modul (1 Slot occupied)		L
1 TB HDD 3.5" SATA+ 480 GB SSD 2.5" SATA (for operating system if M.2 SSD is not ordered) used)		P
480 GB SSD 2.5" SATA		Q
960 GB SSD 2.5" SATA		R
2x480 GB SSD 2.5" SATA		S
RAID1, 2x480 GB SSD 2.5" SATA		T
RAID1, 2x960 GB SSD 2.5" SATA		U
Driver not available	X	X

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	Birim Fiyatı Euro/Adet
<b>SIMATIC Rack IPC 647E</b>		
<b>SIMATIC IPC647E (Rack PC, 19", 4U)</b>	<b>6AG4 1 1 2 - 3 A X 0 0 - 0 X X 0</b>	<b>3.054.-</b>
<p>Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache); Card 2 Slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L); drive not available Enclosure with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock);100/240V AC industrial power supply 4 GB DDR4 SDRAM (1x4 GB), Single Channel; 512 GB SSD M.2 NVMe (M.2 Slot occupied) (for OS)+            PCIe x16 graphics card (3x mDP: 3x adapter mDP to DP - DP), 2 GB (1 Slot occupied), OS not available Expansion not available, Power cable available;            Interface: 3x Gigabit/s Ethernet (IE/PN, RJ45); M.2 PCIe x4 (Key M) Slot internal; 1x DVI-D; 2x DisplayPort; 1x COM (RS 232, 9-pol); audio 4x USB3.1 Gen2(Type A), 2x USB3.1 Gen2(Type C)backside; 2x USB3.1 Gen1(Type A) frontside; 1x USB3.1 Gen2(Type A) internal; Watchdog, Temperature and Fan Control; Board Retainer</p>		
<b>Chassis type, power supplies</b>		
Enclosure with type B drive cage (internally mounted / for 0.100/240V AC industrial power supply	0	-
Enclosure with type A drive cage (for front-mounted removable tray); 100/240V AC industrial power supply	1	71.-
Enclosure with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock); 2x100/240V AC redundant industrial power supply	2	566.-
Enclosure with type A drive cage (for removable tray attached to the front); 2x100/240V AC redundant industrial power supply	3	638.-
Enclosure with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock)+ COM2 port; 100/240V AC industrial power supply	4	58.-
Enclosure with type A drive cage (for front mounted removable tray)+ COM2 port; 100/240V AC industrial power supply	5	128.-
Enclosure with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock)+ COM2 port; 2x100/240V AC redundant industrial power supply	6	624.-
Enclosure with type A drive cage (for front mounted removable tray)+ COM2 port; 2x100/240V AC redundant industrial power supply	7	695.-
<b>Ana hafıza</b>		
4 GB DDR4 SDRAM (1x4 GB), Single Channel; <b>X</b>	0	-
8 GB DDR4 SDRAM (2x4 GB), Dual Channel;	1	178.-
16 GB DDR4 SDRAM (2x8 GB), Dual Channel;	2	489.-
32 GB DDR4 SDRAM (2x16 GB), Dual Channel;	3	1.155.-
64 GB DDR4 SDRAM (4x16 GB), Dual Channel;	4	2.486.-
128 GB DDR4 SDRAM (4x 32 GB), Dual Channel;	5	4.132.-
16 GB DDR4 SDRAM (2x8 GB), Dual Channel; ECC [with Core i3/Xeon only] 32 GB DDR4 SDRAM (2x16 GB), Dual Channel; ECC [with Core i3/Xeon only] 64 GB DDR4 SDRAM (4x16 GB), Dual Channel; ECC [with Core i3/Xeon only]	6	956.-
	7	1.806.-
	8	3.790.-
<b>Expansion (Hardware)</b>		
Expansion not available	0	-
PCIe x16 graphics card (3x mDP: 3x adapter mDP to DP), 2GB (1 Slot occupied)	2	425.-
512GB SSD M.2 NVMe (M.2 Slot occupied) (for operating system)	4	879.-
512GB SSD M.2 NVMe (M.2 Slot occupied) (for OS) + PCIe x16 graphics card (3x mDP: 3x adapter mDP to DP), 2GB (1 Slot occupied)	5	1.034.-
1024GB SSD M.2 NVMe (M.2 Slot occupied) (for OS)	6	1.630.-
PCIe x8 GPU card NVIDIA A2 Tensor Core, 16GB (2 slots occupied)	7	3.486.-
512GB SSD M.2 NVMe (M.2 Slot occupied) (for OS) + PCIe x8 GPU card NVIDIA A2 Tensor Core, 16GB (2 slots occupied)	8	4.361.-

# SIMATIC Industrial Computers and Monitors



Material Type	Order No		
<b>SIMATIC Rack IPC 647E</b>			
<b>SIMATIC IPC647E (Rack PC, 19", 4U)</b>	<b>6AG4 1 1 2 - 3 A X 0 0 - 0 X X X 0</b>		
<p>SIMATIC IPC647E (Rack PC, 19", 2U)            Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache); Card 2 Slots: 1x PCIe x16 (16 L), 1x PCIe x16 (4 L); drive not available Enclosure with type B drive cage (internally mounted / for 0.5 g vibration, 5 g shock); 100/240V AC industrial power supply            4 GB DDR4 SDRAM (1x4 GB), Single Channel; 512 GB SSD M.2 NVMe (M.2 Slot occupied) (for OS)+ PCIe x16 graphics card (3x mDP: 3x adapter mDP to DP - DP), 2 GB (1 Slot occupied), OS not available Expansion not available, Power cable available;            Interface: 3x Gigabit/s Ethernet (IE/PN, RJ45); M.2 PCIe x4 (Key M) Slot internal; 1x DVI-D; 2x DisplayPort; 1x COM (RS 232, 9-pol); audio 4x USB3.1 Gen2(Type A), 2x USB3.1 Gen2(Type C) backside; 2x USB3.1 Gen1(Type A) frontside; 1x USB3.1 Gen2(Type A) internal; Watchdog, Temperature and Fan Control; Board Retainer</p>			
<b>Operating Systems (and active)</b>			
Windows 10 Enterprise 2016 LTSC, Multilingual (En, Ger, Fr, Bu, Sp), 64-bit; [Core i3/Core i5 for processors]			A
Windows 10 Enterprise 2016 LTSC, Multilingual (En, Ger, Fr, Bu, Sp), 64 bit; [for processor Core i7/Xeon]			B
Windows 10 IoT Enterprise 2019 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[Core i3 / i5 processor]			C
Windows 10 IoT Enterprise 2019 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[Core i7 / Xeon processor]			D
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[Core i3 / i5 processor]			E
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[Core i7 / Xeon processor]			F
Windows Server 2016 Standard Edition 64 bit, included. 5 client multilingual (En, Ger, Fr, It, Sp); operating system not available			H
Windows Server 2019 Standard Edition 64 bit, included. 5 customer multilingual (En, Ger, Fr, It, Sp);			J
Windows Server 2022 Standard Edition 64 bit, included. 5 customer multilingual (En, Ger, Fr, It, Sp); operating system not available	X	X	K
<b>Expansion (Software / Adapter / Security)</b>			
SIMATIC PC DiagMonitor Software added			A
SIMATIC PC Image & Partition Creator Software added			B
SIMATIC PC DiagMonitor & ImagePartition Creator Software added			C
DP to VGA adapter cable for on-board graphics			H
DP to DVI-D adapter cable for on-board graphics	X	X	J
Expansion not available			Y
TPM 2.0 (not suitable for China)			
<b>Country-specific cable types</b>			
Power cable not available;	X	0	-
Power cable Europe;		1	22.-
Power cord USA;		2	
Power cable China;		3	



SIMATIC IPC647E

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
<b>SIMATIC Rack IPC 847E (Rack PC, 19", 4U)</b>	
<b>SIMATIC IPC 847E, Rack PC, 19", 4U</b>	<b>6AG4 114-3AA A 000-0XX X 0</b>
<p>Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache); Card 9 Slots: 7x PCI, 2x PCIe x16 (8 L); 1TB HDD 3.5" SATA            Enclosure with drive cage type B (internally mounted / 0.5 g vibration, 5 g shock); 100/240V AC industrial power supply, 4 GB DDR4 SDRAM (1x4 GB), Single Channel; Operating system not available, Plug-in not available, Power cable not available;</p> <p><b>Processor</b></p>	
Core i3-8100 (4C/4T, 3.6 GHz, 6 MB BPM); Card 9 Slots: 7x PCI, 2x PCIe x16 (8 L);	<b>X A</b>
Core i3-8100 (4C/4T, 3.6 GHz, 6 MB BPM); Card 11 Slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L);	<b>B</b>
Core i3-8100 (4C/4T, 3.6 GHz, 6 MB BPM); Card 11 Slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L);	<b>C</b>
Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache, TB, AMT); Card 9 Slots: 7x PCI, 2x PCIe x16 (8 L);	<b>D</b>
Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB O.B., TB, AMT); Card 11 Slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L);	<b>E</b>
Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB O.B., TB, AMT); Card 11 Slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L);	<b>F</b>
Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache, TB, AMT); Card 9 Slots: 7x PCI, 2x PCIe x16 (8 L);	<b>G</b>
Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB O.B., TB, AMT); Card 11 Slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L);	<b>H</b>
Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB O.B., TB, AMT); Card 11 Slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L);	<b>J</b>
Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache, TB, AMT); Card 9 Slots: 7x PCI, 2x PCIe x16 (8 L);	<b>K</b>
Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB O.B., TB, AMT); Card 11 Slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L);	<b>L</b>
Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache, TB, AMT); Card 11 Slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L), 2x PCIe x4 (4 L);	<b>M</b>
Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache, TB, AMT); Board 9 Slots: 7x PCI, 2x PCIe x16 (8 L);	<b>N</b>
Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache, TB, AMT); Board 11 Slots: 3x PCI, 1x PCIe x16 (8 L), 5x PCIe x16 (4 L), 2x PCIe x4 (4 L);	<b>Q</b>
Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache, TB, 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);	<b>R</b>
<b>Driver</b>	
1 TB HDD 3.5" SATA	<b>A</b>
2x1 TB HDD 3.5" SATA	<b>B</b>
RAID1, 2x1 TB HDD 3.5" SATA	<b>C</b>
RAID1, 2x 2TB HDD [Enterprise] 3.5" SATA	<b>D</b>
RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA	<b>E</b>
RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 4 TB HDD [Enterprise] 3.5" SATA as HotSpare	<b>F</b>
RAID1, 2x 4 TB HDD [Enterprise] 3.5" SATA + 480 GB SSD 2.5" SATA (for operating system, if M.2 SSD is not ordered)	<b>G</b>
RAID5, 3x 4TB HDD [Enterprise] 3.5" SATA	<b>H</b>
RAID5, 3x 4TB HDD [Enterprise] 3.5" SATA+ 4TB HDD [Enterprise] 3.5" SATA as HotSpare [drive only Enclosure with cage type A (for removable tray that can be attached to the front)]	<b>J</b>
RAID1, 2x 2TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP-Modul (1 Slot occupied)	<b>K</b>
RAID1, 2x 2TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP-Modul (1 Slot occupied) + 480 GB SSD 2.5" SATA	<b>L</b>
RAID5, 3x 2 TB HDD [Enterprise] 3.5" SAS; PCIe x8 RAID controller incl. ZMCP-Modul (1 slot occupied) 1 TB HDD 3.5" SATA+ 480 GB SSD 2.5" SATA (for operating system, if M.2 SSD not ordered)	<b>M</b>
RAID5, 3x 2TB HDD [Enterprise] 3.5" SAS+ 2TB HDD [Enterprise] 3.5" SAS as HotSpare; PCIe x8 RAID controller incl. ZMCP-Modul (1 Slot occupied)	<b>N</b>
1 TB HDD 3.5" SATA+ 480 GB SSD 2.5" SATA (for OS, if M.2 SSD does not order)	<b>P</b>
480 GB SSD 2.5" SATA	<b>Q</b>
960 GB SSD 2.5" SATA	<b>R</b>
2x 480 GB SSD 2.5" SATA	<b>S</b>
RAID1, 2x 480 GB SSD 2.5" SATA	<b>T</b>
Driver Not Available	<b>X X</b>



SIMATIC IPC847E

# SIMATIC Industrial Computers and Monitors



Material Type	Order No							
<b>SIMATIC Rack IPC 847E (Rack PC, 19", 4U)</b>								
<b>SIMATIC IPC 847E, Rack PC, 19", 4U</b>	<b>6AG4 1 1 4 - 3 A A A 0 0 0 - 0 X X X 0</b>							
<b>Chassis type, power supplies</b>								
Enclosure with drive cage type B (internally mounted / 0.5 g vibration, 5 g shock); 100-2-40V AC industrial power supply	X	0						
Enclosure with drive cage type A (for front-mounted removable tray); 100/240V AC industrial power supply		1						
Enclosure with drive cage type B (internally mounted / 0.5 g vibration, 5 g shock); 2x 100/240V AC redundant industrial power supply		2						
Enclosure with drive cage type A (for front-mounted removable tray); 2x 100/240V AC redundant industrial power supply		3						
Drive cage type B (internally mounted / 0.5 g vibration, 5 g shock)+ Enclosure with COM2 port; 100/240V AC industrial power supply		4						
Drive cage type A (for front mounted removable table)+ Enclosure with COM2 port; 100/240V AC industrial power supply		5						
Drive cage type B (internally mounted / 0.5 g vibration, 5 g shock)+ Enclosure with COM2 port; 2x 100/240V AC redundant industrial power supply		6						
Drive cage type A (for front mounted removable table)+ Enclosure with COM2 port; 2x 100/240V AC redundant industrial power supply		7						
Drive cage type A (for front mounted removable table)+ Enclosure with COM2 port; 100/240V AC industrial power supply, 850W		8						
<b>Main memory</b>								
4 GB DDR4 SDRAM (1x4 GB), Single Channel;	X	0						
8 GB DDR4 SDRAM (2x4 GB), Dual Channel;		1						
16 GB DDR4 SDRAM (2x 8 GB), Dual Channel;		2						
32 GB DDR4 SDRAM (2x16 GB), Dual Channel;		3						
64 GB DDR4 SDRAM (4x16 GB), Dual Channel;		4						
128 GB DDR4 SDRAM (4x 32 GB), Dual Channel;		5						
16 GB DDR4 SDRAM (2x 8 GB), Dual Channel; ECC [with Xeon only]		6						
32 GB DDR4 SDRAM (2x16 GB), Dual Channel; ECC [with Xeon only]		7						
64 GB DDR4 SDRAM (4x16 GB), Dual Channel; ECC [with Xeon only]		8						
<b>Add-ons (Hardware)</b>								
Plugin not available	X	0						
PCIe x4 carrier card for SSD M.2 NVMe module without SSD (1 slot occupied)		1						
PCIe x16 graphics card (3x mDP: 3x adapter mDP - DP), 2 GB (1 slot occupied)		2						
PCIe x4 carrier card for SSI M.2 NVMe module without SSD (1 Slot full)+ PCIe x16 graphics card (3x mDP: 3x adapter mDP - DP), 2 GB (1 slot occupied)		3						
512 GB SSD M.2 NVMe (1 Slot space) on PCIe x4 carrier card (for OS)		4						
512 GB SSD M.2 NVMe M.2 (1 Slot coated) on PCIe x4 carrier card (for OS)+ PCIe x16 graphics card (3x mDP: 3x mDP: 3x adapter mDP - DP), 2 GB (1 slot occupied)		5						
1024 GB SSD M.2 NVMe (1 Slot space) on PCIe x4 carrier card (for OS)		6						
PCIe x16 graphics card NVIDIA RTX 4000 (3x DP), 8 GB (1 Slot full) [with 850W PS only]		7						
<b>Operating Systems (and activated)</b>								
Windows 10 Enterprise 2016 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processors Core i3 / Core i5]		A						
Windows 10 Enterprise 2016 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processor Core i7 / Xeon]		B						
Windows 10 IoT Enterprise 2019 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processors Core i3 / Core i5]		C						
Windows 10 IoT Enterprise 2019 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[for processor Core i7 / Xeon]		D						
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[Core i3 / i5 processor]		E						
Windows 10 IoT Enterprise 2021 LTSC, Multi Language (En, Ger, Fr, It, Sp), 64 bit;[Core i7 / Xeon processor]		F						
Windows Server 2016 Standard Edition 64 bit, incl. 5 clients multi language (En, Ger, Fr, It, Sp);		H						
Windows Server 2019 Standard Edition 64 bit, incl. 5 clients multi language (En, Ger, Fr, It, Sp);		J						
Windows Server 2022 Standard Edition 64 bit, included. 5 client multilingual (En, Ger, Fr, It, Sp);		K						
Without operating system	X	X						
<b>Add-ons(Software / Adapter / Security)</b>								
SIMATIC PC DiagMonitor Software attached		A						
SIMATIC PC Image & Partition Creator Software		B						
SIMATIC PC DiagMonitor & ImagePartition C		C						
VGA adapter cable for integrated graphics		H						
DVI-D adapter cable DP to DVI-D for internal graphics		J						
Plugin not available	X	X						
TPM 2.0 (not available for China)		Y						
<b>Power cable</b>								
Power cable not available;	X	0						
Power cable Europe;		1						
Power cord USA;		2						
or in the following		3						

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC BX-21A</b>		
<b>SIMATIC IPC BX-21A</b>	<b>6AG4021-0BC000-1AAA1</b>	
Atom X6413E (4-Core) / 8 GB RAM 128 GB Eco SSD, Operating system not available USB-Stick (Restore-ImageD&D) not available		
<b>Processor / RAM / TPM</b>		
Atom X6413E (4-Core) / 8 GB RAM	X	C
Atom X6413E (4-Core) / 16 GB RAM		D
<b>Driver</b>		
128 GB Eco SSD	X	1
256 GB Eco SSD		2
<b>Operating system</b>		
Operating system not available	X	A
Windows 10 IoT Enterprise 2021 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It)		B
<b>USB-Stick</b>		
USB-Stick (Restore-Image; D&D) not available	X	1
USB-Stick (Restore-Image; D&D) available		2

Mounting Accessories	
6AG4021-0AA20-0AA1	DIN-Rail
6AG4021-0AA20-0AA2	Wall-mount
6AG4021-0AA20-0AA4	Book-mount
6AG4021-0AA20-0AA5	Book-mount DIN-Rail
6AG4021-0AA20-0AA6	VESA-mount



# SIMATIC Industrial Computers and Monitors



SIMATIC IPC327G

Material Type	Order No
<b>SIMATIC IPC327G (Basicbox PC)</b>	
<b>SIMATIC IPC327G (Basicbox PC)</b>	<b>6AG4 0 22 - 0 B C 2 1 - 0 A A A 1</b>
Intel Atom x64 13E Processor (up to 3.0 GHz)/w/o Audio 4GB RAM 4USB+2COM Operating system not available Driver not available Wall-mounted	
<b>Processor</b>	
Intel Atomx6413E Processor (up to 3.0 GHz)	A
Intel Atomx6413E Processor (up to 3.0 GHz)/TPM	B
Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio	X C
Intel Atomx6413E Processor (up to 3.0 GHz)/TPM/w/o Audio	D
<b>RAM</b>	
4GB RAM	X 2
8GB RAM	3
16GB RAM	4
<b>Hardware</b>	
4USB+2COM	X 1
With 4USB+4COM pin header	2
<b>Operating System</b>	
Without operating system	X 0
Windows 10 Enterprise LTSC 2019, 64Bit, MUI (De, En, Fr, It, Sp)	2
<b>Memory</b>	
Memory not available	A
256G Eco SSD	B
512G Eco SSD	C
<b>Assembly</b>	
Wall-Mounted	1
DIN-rail mounting	2

### \*Preferable configurations from stock:

Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA): no drive available RAM: 4 GB DRAM (1x4 GB); Without operating system	6AG4022-0BC21-0AA1
Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA):256G SSD RAM: 4 GB DRAM (1x4 GB); Windows 10 Enterprise LTSC 2019, 64Bit, MUI (De, En, Fr, It, Sp)	6AG4022-0BC21-2BA1
"Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA): driver not available RAM: 8 GB DRAM (1x8 GB); Without operating system;"	6AG4022-0BC31-0AA1
"Processor: Intel Atomx6413E Processor (up to 3.0 GHz)/w/o Audio Drive (SATA):256G SSD RAM: 8 GB DRAM (1x8 GB); Windows 10 Enterprise LTSC 2019, 64Bit, MUI (De, En, Fr, It, Sp)"	6AG4022-0BC31-2BA1

\* It is kept in Siemens Germany stocks.

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC 227G, Nanobox PC</b>		
<b>SIMATIC IPC 227G, Nanobox PC</b>	<b>6ES7 6 47 - 8 C A 1 1 - 2 A B 1</b>	
Atom X6413E (4-Core), 4 GB RAM, COM not available 256 GB Eco SSD, Hardware add-on not available Windows 10 IoT Enterprise 2019 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It) Mounting bracket not available		
<b>Processor/ TPM</b>		
Atom X6211E (2-Core)	X	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
<b>RAM</b>		
4 GB RAM	X	1
8 GB RAM		2
16 GB RAM		3
<b>Hardware</b>		
COM not available	X	1
1x COM		2
2x COM		3
<b>Driver</b>		
Driver not available		1
256 GB Eco SSD		2
240 GB SSD		3
480 GB SSD	X	4
<b>Hardware plugin</b>		
Hardware plugin not available	X	A
NVRAM		B
AI Accelerator		C
<b>Operating System</b>		
OS not available		A
Windows 10 IoT Enterprise 2019 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It)	X	B
Windows 10 IoT Enterprise 2021 LTSC, 64Bit, MUI (Ger, En, Es, Fr, It)		C
Industrial Edge - SIMATIC		W
<b>Assembly</b>		
No mounting bracket available		0
DIN-rail mounting	X	1
Wall-Mounted		2
Book-Montage		3
DIN-Rail with ATEX/IECEX Cat 3G Zone 2 / cULus Class I Div. 2		4
Wall-mount with ATEX/IECEX Cat 3G Zone 2 / cULus Class I Div. 2		5
Book-mount with ATEX/IECEX Cat 3G Zone 2 / cULus Class I Div. 2		6



IPC 227G



IPC227G Box PC and IPC227G Panel PC

# SIMATIC Industrial Computers and Monitors



SIMATIC IPC BX-32A

Material Type	Order No	
<b>SIMATIC IPC BX-32A (Box PC)</b>		
SIMATIC IPC BX-32A (Box PC)	6AV4 15 2-1 A A A 0 0-0 A B 0	
<b>Standard-Device</b>		
Intel Celeron 6600HLE (2.1 GHz, 2C/2T) mount not included		
4GB		
Internal drive-1 not available		
Internal drive-2 not available		
Operating system not available		
Option-1 not available		
USB-Stick (Restore-Image; D&D) included		
9-36V DC Industrial Power Supply (wide range)		
<b>Device Type</b>		
Standard device	X	2
<b>Processor</b>		
Intel Celeron 6600HLE (2.1 GHz, 2C/2T)	X	1
Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T)		3
Intel Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T)		5
Intel Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)		7
<b>Mounting Type</b>		
no mounting bracket included	X	A
DIN-Rail		B
Wall-mount		C
Book-mount		D
1 x PCIe and DIN-Rail		F
1 x PCIe and Wall-mount		G
1 x PCIe and Book-mount		H
<b>Ram/NVRAM</b>		
4GB	X	A
8GB		B
16GB		C
32GB		D
<b>Internal Drive-1 (OS)</b>		
Internal Drive-1 not available	X	0
256 GB Eco SSD		1
512 GB Eco SSD		2
<b>Internal Drive-2</b>		
Internal Drive-2 not available	X	0
<b>Operating System</b>		
Operating system not available	X	0
Windows 10 IoT Enterprise 2021 LTSC with processors Celeron, W-11155MLE, W-11555MLE		1
Windows 10 IoT Enterprise 2021 LTSC with processor W-11865MLE		2
<b>Option 1</b>		
Option 1 not available	X	A
Additional; 1 x Com (RS232/485/422) (3 in total)		B
Additional; 2 x Com (RS232/485/422) (4 in total)		C
<b>Option 2</b>		
USB-Stick (Restore-Image; D&D) included	X	
<b>Power Supply</b>		
9-36V DC Industrial Power Supply (wide range)	X	1

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
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## SIMATIC IPC BX-39A, Box PC

SIMATIC IPC BX-39A, Box PC	6AG4 142-1AAA00-0AAA00
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Standard-Device  
 Intel Celeron 6600HLE (2.1 GHz, 2C/2T) 4GB  
 Internal Drive-1 not available  
 Internal Drive-2 not available  
 Operating system not available  
 COM not available  
 USB-Stick (Restore-Image; D&D) not available  
 24V DC power supply (Premium, NAU, isolated with hold-up time)



IPC BX-39A

### Device Type

Standard Device	X	2
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### Processor

Intel Celeron 6600HLE (2.1 GHz, 2C/2T)	X	1
Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T)		3
Intel Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T)		5
Intel Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)		7

### Mounting Type

no mounting bracket available.	X	A
DIN-Rail		B
Wall-mount		C
Book-mount		D
1 x PCIe and DIN-Rail		F
1 x PCIe and Wall-mount		G
1 x PCIe and Book-mount		H
1 x PCIe and Book-mount		J
2 x PCIe and Wall-mount		K
2 x PCIe and Book-mount		L

### Ram/NVRAM

4GB	X	A
8GB		B
16GB		C
32GB		D
16GB with ECC		E
32GB with ECC		F
8GB and NVRAM (M.2 Module)		G
16GB and NVRAM (M.2 Module)		H
32GB and NVRAM (M.2 Module)		J
16GB with ECC and NVRAM (M.2 Module)		K
32GB with ECC and NVRAM (M.2 Module)		L

### Internal Drive-1 (OS)

Internal drive-1 is not available.	X	0
256 GB Eco SSD		1
512 GB Eco SSD		2
M.2 SSD 240 GB		4
M.2 SSD 480 GB		5
M.2 SSD 960 GB		6
RAID1 SSD 512 GB with Eco (SSD 2 drive 512 GB Eco must be selected)		8

### Internal Drive-2

Internal drive-2 is not available.	X	0
256 GB Eco SSD		1
512 GB Eco SSD		2
M.2 SSD 240 GB		4
M.2 SSD 480 GB		5
M.2 SSD 960 GB		6

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC BX-39A, Box PC</b>		
<b>SIMATIC IPC BX-39A, Box PC</b>	<b>6AG4 1 4 2 - 1A A 0 0 - 0 A A A 0 0</b>	
Standard-Device Intel Celeron 6600HLE (2.1 GHz, 2C/2T) 4GB Internal Drive-1 not available Internal Drive-2 not available Operating system not available COM not available USB-Stick (Restore-Image; D&D) not available 24V DC power supply (Premium, NAU, isolated with hold-up time)		
<b>Operating System</b>		
without operating system (Edge-option with OS)	X	0
Windows 10 IoT Enterprise 2021 LTSC with processors Celeron, W-11155MLE, W-11555MLE		1
Windows 10 IoT Enterprise 2021 LTSC with processor W-11865MLE		2
<b>Option 1</b>		
option-1 is not available. Additionally 1 x Com (RS232/485/422)	X	A B
<b>Option 2</b>		
USB-Stick (Restore-Image; D&D) not available USB-Stick (Restore-Image; D&D) is available.	X	A B
<b>Power Supply</b>		
24V DC Power Supply (Premium, NAU, isolated with Standby time)	X	0
24V DC Power Supply (Premium, NAU, isolated with standby time) ATEX/IECEX/UL HazLoc		7



SIMATIC IPC BX-39A and IPC PX-39A Family

# SIMATIC Industrial Computers and Monitors

Material Type	Order No	Unit Price
<b>SIMATIC IPC527G (Basic IPC)</b>		
<b>SIMATIC IPC527G</b>	<b>6AG4 0 2 5 - 0 A B 1 0 - 0 A A 0 0</b>	
Pentium G4400 (2C/2T, 3.3 GHz, 3 MB cache) 1 TB HDD 4 GB DDR4 Operating system not available 1 x PCIe x16 No additional equipment available  "2 x Gbit LAN, 4 x USB3.0, 2 x RS232/485/422, 1 x DisplayPort, 1 x VGA, 1 x Audio" PS 100/230V AC (Power cord not available)		
<b>Processor</b>		
Pentium G4400 (2C/2T, 3.3 GHz, 3 MB cache)	X	A
Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB cache)		C
Core i7-6700 (4C/8T, 3.4 (4.0) GHz, 8 MB cache)		D
<b>Drivers</b>		
1 TB HDD	X	B
128GB SSD		D
256 GB SSD		E
512 GB SSD		F
Prepared for 1 x 2.5" SATA, without drive.		L
<b>RAM</b>		
4 GB DDR4	X	1
8GB DDR4		2
16 GB DDR4		3
<b>Operating system</b>		
Operating system not available	X	0
Windows 7 Ultimate 32 bit SP1, MUI		1
Windows 7 Ultimate 64 bit SP1, MUI		2
Windows 10 Enterprise LTSB 2016, 64 bit, MUI, Pentium, Core i5		3
Windows 10 Enterprise LTSB 2016, 64 bit, MUI, Core i7		4
Windows 10 Enterprise LTSC 2019, 64 bit, MUI, Pentium, Core i5		5
Windows 10 Enterprise LTSC 2019, 64 bit, MUI, Core i7		6
<b>Expansion</b>		
1 x PCIe x16	X	A
1 x PCIe x16; 1 x PCIe x1; 2 x PCI		B
1 x PCIe x16, 1 x PCIe x4; 2 x PCIe x1		C
<b>Additional equipment</b>		
No additional equipment available	X	A
2 x RS232, 2 x USB2.0		B
1 x Gbit LAN attachment (1 PCIe slot occupied)		C
1 x Gbit LAN (1 PCIe slot occupied) and 2 x RS232, 2 x USB2.0		D



SIMATIC IPC 527 Box PC

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
<b>SIMATIC IPC 527G, Box PC</b>	
<b>* IPC 527G Basic Box PC</b>	
Pentium G4400 (2C/2T, 3.3 GHz, 3 MB Cache); 1 TB HDD; RAM: 4 GB DDR4 Operating system not available 1 x PCIe x16 1 x PCIe x12 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0AB10-0BB0
Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache); 1 TB HDD; RAM: 8 GB DDR4 Operating system not available 1 x PCIe x16 1 x PCIe x12 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0CB20-0BB0
Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache); 1 TB HDD; RAM: 8 GB DDR4 Windows 7 Ultimate 64 bit SP1, MUI; 1 x PCIe x16; 1 x PCIe x1; 2 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0CB20-2BB0
Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache); 128 GB SSD; RAM: 8 GB DDR4 Operating system not available 1 x PCIe x16 1 x PCIe x12 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0CD20-0BB0
Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache); 128 GB SSD; RAM: 8 GB DDR4 Windows 7 Ultimate 64 bit SP1, MUI; 1 x PCIe x16; 1 x PCIe x1; 2 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0CD20-2BB0
Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache); 256 GB SSD; RAM: 8 GB DDR4 Windows 7 Ultimate 64 bit SP1, MUI; 1 x PCIe x16; 1 x PCIe x1; 2 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0CE20-2BB0
*Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache); 256 GB SSD; RAM: 8 GB DDR4 Windows 10 Enterprise LTSB 2016, 64 bit, MUI, for Pentium, Core i5; 1 x PCIe x16; 1 x PCIe x1; 2 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0CE20-3BB0
Core i7-6700 (4C/8T, 3.4 (4.0) GHz, 8 MB Cache); 512 GB SSD; RAM: 8 GB DDR4 Windows 7 Ultimate 64 bit SP1, MUI; 1 x PCIe x16; 1 x PCIe x1; 2 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0DF20-2BB0
Core i7-6700 (4C/8T, 3.4 (4.0) GHz, 8 MB Cache); 512 GB SSD; RAM: 8 GB DDR4 Windows 10 Enterprise LTSB 2016, 64 bit, MUI, for Core i7; 1 x PCIe x16; 1 x PCIe x1; 2 x PCI 2 x RS232, 2 x USB2.0 included	6AG4025-0DF20-4BB0
Core i5-6500 (4C/4T, 3.2 (3.6) GHz, 6 MB Cache); 256 GB SSD; 8 GB DDR4; Windows 10 Enterprise LTSC 2019, 64 bit, MUI, for Pentium, Core i5; 1 x PCIe x16, 1 x PCIe x4; 2 x PCIe x1; Additional hardware not available	6AG4025-0CE20-5CA0
Core i7-6700 (4C/8T, 3.4 (4.0) GHz, 8 MB Cache); 256 GB SSD; 8 GB DDR4; Windows 10 Enterprise LTSC 2019, 64 bit, MUI, for Core i7; 1 x PCIe x 16, 1 x PCIe x4; 2 x PCIe x1; Additional hardware not available	6AG4025-0DE20-6CA0

\* It is kept in Siemens Germany stocks.

# SIMATIC Industrial Computers and Monitors

Material Type	Order No	
<b>SIMATIC IPC BX-35A (BoxPC)</b>		
SIMATIC IPC BX-35A (Box PC)	6ES7 647-0JC10-0YA2	
<b>Standard Device</b> Orin NX 8GB 70Tops(int8 s) Driver not available 4x Gbe RJ45 with PoE, 3x USB 3.1 TypeA, 1x USB 2.0 Micro USB, 1x DP1.4 1x RS232/RS422/RS485, 4x DI 4x DO, 1x CAN FD Operating System not available 3x M.2 expansion slots		
<b>Device</b>		
Standard Device	X	7
<b>SOM (System on Modules)</b>		
Orin NX 8GB 70Tops(int8 s)	X	
Orin NX 16GB 100Tops(int8 s)		2
<b>Driver</b>		
Driver not available	X	0
256GB M.2 SSD		1
512GB M.2 SSD		2
1TB M.2 SSD		3
<b>Operating System</b>		
Operating System not available	X	A
SIMATIC Industrial OS V3.5.1		B



SIMATIC IPC BX-35A

# SIMATIC Industrial Computers and Monitors



IPC 627E

Material Type	Order No
<b>SIMATIC IPC 627E, Box PC</b>	
<b>SIMATIC IPC 627E, Box PC</b>	<b>6AG4 1 3 1 - 3 A A A 0 0 - 8 A A 0 0</b>
<b>SIMATIC IPC627E (Box PC)</b> Celeron G4900 (2C/2T, 3.1GHz, 2MB Cache; VT-d); HDD 2.5" SATA 320 GB internal; 4 GB DDR4-2666 (1x4); DC 24V industrial power supply; OS not availableExpansion not available (SW)Expansion not available HW)2x PCIUHD Graphics on board2x DP1x DVI-D; 3x Gigabit Ethernet (IE/PN) RJ45; 6x USB 3.1 Gen.2; 1x serial (COM1); RAID- Controller on board; Watchdog; Temperature/Fan monitoring;	
<b>Processor</b>	
Celeron G4900 (2C/2T, 3.1GHz, 2MB Cache; VT-d);	X A
Celeron G4900 (2C/2T, 3.1GHz, 2MB Cache; VT-d); NVRAM;	E
Core i3-8100 (4C/4T, 3.6GHz, 6MB Cache, VT-d);	C
Core i3-8100 (4C/4T, 3.6GHz, 6MB Cache, VT-d); NVRAM;	D
Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12MB Cache, VT-d, AMT);	G
Core i7-8700 (6C/12T, 3.2(4.6)GHz, 12MB Cache, VT-d, AMT); NVRAM;	H
<b>Driver</b>	
HDD 2.5" SATA 320 GB internal;	X A
SSD 2.5" SATA 480 GB internal;	C
SSD 2.5" SATA 960 GB internal;	D
RAID1 2x SSD 2.5 inch 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 media not available;	S
Without drivers (internal: 2x2.5" mounting options; cables included);	Y
<b>Main memory</b>	
4 GB DDR4-2666 (1x4);	X
8 GB DDR4-2666 (2x4);	
16 GB DDR4-2666 (2x8);	
32 TR DDR4-2666 (2x16);	
64 GB DDR4-2666 (4x16);	
<b>Country-specific type / power supply</b>	
DC 24V industrial power supply;	X 0
Industrial PS with AC 110/230V Namur; without power cable;	1
Industrial PS with AC 110/230V Namur; power cable Europe;	2
Industrial PS with AC 110/230V Namur; power cable USA;	3
Industrial PS with AC 110/230V Namur; power cable China;	4
DC 24V industrial power supply; System certification UL HazLoc;	5

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC 627E, Box PC</b>		
SIMATIC IPC 627E, Box PC	6AG4 131-3AAA00-8AA00	
<b>Operating system</b>		
Windows 10 Enterprise 2016 LTSC, 64Bit, MUI (En, Ger, Fr, It, Sp), for Celeron and i3;		C
Windows 10 Enterprise 2016 LTSC, 64Bit, MUI (En, Ger, Fr, It, Sp), for Core i7;		1
Windows 10 IoT Enterprise 2019 LTSC, 64Bit, MUI (En, Ger, Fr, It, Sp), for Celeron and i3;		2
Windows 10 IoT Enterprise 2019 LTSC, 64Bit, MUI (En, Ger, Fr, It, Sp), for Core i7;		3
Windows 10 IoT Enterprise 2021 LTSC, 64Bit, MUI (en,de,fr,it,sp); for Celeron and i3;		4
Windows 10 IoT Enterprise 2021 LTSC, 64Bit, MUI (en,de,fr,it,sp); for Core i7; Operating system not available;	X	E E
<b>Expansion (SW)</b>		
Expansion not available (SW);	X	A
SIMATIC IPC DiagMonitor has been added;		B
SIMATIC IPC Image & Partition Renderer has been added;		C
SIMATIC IPC DiagMonitor, Image & Partition Creator added;		D
TPM Module;		X
<b>Plugin (HW)</b>		
Expansion not available (HW);	X	A
2x USB 2.0 (1 slot occupied);		B
CMOS Battery-less Device (CR2450N);		C
<b>Plugin (HW)</b>		
2x PCI;	X	0
1x PCIe (x16), 1 x PCI;		1
2x PCIe (x16, x4);		2
3x PCI, 2x PCIe (x16, x4);		3
5x PCIe (1x16, 2x4, 2x1);		4
2x PCI; painted housing;		5
1x PCIe (x16), 1 x PCI; painted case;		6
2x PCIe (x16, x4); painted case;		7



SIMATIC IPC Family

# SIMATIC Industrial Computers and Monitors



SIMATIC IPC BX-56A

Material Type	Order No
<b>SIMATIC IPC BX-56A (BoxPC)</b>	
<b>SIMATIC IPC BX-56A (Modular Box PC)</b>	<b>6AG4 132-0DA000-0AX7</b>
Pentium G7400E.65W; 2C(2P+0E)4T, 3.6 GHz; with 24VDC, 400W power supply Driverless base module 8 GB DDR5(1*8) hardware plug-in not available Power cable not available Without BM operating system (USB-Stick D&D not available) Expansion Module not available Expansion module and storage not available Mainboard (Chipset H610E); 2x DP; Audio; 2x SIM slots 2x Gigabit Ethernet (IE/PN) RJ45; 4x USB 3.1 Gen.2; 2x serial (COM1); 2x M.2 flex modules slots onboard; Watchdog, Temp-/Fan-monitoring;	
<b>Processor and Power Supply</b>	
Pentium G7400E, 47W; 2C(2P+0E)4T, 3.6 GHz; with 9-36VDC, 220W power supply	A
Core i3-13100TE, 35W; 35W; 4C(4P+0E)8T, 2.4(4.1) GHz; with 9-36VDC, 220W power supply	B
Core i5-13500E, 65W; with 65W; 14C(6P+8E)20T, 2.4(4.6); with 9-36VDC, 220W power supply	C
Pentium G7400E.65W; 2C(2P+0E)4T, 3.6 GHz; with 24VDC, 400W power supply	X D
Core i3-13100TE, 35W; 4C (4P+0E)8T, 2.4(4.1) GHz; with 24VDC, 400W power supply	E
Core i5-13500E, 65W; 14C(6P+8E)20T, 2.4(4.6) GHz; with 24VDC, 400W DC power supply	F
Core i3-13100TE, 35W; 4C (4P+0E)8T, 2.4(4.1) GHz; with 9-36VDC, 220W power supply (fanless)	N
Core i3-13100TE, 35W; 4C (4P+0E)8T, 2.4(4.1) GHz; with 24VDC, 400W power supply (fanless)	P
Base Module and CPU not available; power supply not available	X
<b>Driver</b>	
Driverless base module	X
512 GB 2.5" SATA SSD	
1TB 2.5" SATA SSD	
Base module and driver not available	
<b>RAM</b>	
8 GB DDR5(1*8)	X 0
16 GB DDR5(1*16)	2
32 GB DDR5(1*32)	4
64 GB DDR5(2*32)	6
Base Module and RAM not available	8
<b>Plugin (HW)</b>	
hardware plugin not available	X 0
NVRAM (M.2)	1
<b>Power Cable</b>	
Power cable not available	0
<b>Operating system (and activated)</b>	
Without UN operating system (USB-Stick D&D not available)	X A
Without UN operating system (USB-stick D&D available)	B
Windows 10 IoT Enterprise LTSC 2021, 64-bit, MUI, for Pentium Core i3, Core i5 (USB-Stick Restore-Image; D&D not available)	C
Windows 10 IoT Enterprise LTSC 2021, 64 bit, MUI, for Pentium, Core i3, Core i5 (USB-stick Restore-Image; D&D available)	D
Base Module and Software not available	X
<b>Expansion</b>	
EM2: PCIe x 16 gen4 and PCIe x 4	
Expansion Module not available	B X
<b>Storage in Expansion Module (EM)</b>	
EM storage not available	0
Expansion module and storage not available	X 7

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
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## SIMATIC IPC BX-59A (BoxPC)

SIMATIC IPC BX-59A (Modular Box PC)	6AG4 1333-0AAA000-0A X7
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Core i5-13500E, 65W; 14C(6P+8E)/20T; 2.4(4.6) GHz; with 24VDC, 400W power supply  
 Driverless base module 8  
 GB DDR5(1\*8)  
 hardware plug-in not available (M.2) Power cable not available  
 Without BM operating system (USB-Stick D&D not available) Expansion Module not available  
 Expansion module and storage not available Mainboard (Chipset R680E);  
 2x DP; Audio; 2x SIM slots;  
 4x Gigabit Ethernet (IE/PN) RJ45;  
 6x USB 3.1 Gen.2; 1x USB-C, 2x serial (COM); 2x M.2 flex modules slots onboard;  
 RAID-Controller onboard; Watchdog,  
 Temp-/Fan-monitoring;



SIMATIC IPC BX-59A

### Processor and Power Supply

Core i5-13500E, 65W; 14C(6P+8E)/20T; 2.4(4.6) GHz; with 24VDC, 400W power supply	X	A
Core i7-13700TE, 35W; 16C(8P+8E)/24T, 1.1(4.8) GHz; with 24VDC, 400W power supply		B
Core i7-13700E, 65W; 16C(8P+8E)/24T, 1.9(5.1) GHz; with 24VDC, 400W power supply		C
Core i9-13900E, 65W; 24C(8P+16E)/32T, 1.8(5.2) GHz; with 24VDC, 400W power supply		D
Core i5-13500E, 65W; 14C(6P+8E)/20T; 2.4(4.6) GHz; with 9-36VDC, 220W power supply		E
Core i7-13700TE, 35W; 16C(8P+8E)/24T, 1.1(4.8) GHz; with 9-36VDC, 220W power supply		F
Core i7-13700E, 65W; 16C(8P+8E)/24T, 1.9(5.1) GHz; with 9-36VDC, 220W power supply		G
Core i9-13900E, 65W; 24C(8P+16E)/32T, 1.8(5.2) GHz; with 9-36VDC, 220W power supply		H
Core i7-13700TE, 35W; 16C(8P+8E)/24T, 1.1(4.8) GHz; with 24VDC, 400W power supply (fanless)		N
Core i7-13700TE, 35W; 16C(8P+8E)/24T, 1.1(4.8) GHz; with 9-36VDC, 220W power supply (fanless)		P
Base Module and CPU not available; power supply not available	X	

### Driver

Driverless base module	X	A
512 GB 2.5" SATA SSD		B
1TB 2.5" SATA SSD		C
512 GB M.2 NVME onboard SSD		D
1 TB M.2 NVME onboard SSD		E
512 GB M.2 NVME onboard SSD with 1*512 GB M.2 NVME on 1 SIMATIC IPC slider		F
512 GB M.2 NVME onboard SSD with 1*1TB M.2 NVME on 1 SIMATIC IPC slider		G
RAID1 2*512 GB M.2 NVME on 2 SIMATIC IPC sliders		H
512 GB M.2 NVME onboard SSD+ RAID1 2*512 GB M.2 NVME on 2 SIMATIC IPC sliders		J
480 GB 2.5" SATA SSD (PLP)		K
960 GB 2.5" SATA SSD (PLP)		L
RAID1 2*1TB M.2 NVME on 2 SIMATIC IPC sliders		M
512 GB M.2 NVME SSD on SIMATIC IPC slider		N
Base module and driver not available	X	X

### RAM

8 GB DDR5(1*8)	X	0
16 GB DDR5(1*16) ECC		1
16 GB DDR5(1*16)		2
32 GB DDR5(1*32) ECC		3
32 GB DDR5(1*32)		4
64 GB DDR5(2*32) ECC		5
64 GB DDR5(2*32)		6
32 GB DDR5(2*16)		7
Base Module and RAM not available		8

### Plugin

Hardware plugin not available (M.2)	X	0
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# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IPC BX-59A (BoxPC)</b>		
<b>SIMATIC IPC BX-59A (Modular Box PC)</b>	<b>6AG4 1333-0AA00-0AX7</b>	
<p>Core i5-13500E, 65W; 14C(6P+8E)/20T; 2.4(4.6) GHz; with 24VDC, 400W power supply            Driverless base module 8            GB DDR5(1*8)            hardware plug-in not available (M.2) Power            cable not available            Without UN operating system (USB-Stick D&amp;D not available) Expansion Module not available            Expansion module and storage not available Mainboard (Chipset R680E);            2x DP; Audio; 2x SIM slots;            4x Gigabit Ethernet (IE/PN) RJ45;            6x USB 3.1 Gen2; 1x USB-C, 2x serial (COM); 2x M.2            flex modules slots onboard;            RAID-Controller onboard; Watchdog,            Temp-/Fan-monitoring;</p>		
<b>Power Cable</b>		
Power cable not available	X	0
<b>Operating Systems (and activated)</b>		
Without UN operating system (USB-Stick D&D not available)	X	A
Without UN operating system (USB-Stick D&D available)		B
Windows 10 IoT Enterprise LTSC 2021, 64 bit, MUI, for Core i5 ((USB-Stick D&D not available)		C
Windows 10 IoT Enterprise LTSC 2021, 64 bit, MUI for Core i5 ((USB-Stick D&D available)		D
Windows 10 IoT Enterprise LTSC 2021, 64 bit, MUI, for Core i7, for Core i9 ((USB-Stick D&D not available)		E
Windows 10 IoT Enterprise LTSC 2021, 64 bit, MUI, for Core i7, for Core i9 ((USB-Stick D&D available)		F
Industrial Edge -SIMATIC		W
Base Module and Software not available		X
<b>Expansion Module (EM)</b>		
EM2: PCIe x 16 gen4 and PCIe x 4 gen4		B
EM2: PCIe x 16 gen4 and PCIe x 4 with pre-installed NVIDIA L4 GPU		M
EM2: PCIe x 16 + graphic card NVIDIA L4 and PCIe x 4 + 1 dual-port 10GB fiber card; with 1 SFP+ Transceiver		N
EM2: PCIe x 16 gen4 and PCIe x 4 with pre-installed NVIDIA RTX A4000 GPU		P
Expansion Module not available	X	X
<b>Storage in Expansion Module (EM)</b>		
EM storage not available		0
Expansion module and storage not available	X	7



SIMATIC IPC BX-59A

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC IFP Basic</b>		
<b>SIMATIC IFP1200 Basic</b>	<b>6AV7 8 6 2 - 2 B C 0 0 - 0 A A A 0 0</b>	
Screen size: 12" (resolution: 1280x800) Graphics interfaces; 1 x DP, 1 x VGA Operation function: Touch screen (analog resistive) Power supply; 24V DC Interfaces; 2 x USB2.0 (downstream); 1 x USB (for Touch)		
<b>Screen size</b>		
12" (resolution: 1280x800)	X	C
15" (resolution 1366x768)		L
19" (resolution 1366x768)		E
22" (resolution 1920x1080)		I
<b>Cable sets</b>		
Industrial USB cable 3m		6AV7860-0CH30-0AA0
Industrial USB cable 5m		6AV7860-0CH50-0AA0
Industrial DisplayPort cable 3m		6AV7860-0DH30-0AA0
Industrial DisplayPort cable 5m		6AV7860-0DH50-0AA0



SIMATIC Industrial Flat Panel Family

# SIMATIC Industrial Computers and Monitors



Material Type	Order No	
<b>SIMATIC Industrial Flat Panel Monitor V2 (Multitouch, FullHD)</b>		
<b>SIMATIC Industrial Flat Panel Monitor IFP1200</b>	<b>6AV7 8 6 3-1 M A 0 0 - 2 A A 0 0</b>	
SIMATIC Industrial Flat Panel Monitor IFP1200 Screen size 12" (1280x800) Standard Possible up to 5m distance Flat mount, Standard Siemens design DVI-D, DisplayPort Interface Dimmable, 2x USB rear EX Zone 2/22; marine certificates/approvals 24 Volt DC, galvanically insulated		
<b>Screen size</b>		
12" (1280x800)		1
15" (FullHD/PRO, 1920x1080)	X	5
19" (FullHD, 1920x1080)		6
22" (FullHD, 1920x1080)		4
24" (FullHD, 1920x1080)		7
<b>Special Functions</b>		
Standard up to 5m distance possible		0
Extended up to 100m distance (HDBasedT)		1
Ethernet Monitor over IP-Protocol		2
<b>Design</b>		
Standard Siemens design		A
Neutral design, no branding		N
<b>Option</b>		
IFP V2 AC Power Supply module for 100-240V AC - 24V DC 60W; Not suitable for PRO devices		6AV7860-3PA00-0AA0 C01
<b>Accessories For standard types up to 5 meters</b>		
DVI-D cable industrial grade 3m		6AV7860-0BH30-0AA0
DVI-D cable industrial grade 5m		6AV7860-0BH50-0AA0
USB cable industrial grade 3m		6AV7860-0CH30-0AA0
USB cable industrial grade 5m		6AV7860-0CH50-0AA0
DisplayPort cable industrial grade 3m		6AV7860-0DH30-0AA0
DisplayPort cable industrial grade 5m		6AV7860-0DH50-0AA0
<b>Accessories: (HDBaseT) Cable Set for extended types</b>		
10m (Cat6 Cable; Transceiver HDBaseT; Mounting accessories,		6AV7860-1EX21-0AB1
Cable Set 15m (Cat6 Cable; Transceiver HDBaseT; Assembly accessories, USB/DP cable)		6AV7860-1EX21-5AB1
Cable Set 20m (Cat6 Cable; Transceiver HDBaseT; Assembly accessories, USB/DP cable)		6AV7860-1EX22-0AB1
Cable Set 30m (Cat6 Cable; Transceiver HDBaseT; Assembly accessories, USB/DP cable)		6AV7860-1EX23-0AB1
CAT6A Cable, available length, min 20m, max. 1000m, unconfigured, unplugged CAT6 plug for your own cable configuration, 2 pcs		6XV1878-2C 6AV7860-1EY00-0AA0
<b>Cable sets</b>		
Transceiver Module (HDBaseT, without cable, with mounting accessory, usb/dp cable 0.5m)		6AV7860-3EH00-0AA0
CAT6 cable 10m for HDBaseT tested		6AV7860-0EH01-0AA0
CAT6 cable 15m for HDBaseT tested		6AV7860-0EH01-5AA0
CAT6 cable 20m for HDBaseT tested		6AV7860-0EH02-0AA0
CAT6 cable 30m for HDBaseT tested		6AV7860-0EH03-0AA0

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
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## Industrial Thin Client SIMATIC ITC V3

<b>Thin Client V3 and Thin Client PRO</b>	<b>6AV6 6 46 - 1 B A 1 5 - 0 A A A 1</b>
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**SIMATIC ITC1500 V3**  
 15" Display (1366x768 Pixels) Standard, Panel mount  
 Projective Capacitive Multi Touch TFT Panel, mouse, keyboard, USB memory connection via 4 x USB, client connection to Operator Panel and WinCC RT Advance PC with Sm@rtServer, Web installed on Windows Server  
 Terminal connection to Navigator via RDP, connection to SAP, MES or office applications via RDP protocol, VNC protocol support, Citrix support, PDF reader application, web browser feature (HTML5, XML, CSS, Javascript support) Runtime / Host PC or operator panel.

**Screen size / resolution**

15" Screen (1344x768 pixels)	X	1 5 0
19" Screen (1344x768 pixels)		1 8 0
22" Screen (1920x1080 pixels)		2 2 1

**Mounting type**

Panel mounting	X	A
IP65 all-round IP65 protection, suitable for pedestal		B
IP65 all-round IP65 protection, suitable for carrying handle, expansion module cannot be installed		C
IP65 all-round IP65 protection, suitable for carrying handle, expansion module can be installed		D

**Design**

Standard	X	A
Neutral		N



## SIMATIC WinCC V17 Runtime Advanced Packages (for Panel PC, IPC, Rack PC and Box PC)

<b>SIMATIC HMI, WinCC Runtime Advanced Package</b>	<b>6AV2 1 1 4 - 2 B A 0 7 - 0 A A 0</b>
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IPC127E/227E/277E/277G/327G/377G/BX-21A/ BX-32A/BX-39A/PX-32A/ PX-39A/277G(PRO)/PX-39A(PRO) BX-56A/BX-59A/527G /627E, IPC347G/ RW-543A/ RC-545A/RW-545A/RS-545A/547J/647E/847E/1047E can be ordered together with IPC MD-34A. SIMATIC WinCC V17 Runtime Advanced 128 PowerTags, archive and recipe option licenses included.

**Software Components**

128 PowerTags (RT)		B
512 PowerTags (RT)		D
2048 PowerTags (RT)		F
4096 PowerTags (RT)		H
8192 PowerTags (RT)		K

## SIMATIC WinCC V8.1 Runtime Packages (for Panel PC/IPC/Rack PC and Box PC)

<b>SIMATIC HMI, WinCC V8.1 Package</b>	<b>6AV6382 -2 C A 0 8 - 1 A X 0</b>
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IPC127E/227E/277E/277G/327G/377G/BX-21A/ BX-32A/BX-39A/ PX-32A/PX-39A/277G (PRO)/PX-39A(PRO) BX-56A/BX-59A/527G /627E, IPC347G/ RW-543A/RC-545A/RW-545A/RS-545A/547J/647E/847E/1047E, IPC Can be ordered together with MD-34A.\*

**Software Components**

Client		A
128 PowerTags (RT 128)	X	C
512 PowerTags (RT 512)		D
2048 PowerTags (RT 2048)		E
8K PowerTags (RT 8K)		H
64K PowerTags (RT 64K)		F

\* You can use it for Scada project suitable for IPC's performance.

# SIMATIC Industrial Computers and Monitors



Material Type	Order No
<b>SIMATIC WinCC V20 Runtime Professional Packages (for Panel PC, IPC, Rack PC and Box PC)</b>	
SIMATIC HMI, WinCC V19 Runtime Professional Package	6AV2 1 1 5 - 2 B A 02 - 4 AA 0
IPC127E/227E/277E/277E/227G/277G/327G/377G/BX-21A/ BX-32A/BX-39A/PX-32A/ PX-39A/277G(PRO)/PX-39A(PRO)/ BX-56A/BX-59A/527G /627E only, IPC347G/ RW-543A/ RC-545A, RW-545A/RS-545A/547J/647E/847E/1047E, IPC MD-34A can be ordered together with <b>Software Components</b>	
128 PowerTags (RT)	X B
512 PowerTags (RT)	D
2048 PowerTags (RT)	F
4096 PowerTags (RT)	H
8192 PowerTags (RT)	K
65536 PowerTags (RT)	M
WinCC Runtime Professional V20 Client	6AV2117-2DB02-4AA0

\* You can use it for Scada project suitable for IPC's performance.

<b>SIMATIC WinCC Unified V20 RT PC Packages (for Panel PC/IPC/Rack PC and Box PC)</b>	
Parameter control option and archive license are included with the IPC package. Its content varies according to the number of Unified RT licenses. IPC 127E/227E/277E/277E/227G/277G/327G/377G/BX-32A/BX-39A/PX-32A/PX-39A/277G (PRO)/PX-39A(PRO) /677E/527G /627E,IPC 347G/RW-543A/ RW-545A/547J/647E/847E/1047E can be ordered together with IPC MD-34A.*	
WinCC Unified V19 PC RT 150 (includes WinCC Unified Logging Tags 100)	6AV2155-3DB02-4AA0
WinCC Unified V19 PC RT 500 (includes WinCC Unified Logging Tags 200)	6AV2155-1EB02-4AA0
WinCC Unified V19 PC RT 1k (includes WinCC Unified Logging Tags 500)	6AV2155-2EB02-4AA0
WinCC Unified V19 PC RT 2.5k (includes WinCC Unified Logging Tags 500)	6AV2155-2MB02-4AA0
WinCC Unified V19 PC RT 5k (includes WinCC Unified Logging Tags 1000)	6AV2155-1FB02-4AA0
WinCC Unified V19 PC RT 10k (includes WinCC Unified Logging Tags 1000)	6AV2155-2FB02-4AA0
WinCC Unified V19 PC RT 50k (includes WinCC Unified Logging Tags 1000)	6AV2155-1GB02-4AA0

\* You can use it for Scada project suitable for IPC's performance.



SIMATIC Industrial Panel PC Family



# SITRAIN Trainings

**SIEMENS**

# SITRAIN

## Industrial Automation Trainings Department

No:	Code:	Course Name:	Duration:	
<b>Course Group: SIMATIC S7 Classic</b>				
1	S7-SYS1	SIMATIC S7-300/400 System 1	5 days	
2	S7-SYS2	SIMATIC S7-300/400 System 2	5 days	
3	S7-SYS3	SIMATIC S7-300/400 System 3	5 days	
4	S7-ANA	SIMATIC S7-300/400 Analog and PID	5 days	
5	S7-SRV1	SIMATIC S7-300/400 Service & Workshop 1	5 days	
6	S7-SRV2	SIMATIC S7-300/400 Service & Workshop	5 days	
7	S7-SRV3	SIMATIC S7-300/400 Service & Workshop 3	5 days	
8	ST-PRO1	SIMATIC S7-300/400 Program 1	5 days	
9	ST-PRO2	SIMATIC S7-300/400 Program 2	5 days	
10	ST-PRO3	SIMATIC S7-300/400 Program 3	5 days	
11	ST-7CFC	SIMATIC S7-300/400 CFC Programming language	3 days	
12	ST-7GRAPH	Process Control with SIMATIC S7 Graph	3 days	
13	ST-7SCL	SIMATIC S7-300/400 SCL Programming language	3 days	
14	ST-7H400H	SIMATIC S7-400H Redundant System	2 days	
<b>Course Group: SIMATIC S7 Safety Classic</b>				
15	ST-PPDS	Configuration and Programming with SIMATIC S7 Distributed Safety	3 days	
<b>Course Group: SIMATIC S7 TIA Portal</b>				
16	TIA-MICRO1	SIMATIC S7-1200 Basic Level	3 days	
17	TIA-SYSUP	SIMATIC S7 TIA Portal S7-1500 Upgrade	5 days	
18	TIA-PRO1	SIMATIC S7-1500 TIA Portal Program 1	5 days	
19	TIA-PRO2	SIMATIC S7-1500 TIA Portal Program 2	5 days	
20	TIA-PRO3	SIMATIC S7-1500 TIA Portal Program 3	5 days	
21	TIA-SERV1	SIMATIC S7-1500 TIA Portal Service 1	5 days	
22	TIA-SERV2	SIMATIC S7-1500 TIA Portal Service 2	5 days	
23	TIA-GRAPH	SIMATIC PLC programming with TIA Portal S7-	3 days	
24	TIA-SCL1	SIMATIC TIA Portal SCL Programming 1	3 days	
<b>Course Group: SIMATIC S7 Safety TIA Portal</b>				
25	TIA-SAFETY	Programming fail-safe controllers with STEP 7 Safety in TIA Portal	3 days	
<b>Course Group: SIMATIC PCS7</b>				
26	ST-PCS7SY1	SIMATIC PCS7 System 1	5 days	
27	ST-PCS7SY2	SIMATIC PCS7 System 2	5 days	
28	ST-PCS7SAF	SIMATIC PCS 7 Process Safety	3 days	
<b>Course Group: SIMATIC NET Classic</b>				
29	IK-PBSYS	SIMATIC S7 PROFIBUS System	3 days	
30	IK-PBSERV	PROFIBUS Service	3 days	
31	IK-PNSYS	SIMATIC S7 PROFINET System	3 days	
32	IK-IWLANSYS	Industrial Wireless LAN System	2 days	
33	IK-IESYS	SIMATIC S7 Industrial Ethernet	4 days	
34	IK-OPCSYS	Communication with OPC - System	3 days	
<b>Course Group: SIMATIC NET TIA Portal</b>				
35	IK-TIAPN	PROFINET and IP-based Communication with SIMATIC	5 days	
<b>Course Group: SIMATIC HMI Classic</b>				
36	ST-BWINCCS	SIMATIC WinCC System 1	5 days	
37	ST-BWINOND	SIMATIC WinCC System 2	5 days	

# SITRAIN

## Industrial Automation Trainings Department

No:	Code:	Course Name:	Duration:	
<b>Course Group: SIMATIC HMI TIA Portal</b>				
38	TIA-WCCM	SIMATIC TIA Portal WinCC Machine Level	3 days	
39	TIA-WCCS	SIMATIC TIA Portal WinCC SCADA	5 days	
40	TIA-UWCC1	SIMATIC WinCC Unified 1, System Course	3 days	
<b>Course Group: SINUMERIK</b>				
41	NC-84SL-SK	SINUMERIK 840D sl Service	5 days	
42	NC-8x0D-PR	SINUMERIK 810D/840D Programming	5 days	
43	NC-8x0D-SV	SINUMERIK 810D/840D Maintenance and Service	5 days	
44	NC-84SL-SIP	SINUMERIK 840D sl Service & Startup	10 days	
<b>Course Group: SINUMERIK Safety</b>				
45	NC-84SLSIS	SINUMERIK 840D sl, Safety Integrated Maintenance and Service	5 days	
<b>Course Group: SIMOTION</b>				
46	MC-SMO-PM	SIMOTION - Programming and Commissioning	5 days	
47	MC-SMO-PA	SIMOTION - Advanced Programming	5 days	
48	TIA-MC	SIMATIC - Motion Control with TIA Portal	5 days	
<b>Course Group: SINAMICS</b>				
49	DR-G12-PM	SINAMICS G120 - Parameters and Commissioning	3 days	
50	DR-S12-PM	SINAMICS S120 - Parameters and Commissioning - Starter	5 days	
51	DR-S12-PMT	SINAMICS S120 - Parameters and Commissioning - TIA Portal	5 days	
52	DR-S12-DG	SINAMICS S120 - Diagnostics and Service	5 days	
<b>Course Group: SIMATIC Sensors Classic</b>				
53	SE-RFID	RFID - SIMATIC RF System	2 days	

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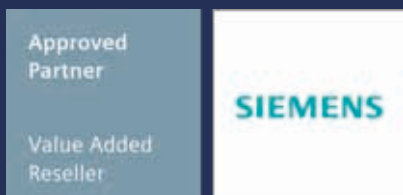
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