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Ordering overview for Industrial Remote Communication – Telecontrol

Remote Terminal Units (RTUs)					
RTUs based on the SIMATIC S7-1200 Basic Controller					
	Application	Product	Communication protocol	Comments	Article No. *
	For remote stations (RTUs)	SIMATIC STEP 7 Basic V14 (TIA Portal) for the configuration and programming of the S7-1200 RTU; floating license Software for TIA Portal and documentation on DVD, 6 languages (de, en, it, fr, sp, ch); Operating systems: Windows 7 (32/64-bit), Windows 8 SP1 (64-bit), license key on USB stick; configuration of SIMATIC S7-1200 and SIMATIC Basic Panels	TeleControl Basic	Engineering software	6ES7822-0AA04-0YA5
		Communication processor CP 1242-7 for connecting SIMATIC S7-1200 to the 2G mobile wireless network (GSM/GPRS); please note national approvals		GPRS operation with fixed IP addresses and dynamic IP addresses with standard mobile phone contract	6GK7242-7KX31-0XE0
		Communication processor CP 1243-7 for connecting SIMATIC S7-1200 to the 4G mobile wireless network (LTE); please note national approvals		Operation with with fixed IP addresses and dynamic IP addresses with standard mobile phone contract (EU versions)	6GK7243-7KX30-0XE0
		(US version)		(US version)	6GK7243-7SX30-0XE0
		Communication processor CP 1243-1 for connecting SIMATIC S7-1200 to TeleControl Server Basic or security applications according to Industrial Security concept (Firewall and VPN)	DNP3	6GK7243-1BX30-0XE0	
		Communication processor CP 1243-1 DNP3 for connecting SIMATIC S7-1200 to a control center via the DNP3 protocol		6GK7243-1JX30-0XE0	
		Communication processor CP 1243-1 IEC for connecting SIMATIC S7-1200 to a control center via the IEC 60870-5-104 protocol		6GK7243-1PX30-0XE0	
		Communication processor CP 1243-8 IRC for operating a SIMATIC S7-1200 in the TeleControl Professional system for SINAUT ST7; station type: RTU; WAN connections: 1) Ethernet, 2) Additionally expandable with TS module RS232 or TS module MODEM or TS module GSM or TS module ISDN; operation with TIM modules possible	SINAUT ST7	Connection to remote networks via external industrial router, e.g. SCALANCE M (see Remote Networks below)	6GK7243-8RX30-0XE0
		TS modules; SIMATIC S7, TS modules for SIMATIC TeleService. Power supply via TS ADAPTER IE Basic/Adv or CP 1243-8 IRC.			
		TS module RS232		6ES7972-0MS00-0XA0	
		TS module MODEM	Connection to TS Adapter IE Basic/Advanced or CP 1243-8 IRC	6ES7972-0MM00-0XA0	
		TS module ISDN		6ES7972-0MD00-0XA0	
		TS module GSM, please note national approvals		6GK7972-0MG00-0XA0	
RTUs based on the SIMATIC ET 200SP Distributed Controller					
	For remote stations (RTUs)	Communication processor CP 1542SP-1 IRC for connection of a SIMATIC ET 200SP Distributed Controller as a Remote Terminal Unit (RTU) to a control center system with the DNP3, IEC 60870-5-104 or TeleControl Basic protocols.	DNP3, IEC 60870-5-104, TeleControl Basic	Connection to remote networks via external industrial routers e.g. SCALANCE M (see under Remote Networks)	6GK7542-6VX00-0XE0
RTUs based on the SIMATIC S7-300 and S7-400 Advanced Controllers					
	For the remote stations (RTUs)	With interfaces for telecontrol protocols via a conventional WAN or an IP-based network (WAN or LAN)			
		SINAUT Engineering Software V5.5 For ST7 and DNP3 TIM modules, consisting of SINAUT ST7/DNP3 configuration and diagnostics software for STEP7 V5.5, SINAUT TD7 block library	SINAUT ST7 DNP3	Engineering software	6NH7997-0CA55-0AA0
		SINAUT Engineering software V5.5 upgrade			6NH7997-0CA55-0GA0
		TIM 3V-IE; Interfaces: 1 x RS232, 1 x RJ45	SINAUT ST7	Can be used as RTU	6NH7800-3BA00
		TIM 3V-IE Advanced; Interfaces: 1 x RS232, 1 x RJ45			6NH7800-3CA00
		TIM 4R-IE; Interfaces: 2 x combined RS232/RS485, 2 x RJ45			6NH7800-4BA00
		TIM 3V-IE DNP3; Interfaces: 1 x RS232, 1 x RJ45	DNP3	Can be used as RTU, node station and central or route redundancy	6NH7803-3BA00-0AA0
		TIM 4R-IE DNP3; Interfaces: 2 x combined RS232/RS485, 2 x RJ45			6NH7803-4BA00-0AA0

Connection of GSM/GPRS modem MD720 to PPI interface of the S7-200	RS232/PPI	6NH9701-0AD
Plug-in cable (2.5 m) for connecting a TIM to a MD720 modem	RS232	6NH7701-5AN
SCALANCE M812-1	1 x RJ45	ADSL2T ANNEX A

	SCALANCE M816-1		4 x RJ45 1 x RJ12	ADSL2+ ANNEX A ADSL2+ ANNEX B	6GK5816-1AA00-2AA2 6GK5816-1BA00-2AA2	
	SCALANCE M826-2	2-wire (SHDSL)	4 x RJ45 2 x terminal block (2-pin)	SHDSL	6GK5826-2AB00-2AB2	
	SCALANCE M874-2	Mobile wireless GSM (2G)	2 x RJ45 1 x SMA antenna connection	IP router for transparent data transmission between Ind. Ethernet and 2G mobile networks (VPN with IPsec/OpenVPN**)	6GK5874-2AA00-2AA2	
	SCALANCE M874-3	Mobile wireless GSM (2G), UMTS (3G)		IP router for transparent data transmission between Ind. Ethernet and 2G mobile networks (VPN with IPsec/OpenVPN**)	6GK5874-3AA00-2AA2	
	SCALANCE M876-3	Mobile wireless GSM (2G), UMTS (3G)/ CDMA2000 (EV-DO)	4 x RJ45 2 x SMA antenna connection	IP router for transparent data transmission between Ind. Ethernet and 3G mobile networks (VPN with IPsec/OpenVPN**)	6GK5876-3AA02-2BA2	
	SCALANCE M876-4 (EU)	Mobile wireless GSM (2G), UMTS (3G), LTE (4G)	4 x RJ45 2 x SMA Antenna connection	IP router for transparent data transmission between Ind. Ethernet and 4G mobile network (VPN with IPsec/OpenVPN**)	6GK5876-4AA00-2BA2	
	SCALANCE M876-4 (NAM)			IP router for transparent data transmission between Ind. Ethernet and 4G mobile networks (VPN with IPsec/OpenVPN**); for use in North America	6GK5876-4AA00-2DA2	
	RUGGEDCOM RM1224 (EU)			IP router for transparent data transmission between Ind. Ethernet and 4G mobile networks (VPN with IPsec/OpenVPN**)	6GK6108-4AM00-2BA2	
	RUGGEDCOM RM1224 (NAM)			IP router for transparent data transmission between Ind. Ethernet and 4G mobile networks (VPN with IPsec/OpenVPN**); for use in North America	6GK6108-4AM00-2DA2	
	Mobile wireless antenna ANT794-3M, flat antenna, 1.2 m connecting cable connected permanently to the antenna Mobile wireless antenna ANT794-4MR, flat antenna, 5 m connecting cable connected permanently to the antenna Mobile wireless antenna ANT896-4MA, direct installation with SMA connection method Mobile wireless antenna ANT896-4ME, compact design IP66, without connecting cable Mobile wireless antenna ANT896-6MH, suitable for railway applications, installation on vehicle roof possible, without connecting cable Mobile wireless antenna ANT896-6MM, incl. 3 x pigtail with QMA connector, incl. GPS and WLAN connection, installation possible on vehicle roof	For use in GSM networks For use in GSM-/UMTS and LTE networks	6NH9870-1AA00 6NH9860-1AA00 6GK5896-4MA00-0AA3 6GK5896-4ME00-0AA0 6GK5896-6MH00-0AA0 6GK5896-6MM00-0AA0			
SIMATIC NET N-Connect/SMA male/male Flexible connection cable	Length 0.3 m	6XV1875-5LE30				
	Length 1 m	6XV1875-5LH10				
	Length 2 m	6XV1875-5LH20				
	Length 5 m	6XV1875-5LH50				
	Length 10 m	6XV1875-5AN10				

* You will find up-to-date ordering data on the Internet at: www.siemens.com/industrymall

Conditions of sale and delivery can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

** For connection to SINEMA Remote Connect and/or as OpenVPN client

TIM versions	TIM 3V-IE	TIM 3V-IE Advanced	TIM 3V-IE DNP3	TIM 4R-IE	TIM 4R-IE DNP3
					
TIM for the control room	■	■	■	■	■
TIM for the outstations	■	■	■	■	■
Data buffer	Up to 16.000 telegrams	Up to 32.000 telegrams	Up to 64.000 data points	Up to 54.000 telegrams	Up to 200.000 data points
PLC	S7-300 S7-300F	S7-300 S7-300F	S7-300 S7-300F	S7-300 / S7-300F S7-400 / S7-400F PC	S7-300 S7-400 / S7-400F S7-400H
Interfaces	RS232 / Ind. Ethernet (RJ45)	RS232 / Ind. Ethernet (RJ45)	RS232 / Ind. Ethernet (RJ45)	2 x serial (RS232, RS485) / 2 x Ind. Ethernet (RJ45)	2 x serial (RS232, RS485) / 2 x Ind. Ethernet (RJ45)
SIPLUS extreme	■			■	

You can find additional information in the Industry Mall under Industrial Remote Communication and on the Internet
<http://www.siemens.com/industrial-remote-communication>