

product type designation



CP 1243-1

Communications processor CP 1243-1 for connection of SIMATIC S7-1200 as additional Ethernet interface and for Connection to control centers via telecontrol protocols (DNP3, IEC 60870, TeleControl Basic), security (Firewall, VPN).

transfer rate	
transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet for power supply 	1 0
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet 	RJ45 port
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage / 1 / from backplane bus	5 V
consumed current	
<ul style="list-style-type: none"> from backplane bus / at DC / at 5 V / typical 	0.25 A
power loss [W]	1.25 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> for vertical installation / during operation for horizontally arranged busbars / during operation during storage during transport 	-20 ... +60 °C -20 ... +70 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum 	95 %
protection class IP	IP20
design, dimensions and weights	
module format	Compact module S7-1200 single width
width	30 mm
height	110 mm
depth	75 mm
net weight	0.122 kg
fastening method	
<ul style="list-style-type: none"> 35 mm top hat DIN rail mounting wall mounting 	Yes Yes
product features, product functions, product components / general	
number of units	
<ul style="list-style-type: none"> per CPU / maximum 	3
performance data / open communication	

number of possible connections / for open communication • by means of T blocks / maximum	like CPU
performance data / S7 communication	
number of possible connections / for S7 communication • maximum	like CPU
performance data / IT functions	
number of possible connections • as email client / maximum	1
performance data / telecontrol	
suitability for use • node station • substation • TIM control center	No Yes No
control center connection • by means of a permanent connection • note	For use with TeleControl Server Basic, WinCC and PCS7 supported Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols
protocol / is supported • DNP3 • IEC 60870-5	Yes Yes
product function / data buffering if connection is aborted	Yes; 64,000 events
number of data points per station / maximum	500
number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum	3 15
performance data / teleservice	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function • program download with SIMATIC STEP 7 • remote firmware update	Yes Yes
product functions / management, configuration, engineering	
configuration software • required	STEP 7 Basic/Professional
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / security	
firewall version	stateful inspection
product function / with VPN connection	IPsec, SINEMA RC
type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168
type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
type of hashing algorithms / with VPN connection	MD5, SHA-1, SHA-2
number of possible connections / with VPN connection	8
product function • password protection for Web applications • password protection for teleservice access • encrypted data transmission • ACL - IP-based • ACL - IP-based for PLC/routing • switch-off of non-required services • blocking of communication via physical ports • log file for unauthorized access	No No Yes No No Yes No No
product functions / time	
protocol / is supported • NTP • NTP (secure)	Yes Yes
time synchronization • from NTP-server • from control center	Yes Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to	Yes



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GB standard	Ex nA IIC T4 Gc
<ul style="list-style-type: none"> as marking 	
further information / internet links	
internet link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com . (V3.4)

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