

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	
• at the 1st interface	10 ... 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
• at the 1st interface / according to Industrial Ethernet	1
• for power supply	0
type of electrical connection	
• 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	
• from backplane bus / at DC / at 5 V / typical	0.25 A
power loss [W]	1.25 W
ambient conditions	
ambient temperature	
• for vertical installation / during operation	-20 ... +60 °C
• for horizontally arranged busbars / during operation	-20 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity	
• 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	
• 35 mm top hat DIN rail mounting	Yes
• wall mounting	Yes
product features, product functions, product components / general	
number of units	
• per CPU / maximum	3
performance data / open communication	

number of possible connections / for open communication	
<ul style="list-style-type: none"> by means of T blocks / maximum 	like CPU
performance data / S7 communication	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> maximum 	like CPU
performance data / IT functions	
number of possible connections	
<ul style="list-style-type: none"> as email client / maximum 	1
performance data / telecontrol	
suitability for use	
<ul style="list-style-type: none"> node station 	No
<ul style="list-style-type: none"> substation 	Yes
<ul style="list-style-type: none"> TIM control center 	No
control center connection	For use with TeleControl Server Basic, WinCC and PCS7
<ul style="list-style-type: none"> by means of a permanent connection 	supported
<ul style="list-style-type: none"> note 	Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols
protocol / is supported	
<ul style="list-style-type: none"> DNP3 	Yes
<ul style="list-style-type: none"> IEC 60870-5 	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	
<ul style="list-style-type: none"> in send direction / maximum 	3
<ul style="list-style-type: none"> in receive direction / maximum 	15
performance data / teleservice	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function	
<ul style="list-style-type: none"> program download with SIMATIC STEP 7 	Yes
<ul style="list-style-type: none"> remote firmware update 	Yes
product functions / management, configuration, engineering	
configuration software	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> password protection for Web applications 	No
<ul style="list-style-type: none"> password protection for teleservice access 	No
<ul style="list-style-type: none"> encrypted data transmission 	Yes
<ul style="list-style-type: none"> ACL - IP-based 	No
<ul style="list-style-type: none"> ACL - IP-based for PLC/routing 	No
<ul style="list-style-type: none"> switch-off of non-required services 	Yes
<ul style="list-style-type: none"> blocking of communication via physical ports 	No
<ul style="list-style-type: none"> log file for unauthorized access 	No
product functions / time	
protocol / is supported	
<ul style="list-style-type: none"> NTP 	Yes
<ul style="list-style-type: none"> NTP (secure) 	Yes
time synchronization	
<ul style="list-style-type: none"> from NTP-server 	Yes
<ul style="list-style-type: none"> from control center 	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to	Yes; GB3836.1, GB3836.8

GB standard	
<ul style="list-style-type: none"> • as marking 	Ex nA IIC T4 Gc
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	<p>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)</p>

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