

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 Remote effect 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 / acc. to Industrial Ethernet

1

Number of electrical connections

- at the 1st interface / acc. to Industrial Ethernet
- for power supply

1

0

Type of electrical connection

- at the 1st interface / acc. 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	
<ul style="list-style-type: none"> • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport 	<p>-20 ... +60 °C</p> <p>-20 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p>
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
Mounting type	
<ul style="list-style-type: none"> • 35 mm DIN rail mounting • wall mounting 	<p>Yes</p> <p>Yes</p>

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	
<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 e-mail client / maximum 	1

Performance data / telecontrol

Suitability for use	
<ul style="list-style-type: none"> • Node station • substation • TIM control center 	<p>No</p> <p>Yes</p> <p>No</p>
Control center connection	
<ul style="list-style-type: none"> • by means of a permanent connection 	For use with TeleControl Server Basic, WinCC and PCS7 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 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	
<ul style="list-style-type: none"> in send direction / maximum in receive direction / maximum 	3 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 Remote firmware update 	Yes 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
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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 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	Yes
• NTP (secure)	Yes
time synchronization	
• from NTP-server	Yes
• from control center	Yes

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	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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