

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	
<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 substation TIM control center 	No Yes No
control center connection	For use with TeleControl Server Basic, WinCC and PCS7 supported
<ul style="list-style-type: none"> by means of a permanent connection 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
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	
<ul style="list-style-type: none"> NTP NTP (secure) 	Yes Yes
time synchronization	
<ul style="list-style-type: none"> from NTP-server from control center 	Yes Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone	Yes

according to GB standard

further information / internet-Links

Internet-Link

- 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

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