

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).

product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6GK7243-1BX30-0XE0>

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
- for power supply

1

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
- for horizontally arranged busbars / during operation
- during storage
- during transport

-20 ... +60 °C

-20 ... +70 °C

-40 ... +70 °C

-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 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
product functions / cloud connectivity	
protocol / is supported	
<ul style="list-style-type: none"> Message Queuing Telemetry Transport (MQTT) 	Yes
<ul style="list-style-type: none"> Advanced Message Queuing Protocol (AMQP) 	No
product function / for cloud connectivity	
<ul style="list-style-type: none"> trigger management 	Yes
<ul style="list-style-type: none"> time stamping 	Yes
product feature / for cloud connectivity / buffered message frame memory	No
number of active connections / for cloud connectivity	1
number of data points per device / maximum	500
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 supported
<ul style="list-style-type: none"> by means of a permanent connection 	Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols
<ul style="list-style-type: none"> note 	
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 device / 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 function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
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	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / cULus approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
standards, specifications, approvals / marine classification / header	
Marine classification association / Det Norske Veritas (DNV)	Yes
Marine classification association / Lloyds Register of Shipping (LRS)	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total 	89.58 kg
<ul style="list-style-type: none"> • during manufacturing 	14.29 kg
<ul style="list-style-type: none"> • during operation 	75.11 kg
<ul style="list-style-type: none"> • after end of life 	0.18 kg
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> • to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	https://siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly

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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval



[Miscellaneous](#)



[China RoHS](#)



EMV

For use in hazardous locations

Maritime application



[FM](#)

[CCC-Ex](#)



Maritime application

Environment



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