

Product type designation

SIPLUS S7-1200 CP 1243-1

SIPLUS S7-1200 CP 1243-1 -40...+70°C with conformal coating based on 6GK7243-1BX30-0XE0 . Communications Processor CP 1243-1 for connecting SIMATIC S7-1200 as additional Ethernet interface and for connection to control center via remote system 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>-40 ... +60 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p>
Installation altitude / at height above sea level / maximum	5000 m
Ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity	
<ul style="list-style-type: none"> • with condensation / acc. to IEC 60068-2-38 / maximum 	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
Chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
Resistance to biologically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 • conformity acc. to EN 60721-3-6 	<p>Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request</p> <p>Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)</p>
Resistance to chemically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 • conformity acc. to EN 60721-3-6 	<p>Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.</p> <p>Yes</p>
Resistance to mechanically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 • conformity acc. to EN 60721-3-6 	<p>Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.</p> <p>Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.</p>
Coating / for equipped printed circuit board / acc. to EN 61086	Yes; Class 2 for high availability
Type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
Type of test / of the coating / acc. to MIL-I-46058C	Yes; Coating discoloration during service life possible
Product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal coating, class A
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 	Yes
<ul style="list-style-type: none"> • wall mounting 	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 e-mail 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 station / maximum	200
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	

- 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

Further information / Internet-Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database

<http://www.siemens.com/snst>
<http://www.siemens.com/simatic-net>
<https://mall.industry.siemens.com>
<http://www.siemens.com/industry/infocenter>
<http://automation.siemens.com/bilddb>

- to website: CAx Download Manager
- to website: Industry Online Support

<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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