

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	
• for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport	-40 ... +60 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
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	
• 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	
• conformity acc. to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
• conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
• conformity acc. to EN 60721-3-3	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.
• conformity acc. to EN 60721-3-6	Yes
resistance to mechanically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
• conformity acc. to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
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
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	
• by means of T blocks / maximum	like CPU
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	like CPU
performance data / IT functions	
number of possible connections	
• as email client / maximum	1
performance data / telecontrol	
suitability for use	
• node station	No
• substation	Yes
• TIM control center	No
control center connection	For use with TeleControl Server Basic, WinCC and PCS7 supported
• by means of a permanent connection	
• note	Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols
protocol / is supported	
• DNP3	Yes
• 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	
• in send direction / maximum	3
• 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 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

<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>
<http://www.siemens.com/cax>

security information

security information

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