

### product type designation



Figure similar

### CP 1243-1

SIPLUS S7-1200 CP 1243-1 based on 6GK7243-1BX30-0XE0 with conformal coating, -40...+70 °C, 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)

Technical Product Detail Page

<https://l.siemens.com/1P6AG1243-1BX30-2AX0>

### 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

-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 / according 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 according to EN 60721-3-3
- conformity according to EN 60721-3-6

Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request

Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)

resistance to chemically active substances

- conformity according 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

<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>	<p>interfaces during operation.</p> <p>Yes</p>
<p>resistance to mechanically active substances</p> <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> <li>conformity according to EN 60721-3-6</li> </ul>	<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>
<p>coating / for equipped printed circuit board / according to EN 61086</p>	<p>Yes; Class 2 for high availability</p>
<p>type of coating / protection against pollution according to EN 60664-3</p>	<p>Yes; Protection of the type 1</p>
<p>type of test / of the coating / according to MIL-I-46058C</p>	<p>Yes; Coating discoloration during service life possible</p>
<p>product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</p>	<p>Yes; Conformal coating, class A</p>
<p>protection class IP</p>	<p>IP20</p>
<p><b>design, dimensions and weights</b></p>	
<p>module format</p>	<p>Compact module S7-1200 single width</p>
<p>width</p>	<p>30 mm</p>
<p>height</p>	<p>110 mm</p>
<p>depth</p>	<p>75 mm</p>
<p>net weight</p>	<p>0.122 kg</p>
<p>fastening method</p> <ul style="list-style-type: none"> <li>35 mm DIN-rail mounting</li> <li>wall mounting</li> </ul>	<p>Yes</p> <p>Yes</p>
<p><b>product features, product functions, product components / general</b></p>	
<p>number of units</p> <ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>	<p>3</p>
<p><b>product functions / cloud connectivity</b></p>	
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>Message Queuing Telemetry Transport (MQTT)</li> <li>Advanced Message Queuing Protocol (AMQP)</li> </ul>	<p>Yes</p> <p>No</p>
<p>product function / for cloud connectivity</p> <ul style="list-style-type: none"> <li>trigger management</li> <li>time stamping</li> </ul>	<p>Yes</p> <p>Yes</p>
<p>product feature / for cloud connectivity / buffered message frame memory</p>	<p>No</p>
<p>number of active connections / for cloud connectivity</p>	<p>1</p>
<p>number of data points per device / maximum</p>	<p>500</p>
<p><b>performance data / open communication</b></p>	
<p>number of possible connections / for open communication</p> <ul style="list-style-type: none"> <li>by means of T blocks / maximum</li> </ul>	<p>like CPU</p>
<p><b>performance data / S7 communication</b></p>	
<p>number of possible connections / for S7 communication</p> <ul style="list-style-type: none"> <li>maximum</li> </ul>	<p>like CPU</p>
<p><b>performance data / IT functions</b></p>	
<p>number of possible connections</p> <ul style="list-style-type: none"> <li>as email client / maximum</li> </ul>	<p>1</p>
<p><b>performance data / telecontrol</b></p>	
<p>suitability for use</p> <ul style="list-style-type: none"> <li>node station</li> <li>substation</li> <li>TIM control center</li> </ul>	<p>No</p> <p>Yes</p> <p>No</p>
<p>control center connection</p> <ul style="list-style-type: none"> <li>by means of a permanent connection</li> <li>note</li> </ul>	<p>For use with TeleControl Server Basic, WinCC and PCS7 supported</p> <p>Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols</p>
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>DNP3</li> <li>IEC 60870-5</li> </ul>	<p>Yes</p> <p>Yes</p>
<p>product function / data buffering if connection is aborted</p>	<p>Yes; 64,000 events</p>

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
<b>performance data / teleservice</b>	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function	
• program download with SIMATIC STEP 7	Yes
• remote firmware update	Yes
<b>product functions / management, configuration, engineering</b>	
configuration software	
• required	STEP 7 Basic/Professional
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / security</b>	
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	No
• password protection for teleservice access	No
• encrypted data transmission	Yes
• ACL - IP-based	No
• ACL - IP-based for PLC/routing	No
• switch-off of non-required services	Yes
• blocking of communication via physical ports	No
• log file for unauthorized access	No
<b>product functions / time</b>	
protocol / is supported	
• NTP	Yes
• NTP (secure)	Yes
time synchronization	
• from NTP-server	Yes
• from control center	Yes
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
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<b>security information</b>	
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General Product Approval



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