

### 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"> <li>at the 1st interface</li> </ul>	10 ... 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> <li>for power supply</li> </ul>	1 0
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	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"> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	0.25 A
power loss [W]	1.25 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-20 ... +60 °C -20 ... +70 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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"> <li>35 mm top hat DIN rail mounting</li> <li>wall mounting</li> </ul>	Yes Yes
product features, product functions, product components / general	
number of units	
<ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>	3
product functions / cloud connectivity	

protocol / is supported	
<ul style="list-style-type: none"> <li>• Message Queuing Telemetry Transport (MQTT)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Advanced Message Queuing Protocol (AMQP)</li> </ul>	No
product function / for cloud connectivity	
<ul style="list-style-type: none"> <li>• trigger management</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• time stamping</li> </ul>	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
<b>performance data / open communication</b>	
number of possible connections / for open communication	
<ul style="list-style-type: none"> <li>• by means of T blocks / maximum</li> </ul>	like CPU
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	like CPU
<b>performance data / IT functions</b>	
number of possible connections	
<ul style="list-style-type: none"> <li>• as email client / maximum</li> </ul>	1
<b>performance data / telecontrol</b>	
suitability for use	
<ul style="list-style-type: none"> <li>• node station</li> </ul>	No
<ul style="list-style-type: none"> <li>• substation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TIM control center</li> </ul>	No
control center connection	
<ul style="list-style-type: none"> <li>• by means of a permanent connection</li> </ul>	For use with TeleControl Server Basic, WinCC and PCS7 supported
<ul style="list-style-type: none"> <li>• note</li> </ul>	Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols
protocol / is supported	
<ul style="list-style-type: none"> <li>• DNP3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEC 60870-5</li> </ul>	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"> <li>• in send direction / maximum</li> </ul>	3
<ul style="list-style-type: none"> <li>• in receive direction / maximum</li> </ul>	15
<b>performance data / teleservice</b>	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function	
<ul style="list-style-type: none"> <li>• program download with SIMATIC STEP 7</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• remote firmware update</li> </ul>	Yes
<b>product functions / management, configuration, engineering</b>	
configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 Basic/Professional
product function / is supported / identification link	Yes; according 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	
<ul style="list-style-type: none"> <li>• password protection for Web applications</li> </ul>	No
<ul style="list-style-type: none"> <li>• password protection for teleservice access</li> </ul>	No
<ul style="list-style-type: none"> <li>• encrypted data transmission</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• ACL - IP-based</li> </ul>	No
<ul style="list-style-type: none"> <li>• ACL - IP-based for PLC/routing</li> </ul>	No

- switch-off of non-required services Yes
- blocking of communication via physical ports No
- log file for unauthorized access No

#### product functions / time

protocol / is supported	
• NTP	Yes
• NTP (secure)	Yes
time synchronization	
• from NTP-server	Yes
• from control center	Yes

#### standards, specifications, approvals

reference code	
• according to IEC 81346-2:2019	KEC

#### standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	89.58 kg
• during manufacturing	14.29 kg
• during operation	75.11 kg
• after end of life	0.18 kg

#### further information / internet links

internet link	
• 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://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### 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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)
----------------------	--

#### Approvals / Certificates

##### General Product Approval



EG-Konf.

[Declaration of Conformity](#)



CCC



UL



RCM

##### For use in hazardous locations



IECEX



ATEX

[FM](#)

[CCC-Ex](#)

##### Marine / Shipping



DNV



LRS

#### Environment

[Confirmation](#)



---

last modified:

11/7/2024 