

## Data sheet

## 6GK7243-1BX30-0XE0

### 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).

Technical Product Detail Page

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

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 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
<b>product functions / cloud connectivity</b>	
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	For use with TeleControl Server Basic, WinCC and PCS7 supported
<ul style="list-style-type: none"> <li>by means of a permanent connection</li> </ul>	Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols
<ul style="list-style-type: none"> <li>note</li> </ul>	
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; 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	
<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
<ul style="list-style-type: none"> <li>switch-off of non-required services</li> </ul>	Yes
<ul style="list-style-type: none"> <li>blocking of communication via physical ports</li> </ul>	No
<ul style="list-style-type: none"> <li>log file for unauthorized access</li> </ul>	No
<b>product functions / time</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>NTP (secure)</li> </ul>	Yes
time synchronization	
<ul style="list-style-type: none"> <li>from NTP-server</li> </ul>	Yes
<ul style="list-style-type: none"> <li>from control center</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
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
<b>standards, specifications, approvals / hazardous environments / header</b>	
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
<b>standards, specifications, approvals / marine classification / header</b>	
Marine classification association / Det Norske Veritas (DNV)	Yes
Marine classification association / Lloyds Register of Shipping (LRS)	Yes
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> </ul>	89.58 kg
<ul style="list-style-type: none"> <li>during manufacturing</li> </ul>	14.29 kg
<ul style="list-style-type: none"> <li>during operation</li> </ul>	75.11 kg
<ul style="list-style-type: none"> <li>after end of life</li> </ul>	0.18 kg
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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

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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval

EMV

For use in hazardous locations



[Miscellaneous](#)



For use in hazardous locations

Maritime application

Environment

[EM](#)

[CCC-Ex](#)



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