

### 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	
• 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	1
• for power supply	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	-20 ... +60 °C
• for horizontally arranged busbars / during operation	-20 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity	
• at 25 °C / without condensation / during operation / maximum	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	
• 35 mm DIN-rail mounting	Yes
• wall mounting	Yes

### product features, product functions, product components / general

number of units	
• per CPU / maximum	3

### product functions / cloud connectivity

protocol / is supported	
• Message Queuing Telemetry Transport (MQTT)	Yes
• Advanced Message Queuing Protocol (AMQP)	No
product function / for cloud connectivity	
• trigger management	Yes
• time stamping	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	
• by means of T blocks / maximum	like CPU
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
• maximum	like CPU
<b>performance data / IT functions</b>	
number of possible connections	
• as email client / maximum	1
<b>performance data / telecontrol</b>	
suitability for use	
• node station	No
• substation	Yes
• TIM control center	No
control center connection	
• by means of a permanent connection	For use with TeleControl Server Basic, WinCC and PCS7 supported
• 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	500
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
- blocking of communication via physical ports
- log file for unauthorized access

Yes  
No  
No

#### product functions / time

protocol / is supported

- NTP
- NTP (secure)

Yes  
Yes

time synchronization

- from NTP-server
- from control center

Yes  
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
- during manufacturing
- during operation
- after end of life

89.58 kg  
14.29 kg  
75.11 kg  
0.18 kg

#### further information / internet links

internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>  
<https://www.siemens.com/tstcloud>  
<https://www.siemens.com/simatic-net>  
<https://sieportal.siemens.com/>  
<https://www.automation.siemens.com/bilddb>  
<https://siemens.com/cax>  
<https://support.industry.siemens.com>

#### security information

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#### Approvals / Certificates

##### General Product Approval



[Declaration of Conformity](#)



##### General Product Approval

##### For use in hazardous locations

[Miscellaneous](#)



[FM](#)

[CCC-Ex](#)

#### Marine / Shipping

#### Environment



[Confirmation](#)



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