

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"> at the 1st interface 	10 ... 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet for power supply 	1 0
type of electrical connection	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> from backplane bus / at DC / at 5 V / typical 	0.25 A
power loss [W]	1.25 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> for vertical installation / during operation for horizontally arranged busbars / during operation during storage during transport 	-20 ... +60 °C -20 ... +70 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 35 mm top hat DIN rail mounting wall mounting 	Yes Yes
product features, product functions, product components / general	
number of units	
<ul style="list-style-type: none"> per CPU / maximum 	3
product functions / cloud connectivity	

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

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 <https://www.siemens.com/tstcloud>
 - to website: Industrial communication <https://www.siemens.com/simatic-net>
 - to web page: SiePortal <https://sieportal.siemens.com/>
 - to website: Image database <https://www.automation.siemens.com/bilddb>
 - to website: CAx-Download-Manager <https://siemens.com/cax>
 - to website: Industry Online Support <https://support.industry.siemens.com>

security information

security information

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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



General Product Approval

For use in hazardous locations

[Miscellaneous](#)



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[CCC-Ex](#)

Marine / Shipping

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last modified:

12/8/2024