

Product type designation

CP 1243-1

COMMUNICATIONS PROCESSOR CP 1243-1 FOR CONNECTING SIMATIC S7-1200 TO TELECONTROL SERVER BASIC VIA ETHERNET ALSO SUITED FOR SAFE COMMUNICATION WITH NETWORK WITH FIREWALL AND VPN



Transmission rate

Transfer rate

- at the 1st interface

10 ... 100 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet

1

Number of electrical connections

- at the 1st interface / acc. to Industrial Ethernet
- for power supply

1

0

Type of electrical connection

- at the 1st interface / acc. 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

Permitted 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 weight

Module format	Compact module S7-1200 single width
Width	30 mm
Height	110 mm
Depth	75 mm
Net weight	0.122 kg
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes

Product properties, functions, components / general

Number of units	
• per CPU / maximum	3

Performance data / open communication

Number of possible connections / for open communication	
• by means of T blocks / maximum	like CPU

Performance data / S7 communication

Number of possible connections / for S7 communication	
• Note	like CPU

Performance data / telecontrol

Suitability for use	
• Node station	No
• substation	Yes
• TIM control center	No
Control center connection	
• by means of a permanent connection	supported
Protocol / is supported	
• DNP3	Yes
• IEC 60870-5	Yes
Product function / data buffering if connection is aborted	Yes; 64,000 values

Number of data points per station / maximum	200
Performance data / Teleservice	
Diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
Product function	
• program download with SIMATIC STEP 7	Yes
• Remote firmware update	Yes
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / Security	
Firewall version	stateful inspection
Product function / with VPN connection	IPSec
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
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
Product functions / Time	
Protocol / is supported	
• NTP	Yes
• NTP (secure)	Yes
time synchronization	
• from NTP-server	Yes
• from control center	Yes
Accessories	
Further Information / Internet Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

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