



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	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet for power supply 	1 0
Type of electrical connection	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> from backplane bus / for DC / at 5 V / typical 	0.25 A
Active power loss	1.25 W

Permitted 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 / 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	
<ul style="list-style-type: none"> • 35 mm DIN rail mounting • wall mounting 	Yes Yes

Product properties, functions, components / general

Number of units	
<ul style="list-style-type: none"> • per CPU / maximum 	3

Performance data / S7 communication

Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • Note 	like CPU

Performance data / telecontrol

Suitability for use	
<ul style="list-style-type: none"> • Node station • substation • TIM control center 	No Yes No
Control center connection	to be used with Telecontrol Server Basic
Control center connection / by means of a permanent connection	supported
Control center connection / Note	Connection to Scada system via Telecontrol Server Basic
Protocol / is supported	
<ul style="list-style-type: none"> • DNP3 • IEC 60870-5 	No No
Product function / data buffering if connection is aborted	Yes
<ul style="list-style-type: none"> • Note 	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	
<ul style="list-style-type: none"> • program download with SIMATIC STEP 7 • Remote firmware update 	Yes Yes

Product functions / management, configuration

Configuration software

- required

STEP 7 Basic/Professional V13 Update 2 + HSP (TIA Portal) or higher

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

Type of hashing algorithms / with VPN connection

MD5, SHA-1

Number of possible connections / with VPN connection

8

Product function

- password protection for Web applications
- password protection for teleservice access
- encrypted data transmission
- ACL - IP-based
- ACL - IP-based for PLC/routing
- switch-off of non-required services
- Blocking of communication via physical ports
- log file for unauthorized access

No

No

Yes

No

No

Yes

No

No

Product functions / Time

Protocol / is supported / NTP

Yes

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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

<http://www.siemens.com/simatic-net>

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

<http://www.siemens.com/automation/net/catalog>

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

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

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

Security information

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