



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"> <li>at the 1st interface</li> </ul>	10 ... 100 Mbit/s

### Interfaces

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

### Permitted 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 / 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 / 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	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	
• DNP3	No
• IEC 60870-5	No
Product function / data buffering if connection is aborted	Yes
• 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	
• program download with SIMATIC STEP 7	Yes
• Remote firmware update	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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