

### 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	
<ul style="list-style-type: none"> <li>• for vertical installation / during operation</li> </ul>	-20 ... +60 °C
<ul style="list-style-type: none"> <li>• for horizontally arranged busbars / during operation</li> </ul>	-20 ... +70 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-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"> <li>• 35 mm DIN rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	Yes

#### Product properties, functions, components / general

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

#### Performance data / S7 communication

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

#### Performance data / telecontrol

Suitability for use	
<ul style="list-style-type: none"> <li>• Node station</li> </ul>	No
<ul style="list-style-type: none"> <li>• substation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TIM control center</li> </ul>	No
Control center connection	to be used with Telecontrol Server Basic supported
<ul style="list-style-type: none"> <li>• by means of a permanent connection</li> </ul>	
<ul style="list-style-type: none"> <li>• Note</li> </ul>	Connection to SCADA system via Telecontrol Server Basic
Protocol / is supported	
<ul style="list-style-type: none"> <li>• DNP3</li> </ul>	No
<ul style="list-style-type: none"> <li>• IEC 60870-5</li> </ul>	No
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	
<ul style="list-style-type: none"> <li>• program download with SIMATIC STEP 7</li> <li>• Remote firmware update</li> </ul>	Yes Yes
Configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	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	
<ul style="list-style-type: none"> <li>• password protection for Web applications</li> <li>• password protection for teleservice access</li> <li>• encrypted data transmission</li> <li>• ACL - IP-based</li> <li>• ACL - IP-based for PLC/routing</li> <li>• switch-off of non-required services</li> <li>• Blocking of communication via physical ports</li> <li>• log file for unauthorized access</li> </ul>	No No Yes No No Yes No No

### Product functions / Time

Protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
time synchronization	
<ul style="list-style-type: none"> <li>• from control center</li> </ul>	Yes

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>  <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>  <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>  <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>  <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>  <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>  <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

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