

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 Remote effect protocols (DNP3, IEC 60870, TeleControl Basic), security (Firewall, 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

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 / IT functions

| | |
|--------------------------------|---|
| Number of possible connections | |
| • as e-mail client / maximum | 1 |

Performance data / telecontrol

| | |
|--------------------------------------|---|
| Suitability for use | |
| • Node station | No |
| • substation | Yes |
| • TIM control center | No |
| Control center connection | For use with TeleControl Server Basic, WinCC and PCS7 supported |
| • by means of a permanent connection | |

| | |
|---|--|
| • Note | Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols |
| Protocol / is supported | |
| • DNP3 | Yes |
| • IEC 60870-5 | Yes |
| Product function / data buffering if connection is aborted | Yes |
| Number of data points per station / maximum | 200 |
| Number of stations / for direct communication / with Telecontrol Server Basic | |
| • in send direction / maximum | 3 |
| • in receive direction / maximum | 15 |

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 |

Product functions / Diagnosis

| | |
|--|-----|
| 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 | |
| • 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 |

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 | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

Security information

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|----------------------|--|
| Security information | <p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)</p> |
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