

Product type designation

CP 1243-1

Communications Processor CP 1243-1 for connecting SIMATIC S7-1200 as additional Ethernet interface and for connection to control center via remote system 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

Permitted ambient conditions

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

Product properties, functions, components / general

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

Performance data / open communication

| | |
|--|----------|
| Number of possible connections / for open communication | |
| <ul style="list-style-type: none"> • by means of T blocks / maximum | like CPU |

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 | No |
| <ul style="list-style-type: none"> • substation | Yes |
| <ul style="list-style-type: none"> • TIM control center | No |
| Control center connection | |
| <ul style="list-style-type: none"> • by means of a permanent connection | supported |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • DNP3 | Yes |
| <ul style="list-style-type: none"> • 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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