

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 telecontrol protocols (DNP3, IEC 60870, TeleControl Basic), security (Firewall, VPN).

| transfer rate | |
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| transfer rate | |
| <ul style="list-style-type: none"> at the 1st interface | 10 ... 100 Mbit/s |
| interfaces | |
| number of interfaces / according to Industrial Ethernet | 1 |
| number of electrical connections | |
| <ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet for power supply | 1 0 |
| type of electrical connection | |
| <ul style="list-style-type: none"> at the 1st interface / according 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 / at DC / at 5 V / typical | 0.25 A |
| power loss [W] | 1.25 W |
| 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 | |
| <ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |
| design, dimensions and weights | |
| module format | Compact module S7-1200 single width |
| width | 30 mm |
| height | 110 mm |
| depth | 75 mm |
| net weight | 0.122 kg |
| fastening method | |
| <ul style="list-style-type: none"> 35 mm top hat DIN rail mounting wall mounting | Yes Yes |
| product features, product functions, product 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"> maximum | like CPU |
| performance data / IT functions | |
| number of possible connections | |
| <ul style="list-style-type: none"> as email client / maximum | 1 |
| 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 | For use with TeleControl Server Basic, WinCC and PCS7 supported |
| <ul style="list-style-type: none"> by means of a permanent connection note | Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols |
| 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 events |
| number of data points per station / maximum | 500 |
| number of stations / for direct communication / with Telecontrol Server Basic | |
| <ul style="list-style-type: none"> in send direction / maximum | 3 |
| <ul style="list-style-type: none"> in receive direction / maximum | 15 |
| 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 | Yes |
| <ul style="list-style-type: none"> remote firmware update | Yes |
| product functions / management, configuration, engineering | |
| configuration software | |
| <ul style="list-style-type: none"> required | STEP 7 Basic/Professional |
| product functions / diagnostics | |
| 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 | |
| <ul style="list-style-type: none"> password protection for Web applications | No |
| <ul style="list-style-type: none"> password protection for teleservice access | No |
| <ul style="list-style-type: none"> encrypted data transmission | Yes |
| <ul style="list-style-type: none"> ACL - IP-based | No |
| <ul style="list-style-type: none"> ACL - IP-based for PLC/routing | No |
| <ul style="list-style-type: none"> switch-off of non-required services | Yes |
| <ul style="list-style-type: none"> blocking of communication via physical ports | No |
| <ul style="list-style-type: none"> log file for unauthorized access | No |
| product functions / time | |
| protocol / is supported | |
| <ul style="list-style-type: none"> NTP | Yes |
| <ul style="list-style-type: none"> NTP (secure) | Yes |
| time synchronization | |
| <ul style="list-style-type: none"> from NTP-server | Yes |
| <ul style="list-style-type: none"> from control center | Yes |
| standards, specifications, approvals / hazardous environments | |
| certificate of suitability / CCC / for hazardous zone | Yes |

according to GB standard

further information / internet-Links

Internet-Link

- to web page: selection aid TIA 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/tia-selection-tool>
<http://www.siemens.com/simatic-net>
<https://mall.industry.siemens.com>
<http://www.siemens.com/industry/infocenter>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

security information

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