# SIEMENS

**Data sheet**                                                              **6GK7243-1BX30-0XE0**

| 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** | |
|---|---|
| transfer rate | |
| ● at the 1st interface | 10 ... 100 Mbit/s |
| **interfaces** | |
| number of interfaces / according to Industrial Ethernet | 1 |
| number of electrical connections | |
| ● at the 1st interface / according to Industrial Ethernet | 1 |
| ● for power supply | 0 |
| type of electrical connection | |
| ● 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 | |
| ● 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 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 | |
| ● 35 mm top hat DIN rail mounting | Yes |
| ● wall mounting | Yes |
| **product features, product functions, product components / general** | |
| number of units | |
| ● per CPU / maximum | 3 |
| **performance data / open communication** | |

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| 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 | |
|---|---|
| ● maximum | like CPU |

## performance data / IT functions

| number of possible connections | |
|---|---|
| ● as email 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 |
| ● by means of a permanent connection | supported |
| ● 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; 64,000 events |
| number of data points per station / maximum | 500 |
| 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, engineering

| configuration software | |
|---|---|
| ● 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 | |
| ● 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 |

## standards, specifications, approvals / hazardous environments

| certificate of suitability / CCC / for hazardous zone | Yes |
|---|---|

| | |
|---|---|
| according to GB standard | |

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