

### 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 DIN-rail mounting                                         | Yes                                 |
| • wall mounting                                                   | Yes                                 |
| product features, product functions, product components / general |                                     |
| number of units                                                   |                                     |
| • per CPU / maximum                                               | 3                                   |
| product functions / cloud connectivity                            |                                     |

|                                                                               |                                                                                            |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| protocol / is supported                                                       |                                                                                            |
| • Message Queuing Telemetry Transport (MQTT)                                  | Yes                                                                                        |
| • Advanced Message Queuing Protocol (AMQP)                                    | No                                                                                         |
| product function / for cloud connectivity                                     |                                                                                            |
| • trigger management                                                          | Yes                                                                                        |
| • time stamping                                                               | Yes                                                                                        |
| product feature / for cloud connectivity / buffered message frame memory      | No                                                                                         |
| number of active connections / for cloud connectivity                         | 1                                                                                          |
| number of data points per device / maximum                                    | 500                                                                                        |
| <b>performance data / open communication</b>                                  |                                                                                            |
| number of possible connections / for open communication                       |                                                                                            |
| • by means of T blocks / maximum                                              | like CPU                                                                                   |
| <b>performance data / S7 communication</b>                                    |                                                                                            |
| number of possible connections / for S7 communication                         |                                                                                            |
| • maximum                                                                     | like CPU                                                                                   |
| <b>performance data / IT functions</b>                                        |                                                                                            |
| number of possible connections                                                |                                                                                            |
| • as email client / maximum                                                   | 1                                                                                          |
| <b>performance data / telecontrol</b>                                         |                                                                                            |
| suitability for use                                                           |                                                                                            |
| • node station                                                                | No                                                                                         |
| • substation                                                                  | Yes                                                                                        |
| • TIM control center                                                          | No                                                                                         |
| control center connection                                                     |                                                                                            |
| • by means of a permanent connection                                          | For use with TeleControl Server Basic, WinCC and PCS7 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                                                                                         |
| <b>performance data / teleservice</b>                                         |                                                                                            |
| diagnostics function / online diagnostics with SIMATIC STEP 7                 | Yes                                                                                        |
| product function                                                              |                                                                                            |
| • program download with SIMATIC STEP 7                                        | Yes                                                                                        |
| • remote firmware update                                                      | Yes                                                                                        |
| <b>product functions / management, configuration, engineering</b>             |                                                                                            |
| configuration software                                                        |                                                                                            |
| • required                                                                    | STEP 7 Basic/Professional                                                                  |
| product function / is supported / identification link                         | Yes; acc. to IEC 61406-1:2022                                                              |
| <b>product functions / diagnostics</b>                                        |                                                                                            |
| product function / web-based diagnostics                                      | Yes                                                                                        |
| <b>product functions / security</b>                                           |                                                                                            |
| 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                                                                                         |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• switch-off of non-required services</li> <li>• blocking of communication via physical ports</li> <li>• log file for unauthorized access</li> </ul>                                                                                                                                                                                           | Yes<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>product functions / time</b>                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| protocol / is supported                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• NTP</li> <li>• NTP (secure)</li> </ul>                                                                                                                                                                                                                                                                                                       | Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| time synchronization                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• from NTP-server</li> <li>• from control center</li> </ul>                                                                                                                                                                                                                                                                                    | Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>standards, specifications, approvals</b>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| reference code                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>                                                                                                                                                                                                                                                                                                     | KEC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / CE marking                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / UKCA marking                                                                                                                                                                                                                                                                                                                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / cULus approval                                                                                                                                                                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / Regulatory Compliance Mark (RCM)                                                                                                                                                                                                                                                                                                                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / RoHS conformity                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / EAC approval                                                                                                                                                                                                                                                                                                                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>standards, specifications, approvals / hazardous environments / header</b>                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| certificate of suitability / ATEX                                                                                                                                                                                                                                                                                                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / IECEx                                                                                                                                                                                                                                                                                                                                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / CCC / for hazardous zone according to GB standard                                                                                                                                                                                                                                                                                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| certificate of suitability / FM registration                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>standards, specifications, approvals / marine classification / header</b>                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Marine classification association / Det Norske Veritas (DNV)                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Marine classification association / Lloyds Register of Shipping (LRS)                                                                                                                                                                                                                                                                                                                 | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>standards, specifications, approvals / Environmental Product Declaration</b>                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Environmental Product Declaration                                                                                                                                                                                                                                                                                                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| global warming potential [CO2 eq]                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• total</li> <li>• during manufacturing</li> <li>• during operation</li> <li>• after end of life</li> </ul>                                                                                                                                                                                                                                    | 89.58 kg<br>14.29 kg<br>75.11 kg<br>0.18 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>further information / internet links</b>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| internet link                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a><br><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a><br><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a><br><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a><br><a href="https://siemens.com/cax">https://siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>security information</b>                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| security information                                                                                                                                                                                                                                                                                                                                                                  | <p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p> |

Approvals / Certificates

General Product Approval



[Declaration of Con-  
formity](#)



[China RoHS](#)

|                          |     |                                |
|--------------------------|-----|--------------------------------|
| General Product Approval | EMV | For use in hazardous locations |
|--------------------------|-----|--------------------------------|



[Miscellaneous](#)



[KC](#)



|                                |                      |             |
|--------------------------------|----------------------|-------------|
| For use in hazardous locations | Maritime application | Environment |
|--------------------------------|----------------------|-------------|

[FM](#)

[CCC-Ex](#)



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