

product type designation



CP 1243-7 LTE EU

Communications processor CP 1243-7 LTE EU for Connection of SIMATIC S7-1200 to LTE network in European frequency range.

transfer rate

| | |
|--|-------------|
| transfer rate | |
| <ul style="list-style-type: none"> for LTE transmission | |
| — with downlink / maximum | 42 Mbit/s |
| — with uplink / maximum | 5.76 Mbit/s |

interfaces

| | |
|---|-----------------------|
| number of interfaces / according to Industrial Ethernet | 0 |
| number of electrical connections | |
| <ul style="list-style-type: none"> for external antenna(s) | 1 |
| <ul style="list-style-type: none"> for power supply | 1 |
| number of slots | |
| <ul style="list-style-type: none"> for SIM cards | 1 |
| type of electrical connection | |
| <ul style="list-style-type: none"> for external antenna(s) | SMA socket (50 ohms) |
| <ul style="list-style-type: none"> for power supply | 3-pole terminal block |
| slot version | |
| <ul style="list-style-type: none"> for SIM card | Standard |

wireless technology

| | |
|--|-----------------------------|
| type of mobile wireless service / is supported | |
| <ul style="list-style-type: none"> SMS | Yes |
| <ul style="list-style-type: none"> GPRS | Yes |
| <ul style="list-style-type: none"> | GPRS (Multislot Class 10) |
| type of wireless network / is supported | |
| <ul style="list-style-type: none"> GSM | Yes |
| <ul style="list-style-type: none"> UMTS | Yes |
| <ul style="list-style-type: none"> LTE | Yes |
| operating frequency / for GSM transmission | 900 MHz, 1800 MHz |
| operating frequency / with UMTS transmission | 900 MHz, 2100 MHz |
| operating frequency / for LTE transmission | 800 MHz, 1800 MHz, 2600 MHz |

supply voltage, current consumption, power loss

| | |
|--|--------|
| type of voltage / of the supply voltage | DC |
| supply voltage / external | 24 V |
| supply voltage / external / at DC / rated value | 24 V |
| relative positive tolerance / at DC / at 24 V | 20 % |
| relative negative tolerance / at DC / at 24 V | 20 % |
| consumed current | |
| <ul style="list-style-type: none"> from external supply voltage / at DC / at 24 V / typical | 0.1 A |
| <ul style="list-style-type: none"> from external supply voltage / at DC / at 24 V / maximum | 0.22 A |

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 | 100 mm |
| depth | 75 mm |
| net weight | 0.133 kg |
| fastening method | |
| • 35 mm top hat DIN rail mounting | Yes |
| • S7-300 rail mounting | No |
| • 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 |
| performance data | |
| number of users/telephone numbers / definable / maximum | 10 |
| performance data / open communication | |
| number of possible connections / for open communication | |
| • by means of T blocks / maximum | like CPU |
| performance data / IT functions | |
| number of possible connections | |
| • as email client / maximum | 1 |
| performance data / telecontrol | |
| suitability for use | |
| • substation | Yes |
| control center connection | Telecontrol Server Basic |
| • by means of a permanent connection | supported |
| • by means of demand-oriented connection | supported |
| • note | Connection to SCADA system using OPC interface |
| protocol / is supported | |
| • DNP3 | Yes |
| • IEC 60870-5 | Yes |
| product function / data buffering if connection is aborted | Yes; 64,000 events |
| 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 function / is supported / identification link | Yes; acc. to IEC 61406-1:2022 |
| 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, DES-56 |
| type of authentication procedure / with VPN connection | Preshared key (PSK), X.509v3 certificates |
| type of hashing algorithms / with VPN connection | MD5, SHA-1 |
| number of possible connections / with VPN connection | 1 |
| product function | |
| • password protection for teleservice access | Yes |
| • encrypted data transmission | Yes |
| product functions / time | |
| protocol / is supported | |
| • NTP | Yes |
| time synchronization | |
| • from control center | Yes |
| standards, specifications, approvals | |
| reference code | |
| • according to IEC 81346-2:2019 | KEC |
| further information / internet links | |
| internet link | |
| • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| • to website: Industrial communication | https://www.siemens.com/simatic-net |
| • to web page: SiePortal | https://sieportal.siemens.com/ |
| • to website: Image database | https://www.automation.siemens.com/bilddb |
| • to website: CAX-Download-Manager | https://siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
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For use in hazardous locations

Radio Equipment
Type Approval Certificate

Environment



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