

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

- for LTE transmission
 - with downlink / maximum 42 Mbit/s
 - with uplink / maximum 5.76 Mbit/s

interfaces

| | |
|--|---|
| number of interfaces / acc. to Industrial Ethernet | 0 |
| number of electrical connections | |
| <ul style="list-style-type: none"> • for external antenna(s) 1 • 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) • 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 | |
| <ul style="list-style-type: none"> • is supported / SMS | Yes |
| <ul style="list-style-type: none"> • is supported / GPRS | Yes |
| <ul style="list-style-type: none"> • note | 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 | |
| <ul style="list-style-type: none"> • for vertical installation / during operation | -20 ... +60 °C |
| <ul style="list-style-type: none"> • for horizontally arranged busbars / during operation | -20 ... +70 °C |
| <ul style="list-style-type: none"> • during storage | -40 ... +70 °C |
| <ul style="list-style-type: none"> • during transport | -40 ... +70 °C |
| relative humidity | |
| <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 | 100 mm |
| depth | 75 mm |
| net weight | 0.133 kg |
| fastening method | |
| <ul style="list-style-type: none"> • 35 mm top hat DIN rail mounting | Yes |

- S7-300 rail mounting
- wall mounting

No
Yes

product features, product functions, product components / general

number of units

- per CPU / maximum

3

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

- by means of a permanent connection
- by means of demand-oriented connection
- note

Telecontrol Server Basic

supported

supported

Connection to SCADA system using OPC interface

protocol / is supported

- DNP3
- IEC 60870-5

No

No

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
- in receive direction / maximum

3

15

performance data / teleservice

diagnostics function / online diagnostics with SIMATIC STEP 7

Yes

product function

- program download with SIMATIC STEP 7
- remote firmware update

Yes

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, 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 |

further information / internet-Links

| | |
|---|---|
| Internet-Link | |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx-Download-Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

security information

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