

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) • for power supply | 1 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) • for power supply | SMA socket (50 ohms) 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 / SMS | Yes |
| • is supported / GPRS | Yes |
| • Note | GPRS (Multislot Class 10) |
| Type of mobile network / is supported | |
| • GSM | Yes |
| • UMTS | Yes |
| • 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 | |
| • from external supply voltage / at DC / at 24 V / typical | 0.1 A |
| • 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 weight

| | |
|---------------------------|-------------------------------------|
| Module format | Compact module S7-1200 single width |
| Width | 30 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Net weight | 0.133 kg |
| Mounting type | |
| • 35 mm 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 e-mail 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: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • 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

Security information

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