

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 <ul style="list-style-type: none"> — with downlink / maximum — with uplink / maximum | <p>42 Mbit/s</p> <p>5.76 Mbit/s</p> |
|--|-------------------------------------|

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 | <p>1</p> <p>1</p> |
| 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 | <p>SMA socket (50 ohms)</p> <p>3-pole terminal block</p> |
| 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 mobile 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 |
| Mounting type | |
| <ul style="list-style-type: none"> • 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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