

Product type designation

CP 1243-7 LTE US

Communications processor CP 1243-7 LTE US for Connection of SIMATIC S7-1200 to LTE network in American frequency band



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 	

Signal inputs/outputs

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	
<ul style="list-style-type: none"> • 850 MHz 	Yes
<ul style="list-style-type: none"> • 1900 MHz 	Yes
Operating frequency / for LTE transmission	700 MHz, 1700 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
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 / multi-protocol mode

Number of possible connections

- as e-mail client / maximum

1

Performance data / PROFINET CBA

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

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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
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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	
<ul style="list-style-type: none"> password protection for teleservice access 	Yes
<ul style="list-style-type: none"> encrypted data transmission 	Yes

Product functions / time

Protocol / is supported	
<ul style="list-style-type: none"> NTP 	Yes
time synchronization	
<ul style="list-style-type: none"> from control center 	Yes

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com

Security information

Security information

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