

Product type designation

CP 1243-7 LTE EU
 CP 1243-7 LTE EU COMMUNICATION PROCESSOR FOR CONNECTION OF SIMATIC S7-1200 TO LTE NET WITH EUROP. FREQ.



Transmission 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 • Note 	SMS, GPRS GPRS (Multislot Class 10)
Type of mobile network / is supported	GSM, UMTS, LTE
Operating frequency	
<ul style="list-style-type: none"> • for GSM transmission • with UMTS transmission • for LTE transmission 	900 MHz, 1800 MHz 900 MHz, 2100 MHz 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 • from external supply voltage / at DC / at 24 V / maximum 	0.1 A 0.22 A

Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport 	-20 ... +60 °C -20 ... +70 °C -40 ... +70 °C -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	
<ul style="list-style-type: none"> • 35 mm DIN rail mounting • S7-300 rail mounting • wall mounting 	Yes No Yes

Product properties, functions, components / general

Number of units	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • by means of T blocks / maximum 	like CPU
Performance data / IT functions	
Number of possible connections	
<ul style="list-style-type: none"> • as e-mail client / maximum 	1
Performance data / telecontrol	
Suitability for use	
<ul style="list-style-type: none"> • substation 	Yes
Control center connection	Telecontrol Server Basic supported
<ul style="list-style-type: none"> • by means of a permanent connection • by means of demand-oriented connection • Note 	supported Connection to SCADA system using OPC interface
Protocol / is supported	
<ul style="list-style-type: none"> • DNP3 • IEC 60870-5 	No No
Product function / data buffering if connection is aborted	Yes; 64,000 values
Performance data / Teleservice	
Diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
Product function	
<ul style="list-style-type: none"> • program download with SIMATIC STEP 7 • Remote firmware update 	Yes Yes
Configuration software	
<ul style="list-style-type: none"> • required 	STEP 7 Basic/Professional V13 SP1 or higher
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / Security	
Firewall version	stateful inspection
Product function / with VPN connection	IPSec
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 • encrypted data transmission 	Yes 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 • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support 	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

Security information	
Security information	<p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)</p>

last modified: 10/28/2016