

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	
<ul style="list-style-type: none"> for LTE transmission <ul style="list-style-type: none"> with downlink / maximum with uplink / maximum 	42 Mbit/s 5.76 Mbit/s
interfaces	
number of interfaces / according 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	
<ul style="list-style-type: none"> SMS GPRS 	Yes Yes GPRS (Multislot Class 10)
type of wireless network / is supported	
<ul style="list-style-type: none"> GSM UMTS LTE 	Yes Yes Yes
operating frequency	
<ul style="list-style-type: none"> 850 MHz 1900 MHz 	Yes 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 from external supply voltage / at DC / at 24 V / maximum 	0.1 A 0.22 A

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	
<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 S7-300 rail mounting wall mounting 	Yes No Yes
product features, product functions, product components / general	
number of units	
<ul style="list-style-type: none"> per CPU / maximum 	3
product functions / cloud connectivity	
protocol / is supported	
<ul style="list-style-type: none"> Message Queuing Telemetry Transport (MQTT) Advanced Message Queuing Protocol (AMQP) 	Yes No
product function / for cloud connectivity	
<ul style="list-style-type: none"> trigger management time stamping 	Yes Yes
product feature / for cloud connectivity / buffered message frame memory	No
number of active connections / for cloud connectivity	1
number of data points per device / maximum	500
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 email client / maximum 	1
performance data / telecontrol	
suitability for use	
<ul style="list-style-type: none"> substation 	Yes
control center connection	Telecontrol Server Basic
<ul style="list-style-type: none"> by means of a permanent connection by means of demand-oriented connection note 	supported supported Connection to SCADA system using OPC interface
protocol / is supported	
<ul style="list-style-type: none"> DNP3 IEC 60870-5 	Yes Yes
product function / data buffering if connection is aborted	Yes; 64,000 events
number of stations / for direct communication / with Telecontrol Server Basic	
<ul style="list-style-type: none"> in send direction / maximum in receive direction / maximum 	3 15
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 	Yes

<ul style="list-style-type: none"> remote firmware update 	Yes
product functions / management, configuration, engineering	
configuration software	
<ul style="list-style-type: none"> 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	
<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
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
certificate of suitability / CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to web page: SiePortal 	https://sieportal.siemens.com
<ul style="list-style-type: none"> to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>

Approvals / Certificates		
General Product Approval	For use in hazardous locations	Radio Equipment Type Approval Certificate

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[CCC-Ex](#)

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Environment

[Confirmation](#)

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