

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 	<p>42 Mbit/s</p> <p>5.76 Mbit/s</p>
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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 	<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 • is supported / GPRS • note 	<p>Yes</p> <p>Yes</p> <p>GPRS (Multislot Class 10)</p>
type of wireless network / is supported	
<ul style="list-style-type: none"> • GSM • UMTS • LTE 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
operating frequency	
<ul style="list-style-type: none"> • 850 MHz • 1900 MHz 	<p>Yes</p> <p>Yes</p>
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 / 	<p>0.1 A</p> <p>0.22 A</p>

maximum

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 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	
• 35 mm top hat DIN rail mounting	Yes
• S7-300 rail mounting	No
• wall mounting	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
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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 email client / maximum	1

performance data / telecontrol

suitability for use	
• substation	Yes
control center connection	Telecontrol Server Basic supported
• by means of a permanent connection	supported
• by means of demand-oriented connection	supported
• note	Connection to SCADA system using OPC interface
protocol / is supported	
• DNP3	Yes
• IEC 60870-5	Yes
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	3
• in receive direction / maximum	15

performance data / teleservice

diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function	
• program download with SIMATIC STEP 7	Yes
• remote firmware update	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 encrypted data transmission 	<p>Yes</p> <p>Yes</p>
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
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> to web page: selection aid TIA 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 	<p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
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>

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