

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"> <li>for LTE transmission                             <ul style="list-style-type: none"> <li>with downlink / maximum</li> <li>with uplink / maximum</li> </ul> </li> </ul>	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"> <li>for external antenna(s)</li> <li>for power supply</li> </ul>	1 1
number of slots	
<ul style="list-style-type: none"> <li>for SIM cards</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>for external antenna(s)</li> <li>for power supply</li> </ul>	SMA socket (50 ohms) 3-pole terminal block
slot version	
<ul style="list-style-type: none"> <li>for SIM card</li> </ul>	Standard
wireless technology	
type of mobile wireless service	
<ul style="list-style-type: none"> <li>is supported / SMS</li> <li>is supported / GPRS</li> <li>note</li> </ul>	Yes Yes GPRS (Multislot Class 10)
type of wireless network / is supported	
<ul style="list-style-type: none"> <li>GSM</li> <li>UMTS</li> <li>LTE</li> </ul>	Yes Yes Yes
operating frequency	
<ul style="list-style-type: none"> <li>850 MHz</li> <li>1900 MHz</li> </ul>	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"> <li>from external supply voltage / at DC / at 24 V / typical</li> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.1 A 0.22 A

ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-20 ... +60 °C -20 ... +70 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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"> <li>35 mm top hat DIN rail mounting</li> <li>S7-300 rail mounting</li> <li>wall mounting</li> </ul>	Yes No Yes
product features, product functions, product components / general	
number of units	
<ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>	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"> <li>by means of T blocks / maximum</li> </ul>	like CPU
performance data / IT functions	
number of possible connections	
<ul style="list-style-type: none"> <li>as email client / maximum</li> </ul>	1
performance data / telecontrol	
suitability for use	
<ul style="list-style-type: none"> <li>substation</li> </ul>	Yes
control center connection	Telecontrol Server Basic
<ul style="list-style-type: none"> <li>by means of a permanent connection</li> <li>by means of demand-oriented connection</li> <li>note</li> </ul>	supported supported Connection to SCADA system using OPC interface
protocol / is supported	
<ul style="list-style-type: none"> <li>DNP3</li> <li>IEC 60870-5</li> </ul>	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"> <li>in send direction / maximum</li> <li>in receive direction / maximum</li> </ul>	3 15
performance data / teleservice	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function	
<ul style="list-style-type: none"> <li>program download with SIMATIC STEP 7</li> <li>remote firmware update</li> </ul>	Yes Yes
product functions / management, configuration, engineering	
configuration software	
<ul style="list-style-type: none"> <li>required</li> </ul>	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
<b>product functions / time</b>	
protocol / is supported	
• NTP	Yes
time synchronization	
• from control center	Yes
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
• as marking	Ex nA IIC T4 Gc
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a> . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a> . (V3.4)

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