

### 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</li> </ul>	
— with downlink / maximum	42 Mbit/s
— with uplink / maximum	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> </ul>	1
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	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> </ul>	SMA socket (50 ohms)
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	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> </ul>	Yes
<ul style="list-style-type: none"> <li>is supported / GPRS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>note</li> </ul>	GPRS (Multislot Class 10)
type of wireless network / is supported	
<ul style="list-style-type: none"> <li>GSM</li> </ul>	Yes
<ul style="list-style-type: none"> <li>UMTS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>LTE</li> </ul>	Yes
operating frequency	
<ul style="list-style-type: none"> <li>850 MHz</li> </ul>	Yes
<ul style="list-style-type: none"> <li>1900 MHz</li> </ul>	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> </ul>	0.1 A
<ul style="list-style-type: none"> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.22 A

<b>ambient conditions</b>	
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
<b>design, dimensions and weights</b>	
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
<b>product features, product functions, product components / general</b>	
number of units	
• per CPU / maximum	3
<b>performance data</b>	
number of users/telephone numbers / definable / maximum	10
<b>performance data / open communication</b>	
number of possible connections / for open communication	
• by means of T blocks / maximum	like CPU
<b>performance data / IT functions</b>	
number of possible connections	
• as email client / maximum	1
<b>performance data / telecontrol</b>	
suitability for use	
• substation	Yes
control center connection	Telecontrol Server Basic
• 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
<b>performance data / teleservice</b>	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function	
• program download with SIMATIC STEP 7	Yes
• remote firmware update	Yes
<b>product functions / management, configuration, engineering</b>	
configuration software	
• required	STEP 7 Basic/Professional
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / security</b>	
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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