

### 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 / is supported	
<ul style="list-style-type: none"> <li>SMS</li> </ul>	Yes
<ul style="list-style-type: none"> <li>GPRS</li> </ul>	Yes
<ul style="list-style-type: none"> <li></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 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>product functions / cloud connectivity</b>	
protocol / is supported	
• Message Queuing Telemetry Transport (MQTT)	Yes
• Advanced Message Queuing Protocol (AMQP)	No
product function / for cloud connectivity	
• trigger management	Yes
• time stamping	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
<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

<ul style="list-style-type: none"> <li>remote firmware update</li> </ul>	Yes
<b>product functions / management, configuration, engineering</b>	
configuration software	
<ul style="list-style-type: none"> <li>required</li> </ul>	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	
<ul style="list-style-type: none"> <li>password protection for teleservice access</li> </ul>	Yes
<ul style="list-style-type: none"> <li>encrypted data transmission</li> </ul>	Yes
<b>product functions / time</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>NTP</li> </ul>	Yes
time synchronization	
<ul style="list-style-type: none"> <li>from control center</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
reference code	
<ul style="list-style-type: none"> <li>according to IEC 81346-2:2019</li> </ul>	KEC
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> </ul>	180.78 kg
<ul style="list-style-type: none"> <li>during manufacturing</li> </ul>	15.34 kg
<ul style="list-style-type: none"> <li>during operation</li> </ul>	165.23 kg
<ul style="list-style-type: none"> <li>after end of life</li> </ul>	0.21 kg
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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 <a href="https://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
<b>Approvals / Certificates</b>	
General Product Approval	For use in hazardous locations
	Radio Equipment Type Approval Certificate

[Declaration of Con-  
formity](#)



[CCC-Ex](#)

[Miscellaneous](#)

## Environment

[Confirmation](#)

---

last modified:

2/28/2025 