

### product type designation



### CP 1243-7 LTE EU

Communications processor CP 1243-7 LTE EU for Connection of SIMATIC S7-1200 to LTE network in European frequency range.

### transfer rate

#### transfer rate

• for LTE transmission	
— 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	
• for external antenna(s)	1
• for power supply	1
number of slots	
• for SIM cards	1
type of electrical connection	
• for external antenna(s)	SMA socket (50 ohms)
• for power supply	3-pole terminal block
slot version	
• for SIM card	Standard

### wireless technology

type of mobile wireless service	
• is supported / SMS	Yes
• is supported / GPRS	Yes
• note	GPRS (Multislot Class 10)
type of wireless network / is supported	
• GSM	Yes
• UMTS	Yes
• LTE	Yes
operating frequency / for GSM transmission	900 MHz, 1800 MHz
operating frequency / with UMTS transmission	900 MHz, 2100 MHz
operating frequency / for LTE transmission	800 MHz, 1800 MHz, 2600 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	
• from external supply voltage / at DC / at 24 V / typical	0.1 A
• from external supply voltage / at DC / at 24 V / maximum	0.22 A

**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"> <li>password protection for teleservice access</li> <li>encrypted data transmission</li> </ul>	Yes 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 / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Image database</li> <li>to website: CAX-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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