SIEMENS

Data sheet 6GK7243-7SX30-0XE0

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 .

product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6GK7243-7SX30-0XE0
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
● GPRS	Yes
●	GPRS (Multislot Class 10)
type of wireless network / is supported	
● GSM	Yes
● UMTS	Yes
● LTE	Yes
operating frequency	
● 850 MHz	Yes
● 1900 MHz	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 %

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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 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
product functions / cloud connectivity	
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
performance data	
number of users/telephone numbers / definable / maximum	10
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
● 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

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● 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 function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
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
product functions / time	
protocol / is supported	
● NTP	Yes
time synchronization	
● from control center	Yes
standards, specifications, approvals	
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	180.78 kg
● during manufacturing	15.34 kg
● during operation	165.23 kg
● after end of life	0.21 kg
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	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

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Approvals / Certificates

General Product Approval					For use in hazardous locations
Declaration of Conformity	EAC	China RoHS	UL	China RoHS	ATEX

For use in hazardous locations			Radio Equipment Type Approval Certificate	Environment
IECEx	FM	CCC-Ex	Miscellaneous	EPD

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