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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 .



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	
● 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 %
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

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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
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
● 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
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

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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 / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
● as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
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 http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

last modified: 8/30/2023

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