SIEMENS

Data sheet

6GK7243-7KX30-0XE0

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 • for LTE transmission — with downlink / maximum — with uplink / maximum — unumber of interfaces / according to Industrial Ethernet — number of interfaces / according to Industrial Ethernet — number of interfaces / according to Industrial Ethernet — number of electrical connections • for external antenna(s) • for sSIM cards 1	transfer rate		
- with uplink / maximum 576 Mbit/s - with uplink / maximum 576 Mbit/s number of interfaces / according to Industrial Ethernet 0 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 • note GPRS (Multislot Class 10) type of wireless network / is supported • CSM Yes • UMTS Yes • U	transfer rate		
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for power supply slot version in or SIM card Standard wireless technology type of mobile wireless service is supported / SMS is supported / SMS is supported / GPRS in ote	type of electrical connection		
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for SIM card wireless technology type of mobile wireless service is supported / SMS is supported / GPRS is supported / GPRS in the supported / GPRS (Multislot Class 10) type of wireless network / is supported in GSM	• for power supply	3-pole terminal block	
type of mobile wireless service is supported / SMS is supported / GPRS in orde GPRS (Multislot Class 10) type of wireless network / is supported GPRS (Multislot Class 10) type of wireless network / is supported GPRS (Multislot Class 10) type of wireless network / is supported GPRS (Multislot Class 10) type of wireless network / is supported GPRS (Multislot Class 10) type of wireless network / is supported Yes UMTS 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 consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	slot version		
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UMTS LTE Yes operating frequency / for GSM transmission operating frequency / with UMTS transmission operating frequency / with UMTS transmission operating frequency / for LTE transmission 800 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 relative positive tolerance / at DC / at 24 V consumed current from external supply voltage / at DC / at 24 V / typical from external supply voltage / at DC / at 24 V / maximum 0.22 A	type of wireless network / is supported		
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operating frequency / for GSM transmission operating frequency / with UMTS transmission operating frequency / for LTE transmission 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 relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	• UMTS	Yes	
operating frequency / with UMTS transmission 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 relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	• LTE	Yes	
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type of voltage / of the supply voltage supply voltage / external supply voltage / external supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	operating frequency / with UMTS transmission	900 MHz, 2100 MHz	
type of voltage / of the supply voltage supply voltage / external supply voltage / external / at DC / rated value supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	operating frequency / for LTE transmission	800 MHz, 1800 MHz, 2600 MHz	
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	supply voltage, current consumption, power loss		
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	type of voltage / of the supply voltage	DC	
relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	supply voltage / external	24 V	
relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	supply voltage / external / at DC / rated value	24 V	
consumed current • from external supply voltage / at DC / at 24 V / typical • from external supply voltage / at DC / at 24 V / maximum 0.22 A	relative positive tolerance / at DC / at 24 V	20 %	
 from external supply voltage / at DC / at 24 V / typical from external supply voltage / at DC / at 24 V / maximum 0.1 A 0.22 A 	relative negative tolerance / at DC / at 24 V	20 %	
• from external supply voltage / at DC / at 24 V / maximum 0.22 A	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 / 	95 %
maximum	
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 / gen	eral
number of units	
per CPU / maximum	3
performance data	
number of users/telephone numbers / definable / maximum	10
performance data / open communication	10
number of possible connections / for open communication	Ele- ODLI
by means of T blocks / maximum	like CPU
performance data / IT functions	
number of possible connections	
as email client / maximum	1
performance data / telecontrol	
performance data / telecontrol suitability for use	
	Yes
suitability for use	Yes Telecontrol Server Basic
suitability for use • substation	1.00
suitability for use	Telecontrol Server Basic
suitability for use	Telecontrol Server Basic supported
suitability for use	Telecontrol Server Basic supported supported
suitability for use	Telecontrol Server Basic supported supported
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 product function	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes Yes; 64,000 events Yes
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 product function • program download with SIMATIC STEP 7	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes Yes; 64,000 events Yes Yes
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 product function • program download with SIMATIC STEP 7 • remote firmware update	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes Yes; 64,000 events Yes Yes
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 product function • program download with SIMATIC STEP 7 • remote firmware update product functions / management, configuration, engineering	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes Yes; 64,000 events Yes Yes
suitability for use • substation control center connection • by means of a permanent connection • by means of demand-oriented connection • note protocol / is supported • DNP3 • IEC 60870-5 product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 product function • program download with SIMATIC STEP 7 • remote firmware update product functions / management, configuration, engineering configuration software • required	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events Yes Yes Yes Yes
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes Yes; 64,000 events Yes Yes Yes Yes Yes Yes Yes Ye
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events Yes Yes Yes Yes
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes Yes; 64,000 events Yes Yes Yes Yes Yes Yes Yes
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes Yes; 64,000 events Yes Yes Yes Yes Yes STEP 7 Basic/Professional Yes stateful inspection
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events Yes Yes Yes Yes Yes Yes Yes Yes
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events Yes Yes Yes Yes Yes Yes Yes Yes
suitability for use	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface Yes Yes Yes; 64,000 events Yes Yes Yes Yes Yes Yes Yes Yes

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)

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