SIEMENS

Data sheet 6GK7242-7KX31-0XE0

product type designation	**CP 1242-7 V2**



- - spare part - - communications processor CP 1242-7 V2 for connection of SIMATIC S7-1200 to GSM/GPRS network; web server access to CPU, data point configuration, observe national approvals.

product brand name	SIMATIC NET
transfer rate	
transfer rate	
● for GPRS transmission	
— with downlink / maximum	86 kbit/s
— with uplink / maximum	43 kbit/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	No
● LTE	No
operating frequency	
● 850 MHz	Yes
● 900 MHz	Yes
● 1800 MHz	Yes
● 1900 MHz	Yes
transmit power	
● at operating frequency 900 MHz	2 W
● at operating frequency 1800 MHz	1 W
● at operating frequency 1900 MHz	1 W
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC

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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
power loss [W]	2.4 W
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
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	
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	No
● IEC 60870-5	No
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	

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● required	STEP 7 Basic/Professional
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / security	
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 / header	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● 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 cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. 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 https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

China RoHS

China RoHS

For use in hazardous locations

FM

CCC-Ex

Radio Equipment Type Approval Certificate

Miscellaneous

Miscellaneous

Radio Equipment Type Approval Certificate	Maritime application	Environment

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Miscellaneous







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