SIEMENS

Data sheet

6GK7242-7KX30-0XE0

Product type designation

CP 1242-7

Communications processor CP 1242-7 for connection of SIMATIC S7-1200 to GSM/GPRS network Observe national approvals



Transmission rate		
Transfer rate		
 for GPRS transmission 		
— with downlink / maximum	86 kbit/s	
— with uplink / maximum	43 kbit/s	

Interfaces	
Number of interfaces / acc. 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 mobile 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
at operating noquency root init	
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 /	0.1 A
typical	0.22 A
 from external supply voltage / at DC / at 24 V / maximum 	0.22 A
Power loss [W]	2.4 W
1 0000 1000 [11]	2.1 00
Permitted ambient conditions	
Ambient temperature	
 for vertical installation / during operation 	0 45 °C
 for horizontally arranged busbars / during 	0 55 °C
operation	40
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 weight	

Module format	Compact module S7-1200 single width
Width	30 mm
Height	100 mm
Depth	75 mm
Net weight	0.133 kg
Mounting type	, and the second
35 mm DIN rail mounting	Yes
• S7-300 rail mounting	No
• wall mounting	Yes
Product properties, functions, components / genera	al
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 TC blocks / maximum	5
Amount of data	
as user data per polling / maximum	1024 byte
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; up to 1000 message frames
Amount of data / as user data per station / in telecontrol mode / maximum	2048 byte
Performance data / Teleservice	
Diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
Product function	
 program download with SIMATIC STEP 7 	Yes
Remote firmware update	No
Configuration software	

Product functions / Security

Product function

- password protection for teleservice access
- encrypted data transmission

Yes

Yes

Product functions / Time

Protocol / is supported

NTP

Yes

Accessories

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET

SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

Security information

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