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
Supply voltage, current consumption, power loss	DO.
Type of voltage / of the supply voltage	DC
Supply voltage / external	24 V
Supply voltage / external / at DC / Rated value	24 V 20 %
Relative positive tolerance / at DC / at 24 V Relative negative tolerance / at DC / at 24 V	20 %
Consumed current	20 /6
 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	0 45 °C
 for horizontally arranged busbars / during operation 	0 55 °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

Module format Width Width 30 mm Height 100 mm Depth 75 mm Net weight • 35 mm DIN rail mounting • 57-300 rail mounting • wall mounting • wall mounting Product properties, functions, components / general Number of unts • per CPU / maximum 3 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 • by means of a permanent connection • by means of a permanent connection • by means of demand-oriented connection • Note Product function / data buffering if connection is aborted Amount of data / as user data per station / in telecontrol Server Basic Amount of data / as user data per station / in telecontrol Connection mode / maximum Number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum • in receive direction / maximum • in receive direction / maximum Yes Yes Yes Yes Yes Yes Yes Ye	Design, dimensions and weight	
Height	Module format	Compact module S7-1200 single width
Depth Net weight Mounting type - 35 mm DIN rail mounting - wall mounting - wa	Width	30 mm
Net weight Mounting type 3 5 mm DIN rail mounting No wall mounting Product properties, functions, components / general Number of units per CPU / maximum Performance data Number of users/telephone numbers / definable / maximum Performance data / open communication Number of possible connections / for open communication Amount of data as user data per polling / maximum 1024 byte Performance data / telecontrol Control center connection by means of a permanent connection by means of apermanent connection vhy means of demand-oriented connection Note Protocol / is supported DNP3 No IEC 60870-5 Product function / data buffering if connection is aborted Amount of data / as user data per station / in telecontrol mode / maximum Number of stations / for direct communication / with Telecontrol Server Basic in send direction / maximum Number of stations / for direct communication / with Telecontrol Server Basic in send direction / maximum 15 Performance data / Teleservice Diagnostics function / online diagnostics with Yes	Height	100 mm
Mounting type • 35 mm DIN rail mounting • 57-300 rail mounting • wall mounting • wall mounting Product properties, functions, components / general Number of units • per CPU / maximum 3 Performance data Number of users/felephone numbers / definable / maximum 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 • by means of a permanent connection • by means of demand-oriented connection • by means of data / susported • DNP3 • IEC 60870-5 Product function / data buffering if connection is aborted Amount of data / as user data per station / in telecontrol mode / maximum Number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum Number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum 15 Performance data / Teleservice Diagnostics function / online diagnostics with Yes	Depth	75 mm
S 7-300 rail mounting S 7-300 rail mounting No wall mounting No vall mounting No Product properties, functions, components / general Number of units • per CPU / maximum 3 Performance data Number of users/telephone numbers / definable / 10 maximum Performance data / open communication Number of possible connections / for open communication • by means of TC blocks / maximum Samunut of data • as user data per polling / maximum 1024 byte Performance data / telecontrol Control center connection • by means of a permanent connection • by means of demand-oriented connection • by means of demand-oriented connection • by means of demand-oriented connection • Note Protocol / is supported • DNP3 • IEC 60870-5 Product function / data buffering if connection is aborted Amount of data / as user data per station / in telecontrol mode / maximum Number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum Number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum 15 Performance data / Teleservice Diagnostics function / online diagnostics with Yes	Net weight	0.133 kg
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Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum 15 Performance data / Teleservice Diagnostics function / online diagnostics with Yes	•	2048 byte
• in receive direction / maximum Performance data / Teleservice Diagnostics function / online diagnostics with Yes		
Performance data / Teleservice Diagnostics function / online diagnostics with Yes	• in send direction / maximum	3
Diagnostics function / online diagnostics with Yes	• in receive direction / maximum	15
	Performance data / Teleservice	
		Yes

Product function

• program download with SIMATIC STEP 7

• Remote firmware update

Yes No

ote iiimware update

Product functions / management, configuration

Configuration software

• required

STEP 7 Basic/Professional

Product functions / Security

Product function

password protection for teleservice access

Yes

encrypted data transmission

Yes

Product functions / Time

Protocol / is supported

• NTP

Yes

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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newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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