SIEMENS

Data sheet

6GK7242-7KX31-0XE0

Product type designation



CP 1242-7 V2

CP 1242-7 V2 COMMUNICATIONS PROCESSOR FOR CONNECTING SIMATIC S7-1200 TO GSM/GPRS NETWORK; WEB SERVER ACCESS TO CPU, DATA POINT CONFIGURING, PLEASE NOTE 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 modulation recommize	
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 11
Permitted ambient conditions	
Ambient temperature	
 for vertical installation / during operation 	-20 +60 °C
 for horizontally arranged busbars / during 	-20 +70 °C
operation	40 170 ° 0
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	

Height	Module format	Compact module S7-1200 single width
Depth 75 mm Net weight 0.133 kg Mounting type • 35 mm DIN rail mounting Yes • 57-300 rail mounting No • wall mounting Yes Product properties, functions, components / general Number of units • per CPU / maximum 3 Performance data Number of users/telephone numbers / definable / maximum Performance data / open communication Number of possible connections / for open communication • by means of T blocks / maximum 1 like CPU Performance data / IT functions Number of possible connections • as e-mail client / maximum 1 Performance data / telecontrol Control center connection • by means of a permanent 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 • NNP3 • IEC 60870-5 Product function / data buffering if connection is aborted Performance data / Teleservice Diagnostics function / online diagnostics with SIMATIC STEP 7 Product function of very expense of the program download with SIMATIC STEP 7 • Remote firmware update Configuration software	Width	30 mm
Net weight Mounting type • 35 mm DIN rail mounting • S7.300 rail mounting • wall mounting No • wall mounting Product properties, functions, components / general Number of units • per CPU / maximum Performance data Number of users/telephone numbers / definable / maximum Number of possible connections / for open communication Number of possible connections / for open communication • by means of T blocks / maximum Ilike CPU Performance data / IT functions Number of possible connections • by means of T maximum 1 Performance data / It functions Number of possible connections • by means of a permanent connection • by means of a permanent connection • by means of a permanent connection • by means of demand-oriented connection • by means of demand-oriented connection • Note Product function / data buffering if connection is alborted Performance data / Teleservice Diagnostics function / online diagnostics with SIMATIC STEP 7 Product function • Program download with SIMATIC STEP 7 • Remote firmware update Ves Configuration sortware	Height	100 mm
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* 35 mm DIN rail mounting * S7-300 rail mounting * wall mounting **Performance data Number of users/telephone numbers / definable / maximum **Performance data / open communication Number of possible connections / for open communication **Number of possible connections / for open communication **Number of possible connections * as e-mail client / maximum 1**Performance data / IT functions Number of possible connections * as e-mail client / maximum 1**Performance data / telecontrol Control center connection * by means of a permanent connection * by means of demand-oriented connection * Note Protocol / is supported * DNP3 * IEC 60870-5 * No Product function / data buffering if connection is aborted Diagnostics function / online diagnostics with SIMATIC STEP 7 Product function * program download with SIMATIC STEP 7 * Remote firmware update Configuration software	Net weight	0.133 kg
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Number of units	wall mounting	Yes
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SIMATIC STEP 7 Product function • program download with SIMATIC STEP 7 • Remote firmware update Configuration software		
 program download with SIMATIC STEP 7 Remote firmware update Configuration software 	-	Yes
● Remote firmware update Configuration software Yes	Product function	
Configuration software	program download with SIMATIC STEP 7	Yes
	 Remote firmware update 	Yes
• required STEP 7 Basic/Professional V13 SP1 or higher	Configuration software	
	• required	STEP 7 Basic/Professional V13 SP1 or higher

Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Draduct functions / Coought	
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
Further Information / Internet Links	

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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