SIEMENS

Data sheet	6GK7242-7KX31-0XE0

Product type designation	CP 1242-7 V2
	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

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

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 / typical	0.1 A
• from external supply voltage / at DC / at 24 V / maximum	0.22 A
Power loss [W]	2.4 W

Permitted 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 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	
• 35 mm DIN rail mounting	Yes
• S7-300 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	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 e-mail 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 values
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

Configuration software	
• required	STEP 7 Basic/Professional

Product functions / Diagnosis

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

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• 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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