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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, GPRS
• Note	GPRS (Multislot Class 10)
Type of mobile network / is supported	GSM
Operating frequency	850 MHz, 900 MHz, 1800 MHz, 1900 MHz
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

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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

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
Configuration software	
• required	STEP 7 Basic/Professional V13 SP1 or higher

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	

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• 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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