

Product type designation

CP 1242-7

COMMUNICATION PROCESSOR CP 1242-7 FOR CONNECTION
OF SIMATIC S7-1200 TO GSM/GPRS NET 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 • Note	SMS, GPRS 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 • at operating frequency 1800 MHz • at operating frequency 1900 MHz	2 W 1 W 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 • from external supply voltage / at DC / at 24 V / maximum	0.1 A 0.22 A
Power loss [W]	2.4 W

Permitted ambient conditions

Ambient temperature	
• for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport	0 ... 45 °C 0 ... 55 °C -40 ... +70 °C -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 • S7-300 rail mounting • wall mounting	Yes No 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 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	
• required	STEP 7 Basic/Professional V11 + HSP (TIA Portal) or higher
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	
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last modified: 10/21/2016