

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

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
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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

Product functions / Diagnosis

Product function / Web-based diagnostics	Yes
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Product functions / Security

Product function

- password protection for teleservice access
- encrypted data transmission

Yes

Yes

Product functions / Time

Protocol / is supported

- NTP

Yes

time synchronization

- from control center

Yes

Accessories

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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