

### 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	
<ul style="list-style-type: none"> <li>• for external antenna(s) 1</li> <li>• for power supply 1</li> </ul>	
Number of slots	
<ul style="list-style-type: none"> <li>• for SIM cards 1</li> </ul>	
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for external antenna(s) SMA socket (50 ohms)</li> <li>• for power supply 3-pole terminal block</li> </ul>	
Slot version	
<ul style="list-style-type: none"> <li>• for SIM card Standard</li> </ul>	

Wireless technology	
Type of mobile wireless service	
<ul style="list-style-type: none"> <li>• is supported</li> <li>• Note</li> </ul>	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	
<ul style="list-style-type: none"> <li>• at operating frequency 900 MHz</li> <li>• at operating frequency 1800 MHz</li> <li>• at operating frequency 1900 MHz</li> </ul>	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	
<ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / typical</li> <li>• from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.1 A 0.22 A
Power loss [W]	2.4 W

Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> <li>• for vertical installation / during operation</li> <li>• for horizontally arranged busbars / during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	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	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> <li>• S7-300 rail mounting</li> <li>• wall mounting</li> </ul>	Yes No Yes

## Product properties, functions, components / general

Number of units	
<ul style="list-style-type: none"> <li>• per CPU / maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>• by means of TC blocks / maximum</li> </ul>	5
Amount of data	
<ul style="list-style-type: none"> <li>• as user data per polling / maximum</li> </ul>	1024 byte

## Performance data / telecontrol

Control center connection	Telecontrol Server Basic
<ul style="list-style-type: none"> <li>• by means of a permanent connection</li> <li>• by means of demand-oriented connection</li> <li>• Note</li> </ul>	supported supported Connection to Scada system using OPC interface
Protocol / is supported	
<ul style="list-style-type: none"> <li>• DNP3</li> <li>• IEC 60870-5</li> </ul>	No 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	
<ul style="list-style-type: none"> <li>• program download with SIMATIC STEP 7</li> <li>• Remote firmware update</li> </ul>	Yes No
Configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 Basic/Professional V11 + HSP (TIA Portal) or higher

## Product functions / Security

Product function	
<ul style="list-style-type: none"> <li>• password protection for teleservice access</li> <li>• encrypted data transmission</li> </ul>	Yes Yes

## Product functions / Time

Protocol / is supported / NTP	Yes
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## Further Information / Internet Links

Internet-Link	
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- 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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