

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



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

Wireless technology

Type of mobile wireless service	
<ul style="list-style-type: none"> • is supported / SMS 	Yes
<ul style="list-style-type: none"> • is supported / GPRS 	Yes
<ul style="list-style-type: none"> • Note 	GPRS (Multislot Class 10)
Type of mobile network / is supported	
<ul style="list-style-type: none"> • GSM 	Yes
<ul style="list-style-type: none"> • UMTS 	No
<ul style="list-style-type: none"> • LTE 	No
Operating frequency	
<ul style="list-style-type: none"> • 850 MHz 	Yes
<ul style="list-style-type: none"> • 900 MHz 	Yes
<ul style="list-style-type: none"> • 1800 MHz 	Yes
<ul style="list-style-type: none"> • 1900 MHz 	Yes
Transmit power	
<ul style="list-style-type: none"> • at operating frequency 900 MHz 	2 W
<ul style="list-style-type: none"> • at operating frequency 1800 MHz 	1 W
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • from external supply voltage / at DC / at 24 V / typical 	0.1 A
<ul style="list-style-type: none"> • from external supply voltage / at DC / at 24 V / maximum 	0.22 A
Power loss [W]	2.4 W

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • for vertical installation / during operation 	-20 ... +60 °C
<ul style="list-style-type: none"> • for horizontally arranged busbars / during operation 	-20 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20

Design, dimensions and weights

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"> • 35 mm DIN rail mounting 	Yes
<ul style="list-style-type: none"> • S7-300 rail mounting 	No
<ul style="list-style-type: none"> • wall mounting 	Yes

Product features, product functions, product components / general

Number of units	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • by means of T blocks / maximum 	like CPU

Performance data / IT functions

Number of possible connections	
<ul style="list-style-type: none"> • as e-mail client / maximum 	1

Performance data / telecontrol

Control center connection	Telecontrol Server Basic
<ul style="list-style-type: none"> • by means of a permanent connection 	supported
<ul style="list-style-type: none"> • by means of demand-oriented connection 	supported
<ul style="list-style-type: none"> • Note 	Connection to SCADA system using OPC interface
Protocol / is supported	
<ul style="list-style-type: none"> • DNP3 	No
<ul style="list-style-type: none"> • IEC 60870-5 	No
Product function / data buffering if connection is aborted	Yes; 64,000 events
Number of stations / for direct communication / with Telecontrol Server Basic	
<ul style="list-style-type: none"> • in send direction / maximum 	3
<ul style="list-style-type: none"> • 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
- Remote firmware update

Yes
Yes

Product functions / management, configuration, engineering

Configuration software

- required

STEP 7 Basic/Professional

Product functions / Diagnostics

Product function / Web-based diagnostics

Yes

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

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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