

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



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"> • 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

Permitted 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 / 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"> • 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 properties, functions, 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 values

Performance data / Teleservice

Diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
Product function	
<ul style="list-style-type: none"> • program download with SIMATIC STEP 7 	Yes
<ul style="list-style-type: none"> • Remote firmware update 	Yes
Configuration software	
<ul style="list-style-type: none"> • required 	STEP 7 Basic/Professional

Product functions / Diagnosis

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

Product function	
• password protection for teleservice access	Yes
• encrypted data transmission	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	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	<p>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)</p>
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