

product type designation



CP 1242-7

***** spare part ***** communications processor CP 1242-7 for connection of SIMATIC S7-1200 to GSM/GPRS network observe national approvals

transfer rate	
transfer rate	
<ul style="list-style-type: none"> for GPRS transmission <ul style="list-style-type: none"> — with downlink / maximum — with uplink / maximum 	86 kbit/s 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 is supported / GPRS note 	Yes Yes GPRS (Multislot Class 10)
type of wireless network / is supported	
<ul style="list-style-type: none"> GSM UMTS LTE 	Yes No No
operating frequency	
<ul style="list-style-type: none"> 850 MHz 900 MHz 1800 MHz 1900 MHz 	Yes Yes Yes Yes
transmit power	
<ul style="list-style-type: none"> 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	0.1 A
• from external supply voltage / at DC / at 24 V / maximum	0.22 A
power loss [W]	2.4 W
ambient conditions	
ambient temperature	
• for vertical installation / during operation	0 ... 45 °C
• for horizontally arranged busbars / during operation	0 ... 55 °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 weights	
module format	Compact module S7-1200 single width
width	30 mm
height	100 mm
depth	75 mm
net weight	0.133 kg
fastening method	
• 35 mm top hat DIN rail mounting	Yes
• S7-300 rail mounting	No
• wall mounting	Yes
product features, product functions, product 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
data volume	
• 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
data volume / as user data per station / in telecontrol mode / maximum	2048 byte
number of stations / for direct communication / with Telecontrol Server Basic	
• in send direction / maximum	3
• 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	Yes
• remote firmware update	No

product functions / management, configuration, engineering	
configuration software	
<ul style="list-style-type: none"> required 	STEP 7 Basic/Professional
product functions / security	
product function	
<ul style="list-style-type: none"> password protection for teleservice access 	Yes
<ul style="list-style-type: none"> encrypted data transmission 	Yes
product functions / time	
protocol / is supported	
<ul style="list-style-type: none"> NTP 	Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> to web page: selection aid TIA 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/tia-selection-tool 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	<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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