

product type designation



Figure similar

SIPLUS S7-1200 CP 1242-7 V2

SIPLUS NET CP 1242-7 V2 based on 6GK7242-7KX31-0XE0 with conformal coating, -40...+70 °C, start up 0 °C, 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	
<ul style="list-style-type: none"> for GPRS transmission 	
<ul style="list-style-type: none"> — with downlink / maximum 	86 kbit/s
<ul style="list-style-type: none"> — with uplink / maximum 	43 kbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	0
number of electrical connections	
<ul style="list-style-type: none"> for external antenna(s) 	1
<ul style="list-style-type: none"> for power supply 	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) 	SMA socket (50 ohms)
<ul style="list-style-type: none"> for power supply 	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 wireless 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	
• 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	-40 ... +60 °C
• for horizontally arranged busbars / during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• note	Startup @ 0 °C
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
relative humidity	
• with condensation / according to IEC 60068-2-38 / maximum	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances	
• conformity according to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
• conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
• conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.
• conformity according to EN 60721-3-6	Yes
resistance to mechanically active substances	
• conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
• conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / according to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / according to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, class A
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 T blocks / maximum	like CPU

performance data / IT functions	
number of possible connections • as email client / maximum	1
performance data / telecontrol	
control center connection • by means of a permanent connection • by means of demand-oriented connection • note	Telecontrol Server Basic supported supported Connection to SCADA system using OPC interface
protocol / is supported • DNP3 • IEC 60870-5	No No
product function / data buffering if connection is aborted	Yes; 64,000 events
number of stations / for direct communication / with Telecontrol Server Basic • in send direction / maximum • in receive direction / maximum	3 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 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/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	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)

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