SIEMENS

SIPLUS NET CP 1242-7 V2 -40...+70 °C with conformal coating based on 6GK7242-7KX31-0XE0 . 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

Figure similar

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	
• for external antenna(s)	1
• for power supply	1
Number of slots	
• for SIM cards	1
Type of electrical connection	
• for external antenna(s)	SMA socket (50 ohms)
• for power supply	3-pole terminal block
Slot version	
• for SIM card	Standard

Wireless technology

Type of mobile wireless service	
• is supported / SMS	Yes
• is supported / GPRS	Yes
• Note	GPRS (Multislot Class 10)
Type of mobile network / is supported	
• GSM	Yes
• UMTS	No
• LTE	No
Operating frequency	
• 850 MHz	Yes
• 900 MHz	Yes
• 1800 MHz	Yes
• 1900 MHz	Yes
Transmit power	
• at operating frequency 900 MHz	2 W
• at operating frequency 1800 MHz	1 W
• 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
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 / acc. 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 acc. to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
• conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
Resistance to chemically active substances	
• conformity acc. 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 acc. to EN 60721-3-6	Yes
Resistance to mechanically active substances	
• conformity acc. 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 acc. 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 / acc. 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 / acc. 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 acc. 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
Mounting type	
• 35 mm 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 e-mail client / maximum	1

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; 64,000 events
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	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	Yes
• encrypted data transmission	Yes

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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	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

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