Data sheet



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	
<ul> <li>for GPRS transmission</li> </ul>	
— with downlink / maximum	86 kbit/s
— with uplink / maximum	43 kbit/s
interfaces	

interfaces	
number of interfaces / acc. to Industrial Ethernet	0
number of electrical connections	
<ul><li>for external antenna(s)</li></ul>	1
<ul><li>for power supply</li></ul>	1
number of slots	
• for SIM cards	1
type of electrical connection	
<ul><li>for external antenna(s)</li></ul>	SMA socket (50 ohms)
<ul><li>for power supply</li></ul>	3-pole terminal block
slot version	
• for SIM card	Standard

wireless technology type of mobile wireless service	
	Yes
• is supported / SMS	
• 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	DO.
type of voltage / of the supply voltage	DC
supply voltage / external	24 V 24 V
supply voltage / external / at DC / rated value	
relative positive tolerance / at DC / at 24 V	20 %
relative negative tolerance / at DC / at 24 V	20 %
relative negative tolerance / at DC / at 24 V consumed current	20 %
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V /	
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical	20 % 0.1 A
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V /	20 %
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum	20 %  0.1 A  0.22 A
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum  power loss [W]	20 % 0.1 A
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum  power loss [W]  ambient conditions	20 %  0.1 A  0.22 A
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum  power loss [W]  ambient conditions  ambient temperature	20 %  0.1 A  0.22 A  2.4 W
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation	20 %  0.1 A  0.22 A  2.4 W  -40 +60 °C
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum  power loss [W]  ambient conditions  ambient temperature	20 %  0.1 A  0.22 A  2.4 W
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during	20 %  0.1 A  0.22 A  2.4 W  -40 +60 °C
relative negative tolerance / at DC / at 24 V  consumed current  • from external supply voltage / at DC / at 24 V / typical  • from external supply voltage / at DC / at 24 V / maximum  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation	20 %  0.1 A  0.22 A  2.4 W  -40 +60 °C  -40 +70 °C



maximum

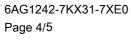
ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
relative humidity	
<ul> <li>with condensation / acc. to IEC 60068-2-38 / maximum</li> </ul>	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

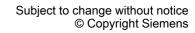


• per CPU / maximum	3	
performance data		
number of users/telephone numbers / definable /	10	
maximum		
performance data / open communication		
number of possible connections / for open		
communication		
• by means of T blocks / maximum	like CPU	
performance data / IT functions		
number of possible connections		
as e-mail client / maximum	1	
performance data / telecontrol		
control center connection	Telecontrol Server Basic	
<ul> <li>by means of a permanent connection</li> </ul>	supported	
<ul> <li>by means of demand-oriented connection</li> </ul>	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	Yes; 64,000 events	
aborted		
number of stations / for direct communication / with		
Telecontrol Server Basic		
<ul><li>in send direction / maximum</li></ul>	3	
• in receive direction / maximum	15	
performance data / teleservice		
diagnostics function / online diagnostics with	Yes	
SIMATIC STEP 7		
product function		
<ul> <li>program download with SIMATIC STEP 7</li> </ul>	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

• encrypted data transmission



Yes

Yes

product functions / time	
protocol / is supported	
• NTP	Yes
time synchronization	
• from control center	Yes

## Internet-Link

• to website: Selector 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. Thirdparty 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)

last modified:

10/12/2020

