SIEMENS

Data sheet

6AG1242-7KX31-7XE0

product type designation



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

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 / according 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
• GPRS	Yes
•	GPRS (Multislot Class 10)
type of wireless 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

cumply voltage / external / at DC / retad value	24.1/
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	0.4.4
• 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 DIN-rail mounting	Yes
S7-300 rail mounting	No
wall mounting	Yes
product features, product functions, product components / gen	**
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

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• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
internet link	
urther information / internet links	
time synchronization • from control center	Yes
NTP time synchronization	Yes
protocol / is supported	
roduct functions / time	
encrypted data transmission	Yes
 password protection for teleservice access 	Yes
product function	
roduct functions / security	
product function / web-based diagnostics	Yes
roduct functions / diagnostics	
• required	STEP 7 Basic/Professional
configuration software	
roduct functions / management, configuration, engineering	165
 program download with SIMATIC STEP 7 remote firmware update 	Yes
product function	Voc
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
erformance data / teleservice	V
in receive direction / maximum	15
• in send direction / maximum	3
Server Basic	
product function / data buffering if connection is aborted number of stations / for direct communication / with Telecontrol	165, 04,000 events
IEC 60870-5 product function / data buffering if connection is aborted.	No Yes; 64,000 events
• DNP3	No
protocol / is supported	
• note	Connection to SCADA system using OPC interface
 by means of demand-oriented connection 	supported
 by means of a permanent connection 	supported
control center connection	Telecontrol Server Basic
erformance data / telecontrol	
as email client / maximum	1



Miscellaneous

Manufacturer Declaration







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