SIEMENS

Data sheet

6AG2243-1BX30-1XE0

product type designation



SIPLUS S7-1200 CP 1243-1 RAIL

SIPLUS S7-1200 CP 1243-1 RAIL -25 ... +70°C (T1 with 70°C for 10 Min) with conformal coating based on 6GK7243-1BX30-0XE0

Figure similar

transfer rate	
transfer rate	
 at the 1st interface 	10 100 Mbit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	1
number of electrical connections	
 at the 1st interface / acc. to Industrial Ethernet 	1
 for power supply 	0
type of electrical connection	
 at the 1st interface / acc. to Industrial Ethernet 	RJ45 port
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage / 1 / from backplane bus	5 V
consumed current	
 from backplane bus / at DC / at 5 V / typical 	0.25 A
power loss [W]	1.25 W
ambient conditions	
ambient temperature	
 for vertical installation / during operation 	-25 +60 °C
 for horizontally arranged busbars / during operation 	-25 +70 °C
 during storage 	-40 +70 °C
 during transport 	-40 +70 °C
• note	+70 °C for 10 min (OT1, ST1/ST2 according to EN 50155)
installation altitude / at height above sea level / maximum	2000 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)
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 60721-3-5	Yes; Class 5B2 mold and fungal spores (excluding fauna), Class 5B3 on request
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 60721-3-5 	Yes; Class 5C3 (RH < 75%) including salt spray acc. to EN 60068-2-52 (Severity level 3). The supplied plug covers must remain in place over
	the unused interfaces during operation!
 resistance to mechanically active substances conformity acc. to EN 60721-3-3 	Vec: Class 394 incl. cand. dust. The supplied plug covers must remain
	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
conformity acc. to EN 60721-3-5	Yes; Class 5S3 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 coating / for electronic devices in railway applications acc. to EN 50155	Yes; Protective coating of the Class PC2 according to EN 50155:2017
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	110 mm
depth	75 mm
net weight	0.122 kg
fastening method	
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
product features, product functions, product components	/ general
number of units	
• per CPU / maximum	3
performance data / open communication	
number of possible connections / for open communication	
 by means of T blocks / maximum 	like CPU
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	like CPU
performance data / IT functions	
number of possible connections	
• as email client / maximum	1
performance data / telecontrol	
suitability for use	
node station	No
substation	Yes
TIM control center	No
control center connection	For use with TeleControl Server Basic, WinCC and PCS7
 by means of a permanent connection 	supported
• note	Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols
protocol / is supported	
• DNP3	Yes
• IEC 60870-5	Yes
product function / data buffering if connection is aborted	Yes; 64,000 events
number of data points per station / maximum	200
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	Yes

STEP 7	
product function	Vee
program download with SIMATIC STEP 7	Yes
• remote firmware update	Yes
product functions / management, configuration, engineer	ing
configuration software	
required	STEP 7 Basic/Professional
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / security	
firewall version	stateful inspection
product function / with VPN connection	IPsec, SINEMA RC
type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168
type of authentication procedure / with VPN connection type of hashing algorithms / with VPN connection	Preshared key (PSK), X.509v3 certificates
number of possible connections / with VPN connection	MD5, SHA-1, SHA-2 8
product function	0
product function protection for Web applications	No
 password protection for teleservice access 	No
encrypted data transmission	Yes
ACL - IP-based	No
ACL - IP-based for PLC/routing	No
 switch-off of non-required services 	Yes
 blocking of communication via physical ports 	No
 log file for unauthorized access 	No
product functions / time	
protocol / is supported	
• NTP	Yes
NTP (secure)	Yes
time synchronization	
 from NTP-server 	Yes
from control center	Yes
standards, specifications, approvals	
certificate of suitability	
 fire protection in accordance with EN 45545-2 	Yes; Railway vehicles - for proof, see Service & Support
railway application	
certificate of suitability / railway application in accordance with EN 50121-3-2	Yes; EMC for railway vehicles
certificate of suitability / railway application in accordance with EN 50121-4	Yes; EMC for signal and telecommunication equipment
certificate of suitability / railway application in accordance with EN 50124-1	Yes; Railway applications - Overvoltage category OV2 pollution degree PD2 rated impulse voltage UNi = 0.5 kVUNm = DC 24
certificate of suitability / railway application in accordance with EN 50125-1	Yes; Railway vehicles - See ambient conditions
certificate of suitability / railway application in accordance with EN 50125-2	Yes; Fixed-electrical installations - see ambient conditions
certificate of suitability / railway application in accordance with EN 50125-3	Yes; Signal and telecommunications equipment - see Ambient conditions vibrations and shocks: Application point outside the rails (distance 1 m to 3 m from rail)
certificate of suitability / railway application in accordance with EN 50155	Yes; Railway vehicles - temperature class OT1, ST1/ST2, horizontal mounting position
certificate of suitability / railway application in accordance with EN 61373	Yes; Railway vehicles - Vibrations and shocks Category 1 Class A/B
further information / internet-Links Internet-Link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/snst
to web page. selection and TA Selection room to website: Industrial communication	http://www.siemens.com/sinatic-net
to website: Industrial communication	https://www.semens.com/simaic-net
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

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)

last modified:

8/3/2021 🖸