Data sheet

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 	-25 +70 °C	
operation		
during storage	-40 +70 °C	
 during transport 	-40 +70 °C	
Installation altitude / at height above sea level /	2000 m	
maximum		
Ambient condition / relating to ambient temperature -	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
air pressure - installation altitude Relative humidity		
with condensation / acc. to IEC 60068-2-38 /	100 %; RH including condensation/frost (no commissioning when	
maximum	condensation is present), horizontal installation	
Chemical resistance / to commercially available	Yes; incl. airborne diesel and oil droplets	
cooling lubricants		
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	Vac. Class 2C4 /PH 4.75 0/) in all calls array in accordance with	
● 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 %) incl. salt spray in accordance with	
·	EN 50155 (ST2). 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	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must	
- ('' FN 00704.0.5	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	Yes; Class 2 for high availability	
EN 61086		
Type of coating / protection against pollution	Yes; Protection of the type 1	
according to EN 60664-3		
Type of coating / for electronic devices in railway	Yes; Protective coating of the Class PC2 according to EN	
applications acc. to EN 50155	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	Yes; Conformal coating, class A	
Printed Board Assemblies acc. to IPC-CC-830A		
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	
Mounting type		
• 35 mm 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 e-mail 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

Yes; 64,000 events

Number of data points per station / maximum

200

Number of stations / for direct communication / with

Telecontrol Server Basic

3

in send direction / maximumin receive direction / maximum

15

Performance data / teleservice		
Diagnostics function / online diagnostics with	Yes	
SIMATIC STEP 7		
Product function		
program download with SIMATIC STEP 7	Yes	
 Remote firmware update 	Yes	
Product functions / management, configuration, eng	gineering	
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	Preshared key (PSK), X.509v3 certificates	
Type of hashing algorithms / with VPN connection	MD5, SHA-1, SHA-2	
Number of possible connections / with VPN connection	8	
Product function		
 password 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	
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

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

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

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