

product type designation



Figure similar

SIPLUS S7-1200 CM 1243-5 RAIL

SIPLUS S7-1200 CM 1243-5 T1 rail based on 6GK7243-5DX30-0XE0 with conformal coating, -25...+55 °C, OT1 with ST1/2 (+70 °C für 10 minutes), communications module CM 1243-5 for connecting S7-1200 to PROFIBUS as DP master module

transfer rate	
transfer rate	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	9.6 kbit/s ... 12 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	0
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	1
<ul style="list-style-type: none"> for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	9-pin Sub-D socket (RS485)
<ul style="list-style-type: none"> for power supply 	3-pole terminal block
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	
<ul style="list-style-type: none"> from external supply voltage / at DC / at 24 V / typical 	0.1 A
power loss [W]	2.4 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation 	-25 ... +55 °C
<ul style="list-style-type: none"> during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> during transport 	-40 ... +70 °C
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> conformity according to EN 60721-3-3 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request

<ul style="list-style-type: none"> conformity according to EN 60721-3-5 	Yes; Class 5B2 mold and fungal spores (excluding fauna), Class 5B3 on request
resistance to chemically active substances <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-5 	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. 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 <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-5 	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation. 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 / 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 coating / for electronic devices in railway applications according to EN 50155	Yes; Protective coating of the Class PC2 according to EN 50155:2018
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	0.134 kg
fastening method <ul style="list-style-type: none"> 35 mm top hat DIN rail mounting S7-300 rail mounting wall mounting 	Yes No Yes
product features, product functions, product components / general	
number of units <ul style="list-style-type: none"> per CPU / maximum 	1
performance data / PROFIBUS DP	
service / as DP master <ul style="list-style-type: none"> DPV1 	Yes
number of DP slaves <ul style="list-style-type: none"> on DP master / operable 	16
data volume <ul style="list-style-type: none"> of the address range of the inputs / as DP master / total of the address range of the outputs / as DP master / total of the address range of the inputs / per DP slave of the address range of the outputs / per DP slave of the address range of the diagnostic data / per DP slave 	512 byte 512 byte 244 byte 244 byte 240 byte
service / as DP slave <ul style="list-style-type: none"> DPV0 DPV1 	No No
performance data / S7 communication	
number of possible connections / for S7 communication <ul style="list-style-type: none"> maximum with PG connections / maximum with PG/OP connections / maximum 	8; max. 4 connections to other S7 stations 1 3
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode <ul style="list-style-type: none"> without DP / maximum 	8

<ul style="list-style-type: none"> with DP / maximum 	8
performance data / telecontrol	
protocol / is supported <ul style="list-style-type: none"> TCP/IP 	No
product functions / management, configuration, engineering	
configuration software <ul style="list-style-type: none"> required 	#NO_DATA
standards, specifications, approvals	
certificate of suitability <ul style="list-style-type: none"> 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 $UNi = 0.5 \text{ kVUNm} = \text{DC } 24$
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 <ul style="list-style-type: none"> to web page: selection aid 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	
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