

product type designation

SIPLUS S7-1500 NET CM 1542-5

SIPLUS S7-1500 CM 1542-5 (Profibus) based on 6GK7542-5DX00-0XE0 with conformal coating, -40...+70 °C, start up -25 °C, communications module for connection of S7-1500 to PROFIBUS DP as DP master and DP Slave: S7 and PG/OP communication, time-of-day synchronization, diagnostics



Figure similar

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
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	9-pin Sub-D socket (RS485)
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage / 1 / from backplane bus	15 V
relative symmetrical tolerance / at DC	
<ul style="list-style-type: none"> at 15 V 	3 %
consumed current	
<ul style="list-style-type: none"> from backplane bus / at DC / at 15 V / typical 	0.2 A
power loss [W]	3 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> for vertical installation / during operation for horizontally arranged busbars / during operation during storage during transport note 	-40 ... +40 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C Startup @ -25 °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)
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 conformity according to EN 60721-3-6 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
<ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-6 	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

resistance to mechanically active substances	
<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • 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 S7-1500 single width
width	35 mm
height	142 mm
depth	129 mm
net weight	0.4 kg
fastening method	
<ul style="list-style-type: none"> • S7-1500 rail mounting 	Yes

product features, product functions, product components / general

number of units	
<ul style="list-style-type: none"> • per CPU / maximum 	8
<ul style="list-style-type: none"> • note 	depending on CPU type

performance data / open communication

number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	30
data volume	
<ul style="list-style-type: none"> • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	240 byte

performance data / PROFIBUS DP

service / as DP master	
<ul style="list-style-type: none"> • DPV1 	Yes
number of DP devices	
<ul style="list-style-type: none"> • on DP master / operable 	125
data volume	
<ul style="list-style-type: none"> • of the address range of the inputs / as DP master / total 	8192 byte
<ul style="list-style-type: none"> • of the address range of the outputs / as DP master / total 	8192 byte
<ul style="list-style-type: none"> • of the address range of the inputs / per DP device 	244 byte
<ul style="list-style-type: none"> • of the address range of the outputs / per DP device 	244 byte
service / as DP device	
<ul style="list-style-type: none"> • DPV0 	Yes
<ul style="list-style-type: none"> • DPV1 	Yes
data volume	
<ul style="list-style-type: none"> • of the address range of the inputs / as DP device / total 	240 byte
<ul style="list-style-type: none"> • of the address range of the outputs / as DP device / total 	240 byte

performance data / S7 communication

number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	48; depending on the system upper limit

performance data / multi-protocol mode

number of active connections / with multi-protocol mode	48
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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 	STEP 7 Professional V12 (TIA Portal) or higher
identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes

• I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	
product function / web-based diagnostics	Yes; via S7-1500 CPU
product functions / time	
product function / pass on time synchronization	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert . (V4.7)

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



[China RoHS](#)



General Product Approval **EMV** **For use in hazardous locations**



[CCC-Ex](#)



For use in hazardous locations **Maritime application** **Environment**



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