

SIPLUS S7-1500 CM 1542-5 based on 6GK7542-5DX10-0XE0 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 Device: S7 and PG/OP communication, time-of-day synchronization, diagnostics

transfer rate	
transfer rate	
• 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	
• at the 1st interface / according to PROFIBUS	1
type of electrical connection	
• 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	
• at 15 V	3 %
consumed current	
• from backplane bus / at DC / at 15 V / typical	0.2 A
power loss [W]	3 W
ambient conditions	
ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °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 S7-1500 single width
width	35 mm
height	142 mm
depth	129 mm
net weight	0.4 kg
fastening method	Yes
• S7-1500 rail mounting	
product features, product functions, product components / general	
number of units	8 depending on CPU type
• per CPU / maximum	
• note	
performance data / open communication	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	30
data volume	240 byte
• as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum	
performance data / PROFIBUS DP	
service / as DP master	Yes
• DPV1	
number of DP slaves	125
• on DP master / operable	
data volume	8192 byte 8192 byte 244 byte 244 byte
• 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	
service / as DP slave	Yes Yes
• DPV0	
• DPV1	
data volume	240 byte 240 byte
• of the address range of the inputs / as DP slave / total	
• of the address range of the outputs / as DP slave / total	
performance data / S7 communication	
number of possible connections / for S7 communication	48; depending on the system upper limit
• maximum	
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	48
performance data / telecontrol	
protocol / is supported	No
• TCP/IP	
product functions / management, configuration, engineering	
configuration software	STEP 7 Professional V18 (TIA Portal) or higher
• required	
identification & maintenance function	Yes Yes
• I&M0 - device-specific information	
• I&M1 - higher level designation/location designation	
product functions / diagnostics	
product function / web-based diagnostics	Yes; via S7-1500 CPU
product functions / time	
product function / pass on time synchronization	Yes
further information / internet links	
internet link	http://www.siemens.com/tia-selection-tool 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
• 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	

security information

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