

product type designation



Figure similar

CM 1542-5

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	
<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)
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 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 	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

<ul style="list-style-type: none"> conformity according to EN 60721-3-6 	<p>interfaces during operation.</p> <p>Yes</p>
<p>resistance to mechanically active substances</p> <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-6 	<p>Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.</p> <p>Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.</p>
<p>coating / for equipped printed circuit board / according to EN 61086</p>	<p>Yes; Class 2 for high availability</p>
<p>type of coating / protection against pollution according to EN 60664-3</p>	<p>Yes; Protection of the type 1</p>
<p>type of test / of the coating / according to MIL-I-46058C</p>	<p>Yes; Coating discoloration during service life possible</p>
<p>product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</p>	<p>Yes; Conformal coating, class A</p>
<p>protection class IP</p>	<p>IP20</p>
<p>design, dimensions and weights</p>	
<p>module format</p>	<p>Compact module S7-1500 single width</p>
<p>width</p>	<p>35 mm</p>
<p>height</p>	<p>142 mm</p>
<p>depth</p>	<p>129 mm</p>
<p>net weight</p>	<p>0.4 kg</p>
<p>fastening method</p> <ul style="list-style-type: none"> S7-1500 rail mounting 	<p>Yes</p>
<p>product features, product functions, product components / general</p>	
<p>number of units</p> <ul style="list-style-type: none"> per CPU / maximum note 	<p>8</p> <p>depending on CPU type</p>
<p>performance data / open communication</p>	
<p>number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum</p>	<p>30</p>
<p>data volume</p> <ul style="list-style-type: none"> as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	<p>240 byte</p>
<p>performance data / PROFIBUS DP</p>	
<p>service / as DP master</p> <ul style="list-style-type: none"> DPV1 	<p>Yes</p>
<p>number of DP slaves</p> <ul style="list-style-type: none"> on DP master / operable 	<p>125</p>
<p>data volume</p> <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 	<p>8192 byte</p> <p>8192 byte</p> <p>244 byte</p> <p>244 byte</p>
<p>service / as DP slave</p> <ul style="list-style-type: none"> DPV0 DPV1 	<p>Yes</p> <p>Yes</p>
<p>data volume</p> <ul style="list-style-type: none"> of the address range of the inputs / as DP slave / total of the address range of the outputs / as DP slave / total 	<p>240 byte</p> <p>240 byte</p>
<p>performance data / S7 communication</p>	
<p>number of possible connections / for S7 communication</p> <ul style="list-style-type: none"> maximum 	<p>48; depending on the system upper limit</p>
<p>performance data / multi-protocol mode</p>	
<p>number of active connections / with multi-protocol mode</p>	<p>48</p>
<p>performance data / telecontrol</p>	
<p>protocol / is supported</p> <ul style="list-style-type: none"> TCP/IP 	<p>No</p>
<p>product functions / management, configuration, engineering</p>	
<p>configuration software</p> <ul style="list-style-type: none"> required 	<p>STEP 7 Professional V18 (TIA Portal) or higher</p>
<p>identification & maintenance function</p> <ul style="list-style-type: none"> I&M0 - device-specific information 	<p>Yes</p>

<ul style="list-style-type: none"> 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	
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2:2019 	KEC
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> total during manufacturing during operation after end of life 	115.54 kg 21.26 kg 93.93 kg 0.35 kg
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://siemens.com/cax https://support.industry.siemens.com
security information	
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Approvals / Certificates

General Product Approval	Environment
Manufacturer Declaration  	China RoHS 

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