

product type designation



CM 1542-5

communications module CM 1542-5 for connection of S7-1500 to PROFIBUS DP, DP-V1 master or DP Device, S7 and PG/OP communication, data record routing, 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	
• for vertical installation / during operation	-30 ... +40 °C
• for horizontally arranged busbars / during operation	-30 ... +60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• note	without condensation or icing
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	restrictions for installation altitudes > 2 000 m, see manual
relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
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	
• S7-1500 rail mounting	Yes

product features, product functions, product components / general

number of units	
• per CPU / maximum	8
• 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	
• 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	
• DPV1	Yes
number of DP slaves	
• on DP master / operable	125
data volume	
• of the address range of the inputs / as DP master / total	8192 byte
• of the address range of the outputs / as DP master / total	8192 byte
• of the address range of the inputs / per DP slave	244 byte
• of the address range of the outputs / per DP slave	244 byte
service / as DP slave	
• DPV0	Yes
• DPV1	Yes
data volume	
• of the address range of the inputs / as DP slave / total	240 byte
• of the address range of the outputs / as DP slave / total	240 byte

performance data / S7 communication

number of possible connections / for S7 communication	
• 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	
• TCP/IP	No

product functions / management, configuration, engineering

configuration software	
• required	STEP 7 Professional V18 (TIA Portal) or higher
identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 - higher level designation/location designation	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022

product functions / diagnostics

product function / web-based diagnostics	Yes; via S7-1500 CPU
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product functions / time

product function / pass on time synchronization	Yes
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standards, specifications, approvals

reference code	
• according to IEC 81346-2:2019	KEC
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / cULus approval	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes

standards, specifications, approvals / hazardous environments / header

certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes

certificate of suitability / FM registration		Yes
standards, specifications, approvals / Environmental Product Declaration		
Environmental Product Declaration		Yes
global warming potential [CO2 eq]		
• total		115.52 kg
• during manufacturing		21.24 kg
• during operation		93.93 kg
• after end of life		0.35 kg
further information / internet links		
internet link		
• to website: Selection guide for cables and connectors		https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool		https://www.siemens.com/tstcloud
• to website: Industrial communication		https://www.siemens.com/simatic-net
• to web page: SiePortal		https://sieportal.siemens.com/
• 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		For use in hazardous locations
Environment		
		
 EG-Konf.		
 RCM		
		FM
		CCC-Ex
		

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