

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.

Technical Product Detail Page

<https://i.siemens.com/1P6GK7542-5DX10-0XE0>

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 devices	
• 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 device	244 byte
• of the address range of the outputs / per DP device	244 byte
service / as DP device	
• DPV0	Yes
• DPV1	Yes
data volume	
• of the address range of the inputs / as DP device / total	240 byte
• of the address range of the outputs / as DP device / 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
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
product functions / time	
product function / pass on time synchronization	Yes
standards, specifications, approvals	
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					
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Approvals / Certificates					
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		China RoHS		KC	FM
For use in hazardous locations	Environment				
CCC-Ex					

last modified:

10/28/2025 