

### 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 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

**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 web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>

## security information

### security information

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## Approvals / Certificates

### General Product Approval

### Environment



last modified:

