

### product type designation

### CM 1542-5

Communication module CM 1542-5 for connection of S7-1500 to PROFIBUS DP, DPV1 master or DP slave, S7 and PG/OP communication, data record routing, time-of-day synchronization, Diagnostics



### transfer rate

#### transfer rate

- at the 1st interface / acc. to PROFIBUS 9.6 kbit/s ... 12 Mbit/s

### interfaces

number of interfaces / acc. to Industrial Ethernet 0

number of electrical connections

- at the 1st interface / acc. to PROFIBUS 1

type of electrical connection

- at the 1st interface / acc. 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	0 ... 40 °C
• for horizontally arranged busbars / during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
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

<ul style="list-style-type: none"> <li>• of the address range of the inputs / per DP slave</li> </ul>	244 byte
<ul style="list-style-type: none"> <li>• of the address range of the outputs / per DP slave</li> </ul>	244 byte
service / as DP slave	
<ul style="list-style-type: none"> <li>• DPV0</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DPV1</li> </ul>	Yes
data volume	
<ul style="list-style-type: none"> <li>• of the address range of the inputs / as DP slave / total</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>• of the address range of the outputs / as DP slave / total</li> </ul>	240 byte

#### performance data / S7 communication

number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	No

#### product functions / management, configuration, engineering

configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 Professional V12 (TIA Portal) or higher
identification & maintenance function	
<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M1 – higher level designation/location designation</li> </ul>	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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#### further information / internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>

security information

security information

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