# **SIEMENS**

## **Data sheet**

# 6GK7542-5DX00-0XE0

#### product type designation

## CM 1542-5

communications 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, diagnostic



transfer rate	
transfer rate	
<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	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	
<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	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	
<ul> <li>for vertical installation / during operation</li> </ul>	0 40 °C
<ul> <li>for horizontally arranged busbars / during operation</li> </ul>	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	
<ul><li>per CPU / maximum</li></ul>	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
<ul> <li>data volume</li> <li>of the address range of the inputs / as DP master / total</li> </ul>	8192 byte
of the address range of the outputs / as DP master / total	8192 byte
<ul> <li>of the address range of the inputs / per DP slave</li> </ul>	244 byte
of the address range of the outputs / per DP slave	244 byte
service / as DP slave	
• DPV0	Yes
• DPV1	Yes
<ul><li>data volume</li><li>of the address range of the inputs / as DP slave /</li></ul>	240 byte
total  • 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	, onanig on and options appear mine
	48
number of active connections / with multi-protocol mode performance data / telecontrol	48
number of active connections / with multi-protocol mode	48
number of active connections / with multi-protocol mode performance data / telecontrol	48 No
number of active connections / with multi-protocol mode  performance data / telecontrol  protocol / is supported  • TCP/IP	No
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported	No
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineeri	No
number of active connections / with multi-protocol mode  performance data / telecontrol  protocol / is supported  • TCP/IP  product functions / management, configuration, engineericonfiguration software  • required  identification & maintenance function	No ng
number of active connections / with multi-protocol mode  performance data / telecontrol  protocol / is supported  • TCP/IP  product functions / management, configuration, engineeri configuration software  • required  identification & maintenance function  • I&M0 - device-specific information	No ng STEP 7 Professional V12 (TIA Portal) or higher Yes
number of active connections / with multi-protocol mode  performance data / telecontrol  protocol / is supported  • TCP/IP  product functions / management, configuration, engineeri configuration software  • required  identification & maintenance function  • I&M0 - device-specific information  • I&M1 - higher level designation/location designation	No ng STEP 7 Professional V12 (TIA Portal) or higher
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number of active connections / with multi-protocol mode  performance data / telecontrol  protocol / is supported	No ng STEP 7 Professional V12 (TIA Portal) or higher  Yes Yes Yes Yes; via S7-1500 CPU  Yes nents Yes  http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net
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