## **SIEMENS**

## Data sheet

6GK7542-5DX00-0XE0

Product type designation

## CM 1542-5

COMMUNICATION MODULE CM 1542-5 FOR CONNECTING S7-1500 TO PROFIBUS DP, DPV1-MASTER OR DP-SLAVE: S7- AND PG/OP- COMMUNICATION, DATA-RECORD ROUTING, CLOCK SYNCHRONISATION, DIAGNOSTICS



Transmission rate	
Transfer rate	
• at the 1st interface / acc. to PROFIBUS	9.6 kbit/s 12 Mbit/s
Linter	
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

Permitted ambient conditions	
Ambient temperature	
for vertical installation / during operation	0 40 °C
for horizontally arranged busbars / during	0 60 °C
operation	
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation /	95 %
during operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
Module format	Compact module S7-1500 single width
Width	35 mm
Height	142 mm
Depth	129 mm
Net weight	0.4 kg
Mounting type	
• S7-1500 rail mounting	Yes
Product properties, functions, components / genera	I
Number of units	
• per CPU / maximum	8
• Note	depending on CPU type
Performance data / open communication	
Number of possible connections / for open	30
communication / by means of SEND/RECEIVE	
blocks / maximum	
Amount of data	
as user data per connection / for open	240 byte
communication / by means of SEND/RECEIVE blocks / maximum	
DIOCKS / ITIAXITTUTT	
Performance data / PROFIBUS DP	
Service / as DP master	Voc
DPV1  Allowed at DR clause / on DR recetor / unable	Yes
Number of DP slaves / on DP master / usable	125
Amount of data	9402 huta
<ul> <li>of the address area of the inputs / as DP master / total</li> </ul>	8192 byte
<ul> <li>of the address area of the outputs / as DP master / total</li> </ul>	8192 byte
• of the address area of the inputs / per DP slave	244 byte
• of the address area of the outputs / per DP	244 byte
slave	

ervice / as DP slave  ● DPV0	V
• DPV0	
	Yes
• DPV1	Yes
mount of data	
<ul> <li>of the address area of the inputs / as DP slave / total</li> </ul>	240 byte
of the address area of the outputs / as DP slave	240 byte
/ total	210 5/10
erformance data / S7 communication	
lumber of possible connections / for S7 ommunication	
	48
• maximum	
Note	depending on the system upper limit
erformance data / multi-protocol mode	
lumber of active connections / with multi-protocol	48
node	
erformance data / telecontrol	
Protocol / is supported	
• TCP/IP	No
Configuration software	
• required	STEP 7 Professional V12 (TIA Portal) or higher
dentification & maintenance function	
I&M0 - device-specific information	Yes
I&M1 – higher-level designation/location	Yes
designation	
oduct functions / Diagnosis	
Product function / Web-based diagnostics	Yes; yes, via S7-1500 CPU
1 15 15 17	
oduct functions / Time Product function / pass on time synchronization	Yes
roduct fullotion / pass on time synonionization	103
urther Information / Internet Links	
nternet-Link	
to website: Selector SIMATIC NET     SELECTION TOOL	http://www.siemens.com/snst
to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
to website: Maye database     to website: CAx Download Manager	http://www.siemens.com/cax
·	https://support.industry.siemens.com
to website: Industry Online Support	nttps://oupport.industry.siemens.com

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