SIEMENS

Product data sheet

Product-type designation

6GK7542-5DX00-0XE0

CM 1542-5

COMMUNICATION MODULE CM 1542-5 FOR CONNECTING S7-1500 TO PROFIBUS DP AS DP-MASTER OR DP-SLAVE: S7- AND PG/OP-COMMUNICATION, CLOCK SYNCHRONISATION, DIAGNOSIS

Transmission rate	
Transfer rate	
• at interface 1 / in accordance with PROFIBUS	9.6 kbit/s 12 Mbit/s
Interfaces	
Number of interfaces / according to Industrial Ethernet	0
Number of electrical connections	
• at interface 1 / in accordance with PROFIBUS	1
Design of the electrical connection	
• at interface 1 / in accordance with PROFIBUS	9-pin Sub-D socket (RS485)
Supply voltage, current consumption, power loss	
Type of / supply voltage	DC
Supply voltage / 1 / from backplane bus	15 V
Relative symmetrical tolerance / at 24 V	
• with DC	3 %
Consumed current	
• from backplane bus / at 24 V	
with DC / typical	0.2 A
Resistive loss	3 W
Permitted ambient conditions	
Ambient temperature	

a for continuity installation / during anaroting phase	0 40.00
for vertical installation / during operating phase	0 40 °C
for horizontal installation / during operating phase	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
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 / general	
Number of modules	
• per CPU / maximum	8
• note	depending on CPU type
Performance data / PROFIBUS DP	
Service / as DP master	
• DPV1	Yes
Number of DP slaves / on DP master / usable	125
Amount of data	
• of the address area of the inputs / as DP master / overall	8192 byte
• of the address area of the outputs / as DP master / overall	8192 byte
• of the address area of the inputs / per DP slave	244 byte
• of the address area of the outputs / per DP slave	244 byte
Service / as DP slave	
• DPV0	Yes
• DPV1	Yes
Amount of data	
• of the address area of the inputs / as DP slave / overall	240 byte
• of the address area of the outputs / as DP slave / overall	240 byte
Performance data / S7 communication	
Number of possible connections / for S7 communication	
• maximum	40
Number of possible connections / for S7 communication / with OP connections / maximum	
• note	depending on the system upper limit

Performance data / multi-protocol mode	
Number of active connections / with multiprotocol mode	40
Performance data / telecontrol	
Protocol / is supported	
• • • • • • • • • • • • • • • • • • • •	
• TCP/IP	No
Product functions / management, configuration	
Configuration software	
• required	STEP 7 Professional V12 (TIA Portal) or higher
Identification & maintenance function	
1&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
• note	yes, via S7-1500 CPU
• note Product functions / Time	yes, via S7-1500 CPU
	yes, via S7-1500 CPU
Product functions / Time	yes, via S7-1500 CPU Yes
Product functions / Time Product function	
Product functions / Time Product function • pass on time synchronization	
Product functions / Time Product function • pass on time synchronization Further Information / Internet Links	
Product functions / Time Product function • pass on time synchronization Further Information / Internet Links Internet-Link	Yes
Product functions / Time Product function • pass on time synchronization Further Information / Internet Links Internet-Link • to website: Selector SIMATIC NET SELECTION TOOL	Yes http://www.siemens.com/snst
Product functions / Time Product function • pass on time synchronization Further Information / Internet Links Internet-Link • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication	Yes http://www.siemens.com/snst http://www.siemens.com/simatic-net
Product functions / Time Product function • pass on time synchronization Further Information / Internet Links Internet-Link • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Information and Download Center	Yes http://www.siemens.com/snst http://www.siemens.com/simatic-net http://www.siemens.com/automation/net/catalog
Product functions / Time Product function • pass on time synchronization Further Information / Internet Links Internet-Link • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Information and Download Center • to website: Image database	Yes http://www.siemens.com/snst http://www.siemens.com/simatic-net http://www.siemens.com/automation/net/catalog http://automation.siemens.com/bilddb