SIEMENS

Product data sheet   6GK7542-5DX00-0XE0

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	
Transmission rate / at interface 1	
• in accordance with PROFIBUS	9.6 kbit/s … 12 Mbit/s
Interfaces	
Number of electrical connections / at interface 1	
• in accordance with PROFIBUS	1
Design of 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 15 V / with DC	3 %
Current consumption / from backplane bus / at 15 V / with DC / typical	0.2 A
Resistive loss	3 W
Permitted ambient conditions	
Ambient temperature	
• 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
Number of modules / 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
• note	depending on the system upper limit

Product functions / Diagnosis

Product function / Web-based diagnostics	Yes
• note	yes, via S7-1500 CPU

Product functions / Time

Product function / pass on time synchronization	Yes

Further Information / Internet Links

Internet-Link	
• to website: Industry Mall	http://www.siemens.com/industrial-controls/mall

• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	http://support.automation.siemens.com

Security information

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