



COMMUNICATION MODULE CM 1542-5 FOR
CONNECTING S7-1500 TO PROFIBUS DP AS DP-
MASTER AND DP-SLAVE: FDL-,
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 voltage / 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
- for horizontal installation / during operating phase
- during storage

0 ... 40 °C

0 ... 60 °C

-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	
Width	35 mm
Height	142 mm
Depth	129 mm
Net weight	0.4 kg
Type of mounting / S7-1500 rail mounting	Yes
Product properties, functions, components / general	
Number of units / 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
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / Time	
Product function / pass on time synchronization	Yes
letzte Änderung:	Apr 15, 2013