

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS SIMATIC NET

6GK7542-1AX00-0XE0

CM 1542-1 COMMUNICATION MODULE

Used with the applicable SIMATIC S7-1500 communication modules configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation

Product type designation

CM 1542-1

Communication module CM 1542-1 for connection of S7-1500 to PROFINET as IO controller: TCP/IP, ISO-on-TCP, UDP, S7 communication, IP broadcast Multicast, SNMPV1, time-of-day synchronization via NTP, 2xRJ45 (10/100 Mbit)



Transfer rate	
Transfer rate	
• at the 1st interface	10 ... 100 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
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	0.22 A
Power loss [W]	3.3 W

Ambient conditions	
Ambient temperature	
• for vertical installation / during operation	0 ... 40 °C
• for horizontally arranged busbars / during operation	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
Mounting type	
• S7-1500 rail mounting	Yes
Product features, product functions, product components / general	
Number of units	
• per CPU / maximum	8
• Note	depending on CPU type
Performance data / open communication	
Number of possible connections / for open communication	
• by means of T blocks / maximum	64; depending on the system upper limit
Amount of data	
• as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum	65536 byte
Number of Multicast stations	6
Performance data / S7 communication	
Number of possible connections / for S7 communication	
• maximum	64; depending on the system upper limit
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol mode	64
Performance data / PROFINET communication / as PN IO controller	
Product function / PROFINET IO controller	Yes