SIEMENS

Data sheet

6GK7542-1AX00-0XE0

product type designation



CM 1542-1

communications module CM 1542-1 for connection of S7-1500 to PROFINET as IO Controller or IO Device: 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 / according to Industrial Ethernet	1
number of electrical connections	
 at the 1st interface / according to Industrial Ethernet 	2
type of electrical connection	
at the 1st interface / according 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	0.00 4
• from backplane bus / at DC / at 15 V / typical	0.22 A
power loss [W]	3.3 W
ambient conditions	
ambient temperature	040.00
for vertical installation / during operation	0 40 °C
for horizontally arranged busbars / during operation	0 60 °C -40 +70 °C
during storage	-40 +70 °C
 during transport relative humidity 	-40 +70 · C
at 25 °C / without condensation / during operation /	95 %
maximum	35 /0
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
fastening method	
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
data volume	7 1 3
 as user data per ISO on TCP connection / for open 	65536 byte
communication / by means of T blocks / maximum	
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 of	controller
product function / PROFINET IO controller	Yes
number of PN IO devices / on PROFINET IO controller /	128
operable / total	
number of PN IO IRT devices / on PROFINET IO controller / operable	64
number of external PN IO lines / with PROFINET / per rack	10
data volume	
 as user data for input variables / as PROFINET IO controller / maximum 	8 Kibyte
 as user data for output variables / as PROFINET IO controller / maximum 	8 Kibyte
as user data for input variables per PN IO device / as PROFINET IO controller / maximum	1433 byte
 as user data for output variables per PN IO device / as PROFINET IO controller / maximum 	1433 byte
 as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum 	256 byte
as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum	256 byte
performance data / PROFINET communication / as PN IO o	Novico
product function / PROFINET IO device	
data volume	Yes
• as user data for input variables / as PROFINET IO	8192 byte
device / maximumas user data for output variables / as PROFINET IO	8192 byte
device / maximum as user data for input variables / for each sub-	256 byte
module as PROFINET IO device • as user data for output variables / for each sub-	256 byte
module as PROFINET IO device • as user data for the consistency area for each sub-	256 byte
module number of submodules / per PROFINET IO-Device	32
performance data / telecontrol	
protocol / is supported	
TCP/IP	Yes
product functions / management, configuration, engineeri	
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
configuration software	
• required	STEP 7 Professional V14 (TIA Portal) or higher
identification & maintenance function	
 I&M0 - device-specific information 	Yes
• I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function / web-based diagnostics	Yes; via S7-1500 CPU

Yes No Yes Yes Yes IP routing up to 1 Mbps Yes No No No
No Yes Yes IP routing up to 1 Mbps Yes No No
Yes Yes IP routing up to 1 Mbps Yes No No
Yes IP routing up to 1 Mbps Yes No No
IP routing up to 1 Mbps Yes No No
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http://www.siemens.com/tia-selection-tool
http://www.siemens.com/simatic-net
https://mall.industry.siemens.com
http://www.siemens.com/industry/infocenter
http://automation.siemens.com/bilddb
http://www.siemens.com/cax https://support.industry.siemens.com
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last modified: 7/7/2022 🖸