SIEMENS

Data sheet

6GK7542-5DX00-0XE0

product type designation



Communication module CM 1542-5 for connection of S7-1500 to PROFIBUS DP, DPV1 master or DP slave, S7 and PG/OP communication, data record routing, time-of-day synchronization, Diagnostics



transfer rate	
at the 1st interface / acc. to PROFIBUS	9.6 kbit/s 12 Mbit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	0
number of electrical connections	
• at the 1st interface / acc. to PROFIBUS	1
type of electrical connection	
at the 1st interface / acc. to PROFIBUS	9-pin Sub-D socket (RS485)
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	0.2 A
power loss [W]	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
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 SEND/RECEIVE blocks / maximum	30
data volume	
as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum	240 byte
performance data / PROFIBUS DP	
service / as DP master	
• DPV1	Yes
number of DP slaves	
on DP master / operable	125
data volume	
 of the address range of the inputs / as DP master / total 	8192 byte
 of the address range of the outputs / as DP master / total 	8192 byte
of the address range of the inputs / per DP slave	244 byte
of the address range of the outputs / per DP slave	244 byte
service / as DP slave	V
• DPV0	Yes
• DPV1	Yes
data volumeof the address range of the inputs / as DP slave /	240 byte
totalof the address range of the outputs / as DP slave /	240 byte
total	
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	48; depending on the system upper limit
performance data / multi-protocol mode	
	10
number of active connections / with multi-protocol mode	48
number of active connections / with multi-protocol mode performance data / telecontrol	48
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported	
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported • TCP/IP	No
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineeri	No
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineeri configuration software	No ng
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineeri configuration software • required	No
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineericonfiguration software • required identification & maintenance function	No ng STEP 7 Professional V12 (TIA Portal) or higher
number of active connections / with multi-protocol mode performance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineeri configuration software • required identification & maintenance function • I&M0 - device-specific information	No ng STEP 7 Professional V12 (TIA Portal) or higher Yes
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