SIEMENS

Data sheet

6GK7542-5DX00-0XE0

product type designation



CM 1542-5

communications 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, diagnostic

transfer rate		
transfer rate		
 at the 1st interface / according to PROFIBUS 	9.6 kbit/s 12 Mbit/s	
interfaces		
number of interfaces / according to Industrial Ethernet	0	
number of electrical connections		
at the 1st interface / according to PROFIBUS	1	
type of electrical connection		
 at the 1st interface / according to PROFIBUS 	9-pin Sub-D socket (RS485)	
supply voltage, current consumption, power loss	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 / gen	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	30
means of SEND/RECEIVE blocks / maximum	
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	100
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	
• DPV0	Yes
• DPV1	Yes
data volume	
• of the address range of the inputs / as DP slave / total	240 byte
of the address range of the outputs / as DP slave / total	240 byte
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	48; depending on the system upper limit
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	48
performance data / telecontrol	
protocol / is supported	
• TCP/IP	No
product functions / management, configuration, engineering	
configuration software	
• required	STEP 7 Professional V12 (TIA Portal) or higher
identification & maintenance function	Von
18M0 - device-specific information 2.18M4 - higher level designation/legation designation	Yes
I&M1 - higher level designation/location designation Product functions / diagnostics	Yes
product functions / diagnostics	Voc. via 97 4500 CDLI
product function / web-based diagnostics	Yes; via S7-1500 CPU
product functions / time	Voo
product function / pass on time synchronization	Yes
standards, specifications, approvals	
reference code	KEC
according to IEC 81346-2:2019 standards specifications approvals / Environmental Product December 1.	KEC eclaration
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration Global Warming Potential (CO2 eq.)	Yes
Global Warming Potential [CO2 eq] • total	115 52 kg
	115.52 kg
 during manufacturing 	21.24 kg
 during operation 	93 93 kg
during operation after end of life	93.93 kg 0.35 kg
after end of life	93.93 kg 0.35 kg
after end of life further information / internet links	
after end of life further information / internet links internet link	0.35 kg
after end of life further information / internet links internet link to web page: selection aid TIA Selection Tool	0.35 kg https://www.siemens.com/tstcloud
after end of life further information / internet links internet link • to web page: selection aid TIA Selection Tool • to website: Industrial communication	0.35 kg https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net
after end of life further information / internet links internet link to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal	0.35 kg https://www.siemens.com/tstcloud
after end of life further information / internet links internet link to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal to website: Image database	0.35 kg https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/
after end of life further information / internet links internet link to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal	https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb
after end of life further information / internet links internet link to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal to website: Image database to website: CAx-Download-Manager	https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://siemens.com/cax
after end of life further information / internet links internet link • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://siemens.com/cax

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General Product Approval



Declaration of Conformity









General Product Approval

For use in hazardous locations

Marine / Shipping







<u>FM</u>

CCC-Ex



Environment

Confirmation



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