# **SIEMENS**

## **Data sheet**

## 6GK7542-5DX10-0XE0

#### product type designation



### CM 1542-5

communications module CM 1542-5 for connection of S7-1500 to PROFIBUS DP, DP-V1 master or DP Device, S7 and PG/OP communication, data record routing, time-of-day synchronization, diagnostics.

transfer rate	
transfer rate	
<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	9.6 kbit/s 12 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	0
number of electrical connections	
<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	1
type of electrical connection	
<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	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	
<ul> <li>for vertical installation / during operation</li> </ul>	-30 +40 °C
<ul> <li>for horizontally arranged busbars / during operation</li> </ul>	-30 +60 °C
during storage	-40 +70 °C
<ul> <li>during transport</li> </ul>	-40 +70 °C
• note	without condensation or icing
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	restrictions for installation altitudes > 2 000 m, see manual
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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 / gene	eral <u></u>
number of units	
• per CPU / maximum	8
• note	depending on CPU type
performance data / open communication	aspending on a coppe
number of possible connections / for open communication / by	30
means of SEND/RECEIVE blocks / maximum	
data volume	0401.1
<ul> <li>as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	240 byte
performance data / PROFIBUS DP	
service / as DP master	
• DPV1	Yes
number of DP slaves	
on DP master / operable	125
data volume	
<ul> <li>of the address range of the inputs / as DP master / total</li> </ul>	8192 byte
<ul> <li>of the address range of the outputs / as DP master / total</li> </ul>	8192 byte
<ul> <li>of the address range of the inputs / per DP slave</li> </ul>	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
<ul> <li>of the address range of the outputs / as DP slave / total</li> </ul>	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 V18 (TIA Portal) or higher
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Van
	Yes
product functions / diagnostics	tes
product functions / diagnostics product function / web-based diagnostics	Yes; via S7-1500 CPU
product function / web-based diagnostics	
product function / web-based diagnostics	
product function / web-based diagnostics product functions / time product function / pass on time synchronization	Yes; via S7-1500 CPU
product function / web-based diagnostics product functions / time product function / pass on time synchronization	Yes; via S7-1500 CPU
product function / web-based diagnostics product functions / time product function / pass on time synchronization standards, specifications, approvals	Yes; via S7-1500 CPU
product function / web-based diagnostics product functions / time product function / pass on time synchronization standards, specifications, approvals reference code • according to IEC 81346-2:2019	Yes; via S7-1500 CPU  Yes  KEC
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals reference code  • according to IEC 81346-2:2019	Yes; via S7-1500 CPU  Yes  KEC
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals reference code  • according to IEC 81346-2:2019 standards, specifications, approvals / Environmental Product De	Yes; via S7-1500 CPU  Yes  KEC eclaration
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals reference code  • according to IEC 81346-2:2019 standards, specifications, approvals / Environmental Product De Environmental Product Declaration	Yes; via S7-1500 CPU  Yes  KEC eclaration
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals  reference code  • according to IEC 81346-2:2019 standards, specifications, approvals / Environmental Product De Environmental Product Declaration Global Warming Potential [CO2 eq]	Yes; via S7-1500 CPU  Yes  KEC eclaration Yes
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals  reference code  • according to IEC 81346-2:2019 standards, specifications, approvals / Environmental Product De Environmental Product Declaration  Global Warming Potential [CO2 eq]  • total	Yes; via S7-1500 CPU  Yes  KEC eclaration Yes  115.52 kg
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals  reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg 93.93 kg
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg 93.93 kg
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals  reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg 93.93 kg 0.35 kg
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals  reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg 93.93 kg 0.35 kg  https://www.siemens.com/tstcloud
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals  reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg 93.93 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net
product function / web-based diagnostics product functions / time  product function / pass on time synchronization standards, specifications, approvals reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg 93.93 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/
product function / web-based diagnostics product functions / time  product functions / pass on time synchronization standards, specifications, approvals  reference code	Yes; via S7-1500 CPU  Yes  KEC eclaration  Yes  115.52 kg 21.24 kg 93.93 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net

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https://support.industry.siemens.com

#### security information

security information

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#### Approvals / Certificates

**General Product Approval** 

Environment







last modified:

8/22/2024