# **SIEMENS**

## **Data sheet**

# 6GK7542-5FX00-0XE0

## product type designation



## CP 1542-5

- - spare part - - communications processor CP 1542-5 for connection of SIMATIC S7-1500 to PROFIBUS DP, DPV1 master or DP Slave, S7 and PG/OP communication, time-of-day synchronization, diagnostics, reduced quantity structure.

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	0.1 A
power loss [W]	1.5 W
ambient conditions	
ambient temperature	
<ul> <li>for vertical installation / during operation</li> </ul>	0 40 °C
<ul> <li>for horizontally arranged busbars / during operation</li> </ul>	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	0.27 kg
fastening method	
S7-1500 rail mounting	Yes
product features, product functions, product components / gene	eral
number of units	
• per CPU / maximum	8
• note	depending on CPU type

performance data / PROFIBUS DP	
service / as DP master	
• DPV1	Yes
number of DP slaves	
on DP master / operable	32
data volume	
of the address range of the inputs / as DP master / total	2048 byte
of the address range of the outputs / as DP master / total	2048 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	244 Dyte
	Van
• 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	16; depending on the system upper limit
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	16
performance data / telecontrol	
protocol / is supported	
• TCP/IP	No
product functions / management, configuration, engineering	
configuration software	
• required	STEP 7 Professional V12 SP1 (TIA Portal) or higher
identification & maintenance function	
I&M0 - device-specific information	Yes
I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	163
product function / web-based diagnostics	Yes; via S7-1500 CPU
	Tes, via 37-1500 CPO
product functions / time	V
product function / pass on time synchronization	Yes
standards, specifications, approvals	
standards, specifications, approvals reference code	
reference code  ● according to IEC 81346-2:2019	KEC
reference code	
reference code  ● according to IEC 81346-2:2019	
reference code  • according to IEC 81346-2:2019 standards, specifications, approvals / Environmental Product D	eclaration
reference code	eclaration
reference code	eclaration Yes
reference code	eclaration Yes 68.56 kg
reference code	Yes  68.56 kg 21.24 kg
reference code	eclaration Yes  68.56 kg 21.24 kg 46.97 kg
reference code	eclaration Yes  68.56 kg 21.24 kg 46.97 kg
reference code	eclaration  Yes  68.56 kg 21.24 kg 46.97 kg 0.35 kg
reference code	Yes  68.56 kg 21.24 kg 46.97 kg 0.35 kg
reference code	eclaration Yes  68.56 kg 21.24 kg 46.97 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net
reference code	eclaration  Yes  68.56 kg 21.24 kg 46.97 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/
reference code	Pes  68.56 kg 21.24 kg 46.97 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb
reference code	Pes  68.56 kg 21.24 kg 46.97 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax
reference code	Pes  68.56 kg 21.24 kg 46.97 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb
reference code	eclaration  Yes  68.56 kg 21.24 kg 46.97 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
reference code	eclaration  Yes  68.56 kg 21.24 kg 46.97 kg 0.35 kg  https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax

network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

### Approvals / Certificates

### **General Product Approval**



Declaration of Conformity









General Product Approval

For use in hazardous locations

Marine / Shipping







<u>FM</u>

CCC-Ex



**Environment** 

Confirmation



last modified:

8/22/2024

