## SIEMENS

## Data sheet

## 6GK7542-5FX00-0XE0

product type	designation
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## CP 1542-5

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	
at the 1st interface / according 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	5 %
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
<ul> <li>during transport</li> </ul>	-40 +70 °C
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation /</li> </ul>	95 %
maximum protection class IP	IP20
design, dimensions and weights	IF 20
module format	Compact module S7 1500 single width
width	Compact module S7-1500 single 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	/ general
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	
<ul> <li>on DP master / operable</li> </ul>	32
data volume	
<ul> <li>of the address range of the inputs / as DP master / total</li> </ul>	2048 byte
<ul> <li>of the address range of the outputs / as DP master / total</li> </ul>	2048 byte
<ul> <li>of the address range of the inputs / per DP slave</li> </ul>	244 byte
<ul> <li>of the address range of the outputs / per DP slave</li> </ul>	244 byte
service / as DP slave	
• DPV0	Yes
• DPV1	Yes
data volume	
<ul> <li>of the address range of the inputs / as DP slave / total</li> </ul>	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	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, engineeri	ng
configuration software	
required	STEP 7 Professional V12 SP1 (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>	Yes
product functions / diagnostics	
product function / web-based diagnostics	Yes; via S7-1500 CPU
product functions / time	
product function / pass on time synchronization	Yes
standards, specifications, approvals / hazardous environn	nents
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
<ul> <li>to website: Image database</li> </ul>	http://automation.siemens.com/bilddb
<ul> <li>to website: CAx-Download-Manager</li> </ul>	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com.

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