## 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 <ul> <li>at the 1st interface / acc. to PROFIBUS</li> </ul>			
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			
	0.1 A		
power loss [W]	1.5 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 / S 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 C	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			
• on DP master / operable	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, engineering	ηα		
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			
•	Vee		
product function / pass on time synchronization Yes			
standards, specifications, approvals / hazardous environments			
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		
<ul> <li>to website: Industrial communication</li> </ul>	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. (V3.4)

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