## SIEMENS

## Data sheet

## 6GK7542-5FX00-0XE0

product type designation



## 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, timeof-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					
<ul> <li>from backplane bus / at DC / at 15 V / typical</li> </ul>	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					
<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	0.27 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
	Yes
number of DP slaves	20
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	
• 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	
<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 environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
certificate of suitability / CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / Environmental Product De	
	eclaration
Environmental Product Declaration	Yes
Environmental Product Declaration Global Warming Potential [CO2 eq]	
Global Warming Potential [CO2 eq]	Yes
Global Warming Potential [CO2 eq] • total	Yes 115.52 kg
Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> </ul>	Yes 115.52 kg 21.24 kg
Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> <li>during operation</li> </ul>	Yes 115.52 kg 21.24 kg 93.93 kg
Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>	Yes 115.52 kg 21.24 kg 93.93 kg
Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul> further information / internet links	Yes 115.52 kg 21.24 kg 93.93 kg
Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul> further information / internet links internet link	Yes 115.52 kg 21.24 kg 93.93 kg 0.35 kg
Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul> further information / internet links <ul> <li>internet link</li> <li>to website: Image database</li> </ul>	Yes 115.52 kg 21.24 kg 93.93 kg 0.35 kg https://www.automation.siemens.com/bilddb
Global Warming Potential [CO2 eq]  • total  • during manufacturing  • during operation  • after end of life  further information / internet links  internet link  • to website: Image database  • to website: Industry Online Support	Yes 115.52 kg 21.24 kg 93.93 kg 0.35 kg https://www.automation.siemens.com/bilddb

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)

General Product App Manufacturer Declara- tion	eroval EG-Konf.	<u>Declaration of Con-</u> formity	UK CA	(U) UL	RCM
For use in hazardous	locations				Marine / Shipping
ATEX A	IECEx	EM	<u>CCC-Ex</u>		
Marine / Shipping	Environment				
	<u>Confirmation</u>	EPD			

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