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 e at the 1st interface / according to PROFIBUS 9.6 kbit/s 12 Mbit/s Inberaces number of electrical connections 0 number of electrical connections 1 type of electrical connection 1 • at the 1st interface / according to PROFIBUS 1 type of electrical connection 9-pin Sub-D socket (RS485) supply voltage, current consumption, power loss 15 V relative symmetrical tolerance / at DC 3 % consumed current 0 • from backplane bus / at DC / at 15 V / typical 0.1 A power loss [W] 1.5 W ambient conditions 0 ambient temperature 0 40 °C • for vertical installation / during operation 0 40 °C • during transport -40 +70 °C relative humidity 95 % e design, dimensions and weights Compact module S7-1500 single width module format Compact module S7-1500 single width width 35 mm height 0.27 kg fastening method 0.27 kg	transfer rate		
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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 40 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum module format protection class IP IP20 design, dimensions and weights 142 mm width 35 mm height 142 mm depth 129 mm net weight 0.27 kg fastening method Yes product features, product functions, product components / general	consumed current		
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• during storage -40 +70 °C • during transport -40 +70 °C relative humidity -40 +70 °C relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights IP20 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	 for vertical installation / during operation 	0 40 °C	
• during transport -40 +70 °C relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights IP20 module format Compact module S7-1500 single width width 35 mm height 142 mm depth 129 mm net weight 0.27 kg fastening method Yes eS7-1500 rail mounting Yes	 for horizontally arranged busbars / during operation 	0 60 °C	
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depth 129 mm net weight 0.27 kg fastening method • S7-1500 rail mounting Yes Yes	width	35 mm	
net weight 0.27 kg fastening method • S7-1500 rail mounting Yes product features, product functions, product components / general	height	142 mm	
fastening method • S7-1500 rail mounting product features, product functions, product components / general	depth	129 mm	
• S7-1500 rail mounting Yes product features, product functions, product components / general	net weight	0.27 kg	
product features, product functions, product components / general	fastening method		
	-		
	product features, product functions, product components / general		
number of units	number of units		
• per CPU / maximum 8	• per CPU / maximum	8	
note depending on CPU type	• note	depending on CPU type	

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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	
• 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	
product function / web-based diagnostics	Yes; via S7-1500 CPU
product functions / time	
product function / pass on time synchronization	Yes
standards, specifications, approvals	
reference code	
 according to IEC 81346-2:2019 	KEC
standards, specifications, approvals / Environmental Product De	eclaration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
total	68.56 kg
 during manufacturing 	21.24 kg
during operation	46.97 kg
after end of life	0.35 kg
further information / internet links	
internet link	
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
to website: Image database	https://www.automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	https://siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
security information	
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Approvals / Certificates

General Product Approval



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