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Data sheet

6GK7542-5FX00-0XE0



COMMUNICATION PROCESSOR CP 1542-5 FOR CONNECTING SIMATIC S7-1500 TO PROFIBUS DP DPV1-MASTER OR DP-SLAVE, S7-AND PG/OP COMMUNICATION, CLOCK SYNCHRONISATION DIAGNOSTICS, LESS DATA

Transmission rate	
Transfer rate	
• at the 1st interface / acc. to PROFIBUS	9.6 kbit/s 12 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	0
	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	
	DC.
Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	15 V
Relative symmetrical tolerance / for DC	
● at 15 V	3 %
Consumed current	
• from backplane bus / for DC / at 15 V / typical	0.1 A
Active power loss	1.5 W
Permitted ambient conditions	
Ambient temperature	
• for vertical installation / during operation	0 40 °C
 for horizontally arranged busbars / during 	0 60 °C
operation	
during storage	-40 +70 °C
during transport	-40 +70 °C

Deleting housidity / et 05°00 / without and a setting /	05.0/
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20
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Design, dimensions and weight	
Module format	Compact module S7-1500 single width
Width	35 mm
Height	142 mm
Depth	129 mm
Net weight	0.27 kg
Mounting type	
S7-1500 rail mounting	Yes
Product properties, functions, components / genera	
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 / usable	32
Amount of data	
 of the address area of the inputs / as DP master / total 	2048 byte
 of the address area of the outputs / as DP master / total 	2048 byte
• of the address area of the inputs / per DP slave	244 byte
 of the address area of the outputs / per DP slave 	244 byte
Service / as DP slave	
• DPV0	Yes
• DPV1	Yes
Amount of data	
 of the address area of the inputs / as DP slave / total 	240 byte
• of the address area of the outputs / as DP slave / total	240 byte
Performance data / S7 communication	
Number of possible connections / for S7 communication	
• maximum	16
Note	depending on the system upper limit

Performance data / multi-protocol mode

Number of active connections / with multi-protocol 16 mode Performance data / telecontrol Protocol / is supported • TCP/IP No Product functions / management, configuration Configuration software STEP 7 Professional V12 SP1 (TIA Portal) or higher required Identification & maintenance function • I&M0 - device-specific information Yes • I&M1 – higher-level designation/location Yes designation Product functions / Diagnosis Product function / Web-based diagnostics Yes; yes, via S7-1500 CPU Product functions / Time Product function / pass on time synchronization Yes

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/automation/net/catalog

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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http://support.automation.siemens.com. (V3.4)

last modified: 12.03.2015