

### 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, time-of-day synchronization, diagnostics, reduced quantity structure



### Transfer 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

#### 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

- from backplane bus / at DC / at 15 V / typical 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 / 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	0.27 kg
Mounting type	
• 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 / 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; 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
- I&M1 – higher-level designation/location designation

Yes

Yes

#### Product functions / Diagnostics

Product function / Web-based diagnostics

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/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

#### Security information

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Security information

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