

Product type designation

CP 342-5

Communications processor CP 342-5 for connection of SIMATIC S7-300 to PROFIBUS DP, S5-compatible, PG/OP and S7 communication



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
- for power supply

1

1

Type of electrical connection

- at the 1st interface / acc. to PROFIBUS
- for power supply

9-pin Sub-D socket (RS485)

4-pole terminal block

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage

DC

Supply voltage / 1 / from backplane bus

5 V

Supply voltage / external

24 V

Supply voltage / external / at DC / Rated value

24 V

Relative positive tolerance / at DC / at 24 V

20 %

Relative negative tolerance / at DC / at 24 V	15 %
Consumed current	
<ul style="list-style-type: none"> • from backplane bus / at DC / at 5 V / typical 	0.15 A
<ul style="list-style-type: none"> • from external supply voltage / at DC / at 24 V / typical 	0.25 A
Power loss [W]	6.75 W

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	0 ... 60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20

Design, dimensions and weights

Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.3 kg

Product features, product functions, product components / general

Number of units	
<ul style="list-style-type: none"> • per CPU / maximum 	4

Performance data / open communication

Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
Amount of data	
<ul style="list-style-type: none"> • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	240 byte

Performance data / PROFIBUS DP

Service / as DP master	
<ul style="list-style-type: none"> • DPV0 	Yes
Number of DP slaves	
<ul style="list-style-type: none"> • on DP master / usable 	124
Amount of data	
<ul style="list-style-type: none"> • of the address area of the inputs / as DP master / total 	2160 byte
<ul style="list-style-type: none"> • of the address area of the outputs / as DP master / total 	2160 byte

<ul style="list-style-type: none"> • of the address area of the inputs / per DP slave 	244 byte
<ul style="list-style-type: none"> • of the address area of the outputs / per DP slave 	244 byte
<ul style="list-style-type: none"> • of the address area of the diagnostic data / per DP slave 	240 byte
Service / as DP slave	
<ul style="list-style-type: none"> • DPV0 	Yes
Amount of data	
<ul style="list-style-type: none"> • of the address area of the inputs / as DP slave / total 	240 byte
<ul style="list-style-type: none"> • of the address area of the outputs / as DP slave / total 	240 byte

Performance data / S7 communication

Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	16

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	
<ul style="list-style-type: none"> • without DP / maximum 	32
<ul style="list-style-type: none"> • with DP / maximum 	28

Performance data / telecontrol

Protocol / is supported	
<ul style="list-style-type: none"> • TCP/IP 	No

Product functions / management, configuration, engineering

Configuration software	
<ul style="list-style-type: none"> • required 	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com

Security information

Security information

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