



COMMUNICATIONPROCESSOR CP342-5 FOR CONNECTING SIMATIC S7-300 TO PROFIBUS, DP, S5-COMPATIBLE-, PG/OP- AND S7-COMMUNICATION

Transmission rate

Transfer rate	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at the 1st interface / acc. to PROFIBUS 	1
<ul style="list-style-type: none"> for power supply 	1
Type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / acc. to PROFIBUS 	9-pin Sub-D socket (RS485)
<ul style="list-style-type: none"> for power supply 	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
Relative positive tolerance / for DC / at 24 V	20 %
Relative negative tolerance / for DC / at 24 V	15 %
Consumed current	
<ul style="list-style-type: none"> from backplane bus / for DC / at 5 V / typical 	0.15 A
<ul style="list-style-type: none"> from external supply voltage / for DC / at 24 V / typical 	0.25 A
Active power loss	6.75 W

Permitted ambient conditions

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

Design, dimensions and weight

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

Product properties, functions, components / general

Number of units <ul style="list-style-type: none"> per CPU / maximum 	4
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Performance data / open communication

Number of possible connections / for open communication / by means of SEND/RECEIVE blocks <ul style="list-style-type: none"> 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 / 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 of the address area of the outputs / as DP master / total of the address area of the inputs / per DP slave of the address area of the outputs / per DP slave of the address area of the diagnostic data / per DP slave 	2160 byte 2160 byte 244 byte 244 byte 240 byte
Service / as DP slave <ul style="list-style-type: none"> DPV0 	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

Performance data / multi-protocol mode

- Number of active connections / with multi-protocol mode
- without DP / maximum 32
 - with DP / maximum 28

Performance data / telecontrol

- Protocol / is supported
- TCP/IP No

Product functions / management, configuration

- Configuration software
- required STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher

Further Information / Internet Links

- Internet-Link
- to website: Selector SIMATIC NET SELECTION TOOL <http://www.siemens.com/snst>
 - to website: Industrial communication <http://www.siemens.com/simatic-net>
 - to website: Industry Mall <https://mall.industry.siemens.com>
 - to website: Information and Download Center <http://www.siemens.com/automation/net/catalog>
 - to website: Image database <http://automation.siemens.com/bilddb>
 - to website: CAx Download Manager <http://www.siemens.com/cax>
 - to website: Industry Online Support <https://support.industry.siemens.com>

Security information

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