

Product type designation

CP 342-5

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



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

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 | |
| • from backplane bus / at DC / at 5 V / typical | 0.15 A |
| • from external supply voltage / at DC / at 24 V / typical | 0.25 A |
| Power loss [W] | 6.75 W |

| Permitted ambient conditions | |
|--|----------------|
| Ambient temperature | |
| • 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 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 | |
| • 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 | |
| • 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 | |
| • DPV0 | Yes |
| Number of DP slaves / on DP master / usable | 124 |
| Amount of data | |
| • of the address area of the inputs / as DP master / total | 2160 byte |
| • of the address area of the outputs / as DP master / total | 2160 byte |
| • 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 |
| 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

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|---|---|
| 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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