

Product type designation

CP 343-5

Communications processor CP 343-5 for connection of SIMATIC S7-300 to PROFIBUS, FMS, S5-compatible, PG/OP and S7 communication, 12 Mbit/s, Single-width



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

24 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]	5 W

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
Mounting type	
• S7-300 rail mounting	Yes

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 / FMS functions

Number of possible connections / for FMS connection / maximum	16
Amount of data / of the variables	
• for READ job / maximum	237 byte
• for WRITE and REPORT job / maximum	233 byte
Number of variables	

- Configurable from server to FMS partner 256
- Loadable from server to FMS partner 256

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 48

Performance data / telecontrol

- Protocol / is supported
- TCP/IP No

Product functions / management, configuration

- Configuration software
- required STEP 7 V5.1 SP3 or higher and NCM S7 for PROFIBUS

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/industry/infocenter>
 - 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

- Security information
- Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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