

Product type designation

CP 443-5 Extended

Communications processor CP 443-5 Extended for connection of SIMATIC S7-400 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

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

5 V

Supply voltage

5 V

Relative symmetrical tolerance / at DC

- at 5 V

5 %

Consumed current

- from backplane bus / at DC / at 5 V / typical

1 A

| | |
|----------------|-----|
| Power loss [W] | 5 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 weight

| | |
|---------------|------------------------------------|
| Module format | Compact module S7-400 single width |
| Width | 25 mm |
| Height | 290 mm |
| Depth | 210 mm |
| Net weight | 0.65 kg |

Product properties, functions, components / general

| | |
|---|--|
| Number of units | |
| <ul style="list-style-type: none"> per CPU / maximum | 14 |
| <ul style="list-style-type: none"> Note | The number of CPs that can be operated as DP masters depends on the number of CP 443-1 Advanced processors operating in the S7-400 station as PROFINET IO controllers. Up to 10 CPs can be operated in total: up to 4 as PROFINET IO controllers (CP 443-1 Advanced); up to 10 as DP masters (CP 443-5 Extended) |

Performance data / open communication

| | |
|--|----------|
| Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum | 32 |
| 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"> DPV1 | Yes |
| Number of DP slaves / on DP master / usable | 125 |
| Amount of data | |
| <ul style="list-style-type: none"> of the address area of the inputs / as DP master / total | 4096 byte |
| <ul style="list-style-type: none"> of the address area of the outputs / as DP master / total | 4096 byte |
| <ul style="list-style-type: none"> of the address area of the inputs / per DP slave | 244 byte |

- of the address area of the outputs / per DP slave

244 byte

Performance data / S7 communication

Number of possible connections / for S7 communication

- maximum

48

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode

- without DP / maximum
- with DP / maximum

59

54

Product functions / management, configuration

Configuration software

- required

STEP 7 V5.4 SP4 or higher and NCM S7 for PROFIBUS

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

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)

last modified:

10/14/2019