

### Product type designation

### CP 443-1 OPC UA

Communications processor CP 443-1 OPC UA; 1x 10/100/1000 Mbit/s RJ 45 port; OPC UA communic. (Data Access). Operation as OPC UA server Operation as OPC UA client via Programmable user block according to PLCopen, OPC UA-compliant security mechanisms Programming device communication Time synchronization Web diagnostics OPC UA server Certification



### Transmission rate

#### Transfer rate

- for Industrial Ethernet

10 ... 1000 Mbit/s

### Interfaces

#### Number of interfaces / acc. to Industrial Ethernet

1

#### Type of electrical connection

- of Industrial Ethernet interface

RJ45 port

### Supply voltage, current consumption, power loss

#### Type of voltage / of the supply voltage

DC

#### Supply voltage / 1 / from backplane bus

5 V

#### Relative symmetrical tolerance / at DC

- at 5 V

5 %

#### Consumed current

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

1.3 A

#### Power loss [W]

6.5 W

### Permitted ambient conditions

#### Ambient temperature

<ul style="list-style-type: none"> <li>during operation</li> </ul>	0 ... 60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-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 S7-400 single width
Width	25 mm
Height	290 mm
Depth	210 mm
Net weight	0.7 kg

Product properties, functions, components / general	
Number of units <ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>	1

Performance data / S7 communication	
Number of possible connections / for S7 communication <ul style="list-style-type: none"> <li>with PG connections / maximum</li> </ul>	2

Performance data / as OPC UA server	
Protocol / is supported / OPC UA Server	Yes
Number of possible connections / to OPC UA clients / maximum	10
Number of variables (items) / maximum	64000
Storage capacity / for variables (items) in summary	64000 byte
Number of monitorings (subscriptions) <ul style="list-style-type: none"> <li>per connection / maximum permissible</li> </ul>	5
Number of variables (items) <ul style="list-style-type: none"> <li>per monitoring (subscriptions) / maximum</li> </ul>	900
Storage capacity / for monitored variables (items)	45000 byte
Queue size / per monitored variable (item)	2

Performance data / as OPC UA client	
Protocol / is supported / OPC UA Client	Yes
Number of possible connections / for OPC UA server / maximum	5
Number of variables (items) / over all connections reading/writing / maximum	10000
Protocol / is supported <ul style="list-style-type: none"> <li>SNMP v1</li> <li>SNMP v3</li> </ul>	Yes Yes
Configuration software	

- required

STEP 7 V5.5 SP4 HF10 or higher / STEP 7 Professional V14 (TIA Portal) or higher

### Product functions / Diagnosis

Product function / Web-based diagnostics Yes

### Product functions / Security

Product function

- password protection for Web applications Yes
- encrypted data transmission Yes
- switch-off of non-required services Yes
- log file for unauthorized access Yes

### Product functions / Time

Protocol / is supported

- NTP Yes
- NTP (secure) Yes

### 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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