

Product type designation

CP 443-1 RNA

Communications processor CP 443-1 RNA; 1x 10/100 Mbit/s RJ45 port; ISO; S7-, H-communic., open comm. (SEND/RECEIVE); S7 routing; 2x 100 Mbit/s RJ 45 port: PRP; ISO; ISO-on-TCP; TCP; UDP S7, H-communic., open comm. (SEND/RECEIVE); S7 routing; time synchronization; IP Access Control List; Web diagnostics; SNMPV1



Transmission rate

Transfer rate

- | | |
|------------------------|-------------------|
| • at the 1st interface | 10 ... 100 Mbit/s |
| • at the 2nd interface | 100 Mbit/s |

Interfaces

Number of interfaces / acc. to Industrial Ethernet	3
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
• at the 2nd interface / acc. to Industrial Ethernet	2
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• at the 2nd interface / acc. to Industrial Ethernet	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	1.8 A
Power loss [W]	9 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 S7-400 single width
Width	25 mm
Height	290 mm
Depth	210 mm
Net weight	0.7 kg

Product properties, functions, components / general

Number of units	
• per CPU / maximum	14

Performance data / open communication

Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	64
Amount of data	
• as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum	2 Kibyte
Number of possible connections / for open communication	
• by means of T blocks / maximum	64
Amount of data	

- as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum

1452 byte

Performance data / S7 communication

Number of possible connections / for S7 communication

- maximum
- with PG connections / maximum
- Note

128

2

when using several CPUs

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode

128

Product functions / management, configuration

Protocol / is supported

- SNMP v1
- DCP

Yes

Yes

Configuration software

- required

STEP 7 V5.5 SP2 + HSP or higher

Product functions / Diagnosis

Product function / Web-based diagnostics

Yes

Product functions / Redundancy

Product function

- Ring redundancy
- Redundancy manager
- Parallel Redundancy Protocol (PRP)/operation in the PRP-network
- High-availability Seamless Redundancy (HSR) and Parallel Redundancy Protocol (PRP) coupling

No

No

Yes

No

Protocol / is supported / Media Redundancy Protocol (MRP)

No

Product functions / Security

Product function

- ACL - IP-based
- ACL - IP-based for PLC/routing
- switch-off of non-required services
- Blocking of communication via physical ports
- log file for unauthorized access

Yes

Yes

Yes

Yes

No

Product functions / Time

Product function / SICLOCK support

Yes

Product function / pass on time synchronization

Yes

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

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