

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 RJ45 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.

transfer rate	
transfer rate	
• at the 1st interface	10 ... 100 Mbit/s
• at the 2nd interface	100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	3
number of electrical connections	
• at the 1st interface / according to Industrial Ethernet	1
• at the 2nd interface / according to Industrial Ethernet	2
type of electrical connection	
• at the 1st interface / according to Industrial Ethernet	RJ45 port
• at the 2nd interface / according 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 weights	
module format	Compact module S7-400 single width
width	25 mm
height	290 mm
depth	210 mm
net weight	0.7 kg
product features, product functions, product 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
data volume	
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
data volume	
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	128; when using several CPUs
with PG connections / maximum	2
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	128
product functions / management, configuration, engineering	
protocol / is supported	
SNMP v1	Yes
DCP	Yes
configuration software	
required	STEP 7 V5.5 SP2 + HSP or higher
product function / is supported / identification link	Yes
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / redundancy	
product function	
ring redundancy	No
redundancy manager	No
Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
High-availability Seamless Redundancy (HSR) and Parallel Redundancy Protocol (PRP) coupling	No
protocol / is supported / Media Redundancy Protocol (MRP)	No
product functions / security	
product function	
ACL - IP-based	Yes
ACL - IP-based for PLC/routing	Yes
switch-off of non-required services	Yes
blocking of communication via physical ports	Yes
log file for unauthorized access	No
product functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
NTP	Yes
NTP (secure)	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
certificate of suitability / CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes

Global Warming Potential [CO2 eq]	
• total • during manufacturing • during operation • after end of life	350.22 kg 65.61 kg 281.89 kg 2.72 kg
further information / internet links	
internet link	
• to website: Image database • to website: Industry Online Support	https://www.automation.siemens.com/bilddb 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, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)

last modified:

2/14/2024 