SIEMENS

Data sheet 6GK7443-1RX00-0XE0

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.

product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6GK7443-1RX00-0XE0
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	

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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; acc. to IEC 61406-1:2022
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	
certificate of suitability / CE marking	Yes

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certificate of suitability / UKCA marking	Yes
certificate of suitability / cULus approval	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
standards, specifications, approvals / marine classification / header	
Marine classification association / American Bureau of Shipping Europe Ltd. (ABS)	Yes
Marine classification association / French marine classification society (BV)	Yes
Marine classification association / Chinese Classification Society (CCS)	Yes
Marine classification association / Det Norske Veritas (DNV)	Yes
Marine classification association / Lloyds Register of Shipping (LRS)	Yes
Marine classification association / Nippon Kaiji Kyokai (NK)	Yes
Marine classification association / Polski Rejestr Statkow (PRS)	Yes
Marine classification association / Royal Institution of Naval Architects (RINA)	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	350.22 kg
• during manufacturing	65.61 kg
• during operation	281.89 kg
• after end of life	2.72 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity 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 cybersecurity 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 cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. 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 Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)
Approvals / Certificates	
General Product Approval	

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Declaration of Conformity | China RoHS | Manufacturer Declaration

General Product Approval | **EMV**

China RoHS

For use in hazardous locations | **Maritime application**

FM | CCC-Ex

Maritime application

NK / Nippon Kaiji Kyokai

Maritime application | **Environment**

CCS (China Classification Society)

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