# 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 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 |

## Permitted 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 | 128 |
| • with PG connections / maximum | 2 |
| • Note | when using several CPUs |

## Performance data / multi-protocol mode

| | |
|---|---|
| Number of active connections / with multi-protocol mode | 128 |
| Protocol / is supported | |
| • SNMP v1 | Yes |
| • DCP | 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 | 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 |

## Accessories

## 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) |
| **last modified:** | 07/10/2018 |