

product type designation



CP 443-1

Communications processor CP 443-1; 2x 10/100 Mbit/s (IE switch); RJ45 ports; ISO; TCP; UDP; PROFINET IO controller; S7 communication; Open communication (SEND/ RECEIVE); S7 routing; IP configuration via DHCP/ Block; IP Access control list; time-of-day synchronization; extended web diagnostics; Fast Startup; Support for PROFinergy;

| transfer rate | |
|--|---|
| transfer rate | |
| <ul style="list-style-type: none"> at the 1st interface | 10 ... 100 Mbit/s |
| interfaces | |
| number of interfaces / according to Industrial Ethernet | 2 |
| number of electrical connections | |
| <ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet | 2 |
| type of electrical connection | |
| <ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet | RJ45 port |
| design of the removable storage | |
| <ul style="list-style-type: none"> C-PLUG | No |
| 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 | |
| <ul style="list-style-type: none"> at 5 V | 5 % |
| consumed current | |
| <ul style="list-style-type: none"> from backplane bus / at DC / at 5 V / typical | 1.4 A |
| power loss [W] | 7.25 W |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation during storage during transport | 0 ... 60 °C -40 ... +70 °C -40 ... +70 °C |
| relative humidity | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> per CPU / maximum note | 14 max. 4 as PN IO ctrl. |
| performance data / open communication | |

| | |
|--|--|
| number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum | 64 |
| data volume | |
| <ul style="list-style-type: none"> as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum | 8 Kibyte |
| <ul style="list-style-type: none"> as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum | 8 Kibyte |
| <ul style="list-style-type: none"> as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum | 8 Kibyte |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> by means of T blocks / maximum | 64 |
| data volume | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> maximum | 128; when using several CPUs |
| <ul style="list-style-type: none"> with PG connections / maximum | 2 |
| performance data / multi-protocol mode | |
| number of active connections / with multi-protocol mode | 128 |
| performance data / PROFINET communication / as PN IO controller | |
| product function / PROFINET IO controller | Yes |
| number of PN IO devices / on PROFINET IO controller / operable / total | 128 |
| number of PN IO IRT devices / on PROFINET IO controller / operable | 64 |
| number of external PN IO lines / with PROFINET / per rack | 4 |
| data volume | |
| <ul style="list-style-type: none"> as user data for input variables / as PROFINET IO controller / maximum | 4 Kibyte |
| <ul style="list-style-type: none"> as user data for output variables / as PROFINET IO controller / maximum | 4 Kibyte |
| <ul style="list-style-type: none"> as user data for input variables per PN IO device / as PROFINET IO controller / maximum | 1433 byte |
| <ul style="list-style-type: none"> as user data for output variables per PN IO device / as PROFINET IO controller / maximum | 1433 byte |
| <ul style="list-style-type: none"> as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum | 240 byte |
| <ul style="list-style-type: none"> as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum | 240 byte |
| product functions / management, configuration, engineering | |
| product function / MIB support | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> SNMP v1 | Yes |
| <ul style="list-style-type: none"> DCP | Yes |
| <ul style="list-style-type: none"> LLDP | Yes |
| configuration software | |
| <ul style="list-style-type: none"> required | STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) 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 / switch | |
| product feature / switch | Yes |
| product function | |
| <ul style="list-style-type: none"> switch-managed | No |
| <ul style="list-style-type: none"> with IRT / PROFINET IO switch | Yes |
| <ul style="list-style-type: none"> configuration with STEP 7 | Yes |
| product functions / redundancy | |
| product function | |
| <ul style="list-style-type: none"> ring redundancy | Yes |

| | |
|---|--|
| • redundancy manager | Yes |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| product functions / security | |
| product function | |
| • password protection for Web applications | No |
| • ACL - IP-based | Yes |
| • ACL - IP-based for PLC/routing | No |
| • 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 |
| • SIMATIC time synchronization (SIMATIC Time) | Yes |
| standards, specifications, approvals | |
| reference code | |
| • according to IEC 81346-2:2019 | KEC |
| certificate of suitability / CE marking | Yes |
| certificate of suitability / UKCA marking | Yes |
| certificate of suitability / KC approval | Yes |
| certificate of suitability / Regulatory Compliance Mark (RCM) | 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 / CCC / for hazardous zone according to GB standard | Yes |
| certificate of suitability / FM registration | Yes |
| standards, specifications, approvals / marine classification / header | |
| 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 |
| standards, specifications, approvals / Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| • total | 291.68 kg |
| • during manufacturing | 63.62 kg |
| • during operation | 226.98 kg |
| • after end of life | 1.08 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



[Declaration of Con-
formity](#)



[China RoHS](#)

General Product Approval

EMV

For use in hazardous locations



[Miscellaneous](#)



[KC](#)



For use in hazardous locations

Maritime application

[FM](#)

[CCC-Ex](#)



Maritime application

Environment

[NK / Nippon Kaiji Ky-
okai](#)

[CCS \(China Classifica-
tion Society\)](#)



last modified:

8/15/2025