

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 PROFinenergy;

| 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 functions / diagnostics | |
| product function / web-based diagnostics | Yes |
| product functions / switch | |
| product feature / switch | Yes |
| product function | |

| | |
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| <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 |
| <ul style="list-style-type: none"> • redundancy manager | Yes |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| product functions / security | |
| product function | |
| <ul style="list-style-type: none"> • password protection for Web applications | No |
| <ul style="list-style-type: none"> • ACL - IP-based | Yes |
| <ul style="list-style-type: none"> • ACL - IP-based for PLC/routing | No |
| <ul style="list-style-type: none"> • switch-off of non-required services | Yes |
| <ul style="list-style-type: none"> • blocking of communication via physical ports | Yes |
| <ul style="list-style-type: none"> • log file for unauthorized access | No |
| product functions / time | |
| product function / SICLOCK support | Yes |
| product function / pass on time synchronization | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • NTP | Yes |
| <ul style="list-style-type: none"> • SIMATIC time synchronization (SIMATIC Time) | Yes |
| standards, specifications, approvals / hazardous environments | |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |
| further information / internet-Links | |
| Internet-Link | |
| <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| <ul style="list-style-type: none"> • to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> • to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> • to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> • to website: CAx-Download-Manager | http://www.siemens.com/cax |
| <ul style="list-style-type: none"> • to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
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