

Data sheet

6AG1443-1EX30-4XE0

product type designation



Figure similar

CP 443-1

SIPLUS NET CP 443-1 based on 6GK7443-1EX30-0XE0 with conformal coating, 0...+60 °C, 2x 10/100 Mbps (IE switch); RJ 45 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 start up; support for PROFlenergy

Technical Product Detail Page

<https://i.siemens.com/1P6AG1443-1EX30-4XE0>

transfer rate

| | |
|------------------------|-------------------|
| transfer rate | |
| • at the 1st interface | 10 ... 100 Mbit/s |

interfaces

| | |
|---|-----------|
| number of interfaces / according to Industrial Ethernet | 2 |
| number of electrical connections | |
| • at the 1st interface / according to Industrial Ethernet | 2 |
| type of electrical connection | |
| • at the 1st interface / according to Industrial Ethernet | RJ45 port |
| design of the removable storage | |
| • 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 | |
| • at 5 V | 5 % |
| consumed current | |
| • from backplane bus / at DC / at 5 V / typical | 1.4 A |
| power loss [W] | 7.25 W |

ambient conditions

| | |
|--|--|
| ambient temperature | |
| • during operation | 0 ... 60 °C |
| • during storage | -40 ... +70 °C |
| • during transport | -40 ... +70 °C |
| installation altitude / at height above sea level / maximum | 5000 m |
| ambient condition / relating to ambient temperature - air pressure - installation altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| relative humidity | |
| • with condensation / according to IEC 60068-2-38 / maximum | 100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation |
| chemical resistance / to commercially available cooling lubricants | Yes; incl. airborne diesel and oil droplets |
| resistance to biologically active substances | |
| • conformity according to EN 60721-3-3 | Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request |
| • conformity according to EN 60721-3-6 | Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) |

| | |
|--|--|
| resistance to chemically active substances <ul style="list-style-type: none"> • conformity according to EN 60721-3-3 • conformity according to EN 60721-3-6 | Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation. Yes |
| resistance to mechanically active substances <ul style="list-style-type: none"> • conformity according to EN 60721-3-3 • conformity according to EN 60721-3-6 | Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation. Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation. |
| coating / for equipped printed circuit board / according to EN 61086 | Yes; Class 2 for high availability |
| type of coating / protection against pollution according to EN 60664-3 | Yes; Protection of the type 1 |
| type of test / of the coating / according to MIL-I-46058C | Yes; Coating discoloration during service life possible |
| product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, class A |
| 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 feature / conformal coating | Yes |
| 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 • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum • as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum • as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum | 8 Kibyte 8 Kibyte 8 Kibyte 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 • with PG connections / maximum | 128; when using several CPUs 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 | |
| • as user data for input variables / as PROFINET IO controller / maximum | 4 Kibyte |
| • as user data for output variables / as PROFINET IO controller / maximum | 4 Kibyte |
| • as user data for input variables per PN IO device / as PROFINET IO controller / maximum | 1433 byte |
| • as user data for output variables per PN IO device / as PROFINET IO controller / maximum | 1433 byte |
| • as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum | 240 byte |
| • 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 | |
| • SNMP v1 | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| configuration software | |
| • 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 | |
| • switch-managed | No |
| • with IRT / PROFINET IO switch | Yes |
| • configuration with STEP 7 | Yes |
| product functions / redundancy | |
| product function | |
| • 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 |
| 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 |

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Approvals / Certificates

General Product Approval

EMV



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