

product type designation



CP 1542SP-1

Communications processor CP 1542SP-1 for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet; open IE communication (TCP/IP, ISO-on-TCP, UDP), PG/OP, S7 routing, IP broadcast/multicast, SNMPV1, DHCP, Email, IPV4/IPV6, time-of-day synchronization via NTP, access to web server of CPU, bus adapter required.

| 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 | 1 |
| 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 | via ET 200SP bus adapter (RJ45, FC, SCRJ), integrated switch |
| supply voltage, current consumption, power loss | |
| type of voltage / of the supply voltage | DC |
| supply voltage | 24 V |
| supply voltage | 19.2 ... 28.8 V |
| power loss [W] | 6 W |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> for vertical installation / during operation for horizontally arranged busbars / during operation during storage during transport | -30 ... +50 °C -30 ... +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 | |
| width | 60 mm |
| height | 117 mm |
| depth | 74 mm |
| net weight | 0.18 kg |
| fastening method | |
| <ul style="list-style-type: none"> 35 mm top hat DIN rail mounting | Yes |
| product features, product functions, product components / general | |
| number of units | |
| <ul style="list-style-type: none"> per CPU / maximum note | 2 2 CPs can be plugged in per CPU, simultaneous operation with BA Send and CM DP is possible |
| performance data / open communication | |
| number of possible connections / for open communication | |
| <ul style="list-style-type: none"> by means of T blocks / maximum | 32 |

| | |
|--|--|
| data volume | 65536 byte |
| <ul style="list-style-type: none"> • as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum | |
| performance data / S7 communication | |
| number of possible connections / for S7 communication | |
| <ul style="list-style-type: none"> • maximum | 16 |
| <ul style="list-style-type: none"> • with OP connections / maximum | 16 |
| performance data / multi-protocol mode | |
| number of active connections / with multi-protocol mode | 32 |
| 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"> • SNMP v3 | No |
| <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 Professional V14 (TIA Portal) or higher |
| identification & maintenance function | |
| <ul style="list-style-type: none"> • I&M0 - device-specific information | Yes |
| <ul style="list-style-type: none"> • I&M1 - higher level designation/location designation | Yes |
| product functions / diagnostics | |
| product function / web-based diagnostics | Yes; via ET 200SP CPU |
| product functions / security | |
| product function | |
| <ul style="list-style-type: none"> • blocking of communication via physical ports | Yes |
| product functions / time | |
| product function / SICLOCK support | Yes |
| product function / pass on time synchronization | No |
| protocol / is supported | |
| <ul style="list-style-type: none"> • NTP | Yes |
| <ul style="list-style-type: none"> • NTP (secure) | No |
| time synchronization | |
| <ul style="list-style-type: none"> • from NTP-server | Yes |
| standards, specifications, approvals / hazardous environments | |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |
| <ul style="list-style-type: none"> • as marking | Ex nA IIC T4 Gc |
| 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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