

### product type designation



### CP 1543SP-1

Communications processor CP 1543SP-1 for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet; Security (firewall and VPN) Open IE communication (TCP/IP, ISO-on-TCP, UDP) PG/OP, S7 routing, IP broadcast/multicast, SNMPV1/V3, DHCP, secure email, IPV4/IPV6, support of SINEMA Remote Connect with autoconfiguration, 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"> <li>at the 1st interface</li> </ul>   | 10 ... 100 Mbit/s   |
| interfaces   |   |
| number of interfaces / acc. to Industrial Ethernet   | 1   |
| number of electrical connections   |   |
| <ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> </ul>   | 2   |
| type of electrical connection  |   |
| <ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> </ul>   | 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"> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> </ul> | -30 ... +50 °C<br>-30 ... +60 °C<br>-40 ... +70 °C<br>-40 ... +70 °C                            |
| relative humidity  |   |
| <ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>   | 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"> <li>35 mm top hat DIN rail mounting</li> </ul>  | Yes   |
| product features, product functions, product components / general  |   |
| number of units  |   |
| <ul style="list-style-type: none"> <li>per CPU / maximum</li> <li>note</li> </ul>  | 2<br>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"> <li>by means of T blocks / maximum</li> </ul>   | 32  |
| data volume  |   |
| <ul style="list-style-type: none"> <li>as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum</li> </ul> | 65536 byte  |
| performance data / S7 communication  |   |
| number of possible connections / for S7 communication  |   |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>  | 16  |
| <ul style="list-style-type: none"> <li>with OP connections / maximum</li> </ul>  | 16  |
| performance data / multi-protocol mode   |   |
| number of active connections / with multi-protocol mode  | 32  |
| performance data / IT functions  |   |
| number of possible connections   |   |
| <ul style="list-style-type: none"> <li>as email client / maximum</li> </ul>  | 1   |
| product functions / management, configuration, engineering   |   |
| product function / MIB support   | Yes   |
| protocol / is supported  |   |
| <ul style="list-style-type: none"> <li>SNMP v1</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>SNMP v3</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>DCP</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>LLDP</li> </ul>   | Yes   |
| configuration software   |   |
| <ul style="list-style-type: none"> <li>required</li> </ul>   | STEP 7 Professional V14 (TIA Portal) or higher  |
| identification & maintenance function  |   |
| <ul style="list-style-type: none"> <li>I&amp;M0 - device-specific information</li> </ul>   | Yes   |
| <ul style="list-style-type: none"> <li>I&amp;M1 – higher level designation/location designation</li> </ul>   | Yes   |
| product functions / diagnostics  |   |
| product function / web-based diagnostics   | Yes; via ET 200SP CPU   |
| product functions / security   |   |
| firewall version   | stateful inspection   |
| product function / with VPN connection   | IPsec, SINEMA RC  |
| type of encryption algorithms / with VPN connection  | AES-256, AES-192, AES-128, 3DES-168, DES-56   |
| type of authentication procedure / with VPN connection   | Preshared key (PSK), X.509v3 certificates   |
| type of hashing algorithms / with VPN connection   | MD5, SHA-1  |
| number of possible connections / with VPN connection   | 4   |
| product function   |   |
| <ul style="list-style-type: none"> <li>switch-off of non-required services</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>blocking of communication via physical ports</li> </ul>   | Yes   |
| <ul style="list-style-type: none"> <li>log file for unauthorized access</li> </ul>   | 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"> <li>NTP</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>NTP (secure)</li> </ul>   | Yes   |
| time synchronization   |   |
| <ul style="list-style-type: none"> <li>from NTP-server</li> </ul>  | 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"> <li>to web page: selection aid TIA Selection Tool</li> </ul>  | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>   |
| <ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>   | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| <ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>  | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| <ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>  | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |

- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

## security information

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