SIEMENS

Data sheet

6GK7543-1AX00-0XE0

product type designation



CP 1543-1

Communications processor CP 1543-1 for connection of SIMATIC S7-1500 to Industrial Ethernet, TCP/IP, ISO, UDP, S7 communication, IP Broadcast/ Multicast, security (VPN, Firewall) Diagnostics SNMPV1/V3, DHCP, FTP client/server, Email, IPv4/IPv6, IEEE 802.1X (radius), time synchronization via NTP, 1x RJ45 (10/100/1000 Mbit)

| transfer rate | |
|--|-------------------------------------|
| transfer rate | |
| at the 1st interface | 10 1000 Mbit/s |
| interfaces | |
| number of interfaces / acc. to Industrial Ethernet | 1 |
| number of electrical connections | |
| at the 1st interface / acc. to Industrial Ethernet | 1 |
| type of electrical connection | |
| at the 1st interface / acc. to Industrial Ethernet | RJ45 port |
| supply voltage, current consumption, power loss | |
| type of voltage / of the supply voltage | DC |
| supply voltage / 1 / from backplane bus | 15 V |
| relative symmetrical tolerance / at DC | |
| ● at 15 V | 3 % |
| consumed current | |
| • from backplane bus / at DC / at 15 V / typical | 0.35 A |
| power loss [W] | 5.3 W |
| ambient conditions | |
| ambient temperature | |
| for vertical installation / during operation | 0 40 °C |
| for horizontally arranged busbars / during operation | 0 60 °C |
| during storage | -40 +70 °C |
| during transport | -40 +70 °C |
| relative humidity | |
| at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |
| design, dimensions and weights | |
| module format | Compact module S7-1500 single width |
| width | 35 mm |
| height | 142 mm |
| depth | 129 mm |
| net weight | 0.35 kg |
| fastening method | |
| S7-1500 rail mounting | Yes |
| product features, product functions, product components / general | |
| number of units | |
| • per CPU / maximum | 8 |

| • note | depending on CPU type |
|--|--|
| performance data / open communication | |
| number of possible connections / for open communication | |
| by means of T blocks / maximum | 118; depending on the system upper limit |
| data volume | |
| • as user data per ISO on TCP connection / for open | 65536 byte |
| communication / by means of T blocks / maximum | |
| number of Multicast stations | 118 |
| performance data / S7 communication | |
| number of possible connections / for S7 communication | |
| • maximum | 118; depending on the system upper limit |
| performance data / multi-protocol mode | |
| number of active connections / with multi-protocol mode | 118 |
| performance data / IT functions | |
| number of possible connections | |
| as client / by means of FTP / maximum | 32 |
| as server / by means of FTP / maximum | 16 |
| number of possible connections | |
| as server / by means of HTTP / maximum | 4 |
| as email client / maximum | 1 |
| data volume / as user data for email / maximum | 64 Kibyte |
| performance data / telecontrol | |
| protocol / is supported | |
| • TCP/IP | Yes |
| product functions / management, configuration, engineering | ng |
| product function / MIB support | Yes |
| protocol / is supported | |
| • SNMP v1 | Yes |
| • DCP | Yes |
| • LLDP | No |
| configuration software | |
| • required | STEP 7 Professional V14 (TIA Portal) or higher |
| identification & maintenance function | V |
| I&M0 - device-specific information | Yes |
| I&M1 – higher level designation/location designation | Yes |
| product functions / diagnostics | V 1 07 170 071 |
| product function / web-based diagnostics | Yes; via S7-1500 CPU |
| product functions / routing | |
| service / routing / note | IP routing up to 1 Mbps |
| product function | V |
| static IP routing | Yes |
| • static IP routing IPv6 | No |
| dynamic IP routing dynamic IP routing IPv6 | No No |
| dynamic IP routing IPv6 protocol / is supported. | No |
| protocol / is supported | No |
| • RIP v1 | No No |
| RIPv2 PIPnG for IPv6 | No No |
| RIPnG for IPv6OSPFv2 | No No |
| OSPFv2 OSPFv3 for IPv6 | No No |
| • VRRP | No |
| VRRP for IPv6 | No |
| VRRP for IPV6 BGP | No |
| • BGP • PPP | No |
| PPoE via DSL | No |
| product functions / security | 110 |
| firewall version | stateful inspection |
| product function / with VPN connection | stateful inspection IPSec |
| · | |
| 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 | 16 |
| product function | |
| • IEEE 802.1x (radius) | Yes |
| password protection for Web applications | No |
| ACL - IP-based | No |
| ACL - IP-based for PLC/routing | No |
| switch-off of non-required services | Yes |
| blocking of communication via physical ports | No |
| log file for unauthorized access | Yes |
| product functions / time | 165 |
| | Von |
| product function / SICLOCK support | Yes |
| product function / pass on time synchronization | Yes |
| protocol / is supported | Voc |
| • NTP | Yes |
| standards, specifications, approvals / hazardous environ | |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |
| further information / internet-Links | |
| Internet-Link | |
| to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| to website: Industrial communication | http://www.siemens.com/simatic-net |
| to website: Industry Mall | https://mall.industry.siemens.com |
| to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| to website: Image database | http://automation.siemens.com/bilddb |
| to website: CAx-Download-Manager | http://www.siemens.com/cax |
| to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
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