## SIEMENS

## Data sheet

## 6GK7543-1AX00-0XE0

| product type designation   | CP 1543-1   |  |
|--|---|--|
|  | Communications processor CP 1543-1 for connection of SIMATIC S7-1500 to<br>Industrial Ethernet, TCP/IP, ISO, UDP, S7 communication, IP Broadcast/ Multicast,<br>security (VPN, Firewall) Diagnostics SNMPV1/V3, DHCP, FTP client/server, Email,<br>IPv4/IPv6, IEEE 802.1X (radius), time-of-day synchronization via NTP, 1x RJ45<br>(10/100/1000 Mbit). |  |
| transfer rate  |   |  |
| transfer rate  |   |  |
| • at the 1st interface   | 10 1000 Mbit/s  |  |
| interfaces   |   |  |
| number of interfaces / according to Industrial Ethernet                              | 1   |  |
| number of electrical connections   |   |  |
| <ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>          | 1   |  |
| type of electrical connection  |   |  |
| <ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>          | 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   |   |  |
| <ul> <li>from backplane bus / at DC / at 15 V / typical</li> </ul>                   | 0.35 A  |  |
| power loss [W]   | 5.3 W   |  |
| ambient conditions   |   |  |
| ambient temperature  |   |  |
| <ul> <li>for vertical installation / during operation</li> </ul>                     | 0 40 °C   |  |
| <ul> <li>for horizontally arranged busbars / during operation</li> </ul>             | 0 60 °C   |  |
| <ul> <li>during storage</li> </ul>   | -40 +70 °C  |  |
| during transport   | -40 +70 °C  |  |
| relative humidity  |   |  |
| <ul> <li>at 25 °C / without condensation / during operation /<br/>maximum</li> </ul> | 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   |  |



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| 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  | 00000 byte                                     |
| 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  | 10   |
|   | 1  |
| <ul> <li>as server / by means of HTTP / maximum</li> <li>as email client / maximum</li> </ul> | 4  |
| as email client / maximum   |  |
| data volume / as user data for email / maximum  | 64 Kibyte                                      |
| performance data / telecontrol  |  |
| protocol / is supported   |  |
| • TCP/IP  | Yes  |
| product functions / management, configuration, engineering                                    |  |
| product function / MIB support  | Yes  |
| protocol / is supported   |  |
| • SNMP v1   | Yes  |
| • SNMP v3   | Yes  |
| • DCP   | Yes  |
| • LLDP  | Yes  |
| configuration software  |  |
| required  | STEP 7 Professional V14 (TIA Portal) or higher |
| identification & maintenance function   |  |
| <ul> <li>I&amp;M0 - device-specific information</li> </ul>                                    | Yes  |
| <ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>                  | Yes  |
| product functions / diagnostics   |  |
| product function / web-based diagnostics  | Yes; via S7-1500 CPU                           |
| product functions / routing   |  |
| service / routing / note  | IP routing up to 1 Mbps                        |
| product function  |  |
| static IP routing   | Yes  |
| static IP routing IPv6  | No   |
| dynamic IP routing  | No   |
| dynamic IP routing IPv6   | No   |
| protocol / is supported   |  |
| • RIP v1  | No   |
| • RIPv2   | No   |
| RIPnG for IPv6  | No   |
| OSPFv2  | No   |
| OSPFV2     OSPFV3 for IPv6  | No   |
| VRP   | No   |
|   |  |
| VRRP for IPv6   | No   |
| • BGP   | No   |
| • PPP   | No   |
| PPoE via DSL  | No   |
| product functions / security  |  |
| firewall version  | stateful inspection                            |
| product function / with VPN connection  | 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, SHA-256, SHA-384, SHA-512   |
|--|---|
| number of possible connections / with VPN connection                           | 16  |
| product function   |   |
| IEEE 802.1x (radius)   | Yes   |
| <ul> <li>password protection for Web applications</li> </ul>                   | No  |
| ACL - IP-based   | No  |
| <ul> <li>ACL - IP-based for PLC/routing</li> </ul>                             | No  |
| <ul> <li>switch-off of non-required services</li> </ul>                        | Yes   |
| <ul> <li>blocking of communication via physical ports</li> </ul>               | No  |
| <ul> <li>log file for unauthorized access</li> </ul>                           | Yes   |
| product functions / time   |   |
| product function / SICLOCK support   | No  |
| product function / pass on time synchronization                                | Yes   |
| protocol / is supported  |   |
| • NTP  | Yes   |
| standards, specifications, approvals / hazardous environments                  |   |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes; GB3836.1, GB3836.8   |
| • as marking   | Ex nA IIC T4 Gc   |
| further information / internet links   |   |
| internet link  |   |
| <ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>              | http://www.siemens.com/tia-selection-tool   |
| <ul> <li>to website: Industrial communication</li> </ul>                       | http://www.siemens.com/simatic-net  |
| <ul> <li>to website: Industry Mall</li> </ul>                                  | https://mall.industry.siemens.com   |
| <ul> <li>to website: Information and Download Center</li> </ul>                | http://www.siemens.com/industry/infocenter  |
| <ul> <li>to website: Image database</li> </ul>                                 | http://automation.siemens.com/bilddb  |
| <ul> <li>to website: CAx-Download-Manager</li> </ul>                           | http://www.siemens.com/cax  |
| <ul> <li>to website: Industry Online Support</li> </ul>                        | https://support.industry.siemens.com  |
| security information   |   |
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