## **SIEMENS**

Data sheet

## 6GK7543-1AX00-0XE0

COMMUNICATION PROCESSOR CP 1543-1 FOR CONNECTING SIMATIC S7-1500 TO INDUSTRIAL ETHERNET: TCP/IP, ISO, UDP, S7- COMMUNICATION, IP-BROADCAST/ MULTICAST, SECURITY (HARDWARE- IDENTIFICATION, IP/MAC ACCESS LIST, FIREWALL), DIAGNOSIS SNMPV1/V3, DHCP, FTP CLIENT/ SERVER, E-MAIL, IPV4/IPV6, DATA STORAGE ON SD CARD OF CPU, CLOCK SYNCHRONISATION VIA NTP, ACCESS TO WEBSERVER OF CPU; GIGABIT-SS 1XRJ45 (10/100/1000 MBIT)

Transmission 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 / for DC	
• at 15 V	3 %
Consumed current	
<ul> <li>from backplane bus / for DC / at 15 V / typical</li> </ul>	0.35 A
Active power loss	5.3 W
Permitted ambient conditions	
Ambient temperature	
<ul> <li>for vertical installation / during operation</li> </ul>	0 40 °C
<ul> <li>for horizontally arranged busbars / during</li> </ul>	0 60 °C
operation	
• during storage	-40 +70 °C
• during transport	-40 +70 °C

Relative humidity / at 25 °C / without condensation /	95 %
during operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
Module format	Compact module S7-1500 single width
Width	35 mm
Height	142 mm
Depth	129 mm
Net weight	0.35 kg
Mounting type	
<ul> <li>S7-1500 rail mounting</li> </ul>	Yes
Product properties, functions, components / genera	al
Number of units	
• per CPU / maximum	8
• Note	depending on CPU type
Performance data / open communication	
Number of possible connections / for open	
communication	
<ul> <li>by means of T blocks / maximum</li> </ul>	118; depending on the system upper limit
Amount of data	
<ul> <li>as user data per ISO on TCP connection / for</li> </ul>	65536 byte
open 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
Note	depending on the system upper limit
Performance data / multi-protocol mode Number of active connections / with multi-protocol	110
mode	118
Performance data / IT functions	
Number of possible connections	
<ul> <li>as client / by means of FTP / maximum</li> </ul>	32
<ul> <li>as server / by means of FTP / maximum</li> </ul>	16
<ul> <li>as server / by means of HTTP / maximum</li> </ul>	4
• as e-mail client / maximum	1
Amount of data / as user data for email / maximum	64 Kibyte
Performance data / telecontrol	
Protocol / is supported	

• TCP/IP

Yes

Product functions / management, configuration		
Product function / MIB support	Yes	
Protocol / is supported		
• SNMP v1	Yes	
• DCP	Yes	
• LLDP	No	
Configuration software		
• required	STEP 7 Professional V12 (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</li> </ul>	Yes	
designation		
Product functions / Diagnosis		
Product function / Web-based diagnostics	Yes; yes, via S7-1500 CPU	
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	Preshared key (PSK), X.509v3 certificates	
connection		
Type of hashing algorithms / with VPN connection	MD5, SHA-1	
Number of possible connections / with VPN	16	
connection		
Product function		
<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	Yes	
Product function / pass on time synchronization	Yes	
Protocol / is supported / NTP	Yes	
Further Information / Internet Links Internet-Link		
to website: Selector SIMATIC NET	http://www.siemens.com/snst	
• to website: Selector Similaric Net SELECTION TOOL		
to website: Industrial communication	http://www.siemens.com/simatic-net	
to website: Industrial communication	https://mall.industry.siemens.com	

- to website: Information and Download Center
   to website: Image database
   http://w
- to website: CAx Download Manager
- to website: Industry Online Support

## Security information

Security information

http://www.siemens.com/automation/net/catalog http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Thirdparty products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

last modified:

12.03.2015