SIEMENS

Data sheet

6GK7545-1GX00-0XE0

product type designation



CP 1545-1

Communications processor CP 1545-1 for connection of SIMATIC S7-1500 to Industrial Ethernet; TCP/IP, UDP, S7 communication, security (VPN, firewall), SNMPv1/v3, DHCP, FTP client/server, email, IPv4/IPv6, time-of-day synchronization via NTP, connection to cloud systems via MQTT, 1x RJ45 (10/100/1000 Mbps).

transfer rate	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		
at the 1st interface / according to Industrial Ethernet	1	
type of electrical connection		
 at the 1st interface / according 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 	0.3 A	
power loss [W]	4.5 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	0.32 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	

product functions / cloud connectivity • Message Queuing Telemetry Transport (MQTT) • Advanced Message Queuing Protocock (AMICP) product function / for cloud connectivity • Inger management • Insert stamping product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connection / for pon communication • by means of T blocks / maximum • as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum • as user of state per ISO on TCP connection / for open communication / for ST communication • maximum • mumber of Multi-cast stations proformance data / IT functions number of possible connections / with multi-protocol mode proformance data / IT functions number of possible connections • as elent / by means of FTP / maximum • as elent / by means of FTP / maximum • as earall client / maximum • as email clie
Message Queuing Telemetry Transport (MOTT) Advanced Message Queuing Protocol (AMCP) No Product function for cloud connectivity Inger management Ves Inger management Ves
Advanced Message Queuing Protocol (AMQP) product function / for cloud connectivity • trigger management • time stampling
product function / for cloud connectivity • trigger management • time stamping product feature / for cloud connectivity / buffered message frame memory number of data points per device / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum flats depending on the system upper limit data volume • as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Multicast stations performance data / ST communication • maximum number of possible connections / for ST communication • maximum parformance data / ST communication • maximum parformance data / multi-protocol mode number of possible connections / for ST communication • maximum parformance data / IT functions number of possible connections / with multi-protocol mode parformance data / IT functions number of possible connections / • as server / by means of FTP / maximum as server / by means of FTP / maximum flat output / as user data for email / maximum data volume / as user data for email / maximum flat data volume / as user data for email / maximum flat data volume / as user data for email / maximum flat data volume / as user data for email / maximum flat of the volume / as user data for email / maximum flat ovlume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum flat volume / as user data for email / maximum
e time stamping
product feature / for cloud connectivity / buffered message frame memory number of data points per device / maximum number of possible connections / for open communication number of possible connections / for open communication e. by means of T blocks / maximum data volume a. su ser data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Mullicast stations number of possible connections / for S7 communication e. maximum performance data / S7 communication number of possible connections / for S7 communication e. maximum performance data / multi-protocol mode number of active connections / with multi-protocol mode number of active connections / with multi-protocol mode number of possible connections e. as client / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum for possible connections e. as server / by means of FTP / maximum e. as server / by means of FTP / maximum for possible connections e. as server / by means of FTP / maximum for possible connections e. as server / by means of FTP / maximum for possible connections e. as server / by means of FTP / maximum for possible connections e. as server / by means of FTP / maximum for possible connections e. as server / by means of FTP / maximum for possible connections for product functions / management, configuration, ongineering product functions / management, configuration, ongineering product functions of management, configuration, ongineering product functions of management, configuration, ongineering product function of web-based diagnostics product function / web-based diagnostics product functions / routing product functions / routing product functions / routing
frame memory number of data points per device / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum data volume • as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Multicast stations performance data / ST communication • maximum number of possible connections / for ST communication • maximum performance data / T cuntions number of possible connections / for ST communication • maximum performance data / multi-protocol mode number of active connections / with multi-protocol mode number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum • as server / by means of FTP / maximum • as server / by means of HTTP / maximum • as email client / maximum • as email client / maximum • as email client / maximum • (4 ktbyte) performance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineering product function / MIB support yes COFP • LLDP *Yes **SMMP Y1 **SMMP Y2 **SMMP Y1 **SMMP Y1 **SMMP Y2 **SMMP Y1 **SMMP Y2 **SMMP Y3 **SMMP Y3 **SSMMP Y4 **SMMP Y4 **SMMP Y4 **SMMP Y4 **SMMP Y4 **SMMP Y5 **SMMP Y5 **SMMP Y6 **SMMP Y1 **SMMP Y6 **SMMP Y1 **SMMP Y6 **SMMP Y1 **SMMP Y1 **SMMP Y6 **SMMP Y1 **SMMP Y1 **SMMP Y1 **SMMP Y2 **SMMP Y2 **SMMP Y3 **SMMP Y4 **SMMP Y4 **SMMP Y4 **SMMP Y4 **SMMP Y4 **SMMP Y5 **SMMP Y4 **SMMP Y4 **SMMP Y5 **SMMP Y5 **SMMP Y5 **SMMP Y6 **SMMP Y
performance data / open communication number of possible connections / for open communication e by means of T blocks / maximum data volume as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Multicast stations performance data / ST communication number of possible connections / for 37 communication e maximum performance data / T connection / for 37 communication e maximum performance data / multi-protocol mode number of active connections / with multi-protocol mode number of possible connections number of possible connections unmber of possible connections as client / by means of FTP / maximum e as server / by means of FTP / maximum e as server / by means of FTP / maximum e as email client / maximum e as email client / maximum formance data / tolecontrol protocol / is supported e TCP/IP protocol / is supported e SMMP v1 e Frequired identification & maintenance function e I&M - device-specific information e Raminerance function eligination eligination softwere e required identification & maintenance function elikM - device-specific information eligination elikM - device-specific
number of possible connections / for open communication • by means of T blocks / maximum at su user data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Multicast stations performance data / St communication number of possible connections / for ST communication • maximum performance data / Trunctions number of active connections / with multi-protocol mode number of active connections / with multi-protocol mode number of possible connections • as client / by means of TFP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of FTP / maximum • as serier / by means of T
by means of T blocks / maximum data volume a su sure data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Multicast stations performance data / S7 communication number of possible connections / for S7 communication mumber of possible connections / for S7 communication mumber of possible connections / with multi-protocol mode performance data / IT functions as client / by means of FTP / maximum 18 performance data / IT functions as server / by means of FTP / maximum 16 number of possible connections as server / by means of FTP / maximum 16 number of possible connections as server / by means of FTP / maximum 4 as server / by means of HTTP / maximum 54 data volume / as user data for email / maximum performance data / telecontrol protocol / is supported TCP/IP product functions / management, configuration, engineering product function / MIB support Yes SNMP v1 SNMP v3 Pes Configuration software required STEP 7 Professional V15.1 (TIA Portal) or higher identification & maintenance function **RiAM* - device-specific information **RiAM* - device-specific information **RiAM* - light rely deleganation/focation designation Yes product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing **Yes; via S7-1500 CPU
data volume a su suer data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Multicast stations performance data / ST communication number of possible connections / for ST communication number of possible connections / with multi-protocol mode number of active connections / with multi-protocol mode number of possible connections / with multi-protocol mode number of possible connections / with multi-protocol mode 118 performance data / IT functions number of possible connections a sclient / by means of FTP / maximum 32 as server / by means of FTP / maximum 16 number of possible connections a server / by means of FTP / maximum 16 number of possible connections a server / by means of FTP / maximum 16 number of possible connections a server / by means of FTP / maximum 16 number of possible connections a server / by means of FTP / maximum 16 number of possible connections a server / by means of FTP / maximum 16 number of possible connections a server / by means of FTP / maximum 17 number of possible connections a server / by means of FTP / maximum 18 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / maximum 19 number of possible connections a server / by means of FTP / max
as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum number of Multicast stations performance data / S7 communication number of possible connections / for S7 communication a maximum performance data / multi-protocol mode number of active connections / with multi-protocol mode number of active connections / with multi-protocol mode number of possible connections as client / by means of FTP / maximum as server / by means of FTP / maximum as a server / by means of FTP / maximum as a server / by means of FTP / maximum as a server / by means of HTTP / maximum as a server / by means of HTTP / maximum berformance data / telecontrol protocol / is supported TCP/IP Yes product functions / management, configuration, engineering product function / MIB support Protocol / is supported SNMP v1 SNMP v3 Yes DCP SNMP v3 Yes DCP Ocofiguration software required identification & maintenance function Risk M0 - device-specific information Risk M1 - higher level designation/location designation Risk M1 - Risk Risk M2 - Risk Risk M2 - Risk M3 - Risk
communication / by means of T blocks / maximum number of Muticast stations performance data / S7 communication number of possible connections / for S7 communication • maximum profromance data / Trunctions number of active connections / with mutil-protocol mode number of active connections / with mutil-protocol mode number of active connections / with mutil-protocol mode number of possible connections / with mutil-protocol mode number of possible connections / with mutil-protocol mode number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum 16 number of possible connections • as server / by means of FTP / maximum • as email client / maximum 1 data volume / as user data for email / maximum 1 data volume / as user data for email / maximum 1 data volume / as user data for email / maximum 1 data volume / as user data for email / maximum 1 data volume / as user data for email / maximum 1 for protocol / is supported • TCP/IP product function / MIB support • SNMP v1 • SNMP v1 • SNMP v3 • Ves • DCP • LLDP • Ves • LLDP • LLDP • Ves • SMM0 - device-specific information • I&M0 - device-specific infor
number of Multicast stations performance data / 57 communication number of possible connections / with multi-protocol mode number of active connections / with multi-protocol mode number of active connections / with multi-protocol mode number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum 16 number of possible connections • as server / by means of HTTP / maximum 4 • as email client / maximum data volume / as user data for email / maximum for tCP/IP product functions / management, configuration, engineering product function / MIB support Protocol / is supported • SNMP v1 • SNMP v1 • SNMP v3 • SNMP v3 • CPC • LLDP configuration software • required identification & maintenance function • (8MN - device-specific information • (8MN - supported / identification link Pes yes acc. to IEC 61406-1:2022 product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
performance data / S7 communication number of possible connections / for S7 communication • maximum 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 • as server / by means of FTP / maximum 16 number of possible connections • as client / by means of FTP / maximum 16 number of possible connections • as server / by means of FTP / maximum 16 number of possible connections • as server / by means of HTTP / maximum 1 data volume / as user data for email / maximum 1 data volume / as user data for email / maximum 1 data volume / as user data for email / maximum 1 data volume / as user data for email / maximum 1 for the volume / as user data for email / maximum 1 for the volume / as user data for email / maximum 1 for the volume / as user data / telecontrol protocol / is supported 1 for PIP 1
number of possible connections / for S7 communication
maximum
performance data / multi-protocol mode number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum 16 number of possible connections • as server / by means of FTP / maximum 16 number of possible connections • as server / by means of HTTP / maximum 4 as server / by means of HTTP / maximum 4 bas server / by means of HTTP / maximum 5 data volume / as user data for email / maximum 6 data volume / as user data for email / maximum 6 data volume / as user data for email / maximum 6 data volume / as user data for email / maximum 6 data volume / as user data for email / maximum 6 data volume / as user data for email / maximum 6 data volume / as user data for email / maximum 6 data volume / as user data for email / maximum 7 exe product function / MIB support 9 resulted • SNMP v1 • SNMP v1 • SNMP v3 • CCP • LLDP 7 ves configuration software • required identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of FTP / maximum 16 number of possible connections • as server / by means of FTP / maximum • as email client / maximum data volume / as user data for email / maximum 64 Kibyte performance data / telecontrol protocol / is supported • TCP/IP product function / MIB support protocol / is supported • SNMP v1 • SNMP v1 • SNMP v3 • DCP • LLDP configuration software • required identification & maintenance function • I&MO - device-specific information • I&MO - device-specific in
number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum 16 number of possible connections • 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 function / MIB support protocol / is supported • SNMP v1 • SNMP v1 • SNMP v3 • SNMP v3 • DCP • LLDP configuration software • required identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&MO - device-specific information / Yes product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product function / web-based diagnostics Yes; via S7-1500 CPU product function / web-based diagnostics Yes; via S7-1500 CPU
number of possible connections as client / by means of FTP / maximum as server / by means of FTP / maximum as server / by means of FTP / maximum as server / by means of HTTP / maximum as server / by means of HTTP / maximum as server / by means of HTTP / maximum 4 as email client / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as user data for email / maximum ful data volume / as email client / yes ful function / MiB supported ful ful ful ful ful ful ful fu
as client / by means of FTP / maximum as server / by means of FTP / maximum 16 number of possible connections as server / by means of HTTP / maximum as email client / maximum 1 data volume / as user data for email / maximum performance data / telecontrol protocol / is supported TCP/IP product function / MIB support o SNMP v1 SNMP v3 SNMP v3 SNMP v3 SNMP v3 SNMP v3 SNMP v3 SNMP v4 SNMP v3 SNMP v4 SNMP v5 SNMP v6 SNMP v6 SNMP v6 SNMP v6 SNMP v7 SNMP v8
as server / by means of FTP / maximum number of possible connections as server / by means of HTTP / maximum as email client / maximum data volume / as user data for email / maximum protocol / is supported TCP/IP roduct function / MIB support product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software required required Identification & maintenance function IsMD - device-specific information Yes product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product function / web-based diagnostics Yes; via S7-1500 CPU
number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum formance data / telecontrol protocol / is supported • TCP/IP product functions / management, configuration, engineering protocol / is supported • SNMP v1 • SNMP v1 • SNMP v3 • DCP • LLDP configuration software • required identification & maintenance function • I&M1 - higher level designation/location designation product function / is supported / ves • I&M1 - higher level designation/location designation product function / is supported / identification link yes; acc. to IEC 61406-1:2022 product function / web-based diagnostics Yes; via S7-1500 CPU product function / routing
as server / by means of HTTP / maximum as email client / maximum data volume / as user data for email / maximum performance data / telecontrol protocol / is supported TCP/IP product functions / management, configuration, engineering protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software required identification & maintenance function Identification is supported / identification link Yes product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product function / web-based diagnostics Yes; via S7-1500 CPU product function / routing
as email client / maximum data volume / as user data for email / maximum performance data / telecontrol protocol / is supported TCP/IP product functions / management, configuration, engineering product function / MIB support SNMP v1 SNMP v3 DCP LLDP configuration software required Identification & maintenance function Identification & maintenance function Identification & maintenance function Identification & maintenance function Identification is supported / identification link Yes product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
data volume / as user data for email / maximum performance data / telecontrol protocol / is supported • TCP/IP Product functions / management, configuration, engineering product function / MIB support protocol / is supported • SNMP v1 • SNMP v3 • DCP • LLDP configuration software • required identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation product function / diagnostics product function / diagnostics product function / web-based diagnostics Product functions / routing
performance data / telecontrol protocol / is supported • TCP/IP Product functions / management, configuration, engineering product function / MIB support protocol / is supported • SNMP v1 • SNMP v3 • DCP • LLDP Configuration software • required identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation product function / diagnostics product function / web-based diagnostics Product function / routing
protocol / is supported
TCP/IP Product functions / management, configuration, engineering product function / MIB support Protocol / is supported SNMP v1 SNMP v3 DCP LLDP Configuration software required identification & maintenance function I&MO - device-specific information I&MO - device-specific information I&MO - device / specific information I&MO - device / specific information I identification / is supported / identification link Yes Product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 Product function / web-based diagnostics Yes; via S7-1500 CPU
product functions / management, configuration, engineering product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP Yes LLDP configuration software required identification & maintenance function I&MO - device-specific information I&MO - device-specific information I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP Yes configuration software required identification & maintenance function I&MO - device-specific information I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
protocol / is supported SNMP v1 SNMP v3 PCP LLDP Yes LLDP Configuration software required STEP 7 Professional V15.1 (TIA Portal) or higher identification & maintenance function I&MO - device-specific information I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU
SNMP v3 SNMP v3 DCP LLDP Yes configuration software required STEP 7 Professional V15.1 (TIA Portal) or higher identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU
SNMP v3 DCP Yes LLDP Yes configuration software required STEP 7 Professional V15.1 (TIA Portal) or higher identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
DCP LLDP Yes configuration software required identification & maintenance function I&M0 - device-specific information Ves I&M1 - higher level designation/location designation product function / is supported / identification link product function / web-based diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
■ LLDP Configuration software ■ required STEP 7 Professional V15.1 (TIA Portal) or higher identification & maintenance function ■ I&M0 - device-specific information ■ I&M1 - higher level designation/location designation product function / is supported / identification link yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
configuration software
identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
I&M0 - device-specific information I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
I&M1 - higher level designation/location designation product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
product function / is supported / identification link Yes; acc. to IEC 61406-1:2022 product functions / diagnostics product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
product functions / diagnostics product function / web-based diagnostics Product functions / routing Yes; via S7-1500 CPU
product function / web-based diagnostics Yes; via S7-1500 CPU product functions / routing
product functions / routing
service / routing / note
service / routing / note IP routing up to 1 Mbps
product function
• static IP routing Yes
• static IP routing IPv6 No
dynamic IP routing
dynamic IP routing IPv6 No
protocol / is supported
protocol / is supported ◆ RIP v1 No
• RIP v1 No
● RIP v1 No

• VRRP	No
VRRP for IPv6	No
BGP	No
• PPP	No
PPoE via DSL	No
product functions / security	NO
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	10
•	No
 password protection for Web applications ACL - IP-based 	No
ACL - IP-based for PLC/routing	No
switch-off of non-required services	Yes
blocking of communication via physical ports leastle for unauthorized pages.	No You
log file for unauthorized access	Yes
product functions / time	
product function / SICLOCK support	No
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
standards, specifications, approvals	
reference code	
according to IEC 81346-2:2019	KEC
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / cULus approval	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments	/ header
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
standards, specifications, approvals / Environmental Product D	eclaration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	162.49 kg
during manufacturing	21.24 kg
during operation	140.9 kg
after end of life	0.35 kg
further information / internet links	
internet link	
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to website: Industrial communication	https://www.siemens.com/simatic-net
to web page: SiePortal	https://sieportal.siemens.com/
to web page. Ster Ortal to website: Image database	https://www.automation.siemens.com/bilddb
to website: Maye database to website: CAx-Download-Manager	https://siemens.com/cax
to website: CAx-Download-Manager to website: Industry Online Support	https://support.industry.siemens.com
	mups.nsupport.inuustry.sicinidiis.com
security information	Signature provides products and solutions with industrial subsequently funding
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber

threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

For use in hazardous locations







China RoHS





IECEx

For use in hazardous locations

Environment



<u>FM</u>

CCC-Ex





last modified:

8/22/2025

