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Data sheet

transfor ra

6GK7542-6UX00-0XE0

product type designation



CP 1542SP-1

Communications processor CP 1542SP-1 for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet; open IE communication (TCP/IP, ISO-on-TCP, UDP), PG/OP, S7 routing, IP broadcast/multicast, SNMPV1, DHCP, Email, IPV4/IPV6, time-of-day synchronization via NTP, access to web server of CPU, bus adapter required.

transfer rate	
transfer rate	
at the 1st interface	10 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
at the 1st interface / according to Industrial Ethernet	2
type of electrical connection	
 at the 1st interface / according to Industrial Ethernet 	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	
 for vertical installation / during operation 	-30 +50 °C
 for horizontally arranged busbars / during operation 	-30 +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	
width	60 mm
height	117 mm
depth	74 mm
net weight	0.18 kg
fastening method	
35 mm DIN-rail mounting	Yes
product features, product functions, product components / gen	eral
number of units	
• per CPU / maximum	2
● note	2 CPs can be pluged in per CPU, simultaneous operation with BA Send and CM DP is possible
performance data / open communication	
number of possible connections / for open communication	
 by means of T blocks / maximum 	32

data valuesa	
data volume	05500 h. t.
 as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum 	65536 byte
performance data / S7 communication	
number of possible connections / for S7 communication	
maximum	16
with OP connections / maximum	16
performance data / multi-protocol mode	10
	20
number of active connections / with multi-protocol mode	32
product functions / management, configuration, engineering	Vec
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v3	No
• DCP	Yes
• LLDP	Yes
configuration software	
required	STEP 7 Professional V14 (TIA Portal) or higher
identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 - higher level designation/location designation 	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function / web-based diagnostics	Yes; via ET 200SP CPU
product functions / security	
product function	
 blocking of communication via physical ports 	Yes
product functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	No
protocol / is supported	
• NTP	Yes
• NTP (secure)	No
time synchronization	
• from NTP-server	Yes
standards, specifications, approvals	
reference code	
according to IEC 81346-2:2019	KEC
standards, specifications, approvals / Environmental Product D	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	207.05 kg
during manufacturing	19.13 kg
during operation	187.74 kg
after end of life	0.18 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 website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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

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Approvals / Certificates

General Product Approval

CE EG-Konf.	<u>Declaration of Con-</u> formity	UK CA		EHC	<u>China RoHS</u>
General Product Ap	proval	For use in hazardous	locations		
(UL) III	RCM	K ATEX	IECEx	EM	<u>CCC-Ex</u>
Environment					
EPD					

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