

Data sheet

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 %
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protection class IP

protection class IP	IP20
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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 / general

number of units	
• per CPU / maximum	2
• note	2 CPUs can be plugged 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 volume	• 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		
number of active connections / with multi-protocol mode	32	
product functions / management, configuration, engineering		
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 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 Declaration		
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		
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



General Product Approval

For use in hazardous locations

Environment



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[Confirmation](#)



last modified:

2/28/2025