SIEMENS

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.

product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6GK7542-6UX00-0XE0
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 / general	
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

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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 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	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	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 / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
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	

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● 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 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

Declaration of Conformity | China RoHS | Manufacturer Declaration

General Product Approval | For use in hazardous locations

China RoHS

For use in hazardous locations | Environment

FM | CCC-Ex

last modified: 3/10/2026

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