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Data sheet	6GK7542-6VX00-0XE0

Product type designation	CP 1542SP-1 IRC
	COMMUNICATION PROCESSOR

Transmission rate	
Transfer rate	
• at the 1st interface	10 ... 100 Mbit/s

Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	via ET200SP bus adaptor (RJ45, FC, LC, SCRJ), switch integrated

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]	2.64 W

Permitted ambient conditions	
Ambient temperature	

• for vertical installation / during operation	0 ... 50 °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 weight

Width	60 mm
Height	117 mm
Depth	74 mm
Net weight	0.18 kg
Mounting type	
• 35 mm DIN rail mounting	Yes

Product properties, functions, 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

Performance data / open communication

Number of possible connections / for open communication	
• by means of T blocks / maximum	32
Amount of data	
• 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

Performance data / telecontrol

Suitability for use	
• Node station	No
• substation	Yes
• TIM control center	No

Control center connection	IEC 60870-5, DNP3, (Modbus TCP using software components of the CPU) capable control stations and connection to Telecontrol Server Basic
• by means of a permanent connection	supported
• by means of demand-oriented connection	supported
• Note	Connection to SCADA system using IEC 60870-5 104, DNP3 and Telecontrol Server Basic
Protocol / is supported	
• TCP/IP	Yes
• DNP3	Yes
• IEC 60870-5	Yes
Product function / data buffering if connection is aborted	Yes
Number of data points per station / maximum	500
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 / Diagnosis

Product function / Web-based diagnostics	Yes; 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	Yes
Protocol / is supported	
• NTP	Yes
• NTP (secure)	No
time synchronization	
• from NTP-server	Yes
• from control center	Yes

Further Information / Internet Links

Internet-Link

- • to website: Selector SIMATIC NET SELECTION TOOL
- • to website: Industrial communication
- • to website: Industry Mall
- • to website: Information and Download Center
- • to website: Image database
- • to website: CAx Download Manager
- • to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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