

product type designation



CP 1542SP-1 IRC

Communications Processor CP 1542SP-1 IRC for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet, SINAUT ST7, TeleControl Server Basic, IEC 60870-5-104 or DNP3 protocol to a control center; Open IE communication (TCP/IP, ISO-on-TCP, UDP), IP broadcast/multicast, SNMPV1, DHCP, secure email, IPv4/IPv6, support of SINEMA Remote Connect with autoconfiguration; time-of-day synchronization via NTP, access to web server of CPU, BusAdapter required.

transfer rate	
transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet 	2
type of electrical connection	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> for vertical installation / during operation for horizontally arranged busbars / during operation during storage during transport 	-30 ... +50 °C -30 ... +60 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 35 mm top hat DIN rail mounting 	Yes
product features, product functions, product components / general	
number of units	
<ul style="list-style-type: none"> per CPU / maximum note 	2 2 CPs 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	
<ul style="list-style-type: none"> by means of T blocks / maximum 	32

data volume	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> maximum with OP connections / maximum 	16 16
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	32
performance data / IT functions	
number of possible connections	
<ul style="list-style-type: none"> as email client / maximum 	1
performance data / telecontrol	
suitability for use	
<ul style="list-style-type: none"> node station substation TIM control center 	No Yes No
control center connection	IEC 60870-5, DNP3, (Modbus TCP by block solutions of the CPU) capable control stations, connection to Telecontrol Server Basic and ST7 capable control station
<ul style="list-style-type: none"> by means of a permanent connection by means of demand-oriented connection note 	supported supported Connection to SCADA system by IEC 60870-5 104, DNP3, Telecontrol Server Basic and ST7 capable control center
protocol / is supported	
<ul style="list-style-type: none"> DNP3 IEC 60870-5 SINAUT ST7 protocol 	Yes Yes Yes
product function / data buffering if connection is aborted	Yes; TCSB 64000 events, SINAUT ST7 32000 telegrams, DNP3 100000 events, IEC 60870-5 100000 events
number of data points per station / maximum	1500
number of stations / for direct communication / with Telecontrol Server Basic	
<ul style="list-style-type: none"> in send direction / maximum in receive direction / maximum 	3 15
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> SNMP v1 SNMP v3 DCP LLDP 	Yes Yes Yes Yes
configuration software	
<ul style="list-style-type: none"> required 	STEP 7 Professional V14 (TIA Portal) or higher
identification & maintenance function	
<ul style="list-style-type: none"> I&M0 - device-specific information I&M1 - higher level designation/location designation 	Yes Yes
product functions / diagnostics	
product function / web-based diagnostics	Yes; via ET 200SP CPU
product functions / security	
product function / with VPN connection	SINEMA RC
product function	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> NTP NTP (secure) 	Yes No
time synchronization	
<ul style="list-style-type: none"> from NTP-server from control center 	Yes Yes

standards, specifications, approvals / hazardous environments

certificate of suitability / CCC / for hazardous zone according to GB standard

Yes

- as marking

Ex nA IIC T4 Gc

further information / internet links

internet link

- to web page: selection aid TIA 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/tia-selection-tool><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**

security information

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