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Data sheet

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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 e-Mail, IPV4/IPV6, support of SINEMA Remote Connect with autoconfiguration; time-of-day synchronization via NTP, access to web server of the CPU, bus adapter required

transfer 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 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 top hat 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
performance data / open communication	

number of possible connections / for open communication	20
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
performance data / IT functions	
number of possible connections	
• as email client / maximum	1
performance data / telecontrol	
suitability for use	
node station	No
 substation TIM control center 	Yes No
control center control center	
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
 by means of a permanent connection 	supported
 by means of demand-oriented connection 	supported
• note	Connection to SCADA system by IEC 60870-5 104, DNP3, Telecontrol Server Basic and ST7 capable control center
protocol / is supported	
• DNP3	Yes
• IEC 60870-5	Yes
 SINAUT ST7 protocol 	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	
 in send direction / maximum 	3
 in receive direction / maximum 	15
product functions / management, configuration, engineeri	ng
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v3	Yes
• 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 / with VPN connection	SINEMA RC
product function	
 blocking of communication via physical ports 	Yes
product functions / time	
product function / SICLOCK support	Yes
product function / sielect support	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 web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to website: Industrial communication 	http://www.siemens.com/simatic-net
 to website: Industry Mall 	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
 to website: Image database 	http://automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	http://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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