

Product type designation



CP 1243-8 IRC

CP 1243-8 IRC COMMUNICATIONS- PROCESSOR FOR USE OF SIMATIC S7-1200 IN SYSTEM TELECONTROL PROFESSIONAL; FOR SINAUT ST7; STATION TYPE: RTU; WAN INTERFACES: 1) ETHERNET, 2) EXPANDABLE IN ADDITION WITH TS MODULE RS232 OR TS MODULE MODEM OR TS MODULE GSM OR TS MODULE ISDN; BETRIEB MIT TIM-MODULES POSSIBLE.

Transmission rate

Transfer rate

- at the 1st interface 10 ... 100 Mbit/s
- at the 2nd interface 0.3 ... 115.2 kbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
• for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• at interface 2 / for external data transmission	Interface to the TS Module
• for power supply	3-pole terminal block

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	5 V
Supply voltage / external	24 V

Supply voltage / external	19.2 ... 28.8 V
Supply voltage / external / at DC / Rated value	24 V
Supply voltage / external / at DC / rated value	19.2 ... 28.8 V
Consumed current	
• from backplane bus / at DC / at 5 V / typical	0.25 A
• from external supply voltage / at DC / at 24 V / typical	0.1 A
Power loss [W] / Note	1.25 W from S7-1200 backplane without TS module. 2.4 W from 24 V DC external with TS module
Power loss [W]	2.4 W

Permitted ambient conditions

Ambient temperature	
• for vertical installation / during operation	-20 ... +60 °C
• for horizontally arranged busbars / during operation	-20 ... +70 °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

Module format	Compact module S7-1200 single width
Width	30 mm
Height	110 mm
Depth	75 mm
Net weight	0.122 kg
Mounting type	
• 35 mm DIN rail mounting	Yes
• S7-300 rail mounting	No
• wall mounting	Yes

Product properties, functions, components / general

Number of units	
• per CPU / maximum	1
• Note	One CP pluggable on left side of CPU, one TS Module pluggable left side of CP.

Performance data / open communication

Number of possible connections / for open communication	
• by means of T blocks / maximum	like CPU

Performance data / S7 communication

Number of possible connections / for S7 communication	
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• with PG connections / maximum	2
• with OP connections / maximum	1
• Note	Configured S7-Connection for ST7-Communication
Service	
• SINAUT ST7 via S7 communication	Yes

Performance data / IT functions

Number of possible connections	
• as e-mail client / maximum	1

Performance data / telecontrol

Suitability for use	
• Node station	No
• substation	Yes
• TIM control center	No
• Note	Ethernet and TS Module can be operated in parallel
Control center connection	control center with ST7 function
• by means of a permanent connection	supported
Protocol / is supported	
• SINAUT ST7 protocol	Yes
Product function / data buffering if connection is aborted	Yes; 16,000 data messages
Number of data points per station / maximum	200
Transmission format	
• for SINAUT ST7 protocol with multi-master polling / 10-bit	Yes
• for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit	Yes
Operating mode for scanning of data transmission	
• with dedicated line/radio link / with SINAUT ST7 protocol	Polling
• with dial-up network / with SINAUT ST7 protocol	spontaneous
Hamming distance	
• for SINAUT ST7 protocol	4

Performance data / Teleservice

Diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
Product function	
• program download with SIMATIC STEP 7	Yes
• Remote firmware update	Yes
Protocol / is supported	
• SNMP v3	Yes
• DCP	Yes

Configuration software	
• required • for PG configuring / required / SINAUT ST7 configuration software for PG	SINAUT ES V5.5 and STEP7 V13 SP1 or higher Yes
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / Security	
Firewall version	stateful inspection
Suitability for operation / Virtual Private Network	Yes
Product function / with VPN connection	IPSec
Type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
Type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
Type of hashing algorithms / with VPN connection	MD5, SHA-1
Number of possible connections / with VPN connection	8
Product function	
• password protection for teleservice access • encrypted data transmission • MSC client via GPRS modem with MSC capability	No Yes Yes
Protocol	
• is supported / MSC protocol • with Virtual Private Network MSC / is supported	Yes TCP/IP
Key length / for MSC / with Virtual Private Network	128 bit
Number of possible connections	
• as MSC client / with VPN connection • as MSC server / with VPN connection	1 0
Product functions / Time	
Protocol / is supported	
• NTP	Yes
time synchronization	
• from NTP-server • from control center	Yes Yes
Accessories	
accessories	TS Module RS232 or TS Module MODEM or TS Module ISDN or TS Module GSM pluggable
Further Information / Internet Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst

- 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/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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last modified:

10/28/2016