SIEMENS

Data sheet

6GK7243-8RX30-0XE0

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 /	0.1 A
typical	
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	

Permitted ambient conditions		
Ambient temperature		
 for vertical installation / during operation 	-20 +60 °C	
 for horizontally arranged busbars / during operation 	-20 +70 °C	
during storage	-4070 °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 / genera	
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	

 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	Yes; 16,000 data messages
aborted	
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

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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 	No
 encrypted data transmission 	Yes
 MSC client via GPRS modem with MSC 	Yes
capability	
Protocol	
is supported / MSC protocol	Yes
 with Virtual Private Network MSC / is supported 	TCP/IP
Key length / for MSC / with Virtual Private Network	128 bit
Number of possible connections	

1

Product functions / Time

Protocol / is supported	
• NTP	Yes

• as MSC client / with VPN connection

• as MSC server / with VPN connection

time synchronization

• from NTP-server Yes

• from control center 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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