

product type designation



CP 1243-8 IRC

Communications processor CP 1243-8 IRC for operating a SIMATIC S7-1200 in the TeleControl system Professional; for SINAUT ST7; DNP3; IEC60870-5, Station type: RTU; WAN connections: 1) Ethernet 2) Additionally expandable with TS module RS232 or TS module modem or TS module GSM or TS module ISDN; Operation with TIM modules possible

transfer rate	
transfer rate	
<ul style="list-style-type: none"> at the 1st interface at the 2nd interface 	10 ... 100 Mbit/s 0.3 ... 115.2 kbit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet for power supply 	1 1
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> at interface 2 / for external data transmission for power supply 	Interface to the TS Module 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	
<ul style="list-style-type: none"> from backplane bus / at DC / at 5 V / typical from external supply voltage / at DC / at 24 V / typical 	0.25 A 0.1 A
power loss [W]	2.4 W; 1.25 W from S7-1200 backplane without TS module. 2.4 W from 24 V DC external with TS module
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 	-20 ... +60 °C -20 ... +70 °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	
module format	Compact module S7-1200 single width
width	30 mm
height	110 mm
depth	75 mm
net weight	0.122 kg
fastening method	
• 35 mm top hat DIN rail mounting	Yes
• S7-300 rail mounting	No
• wall mounting	Yes
product features, product functions, product 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	
• maximum	Configured S7-Connection for ST7-Communication
• with PG connections / maximum	2
• with OP connections / maximum	1
service	
• SINAUT ST7 via S7 communication	Yes
performance data / IT functions	
number of possible connections	
• as email 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	
• by means of a permanent connection	control center with ST7 function supported
protocol / is supported	
• DNP3	Yes
• IEC 60870-5	Yes
• SINAUT ST7 protocol	Yes
product function / data buffering if connection is aborted	Yes; DNP3, IEC60870-5: 64000 events, SINAUT ST7: 16000 telegrams
number of data points per station / maximum	500
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

<ul style="list-style-type: none"> remote firmware update 	Yes
product functions / management, configuration, engineering	
protocol / is supported	
<ul style="list-style-type: none"> SNMP v3 DCP 	Yes Yes
configuration software	
<ul style="list-style-type: none"> required for PG configuring / required / SINAUT ST7 configuration software for PG 	SINAUT ES V5.5 and STEP7 V13 SP1 or higher Yes
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / security	
firewall version	stateful inspection
operating mode / Virtual Private Network (VPN)	Yes
product function / with VPN connection	IPsec, SINEMA RC
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	
<ul style="list-style-type: none"> password protection for teleservice access encrypted data transmission MSC client via GPRS modem with MSC capability 	No Yes Yes
protocol	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> as MSC client / with VPN connection as MSC server / with VPN connection 	1 0
product functions / time	
protocol / is supported	
<ul style="list-style-type: none"> NTP 	Yes
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
accessories	
accessories	TS Module RS232 or TS Module MODEM or TS Module ISDN or TS Module GSM pluggable
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> 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	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)

last modified:

1/24/2021 