

### 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; IEC 60870-5, 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"> <li>at the 1st interface</li> <li>at the 2nd interface</li> </ul>	10 ... 100 Mbit/s 0.3 ... 115.2 kbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> <li>for power supply</li> </ul>	1 1
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> </ul>	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> <li>at interface 2 / for external data transmission</li> <li>for power supply</li> </ul>	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"> <li>from backplane bus / at DC / at 5 V / typical</li> <li>from external supply voltage / at DC / at 24 V / typical</li> </ul>	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"> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-20 ... +60 °C -20 ... +70 °C -40 ... -70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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
<b>product features, product functions, product components / general</b>	
number of units	
• per CPU / maximum	1
• note	One CP pluggable on left side of CPU, one TS Module pluggable left side of CP.
<b>performance data / open communication</b>	
number of possible connections / for open communication	
• by means of T blocks / maximum	like CPU
<b>performance data / S7 communication</b>	
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
<b>performance data / IT functions</b>	
number of possible connections	
• as email client / maximum	1
<b>performance data / telecontrol</b>	
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 supported
• by means of a permanent connection	
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
<b>performance data / teleservice</b>	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function	
• program download with SIMATIC STEP 7	Yes
• remote firmware update	Yes
<b>product functions / management, configuration, engineering</b>	
protocol / is supported	
• SNMP v3	Yes

<ul style="list-style-type: none"> <li>• DCP</li> </ul>	Yes
configuration software	
<ul style="list-style-type: none"> <li>• required</li> <li>• for PG configuring / required / SINAUT ST7 configuration software for PG</li> </ul>	SINAUT ES V5.5 and STEP7 V13 SP1 or higher Yes
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / security</b>	
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"> <li>• password protection for teleservice access</li> <li>• encrypted data transmission</li> <li>• MSC client via GPRS modem with MSC capability</li> </ul>	No Yes Yes
protocol	
<ul style="list-style-type: none"> <li>• is supported / MSC protocol</li> <li>• with Virtual Private Network MSC / is supported</li> </ul>	Yes TCP/IP
key length / for MSC / with Virtual Private Network	128 bit
number of possible connections	
<ul style="list-style-type: none"> <li>• as MSC client / with VPN connection</li> <li>• as MSC server / with VPN connection</li> </ul>	1 0
<b>product functions / time</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
time synchronization	
<ul style="list-style-type: none"> <li>• from NTP-server</li> <li>• from control center</li> </ul>	Yes Yes
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
<b>accessories</b>	
accessories	TS Module RS232 or TS Module MODEM or TS Module ISDN or TS Module GSM pluggable
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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