

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 RS-232 or TS module modem or TS module GSM or TS module ISDN; Operation with TIM modules possible.

product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6GK7243-8RX30-0XE0
transfer rate	
transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
<ul style="list-style-type: none"> at the 2nd interface 	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"> at the 1st interface / according to Industrial Ethernet 	1
<ul style="list-style-type: none"> for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet 	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> at interface 2 / for external data transmission 	Interface to the TS Module
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> from backplane bus / at DC / at 5 V / typical 	0.25 A
<ul style="list-style-type: none"> from external supply voltage / at DC / at 24 V / typical 	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 	-20 ... +60 °C
<ul style="list-style-type: none"> for horizontally arranged busbars / during operation 	-20 ... +70 °C
<ul style="list-style-type: none"> during storage 	-40 ... -70 °C
<ul style="list-style-type: none"> during transport 	-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 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.
product functions / cloud connectivity	
protocol / is supported	
• Message Queuing Telemetry Transport (MQTT)	Yes
• Advanced Message Queuing Protocol (AMQP)	No
product function / for cloud connectivity	
• trigger management	Yes
• time stamping	Yes
product feature / for cloud connectivity / buffered message frame memory	No
number of active connections / for cloud connectivity	1
number of data points per device / maximum	500
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	control center with ST7 function
• by means of a permanent connection	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 device / 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

<ul style="list-style-type: none"> with dial-up network / with SINAUT ST7 protocol 	spontaneous
hamming distance <ul style="list-style-type: none"> for SINAUT ST7 protocol 	4
performance data / teleservice	
diagnostics function / online diagnostics with SIMATIC STEP 7	Yes
product function <ul style="list-style-type: none"> program download with SIMATIC STEP 7 remote firmware update 	Yes 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 function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
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	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq] <ul style="list-style-type: none"> total 	89.58 kg

- during manufacturing
- during operation
- after end of life

14.29 kg
75.11 kg
0.18 kg

further information / internet links

internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>
<https://www.siemens.com/tstcloud>
<https://www.siemens.com/simatic-net>
<https://sieportal.siemens.com/>
<https://www.automation.siemens.com/bilddb>
<https://siemens.com/cax>
<https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval

[China RoHS](#)

[Declaration of Conformity](#)



General Product Approval

EMV



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For use in hazardous locations

Environment



[CCC-Ex](#)



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