6ES7214-1HG40-0XB0

CPU 1214C, DC/DC/Relay, 14DI/10DO/2AI

Technical data



SIMATIC S7-1200, CPU 1214C, compact CPU, DC/DC/relay, onboard I/O: 14 DI 24 V DC; 10 DO relay 2 A; 2 AI 0-10 V DC, Power supply: DC 20.4-28.8V DC, Program/data memory 100 KB

CPU 1214C DC/DC/relay V4.4 STEP 7 V16 or higher Yes 20.4 V 28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²-s 1 600 mA; Max. 5 V DC for SM and CM
Yes 20.4 V 28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²·s
Yes 20.4 V 28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²·s
Yes 20.4 V 28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²·s
20.4 V 28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A ² ·s
20.4 V 28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²·s
20.4 V 28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A ² ·s
28.8 V Yes 24 V 20.4 V 28.8 V 500 mA 1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²·s
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1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²·s
1 500 mA; CPU with all expansion modules 12 A; at 28.8 V 0.8 A²·s
12 A; at 28.8 V 0.8 A ² ·s
0.8 A²·s
0.8 A ² ·s
1 600 mA; Max. 5 V DC for SM and CM
1 600 mA; Max. 5 V DC for SM and CM
L+ minus 4 V DC min.
E. Hilliad TV Bo Hill.
12 W
12 17
100 kbyte
No No
NO .
4 Mbyte
with SIMATIC memory card
with diwarte memory card
Yes
Yes
Yes
165
0.00 yaz / instruction
0.08 μs; / instruction 1.7 μs; / instruction
2.3 µs; / instruction
DDs FCs FDs sourters and times. The maintaining of the second states of
DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranger from 1 to 65535. There is no restriction, the entire working memory can be used
Limited only by RAM for code
10 kbyte
8 kbyte; Size of bit memory address area
16 kbyte

Process image	
• Inputs, adjustable	1 kbyte
Outputs, adjustable	1 kbyte
Hardware configuration	Those
Number of modules per system, max.	3 comm. modules, 1 signal board, 8 signal modules
Time of day	3 contini. modules, i signal board, o signal modules
Clock	
	Voo
Hardware clock (real-time) Realty time	Yes
Backup time	480 h; Typical
Digital inputs	
Number of digital inputs	14; Integrated
of which inputs usable for technological functions	6; HSC (High Speed Counting)
Source/sink input	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	14
Input voltage	
Rated value (DC)	24 V
• for signal "0"	5 V DC at 1 mA
• for signal "1"	15 V DC at 2.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
— at "0" to "1", min.	0.2 ms
— at "0" to "1", max.	12.8 ms
for interrupt inputs	
— parameterizable	Yes
for technological functions	
— parameterizable	Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz
Cable length	
• shielded, max.	500 m; 50 m for technological functions
• unshielded, max.	300 m; for technological functions: No
Digital outputs	
Number of digital outputs	10; Relays
Switching capacity of the outputs	Top reduce
with resistive load, max.	2 A
• on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	30 W WILL DC, 200 W WILL AC
• "0" to "1", max.	10 may may
	10 ms; max.
• "1" to "0", max.	10 ms; max.
Relay outputs	40
Number of relay outputs	10
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m
Analog inputs	
Number of analog inputs	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
0 to +10 V — Input resistance (0 to 10 V)	Yes ≥100k ohms
— Input resistance (0 to 10 V)	
— Input resistance (0 to 10 V)Cable length• shielded, max.	≥100k ohms
— Input resistance (0 to 10 V) Cable length ● shielded, max. Analog outputs	≥100k ohms 100 m; twisted and shielded
— Input resistance (0 to 10 V) Cable length ● shielded, max. Analog outputs Number of analog outputs	≥100k ohms
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs	≥100k ohms 100 m; twisted and shielded
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel	≥100k ohms 100 m; twisted and shielded 0
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max.	≥100k ohms 100 m; twisted and shielded 0 10 bit
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel)	≥100k ohms 100 m; twisted and shielded 0 10 bit
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated automatic detection of transmission rate	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes Yes Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated automatic detection of transmission rate Autonegotiation Autocrossing	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes Yes Yes Yes Yes Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes Yes Yes Yes Yes Yes Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet)	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes Yes Yes Yes Yes Yes Yes Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes Yes Yes Yes Yes Yes Yes Yes Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes Yes Yes Yes Yes Yes Yes Yes
— Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports	≥100k ohms 100 m; twisted and shielded 0 10 bit Yes 625 µs Yes Yes Yes Yes Yes Yes Yes Yes Yes

PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	No
PROFINET IO Controller	(AA NII W
Transmission rate, max.	100 Mbit/s
Services — PG/OP communication	Yes
— Isochronous mode	No
— IRT	No
— PROFlenergy	No
Prioritized startup	Yes
 Number of IO devices with prioritized startup, max. 	16
 Number of connectable IO Devices, max. 	16
 Number of connectable IO Devices for RT, max. 	16
— of which in line, max.	16
 Activation/deactivation of IO Devices 	Yes
Number of IO Devices that can be simultaneously activated deactivated, may	8
activated/deactivated, max. — Updating time	The minimum value of the update time also depends on the communication component set
— Opuating time	for PROFINET IO, on the number of IO devices and the quantity of configured user data.
PROFINET IO Device	
Services	
 PG/OP communication 	Yes
— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Shared device	Yes
Number of IO Controllers with shared device, max.	2
Protocols Supports protocol for PROFINET IO	Yes
Supports protocol for PROFINET IO PROFIBUS	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	100, OM 12-10 2 required
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode	
Media redundancy	
— MRP	No
— MRPD	No
SIMATIC communication • S7 routing	Yes
Open IE communication	100
• TCP/IP	Yes
— Data length, max.	8 kbyte
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	8 kbyte
• UDP	Yes
— Data length, max.	1 472 byte
Web server	
• supported	Yes
User-defined websites OPC UA	Yes
	Yes
 Runtime license required OPC UA Server 	Yes; Data access (read, write, subscribe), runtime license required
Number of sessions, max.	5
Number of accessible variables, max.	1 000
Number of subscriptions per session, max.	5
— Sampling interval, min.	100 ms
— Publishing interval, min.	200 ms
 Number of monitored items, max. 	500
 Number of server interfaces, max. 	2
Number of nodes for user-defined server interfaces, max.	1 000
Further protocols	
MODBUS	Yes
Communication functions	
S7 communication	Voc
supportedas server	Yes Yes
as server as client	Yes
User data per job, max.	See online help (S7 communication, user data size)
Number of connections	
• overall	8 connections for open user communication (active or passive): TSEND_C, TRCV_C,
	TCON, TDISCON, TSEND and TRCV, 8 CPU/CPU connections (Client or Server) for

	GET/PUT data, 6 connections for dynamic assignment to GET/PUT or open user communication
Test commissioning functions	
Status/control	
Status/control variable	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	
• Forcing	Yes
Diagnostic buffer	
• present	Yes
Traces	
Number of configurable Traces	2
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	V
• RUN/STOP LED	Yes
ERROR LED MAINT LED	Yes Yes
	tes
Integrated Functions	6
Number of counters Counting frequency (counter) max.	100 kHz
Frequency measurement	Yes
 	Yes
controlled positioning Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction interface	Up to 4 with SB 1222
PID controller	Yes
Number of alarm inputs	4
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	500V AC for 1 minute
between the channels, in groups of	1
Potential separation digital outputs	
Potential separation digital outputs	Relays
• between the channels	No
 between the channels, in groups of 	2
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static electricity acc. to	Yes
IEC 61000-4-2	
 Test voltage at air discharge 	8 kV
Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
 Interference immunity on supply lines acc. to IEC 61000-4-4 	Yes
• Interference immunity on signal cables acc. to IEC 61000-4-4	Yes
Interference immunity against voltage surge	
Interference immunity on supply lines acc. to IEC 61000-4-5	Yes
Interference immunity against conducted variable disturbance induced by h	
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes; Group 1
Limit class B, for use in residential areas	Yes; When appropriate measures are used to ensure compliance with the limits for Class B
,	according to EN 55011
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
Free fall • Fall height, max.	0.3 m; five times, in product package
Free fall • Fall height, max. Ambient temperature during operation	
Free fall • Fall height, max. Ambient temperature during operation • min.	-20 °C
Free fall • Fall height, max. Ambient temperature during operation	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at
Free fall • Fall height, max. Ambient temperature during operation • min. • max.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. Ambient temperature during storage/transportation	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. min. min. min.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. max. Ambient temperature during storage/transportation min. max.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. min. min. min. max. Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C
Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. max. Ambient temperature during storage/transportation min. max.	-20 °C 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C -40 °C 70 °C

Storage/transport, min.	660 hPa
Storage/transport, max.	1 080 hPa
Altitude during operation relating to sea level	
Installation altitude, min.	-1 000 m
 Installation altitude, max. 	2 000 m
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	
Vibration resistance during operation acc. to IEC 60068-2-6	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
 Operation, tested according to IEC 60068-2-6 	Yes
Shock testing	
• tested according to IEC 60068-2-27	Yes
Configuration	
Programming	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
Know-how protection	
User program protection/password protection	Yes
Copy protection	Yes
Block protection	Yes
Access protection	
 Protection level: Write protection 	Yes
 Protection level: Read/write protection 	Yes
 Protection level: Complete protection 	Yes
Cycle time monitoring	
adjustable	Yes
Dimensions	
Width	110 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	435 g
last modified:	2/5/2021

Last changes: 02/09/2021

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