SIEMENS

Data sheet

6ES7214-1HG40-0XB0

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



General information	
Product type designation	CPU 1214C DC/DC/relay
Firmware version	V4.2
Engineering with	
 Programming package 	STEP 7 V14 or higher
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Load voltage L+	
Rated value (DC)	24 V
 permissible range, lower limit (DC) 	20.4 V
 permissible range, upper limit (DC) 	28.8 V
Input current	
Current consumption (rated value)	500 mA; CPU only
Current consumption, max.	1 500 mA; CPU with all expansion modules

Inrush current, max.	12 A; at 28.8 V
l²t	0.8 A ² ·s
Output current	
for backplane bus (5 V DC), max.	1 600 mA; Max. 5 V DC for SM and CM
Encoder supply 24 V encoder supply	
• 24 V	L+ minus 4 V DC min.
• Z4 V	
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
• integrated	100 kbyte
• expandable	No
Load memory	
• integrated	4 Mbyte
 Plug-in (SIMATIC Memory Card), max. 	with SIMATIC memory card
Backup	
• present	Yes
maintenance-free	Yes
• without battery	Yes
CPU processing times	
for bit operations, typ.	0.08 μs; / instruction
for word operations, typ.	1.7 μs; / instruction
for floating point arithmetic, typ.	2.3 µs; / instruction
CPU-blocks	
Number of blocks (total)	DBs, FCs, FBs, counters and timers. The maximum number of
	addressable blocks ranges from 1 to 65535. There is no
	restriction, the entire working memory can be used
OB	Limited only by DAM for and
 Number, max. 	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags),	10 kbyte
max.	
Flag	
• Number, max.	8 kbyte; Size of bit memory address area
Local data	
 per priority class, max. 	16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB
Address area	
Process image	

 Inputs, adjustable 	1 kbyte
Outputs, adjustable	1 kbyte
Hardware configuration Number of modules per system, max.	2 comm modulos, 1 cignal board, 8 cignal modulos
Number of modules per system, max.	3 comm. modules, 1 signal board, 8 signal modules
Time of day	
Clock	
 Hardware clock (real-time) 	Yes
Backup time	480 h; Typical
 Deviation per day, max. 	±60 s/month at 25 °C
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	
 with resistive load, max. 	2 A
● on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	

	10
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Relay outputs	
 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
 Input resistance (0 to 10 V) 	≥100k ohms
Cable length	
• shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	10 bit
max.	
 Integration time, parameterizable 	Yes
Conversion time (per channel)	625 μs
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Physics	Ethernet
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
Number of ports	1
 integrated switch 	No
Protocols	
PROFINET IO Controller	Yes

PROFINET IO Device	Yes
 SIMATIC communication 	Yes
Open IE communication	Yes
Web server	Yes
Media redundancy	No
PROFINET IO Controller	
 Transmission rate, max. 	100 Mbit/s
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	No
— Prioritized startup	Yes
— Number of IO devices with prioritized	16
startup, max.	
— Number of connectable IO Devices, max.	16
 — Number of connectable IO Devices for RT, 	16
max.	
— of which in line, max.	16
 Activation/deactivation of IO Devices 	Yes
— Number of IO Devices that can be	8
simultaneously activated/deactivated, max.	
— Updating time	The minimum value of the update time also depends on the

communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data.

PROFINET IO Device

Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	Yes
— Shared device	Yes
— Number of IO Controllers with shared	2
device, max.	

Supports protocol for PROFINET IO Yes PROFIEUS Yes; CM 1243-5 required AS-Interface Yes; CM 1243-2 required Protocols (Ethernet) Yes; CM 1243-2 required • TCP/IP Yes; CM 1243-2 required • DHCP No • SIMIP Yes • DCP Yes • DCP Yes • LLDP Yes Open IE communication Yes • TCP/IP Yes - Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes - Data length, max. 8 kbyte • UDP Yes - Data length, max. 1472 byte Web server Yes • Supported Yes • Supported Yes • MODBUS Yes Communication Yes • Supported Yes • User data per job, max. Yes • User data per job, max. Yes • Overall 16; dynamically Test commissioning functions <t< th=""><th>Protocols</th><th></th></t<>	Protocols	
AS-Interface Yes; CM 1243-2 required Protocols (Ethernet) Yes • TCP/I/P Yes • DHCP No • SNMP Yes • DCP Yes • DCP Yes • DLDP Yes Open IE communication Yes • TCP/I/P Yes • Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes • Data length, max. 8 kbyte • UDP Yes • Data length, max. 1472 byte Web server Yes • User-defined websites Yes • User-defined websites Yes • Supported Yes • as client Yes • User data per job, max. See online help (S7 communication, user data size) Number of connections Yes • overall 16: dynamically Test commissioning functions Yes Status/control Yes · Variables Yes </td <td></td> <td>Yes</td>		Yes
Protocols (Ethernet) Yes • TCP/IP Yes • DHCP No • SIMMP Yes • DCP Yes • LLDP Yes • TCP/IP Yes • Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes • Data length, max. 8 kbyte • UDP Yes • Data length, max. 8 kbyte • UDP Yes • Data length, max. • UDP Yes • Data length, max. Yes • Data length, max. Yes • UDP Yes • Supported Yes • Supported Yes • Suported Yes • Suported <	PROFIBUS	Yes; CM 1243-5 required
• TCP/IPYes• DHCPNo• SIMMPYes• DCPYes• LLDPYesOpen IE communication•• TCP/IPYes- Data length, max.8 kbyte• ISO-on-TCP (RFC1006)Yes- Data length, max.8 kbyte• UDPYes- Data length, max.8 kbyte• UDPYes- Data length, max.8 kbyte• UDPYes- Data length, max.9 kbyte• UDPYes- SupportedYes• SupportedYes• MODBUSYesCommunicationYes• supportedYes• as clientYes• User data per job, max.See online help (S7 communication, user data size)Number of connectionsYes• overall16; dynamicallyTest commissioning functionsYesStatus/control variableYes• VariablesNesForcingYes	AS-Interface	Yes; CM 1243-2 required
DHCPNoSNMPYesDCPYesULDPYesOren IE communication• TCP/IPSkbyte- Data length, max.8 kbyte• ISO-on-TCP (RFC1006)Yes- Data length, max.8 kbyte• UDPYes- Data length, max.1472 byteWeb server• SupportedYes• USF-defined websitesYes• USO-defined websitesYes• WDBUSYes• Communication functionsYesS7 communicationYes• supportedYes• supportedYes• supportedYes• USO functionsYesS7 communicationYes• supportedYes• overallYes• overallYes• overallYes• VariablesYes• VariablesYes• VariablesYes• Control supportedYes• OverallYes• OverallYes• OverallYes• OverallYes• VariablesYes• VariablesYes• CountersYes• OverallYes• OverallYes<	Protocols (Ethernet)	
SNMPYesDCPYesULDPYesOpen IE communication• TCP/IPYes- Data length, max.8 kbyte• ISO-on-TCP (RFC1006)Yes- Data length, max.8 kbyte• UDPYes- Data length, max.1472 byteWeb server• SupportedYes• User-defined websitesYesPurther protocolsYes• SupportedYes• SupportedYes• SupportedYes• SupportedYes• User-defined websitesYes• SupportedYes• as scientYes• overall16; dynamicallyTest commissioning functionsYesStatus/control variableYes• VariablesYes• VariablesYes• CountersStatus/control variable	• TCP/IP	Yes
• DCPYes• LLDPYesOpen IE communicationYes• TCP/IPYes- Data length, max.8 kbyte• ISO-on-TCP (RFC1006)Yes- Data length, max.8 kbyte• UDPYes- Data length, max.8 kbyte• UDPYes- Data length, max.9 kbyte- Data length, max.1472 byteWeb serverYes• upportedYes• usportedYes• USP-defined websitesYesPurther protocolsYes• MODBUSYesCommunication functionsYesS7 communicationYes• usportedYes• usportedYes• usportedYes• overallYes• overall16; dynamicallyTest commissioning functionsYesStatus/control variableYes• VariablesYesForcingYes	• DHCP	No
• LDP Yes Open IE communication * • TCP/IP Yes - Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes - Data length, max. 8 kbyte • UDP Yes - Data length, max. 1472 byte Web server * • supported Yes • USer-defined websites Yes * USer-defined websites Yes * UOPBUS Yes • MODBUS Yes • MODBUS Yes • Supported Yes • User-defined websites Yes • USer-defined websites Yes • USP of the functions Yes • USP of the model Yes • use refined Yes • user data per job, max. See online help (S7 communication, user data size) Number of connections Yes • user adaption functions Status/control Status/control Yes • user adaption functions Yes Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os	• SNMP	Yes
Open IE communication • TCP/IP Yes - Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes - Data length, max. 8 kbyte • UDP Yes - Data length, max. 1472 byte Web server 1472 byte • UDP Yes - Data length, max. 1472 byte Web server 1472 byte • User-defined websites Yes • User-defined websites Yes • User-defined websites Yes Communication functions Yes S7 communication Yes • supported Yes • as server Yes • as client Yes • User data per job, max. See online help (S7 communication, user data size) Number of connections Input s/outputs, memory bits, DBs, distributed I/Os, timers, counters Status/control Yes • Variables Input s/outputs, memory bits, DBs, distributed I/Os, timers, counters	• DCP	Yes
• 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 Yes Further protocols Yes • MODBUS Yes Communication functions Yes S7 communication Yes • supported Yes • user refined websites Yes • MODBUS Yes Communication functions Yes S7 communication Yes • supported Yes • output Yes • data per job, max. See online help (S7 communication, user data size) Number of connections - • overall 16; dynamically Test commissioning functions Status/control Status/control Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	• LLDP	Yes
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• ISO-on-TCP (RFC1006) Yes - Data length, max. 8 kbyte • UDP Yes - Data length, max. 1472 byte Web server 1472 byte • supported Yes • User-defined websites Yes Further protocols Yes • MODBUS Yes Communication functions Yes S7 communication Yes • supported Yes • supported Yes outserver Yes Outserver Yes Status/control See online help (S7 communication, user data size) Number of connections See online help (S7 communication, user data size) Number of connections See online help (S7 communication, user data size) Number of connections See online help (S7 communication, user data size) Number of connections Status/control • overall 16; dynamically Test commissioning functions Yes Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	• TCP/IP	Yes
Data length, max.8 kbyte Data length, max.8 kbyte Data length, max.1472 byteWeb server1472 byte• supportedYes• User-defined websitesYesFurther protocolsYes• MODBUSYesCommunication functionsYes\$7 communicationYes• supportedYes• as serverYes• as clientYes• User data per job, max.See online help (\$7 communication, user data size)Number of connections16; dynamicallyTest commissioning functionsYesStatus/controlYes• Status/control variableYes• VariablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	— Data length, max.	8 kbyte
• UDPYes Data length, max.1 472 byteWeb server1 472 byte• supportedYes• User-defined websitesYesFurther protocolsYes• MODBUSYesCommunication functionsYes\$7 communicationYes• supportedYes• as serverYes• as clientYes• User data per job, max.See online help (\$7 communication, user data size)Number of connections16; dynamicallyTest commissioning functionsYesStatus/controlYes• VariablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	 ISO-on-TCP (RFC1006) 	Yes
Data length, max.1 472 byteWeb server	— Data length, max.	8 kbyte
Web server • supported Yes • User-defined websites Yes Further protocols Yes • MODBUS Yes Communication functions Yes S7 communication Yes • supported Yes • as server Yes • as client Yes • User data per job, max. See online help (S7 communication, user data size) Number of connections See online help (S7 communication, user data size) Number of connections 16; dynamically Test commissioning functions Status/control • Status/control Yes • Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	• UDP	Yes
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	Web server	
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• supportedYes• as serverYes• as clientYes• User data per job, max.See online help (S7 communication, user data size)Number of connectionsSee online help (S7 communication, user data size)• overall16; dynamicallyTest commissioning functionsStatus/controlYes• Status/control variableYes• VariablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, countersForcing	Communication functions	
• as serverYes• as clientYes• User data per job, max.See online help (S7 communication, user data size)Number of connections16; dynamically• overall16; dynamicallyTest commissioning functionsStatus/control• Status/controlYes• Status/control variableYes• VariablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, countersForcing	S7 communication	
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• User data per job, max. See online help (S7 communication, user data size) Number of connections 16; dynamically • overall 16; dynamically Test commissioning functions Status/control Yes • Status/control variable Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Forcing	• as server	Yes
Number of connections 16; dynamically • overall 16; dynamically Test commissioning functions Status/control • Status/control Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Forcing	• as client	Yes
• overall 16; dynamically Test commissioning functions Status/control • Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Forcing	 User data per job, max. 	See online help (S7 communication, user data size)
Test commissioning functions Status/control • Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Forcing	Number of connections	
Status/control • Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Forcing	• overall	16; dynamically
Status/control variable Yes Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing	Test commissioning functions	
Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing	Status/control	
Forcing	Status/control variable	Yes
	Variables	
	Forcing	
• Forcing Yes	• Forcing	Yes
Diagnostic buffer	Diagnostic buffer	
• present Yes	• present	Yes
Traces	Traces	
Number of configurable Traces 2	 Number of configurable Traces 	2

 Memory size per trace, max. 	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Integrated Functions	
Number of counters	6
Counting frequency (counter) max.	100 kHz
Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction	Up to 4 with SB 1222
interface	
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 electric	city
 Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 	Yes
— 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	
 on the supply lines acc. to IEC 61000-4-5 	Yes
Interference immunity against conducted variable disturbance induced by high-frequency fields	
 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
- Limit class B, for use in residential areas

Yes; Group 1

Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011

Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
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	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C
• max.	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
 horizontal installation, min. 	-20 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-20 °C
 vertical installation, max. 	50 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
● max.	70 °C
Air pressure acc. to IEC 60068-2-13	
Operation, min.	795 hPa
 Operation, max. 	1 080 hPa
 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; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Pollutant concentrations	
 SO2 at RH < 60% without condensation 	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
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:	01/17/2019