SIEMENS

Data sheet

6ES7214-1HH50-0XB0



SIMATIC S7-1200 G2: compact CPU 1214C DC/DC/RLY; power supply: DC 20.4-28.8 V DC; onboard I/O: 14x DI 24 V DC; 10 DO relay 2 A; memory: program 250 KB data: 750 KB, retentivity: 20 KB

Figure similar

General information	
Product type designation	CPU 1214C DC/DC/Relay
Firmware version	V1.0
FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
SysLog	Yes
Engineering with	
Programming package	STEP 7 V20 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
Input current	
Current consumption (rated value)	245 mA; CPU only
Current consumption, max.	1 100 mA; CPU with all expansion modules
Inrush current, max.	12 A; at 28.8 V DC
l²t	0.5 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	Yes; L+ minus 4 V DC min.
 Short-circuit protection 	Yes
 Output current, max. 	400 mA
Power loss	
Power loss, typ.	3.5 W
Memory	
Work memory	
• integrated	1 000 kbyte
• integrated (for program)	250 kbyte
integrated (for data)	750 kbyte
Load memory	
• integrated	8 Mbyte
 Plug-in (SIMATIC Memory Card), max. 	32 Gbyte; with SIMATIC memory card
Backup	
• present	Yes

maintenance-free	Yes
without battery	Yes
CPU processing times	
for bit operations, typ.	37 ns; / instruction
for word operations, typ.	30 ns; / instruction
for floating point arithmetic, typ.	74 ns; / instruction
CPU-blocks	Time, Time detection
Number of elements (total)	4 000; Blocks (OB, FB, FC, DB) and UDTs
OB	4 000, Blooks (OB, 1 B, 1 O, BB) and OB 10
Number of free cycle OBs	100
Number of time alarm OBs	20
Number of delay alarm OBs	20
Number of cyclic interrupt OBs	20; with minimum OB 3x cycle of 1 ms
Number of process alarm OBs	50
Number of DPV1 alarm OBs	3
Number of isochronous mode OBs	1
Number of startup OBs	100
Number of asynchronous error OBs	4
Number of asynchronous error OBs	2
Number of diagnostic alarm OBs	1
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	20 kbyte
Flag	,
• Size, max.	8 kbyte; Size of bit memory address area
Local data	,
per priority class, max.	64 kbyte; max. 16 KB per block
Address area	() () () () () () () () () ()
Process image	
Inputs, adjustable	1 kbyte
Outputs, adjustable	1 kbyte
Hardware configuration	
	40
INTIMOEL OF MOOTHES DEL SYSTEM MAX	10
Number of modules per system, max. Time of day	10
Time of day	10
Time of day Clock	
Clock • Hardware clock (real-time)	Yes
Time of day Clock • Hardware clock (real-time) • Backup time	Yes 480 h; Typical
Time of day Clock Hardware clock (real-time) Backup time Deviation per day, max.	Yes
Time of day Clock Hardware clock (real-time) Backup time Deviation per day, max. Digital inputs	Yes 480 h; Typical 2 s; at 25 °C
Time of day Clock	Yes 480 h; Typical 2 s; at 25 °C 14; Integrated
Time of day Clock Hardware clock (real-time) Backup time Deviation per day, max. Digital inputs Number of digital inputs of which inputs usable for technological functions	Yes 480 h; Typical 2 s; at 25 °C 14; Integrated 8; HSC (High Speed Counting)
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unshielded, max.	300 m; for technological functions: No
Digital outputs	ooo iii, ioi teeliinoogica taheaoris. No
Number of digital outputs	10; Relays
Switching capacity of the outputs	10, Ixelays
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 WILLI DO, 200 W WILLI AO
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Switching frequency	To me, mean
of the pulse outputs, with resistive load, max.	Not recommended
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	0
Analog outputs	
Number of analog outputs	0
Encoder	
Connectable encoders	
2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autorossing	Yes
Interface types	165
**	Yes
RJ 45 (Ethernet) Number of ports	2
Number of ports integrated quiteb	
• integrated switch	Yes
Protocols	Voca IDv4
IP protocol PROFINITIO Controller	Yes; IPv4
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	Yes
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
— Isochronous mode	Yes
— IRT	Yes
— PROFlenergy	Yes; per user program
— Prioritized startup	Yes
 Number of IO devices with prioritized startup, max. 	16
 Number of connectable IO Devices, max. 	31
 Of which IO devices with IRT, max. 	31
 Number of connectable IO Devices for RT, max. 	31
— of which in line, max.	31
 Activation/deactivation of IO Devices 	Yes
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
— 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.

Update time for IRT	
— for send cycle of 1 ms	1 ms to 16 ms
— for send cycle of 2 ms	2 ms to 32 ms
— for send cycle of 4 ms	4 ms to 64 ms
Update time for RT	
— for send cycle of 1 ms	1 ms to 512 ms
— for send cycle of 2 ms	2 ms to 512 ms
— for send cycle of 4 ms	4 ms to 512 ms
PROFINET IO Device	
Services	
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes; per user program
Shared device	Yes
 Number of IO Controllers with shared device, max. 	2
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	No
OPC UA	No
AS-Interface	No
	IVO
Protocols (Ethernet) • TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Number of connections	
Number of connections, max.	128; via integrated interfaces of the CPU and connected CPs / CMs
 Number of connections reserved for ES/HMI/web 	10
Number of connections via integrated interfaces	88
Redundancy mode	
Media redundancy	
— MRP	Yes; as MRP redundancy manager and/or MRP client
— MRPD	Yes
SIMATIC communication	
S7 routing	No
 S7 communication, as server 	Yes
S7 communication, as client	Yes
Open IE communication	
• TCP/IP	Yes
— Data length, max.	8 kbyte
 several passive connections per port, supported 	Yes
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	8 kbyte
• UDP	Yes
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast
— Data tengtil, max.	
Data length, max. DHCP	Yes
	Yes Yes
• DHCP	
DHCP DNS	Yes
DHCPDNSSNMP	Yes Yes
DHCPDNSSNMPDCPLLDP	Yes Yes Yes Yes
 DHCP DNS SNMP DCP LLDP Encryption 	Yes Yes Yes
 DHCP DNS SNMP DCP LLDP Encryption Web server	Yes Yes Yes Yes Yes Yes; Optional
 DHCP DNS SNMP DCP LLDP Encryption Web server supported 	Yes Yes Yes Yes Yes; Optional
 DHCP DNS SNMP DCP LLDP Encryption Web server supported HTTPS 	Yes Yes Yes Yes Yes Yes Yes; Optional Yes Yes
 DHCP DNS SNMP DCP LLDP Encryption Web server supported HTTPS web API 	Yes Yes Yes Yes Yes; Optional Yes Yes Yes
 DHCP DNS SNMP DCP LLDP Encryption Web server supported HTTPS web API Number of sessions, max. 	Yes Yes Yes Yes Yes; Optional Yes Yes Yes Yes Yes
 DHCP DNS SNMP DCP LLDP Encryption Web server supported HTTPS web API 	Yes Yes Yes Yes Yes; Optional Yes Yes Yes

• MODBUS	Yes
• MODBOS communication functions / header	100
S7 communication	
supported	Yes
as server	Yes
as server as client	Yes
User data per job, max.	See online help (S7 communication, user data size)
Number of connections	טבע ביווווים ווכוף (ביר בטוווויומוויום מוטוויו, עשבו עמנמ שובל)
overall	PG Connections: 4 reserved; HMI Connections: 4 reserved / 82 max; S7
- overall	Connections: 78 max; Open User Connections: 78 max; Web Connections: 2
07	reserved / 80 max; Total Connections: 10 reserved / 88 max
S7 message functions	20
Number of login stations for message functions, max.	32
Program alarms	Yes
Number of configurable program messages, max.	5 000
Number of loadable program messages in RUN, max.	2 500
Test commissioning functions	
Status/control Status/control variable	Ven
	Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Variables Forcing	inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
• Forcing	Yes
Diagnostic buffer	100
• present	Yes
Traces	
Number of configurable Traces	4
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
• MAINT LED	Yes
Supported technology objects	
Motion Control	Yes
Number of available Motion Control resources for	800
technology objects	
Number of available Extended Motion Control resources for technology objects.	40
for technology objects Integrated Functions	
Counter	Yes
Number of counters	Yes 8
	8 100 kHz; Ia.0 to Ia.5: 100 kHz (80 kHz in quadrature mode), Ia.6 to Ib.5: 30 kHz
Counting frequency, max.	(20 kHz in quadrature mode)
Frequency measurement	Yes
PID controller	Yes
Number of pulse outputs	8; individually assigned to CPU and Signal Board
Limit frequency (pulse)	100 kHz
Potential separation	
Potential separation digital inputs	
 Potential separation digital inputs 	Yes; field side to logic: 707 V DC (type test)
 between the channels 	No
Number of potential groups	1
Potential separation digital outputs	
 Potential separation digital outputs 	Relays
 between the channels 	No
Number of potential groups	1
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static cleatricity against IEC 61000 4.2	Yes
electricity acc. to IEC 61000-4-2	9 kV
Test voltage at contact discharge	8 kV
 Test voltage at contact discharge 	6 kV

Interference immunity to cable-borne interference	Von
 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 indu	ced 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	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
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	No
Marine approval	No
product functions / security / header	NO
	V
signed firmware update	Yes
Secure Boot	Yes
safely removing data	No
Ambient conditions	
Free fall	
Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C; No condensation
max.	40 °C; 40 °C horizontal or 30 °C vertical at max. voltages and max. specifications
 horizontal installation, min. 	-20 °C; No condensation
 horizontal installation, max. 	60 °C; at rated voltages, 50 % of max. specification and alternate IO active
 vertical installation, min. 	-20 °C; No condensation
vertical installation, max.	50 °C; at rated voltages, 50 % of max. specification and alternate IO active
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
Operation, min.	540 hPa
Operation, max.	1 140 hPa
• Storage/transport, min.	540 hPa
Storage/transport, max.	1 140 hPa
Altitude during operation relating to sea level	
Installation altitude, min.	-1 000 m
• Installation altitude, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	
Vibration resistance during operation acc. to IEC 60068- 2-6	3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz
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
-	
• tested according to IEC 60068-2-27	

configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
Know-how protection	
 User program protection/password protection 	Yes
Access protection	
 protection of confidential configuration data 	Yes
 Protection level: Write protection 	Yes
 Protection level: Read/write protection 	Yes
 Protection level: Complete protection 	Yes
 User administration 	Yes; device-wide
 Number of users 	100
 Number of groups 	100
Number of roles	50
programming / cycle time monitoring / header	
adjustable	Yes
Dimensions	
Width	80 mm
Height	125 mm
Depth	100 mm
Weights	
Weight, approx.	376 g

last modified:

1/22/2025