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	
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unshielded, max.	300 m; for technological functions: No		
Digital outputs	300 m, for teamological functions. 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 DROSINIST IO 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		
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		
• DHCP	Yes		
• DNS	Yes		
• SNMP	Yes		
• DCP	Yes		
• LLDP	Yes		
• Encryption	Yes; Optional		
Web server			
• supported	Yes		
• HTTPS	Yes		
• web API	Yes		
Number of sessions, max.			
	30		
 User-defined websites 	30 Yes		

MODBUS	Yes		
communication functions / header	165		
S7 communication			
• 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 Offine help (S7 Confinitionication, user data size)		
overall	PG Connections: 4 reserved; HMI Connections: 4 reserved / 82 max; S7		
• Overall	Connections: 78 max; Open User Connections: 78 max; Web Connections: 2		
	reserved / 80 max; Total Connections: 10 reserved / 88 max		
S7 message functions			
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	Yes		
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters		
Forcing			
Forcing	Yes		
Diagnostic buffer			
• 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		
Integrated Functions			
Counter	Yes		
Number of counters	8		
Counting frequency, max.	100 kHz; Ia.0 to Ia.5: 100 kHz (80 kHz in quadrature mode), Ia.6 to Ib.5: 30 kHz		
- Counting inequality, 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	Yes		
electricity acc. to IEC 61000-4-2	100		
Test voltage at air discharge	8 kV		
Test voltage at contact discharge	6 kV		
- v			

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 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 areasLimit class B, for use in residential areas	Yes; Group 1 Yes; When appropriate measures are used to ensure compliance with the limits
Danier and along of motorities	for Class B according to EN 55011
Degree and class of protection	IDOS
IP degree of protection	IP20
Standards, approvals, certificates	V
CE mark	Yes
UL approval	Yes
cULus EM approval	Yes
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	No
Marine approval	No
product functions / security / header	
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
Pollutant concentrations	
SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm: RH < 60% condensation-free
SO2 at RH < 60% without condensation configuration / header	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free

Programming language				
— LAD	Yes			
— FBD	Yes			
— SCL	Yes			
(now-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			
imensions				
Width	80 mm			
Height	125 mm			
Depth	100 mm		_	
eights	070			
Weight, approx.	376 g	_	_	
lassifications			A. 15 4	
		Version	Classification	
	eClass	14	27-24-22-07	
	eClass	12	27-24-22-07	
	eClass	9.1	27-24-22-07	
	eClass	9	27-24-22-07	
	eClass	8	27-24-22-07	
			27-24-22-07	
	eClass	7.1		
	eClass	6	27-24-22-07	
			EC000236	
	ETIM	9	EC000236	
	ETIM ETIM	9 8	EC000236	
	ETIM	8 7	EC000236 EC000236	
	ETIM ETIM IDEA	8 7 4	EC000236 EC000236 3565	
	ETIM ETIM	8 7	EC000236 EC000236	
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EG-Konf.





For use in hazardous locations

Environment

Industrial Communication





CCC-Ex



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1/22/2025

