SIEMENS

Data sheet

6ES7214-1BH50-0XB0





SIMATIC S7-1200 G2: compact CPU 1214C AC/DC/RLY; power supply: AC 85-264 V AC at 47-63 Hz; onboard I/O: 14x DI 24 V DC; 10 DO relay 2 A; memory: program 250 KB data: 750 KB, retentivity: 20 KB



General information	
Product type designation	CPU 1214C AC/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 (AC)	
• 120 V AC	Yes
• 230 V AC	Yes
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
Line frequency	
 permissible range, lower limit 	47 Hz
 permissible range, upper limit 	63 Hz
Input current	
Current consumption (rated value)	80 mA at 120 V AC; 44 mA at 240 V AC
Current consumption, max.	480 mA at 120 V AC; 275 mA at 240 V AC
Inrush current, max.	20 A; at 264 V
I²t	0.8 A²-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; 20.4 to 28.8V
 Short-circuit protection 	Yes
 Output current, max. 	400 mA
Power loss	
Power loss, typ.	4 W
Memory	
Work memory	
• integrated	1 000 kbyte
• integrated (for program)	250 kbyte
integrated (for data)	750 kbyte

Load memory	ANI I			
• 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				
Number of elements (total)	4 000; Blocks (OB, FB, FC, DB) and UDTs			
ОВ				
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 synchronous error OBs	2			
Number of diagnostic alarm OBs	1			
Data areas and their retentivity				
Retentive data area (incl. timers, counters, flags), max.	20 khyta			
	20 kbyte			
• Size, max.	8 kbyte; Size of bit memory address area			
Local data	o kbyte, size of bit memory address area			
	64 khyte; may 16 KD per block			
per priority class, max. Address area	64 kbyte; max. 16 KB per block			
Process image				
 Inputs, adjustable 				
	1 kbyte			
Outputs, adjustable	1 kbyte 1 kbyte			
Outputs, adjustable Hardware configuration	1 kbyte			
Outputs, adjustable Hardware configuration Number of modules per system, max.				
Outputs, adjustable Hardware configuration	1 kbyte			
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Outputs, adjustable Hardware configuration Number of modules per system, max. Time of day	1 kbyte			
Outputs, adjustable Hardware configuration Number of modules per system, max. Time of day Clock	1 kbyte 10			
Outputs, adjustable Hardware configuration Number of modules per system, max. Time of day Clock Hardware clock (real-time)	1 kbyte 10 Yes			
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Outputs, adjustable Hardware configuration Number of modules per system, max. 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 Source/sink input Number of simultaneously controllable inputs all mounting positions	1 kbyte 10 Yes 480 h; Typical 2 s; at 25 °C 14; Integrated 8; HSC (High Speed Counting) Yes			
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Outputs, adjustable Hardware configuration Number of modules per system, max. 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 Source/sink input Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage)	1 kbyte 10 Yes 480 h; Typical 2 s; at 25 °C 14; Integrated 8; HSC (High Speed Counting) Yes 14 24 V 5 V DC or 0.5 mA			
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for technological functions	simple whose CLICOs @ 400 HJ- C O -tdd @ 60 HJ		
— parameterizable	single phase: 6 HSCs @ 100 kHz & 2 standard @ 30 kHz, quadrature phase: 6 HSCs @ 80 kHz & 2 standard @ 20 kHz		
Cable length	11000 @ 00 M		
shielded, max.	500 m; 50 m for technological functions		
• unshielded. max.	300 m; for technological functions: No		
Digital outputs	oco III, lei teelinological lanctone. No		
Number of digital outputs	10; Relays		
Switching capacity of the outputs	TO, Notays		
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 DO, 200 W WILL AC		
• "0" to "1", max.	10 ms; max.		
• "1" to "0", max.	10 ms; max.		
Switching frequency	10 III5, IIIax.		
of the pulse outputs, with resistive load, max.	Not recommended		
	Not recommended		
Relay outputs	10		
Number of counting evoles, may	10		
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000		
Cable length	500		
• 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		
Autocrossing	Yes		
Interface types			
• RJ 45 (Ethernet)	Yes		
Number of ports	2		
integrated switch	Yes		
Protocols			
IP protocol	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	TOO INDIEG		
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected		
Isochronous mode	Yes		
— isochronous mode — 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)	NO			
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			

4.48			
• web API	Yes		
— Number of sessions, max.	30		
User-defined websites	Yes		
Further protocols			
• MODBUS	Yes		
communication functions / header			
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			
overall	PG Connections: 4 reserved; HMI Connections: 4 reserved / 82 max; S7 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 technology objects 	800		
 Number of available Extended Motion Control resources for technology objects 	40		
Integrated Functions			
Counter	Voc		
Number of counters	Yes 8		
Number of countersCounting frequency, max.	8 100 kHz; Ia.0 to Ia.5: 100 kHz (80 kHz in quadrature mode), Ia.6 to Ib.5: 30 kHz (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 • Potential separation digital inputs	Yes; field side to logic: 707 V DC (type test)		
·	Yes; field side to logic: 707 V DC (type test) No		
Potential separation digital inputsbetween the channels			
Potential separation digital inputsbetween the channelsNumber of potential groups	No		
 Potential separation digital inputs between the channels Number of potential groups Potential separation digital outputs	No 1		
 Potential separation digital inputs between the channels Number of potential groups Potential separation digital outputs Potential separation digital outputs 	No 1 Relays		
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 Potential separation digital inputs between the channels Number of potential groups Potential separation digital outputs Potential separation digital outputs between the channels 	No 1 Relays No		

Interference immunity against discharge of static	Yes			
electricity acc. to IEC 61000-4-2	8 kV			
— Test voltage at air discharge				
Test voltage at contact discharge Interference immunity to cable-borne interference	6 kV			
Interference immunity to cable-bothe interference Interference immunity on supply lines acc. to IEC 61000-	Yes			
4-4	165			
 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				
Siemens Eco Profile (SEP)	Siemens EcoTech			
CE mark	Yes			
UL approval	Yes			
cULus	Yes			
FM approval	No			
RCM (formerly C-TICK)	Yes			
KC approval	No			
Marine approval	No			
Ecological footprint				
 environmental product declaration 	Yes; type 2 acc. to ISO 14021			
Global warming potential				
— global warming potential, (total) [CO2 eq]	68 kg			
 global warming potential, (during production) [CO2 	14.4 kg			
eq] — global warming potential, (during operation) [CO2	54.2 kg			
eq] — global warming potential, (after end of life cycle)	-0.72 kg			
[CO2 eq]				
product functions / security / header	V			
signed firmware update	Yes			
Secure Boot	Yes			
safely removing data	No			
Ambient conditions				
Free fall	0.2 m. five himse in modulator—li-			
Fall height, max. Analysis of the report was divined an acciding.	0.3 m; five times, in product package			
Ambient temperature during operation	20 °C; No condensation			
• 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	40.00			
• min.	-40 °C			
• max.	70 °C			
Air pressure acc. to IEC 60068-2-13	F40 bDa			
Operation, min.	540 hPa			
Operation, max. Otherwise Management and a series.	1 140 hPa			
 Storage/transport, min. 	540 hPa			
 Storage/transport, max. 	1 140 hPa			

ltitude during operation relating to sea level				
 Installation altitude, min. 	-1 000 m			
Installation altitude, max.	5 000 m; Restrictions for insta	llation altitudes > 2 000 r	n, 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 pp	om; RH < 60% condensa	tion-free	
onfiguration / header				
configuration / programming / header				
Programming language	Vee			
— LAD — FBD	Yes Yes			
— SCT	Yes			
Know-how protection	1 CS			
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			
Veights				
Weight, approx.	417 g			
Classifications				
		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	
	eClass	7.1	27-24-22-07	
	eClass	6	27-24-22-07	
	ETIM	9	EC000236	
	ETIM	8	EC000236	
	ETIM	7	EC000236	
	IDEA	4	3565	
	UNSPSC	15	32-15-17-05	
	UNOFOC	10	32-13-17-05	
pprovals / Certificates General Product Approval			EMV	





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For use in hazardous locations

Environment

Industrial Communication







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