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		
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	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		
• 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 kbyte	
Flag	20 kbyte	
• Size, max.	8 kbyte; Size of bit memory address area	
Local data	o kbyte, size of bit memory address area	
• per priority class, max.	64 kbyte; max. 16 KB per block	
Address area	04 kbyte, max. To kb per block	
Process image	4 librato	
 Inputs, adjustable 	1 kbyte	
O. da. da. a di . a da la la	A I.I. J.	
Outputs, adjustable	1 kbyte	
Hardware configuration		
Hardware configuration Number of modules per system, max.	1 kbyte 10	
Hardware configuration		
Hardware configuration Number of modules per system, max. Time of day Clock	10	
Hardware configuration Number of modules per system, max. Time of day Clock • Hardware clock (real-time)	10 Yes	
Hardware configuration Number of modules per system, max. Time of day Clock • Hardware clock (real-time) • Backup time	Yes 480 h; Typical	
Hardware configuration Number of modules per system, max. Time of day Clock Hardware clock (real-time) Backup time Deviation per day, max.	10 Yes	
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for technological functions	
for technological functions	single phases 6 USCs @ 100 kHz & 2 standard @ 20 kHz, guadratura phases 6
— parameterizable	single phase: 6 HSCs @ 100 kHz & 2 standard @ 30 kHz, quadrature phase: 6 HSCs @ 80 kHz & 2 standard @ 20 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	10, Notajo
with resistive load, max.	2 A
on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	00 17 William 20, 200 17 William 7.0
• "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	40
Number of energing evelop may	10
Number of operating cycles, max. Cable leasth	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	103
	Vac: IDv/
IP protocol PROFINET IO Controllor	Yes; IPv4
PROFINET IO Controller PROFINET IO Povice	Yes
PROFINET IO Device SIMATIC communication	Yes
SIMATIC communication	Yes Octionally also are a red
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)	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	V.	
• supported	Yes	
• HTTPS	Yes	

• 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	
Number of simultaneously active program alarms		
Number of program alarms	600	
Number of alarms for system diagnostics	100	
Number of alarms for motion technology objects	160	
Test commissioning functions		
Status/control		
Status/control variable	Yes	
 Variables 	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	
Forcing	p	
• 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		
Required Motion Control resources		
— per speed-controlled axis	40	
— per positioning axis	80	
— per synchronous axis	160	
— per external encoder	80	
— per output cam	20	
— per cam track	160	
— per probe	40	
 Number of available Extended Motion Control resources for technology objects 	40	
 Required Extended Motion Control resources 		
per cam (1 000 points and 50 segments)	2; 1000 points and 1 segment	
— for each set of kinematics	30	
 kinematics functions 		
- kinematics with up to 4 interpolating axes	Yes	
 kinematics with 5 or more interpolating axes 	No	
— user-defined kinematics	No	
— SIMATIC Safe Kinematics	No	

Positioning axis	
 Number of positioning axes at motion control cycle of 4 ms (typical value) 	10
 Number of positioning axes at motion control cycle of 8 ms (typical value) 	10
Integrated Functions	
Counter	Yes
 Number of counters 	8
Counting frequency, max.	100 kHz; la.0 to la.5: 100 kHz (80 kHz in quadrature mode), la.6 to lb.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 	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	
 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 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 eq]	14.4 kg
 global warming potential, (during operation) [CO2 eq] 	54.2 kg
 global warming potential, (after end of life cycle) 	-0.723 kg
	-

[CO2 eq]	
product functions / security / header	
signed firmware update	Yes
Secure Boot	Yes
safely removing data	No
Ambient conditions	THE STATE OF THE S
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	c.c III, IIVo tillioo, III product pushage
• 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
configuration / header	
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.	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

Approvals / Certificates

General Product Approval





<u>KC</u>

Miscellaneous

UNSPSC

Manufacturer Declaration

15



32-15-17-05

EMV

For use in hazardous locations

Test Certificates

<u>KC</u>







CCC-Ex

Type Test Certificates/Test Report

Environment

Industrial Communication







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