SIEMENS

Data sheet

6AG1212-1HE40-4XB0



SIPLUS S7-1200 CPU 1212C DC/DC/relay based on 6ES7212-1HE40-0XB0 with conformal coating, -20...+60 °C, compact CPU, DC/DC/relay, onboard I/O: 8 DI 24 V DC 6 DQ relay 2 A 2 AI 0-10 V DC power supply: 20.4-28.8 V D program/data memory 75 KB

General information		
Product type designation	CPU 1212C DC/DC/relay	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275	
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) 	5 V	
 permissible range, upper limit (DC) 	250 V	
Input current		
Current consumption (rated value)	400 mA; Typical	
Current consumption, max.	1 200 mA; CPU with all expansion modules	
Inrush current, max.	12 A; at 28.8 V	
Output current		
for backplane bus (5 V DC), max.	1 000 mA; Max. 5 V DC for SM and CM	
Encoder supply		
24 V encoder supply		
• 24 V	L+ minus 4 V DC min.	
Power loss		
Power loss, typ.	9 W	
Memory		
Work memory		
integrated	75 kbyte	
• expandable	No	
Load memory		
integrated	1 Mbyte	
 Plug-in (SIMATIC Memory Card), max. 	with SIMATIC memory card	
Backup		
present	Yes; maintenance-free	
without battery	Yes	
CPU processing times		
for bit operations, typ.	0.085 μs; / instruction	

for word an and the set of	
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	
Number, max.	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
Flag	
• Size, max.	4 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.	3 comm. modules, 1 signal board, 2 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	8; Integrated
of which inputs usable for technological functions	4; HSC (High Speed Counting)
Source/sink input	Yes
Number of simultaneously controllable inputs	100
all mounting positions	
— up to 40 °C, max.	8
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 & 1 @ 30 kHz, differential: 3 @ 80 kHz & 1 @ 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	6; 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	
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Switching frequency	

• of the pulse outputs, with resistive load, max.	1 Hz
Relay outputs	•
Number of relay outputs	6
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), max. 	10 bit
Integration time, parameterizable	Yes
Conversion time (per channel)	625 µs
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	
	PROFINET
Interface type	
Isolated automatic detection of transmission rate	Yes
	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	Vec
RJ 45 (Ethernet)	Yes
Protocols	Vec
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
Open IE communication	Yes
Web server PROFINET IO Controller	Yes
Transmission rate, max.	100 Mbit/s
Services	16
- Number of connectable IO Devices, max.	16
PROFINET IO Device	
Services	Vee
— Shared device	Yes
 — Number of IO Controllers with shared device, max. 	2
Protocols	
	Yes
Supports protocol for PROFINET IO	No
PROFIsafe PROFIBUS	
AS-Interface	Yes; CM 1243-5 required
	Yes
Protocols (Ethernet) TCP/IP	Voc
• ICP/IP Open IE communication	Yes
TCP/IP	Yes
	Yes
ISO-on-TCP (RFC1006)	
• UDP	Yes

Web server	
supported	Yes
 User-defined websites 	Yes
Further protocols	
MODBUS	Yes
communication functions / header	
S7 communication	
• supported	Yes
as server	Yes
as client	Yes
Number of connections	
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	Yes
Diagnostic buffer	
present	Yes
Traces	
Number of configurable Traces	2; Up to 512 KB of data per trace are possible
Integrated Functions	
	Vec
Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction interface	Up to 4 with SB 1222
PID controller	Yes
Number of alarm inputs	4
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Potential separation	
Potential separation	500V AC for 1 minute
Potential separation Potential separation digital inputs • Potential separation digital inputs	500V AC for 1 minute
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Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge of static • Test voltage at air discharge • Test voltage at contact discharge	1 Relays No 2 Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference	1 Relays No 2 Yes 8 kV 6 kV
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC	1 Relays No 2 Yes 8 kV
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4	1 Relays No 2 Yes 8 kV 6 kV
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC	1 Relays No 2 Yes 8 kV 6 kV
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4	1 Relays No 2 Yes 8 kV 6 kV
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Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4 • Interference immunity on supply lines acc. to IEC 61000-4-4	1 Relays No 2 Yes 8 kV 6 kV Yes Yes
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Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Detential separation digital outputs • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge - Test voltage at air discharge - Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-5 Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against voltage surge • Interference immunity against conducted variable disturbanc • Interference immunity agains	1 Relays No 2 Yes 8 kV 6 kV Yes Yes Yes induced by high-frequency fields Yes Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Detential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4 • Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against voltage surge • Interference immunity against conducted variable disturbanc • Interference immunity against conducted variable disturbanc • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011	1 Relays No 2 Yes 8 kV 6 kV Yes Yes Yes e induced by high-frequency fields Yes Yes Yes Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge — Test voltage at air discharge — Test voltage at contact discharge Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4 • Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against voltage surge • Interference immunity against conducted variable disturbanc • Interference immunity against conducted variable disturbanc • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 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	1 Relays No 2 Yes 8 kV 6 kV Yes Yes Yes induced by high-frequency fields Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Detential separation digital outputs • between the channels • between the channels, in groups of EMC Interference immunity against discharge of static electricity • Interference immunity against discharge - Test voltage at air discharge - Test voltage at contact discharge Interference immunity on supply lines acc. to IEC 61000-4-2 • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4 • Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against voltage surge • Interference immunity against conducted variable disturbanc • Interference immu	1 Relays No 2 Yes 8 kV 6 kV Yes Yes Yes e induced by high-frequency fields Yes Yes Yes Yes Yes Yes Yes

mbient conditions	
Free fall	0.0 mm firm times in module scales
Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation min. 	-20 °C; = Tmin; Startup @ 0 °C
• max.	60 °C; Number of simultaneously activated inputs or outputs 4 or 3 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 or 6 at 55 °C horizontal or 45 °C vertical
 horizontal installation, min. 	-20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C
 horizontal installation, max. 	60 °C; = Tmax
 vertical installation, min. 	-20 °C; = Tmin; Startup @ 0 °C
 vertical installation, max. 	50 °C; = Tmax
At cold restart, min.	0°C
Ambient temperature during storage/transportation	
● min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	2 000 m
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC
Relative humidity	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Vibrations	
Vibration resistance during operation acc. to IEC 60068-2-6	2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail
Operation, tested according to IEC 60068-2-6	Yes
Shock testing	Very IEC C0. Dest 2.07 holf sizes etterative of the sheet 45 s (neek
 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
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
 — to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $*$
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 request
 — to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, 	Yes; Discoloration of coating possible during service life

Amendment 7

• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Conformal coating, Class A

according to IPC-CC-830A	
configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
SCL	Yes
programming / cycle time monitoring / header	
 adjustable 	Yes
Dimensions	
Width	90 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	385 g
last modified:	4/1/2022 🖸