SIEMENS

Data sheet

6ES7211-1HE40-0XB0

SIMATIC S7-1200, CPU 1211C, COMPACT CPU, DC/DC/RELAY, ONBOARD I/O: 6 DI 24V DC; 4 DO RELAY 2A; 2 AI 0 - 10V DC, POWER SUPPLY: DC 20.4 - 28.8 V DC, PROGRAM/DATA MEMORY: 50 KB



General information	
Product type designation	CPU 1211C DC/DC/relay
Firmware version	V4.2
Engineering with	
 Programming package 	STEP 7 V14 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
Load voltage L+	
Rated value (DC)	24 V
 permissible range, lower limit (DC) 	20.4 V
• permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	300 mA; CPU only
Current consumption, max.	900 mA; CPU with all expansion modules

Inrush current, max.	12 A; at 28.8 V DC
l²t	0.8 A ² ·s
Output current	
for backplane bus (5 V DC), max.	750 mA; Max. 5 V DC for CM
Encoder output	
Encoder supply 24 V encoder supply	
• 24 V	L+ minus 4 V DC min.
Power loss	A W
Power loss, typ.	8 W
Memory	
Work memory	
• integrated	50 kbyte
• expandable	No
Load memory	
• integrated	1 Mbyte
 Plug-in (SIMATIC Memory Card), max. 	with SIMATIC memory card
Backup	
• present	Yes
maintenance-free	Yes
• without battery	Yes
CPU processing times	
for bit operations, typ.	0.08 μs; / instruction
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	Limited only by DAM for orde
• Number, max.	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags),	10 kbyte
max.	
Flag	
• Number, 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 communication modules, 1 signal board
Number of modules per system, max.	
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	6; Integrated
 of which inputs usable for technological functions 	3; HSC (High Speed Counting)
Source/sink input	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	6
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 current	
● for signal "1", typ.	4 mA; nominal
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 counter/technological functions	
— parameterizable	Single phase : 3 @ 100 kHz, differential: 3 @ 80 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	4; 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	
Relay outputs mechanically 10 million, at rated load voltage 100 000 Cable length 500 m • shelded, max. 150 m • unshielded, max. 150 m Analog inputs 2 Number of analog inputs 2 • voltage Yes • hout ranges Ves • O to +10 V Yes • hout ranges (rated values), voltages 0 • o to +10 V Yes • hout resistance (0 to 10 V) ≥100k ohms Cable length 0 • shielded, max. 100 m; twisted and shielded Analog outputs 0 Analog outputs 0 Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable Yes • Conversion time (per channel) 625 µs Encoder 10 bit Interface Province sensor Interface Province sensor Interface Province sensor Interface type PROFINET Physics Ethernet		10 ms; max.
Relay outputs mechanically 10 million, at rated load voltage 100 000 Cable length 500 m • shielded, max. 150 m Analog inputs 2 Number of analog inputs 2 Input ranges 7 • Voltage Ves Input ranges 7 • Voltage Ves Input ranges 7 • O ta +10 V Yes • Input resistance (0 to 10 V) 2100k ohms Cable length 0 • shielded, max. 100 m; twisted and shielded Analog outputs 0 Ratelog outputs 0 Analog outputs 0 Analog outputs 0 Analog outputs 0 Analog outputs 0 Presolution with overrange (bit including sign), max. 10 bit • Integration time, parameterizable Yes • Conversion time (per channel) 625 µs Encoder 1 Interface Yes Interface type PROFINET Physics </td <td>● "1" to "0", max.</td> <td>10 ms; max.</td>	● "1" to "0", max.	10 ms; max.
Cable length 500 m • unshielded, max. 500 m • unshielded, max. 150 m Analog inputs 2 Number of analog inputs 2 Input ranges * • Voltage Yes input ranges (rated values), voltages * • U to +10 V Yes • Input resistance (0 to 10 V) ¥100k ohms Cable length * • shielded, max. 100 m; twisted and shielded Analog outputs 0 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 inde (per channel) 625 µs Encoder Connectable encoders • 2-wire sensor Yes • Connectable encoders • 2 wire sensor • 2-wire sensor Yes 1 Interface Interface Interface Yes Autorogoliation Yes Autorogoliation Yes Autorossing Yes Interface types Yes Autorossing Yes Autorossing Yes Autorossing Yes	Relay outputs	
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•unshielded, max. 150 m Analog inputs 2 Number of analog inputs 2 Input ranges Yes • Voltage Yes Input ranges (rated values), voltages 0 • 0 to + 10 V Yes • Input resistance (0 to 10 V) ≥100k ohms Cable length 2 • shielded, max. 100 m; twisted and shielded Analog outputs 0 Number of analog outputs 0 Analog value generation for the inputs 100 m; twisted and shielded 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 Interface type PROFINET Physics Ethernet Isolated Yes Autonegotiation Yes Autoregotiation Yes Autoregotation Yes	Cable length	
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Connectable encoders Yes • 2-wire sensor Yes 1. Interface PROFINET Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autonegotiation Yes Autocrossing Yes Interface types 1 • integrated switch No	 Conversion time (per channel) 	625 µs
Connectable encoders Yes • 2-wire sensor Yes 1. Interface PROFINET Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autonegotiation Yes Autocrossing Yes Interface types 1 • integrated switch No	Encoder	
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Interface typePROFINETPhysicsEthernetIsolatedYesautomatic detection of transmission rateYesAutonegotiationYesAutocrossingYesInterface types1• Number of ports1• integrated switchNoFunctionality	1 Interface	
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AutonegotiationYesAutocrossingYesInterface types1• Number of ports1• integrated switchNoFunctionality		Yes
Autocrossing Yes Interface types • Number of ports • Number of ports 1 • integrated switch No Functionality	automatic detection of transmission rate	Yes
Interface types • Number of ports 1 • integrated switch No Functionality	Autonegotiation	Yes
Number of ports integrated switch No Functionality	Autocrossing	Yes
integrated switch No Functionality	Interface types	
Functionality	Number of ports	1
	 integrated switch 	No
PROFINET IO Controller Yes	Functionality	
	PROFINET IO Controller	Yes

PROFINET IO Device	Yes
 SIMATIC communication 	Yes
Open IE communication	Yes
Web server	Yes
Media redundancy	No
PROFINET IO Controller	
 Transmission rate, max. 	100 Mbit/s
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	No
— Prioritized startup	Yes
 — Number of IO devices with prioritized 	16
startup, max.	
 Number of connectable IO Devices, max. 	16
 — Number of connectable IO Devices for RT, 	16
max.	
— of which in line, max.	16
 Activation/deactivation of IO Devices 	Yes
— Number of IO Devices that can be	8
simultaneously activated/deactivated, max.	
— 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.

PROFINET IO Device

Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	Yes
— Shared device	Yes
— Number of IO Controllers with shared	2
device, max.	

Protocols	
Supports protocol for PROFINET IO	Yes
PROFIBUS	Yes; CM 1243-5 required
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	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.	1 472 byte
Web server	
User-defined websites	Yes
Further protocols	
• MODBUS	Yes
Communication functions	
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
• User data per job, max.	See online help (S7 communication, user data size)
Web server	
• supported	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	
U	
• Forcing	Yes

● present	Yes	
Traces		
 Number of configurable Traces 	2	
 Memory size per trace, max. 	512 kbyte	
Interrupts/diagnostics/status information		
Diagnostics indication LED	Ver	
RUN/STOP LED	Yes	
• ERROR LED	Yes	
MAINT LED	Yes	
Integrated Functions		
Number of counters	3	
Counting frequency (counter) max.	100 kHz	
Frequency measurement	Yes	
controlled positioning	Yes	
Number of position-controlled positioning axes, max.	8	
Number of positioning axes via pulse-direction	Up to 4 with SB 1222	
interface		
PID controller	Yes	
Number of alarm inputs	4	
Potential separation		
Potential separation digital inputs	5001/ 4.0 fee 4 minute	
 Potential separation digital inputs 	500V AC for 1 minute	
• between the channels, in groups of	1	
Potential separation digital outputs		
 Potential separation digital outputs 	Relays	
 between the channels 	No	
 between the channels, in groups of 	1	
EMC		
Interference immunity against discharge of static electri	city	
 Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 	Yes	
— 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		
• on the supply lines acc. to IEC 61000-4-5	Yes	
Interference immunity against conducted variable distur		

 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	
Degree of protection acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
 Fall height, max. 	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C
• max.	60 °C
 horizontal installation, min. 	-20 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-20 °C
 vertical installation, max. 	50 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
• Operation, min.	795 hPa
• Operation, max.	1 080 hPa
 Storage/transport, min. 	660 hPa
 Storage/transport, max. 	1 080 hPa
 Installation altitude, min. 	-1 000 m
 Installation altitude, max. 	2 000 m
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	

• Vibration resistance during operation acc. to IEC 60068-2-6	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
 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		
Programming		
Programming language		
— LAD	Yes	
— FBD	Yes	
— SCL	Yes	
Know-how protection		
 User program protection/password protection 	Yes	
Copy protection	Yes	
Block protection	Yes	
Access protection		
Protection level: Write protection	Yes	
 Protection level: Read/write protection 	Yes	
Protection level: Complete protection	Yes	
Cycle time monitoring		
• adjustable	Yes	
Dimensions		
Width	90 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	380 g	

11/28/2017

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 LV5609LP-E
 5T9950PFGI
 STCD2400F35F

 74FCT3807PYG18
 74FCT3807PYG18
 74FCT3807PYG18
 8ST3034AGILF
 LV5609LP-E
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 STCD2400F35F