

SIMATIC S7-1200

Central processing units

CPU 1211C

3

Ordering data

Article No.

Article No.

CPU 1211C

Compact CPU, AC/DC/relay;
integral program/data memory
25 KB, load memory 1 MB;
wide-range power supply
85 ... 264 V AC;
Boolean execution times
0.1 µs per operation;
6 digital inputs, 4 digital outputs
(relays), 2 analog inputs;
expandable by up to
3 communication modules and
1 signal board/communication
board;
digital inputs can be used
as HSC at 100 kHz

6ES7211-1BE40-0XB0

Compact CPU, DC/DC/DC;
integrated program/data memory
25 KB, load memory 1 MB;
power supply 24 V DC;
Boolean execution times
0.1 µs per operation;
6 digital inputs, 4 digital outputs,
2 analog inputs;
expandable by up to
3 communication modules and
1 signal board/communication
board;
digital inputs can be used
as HSC at 100 kHz,
24 V DC digital outputs can be
used as pulse outputs (PTO) or
pulse-width modulated outputs
(PWM) at 100 kHz

6ES7211-1AE40-0XB0

Compact CPU, DC/DC/relay;
integrated program/data memory
25 KB, load memory 1 MB;
power supply 24 V DC;
Boolean execution times
0.1 µs per operation;
6 digital inputs, 4 digital outputs
(relays), 2 analog inputs;
expandable by up to
3 communication modules and
1 signal board/communication
board;
digital inputs can be used
as HSC at 100 kHz

6ES7211-1HE40-0XB0

SB 1221 signal board

4 inputs, 5 V DC, 200 kHz
4 inputs, 24 V DC, 200 kHz

6ES7221-3AD30-0XB0

6ES7221-3BD30-0XB0

SB 1222 signal board

4 outputs, 5 V DC, 0.1 A, 200 kHz
4 outputs, 24 V DC, 0.1 A, 200 kHz

6ES7222-1AD30-0XB0

6ES7222-1BD30-0XB0

SB 1223 signal board

2 inputs, 24 V DC,
IEC type 1 current sinking;
2 x 24 V DC transistor outputs,
0.5 A, 5 W;
can be used as HSC
at up to 30 kHz

6ES7223-0BD30-0XB0

2 inputs, 5 V DC, 200 kHz
2 outputs 5 V DC, 0.1 A, 200 kHz

6ES7223-3AD30-0XB0

2 inputs, 24 V DC, 200 kHz
2 outputs 24 V DC, 0.1 A, 200 kHz

6ES7223-3BD30-0XB0

SB 1231 signal board

1 analog input, ±10 V with 12 bits
or 0 ... 20 mA with 11 bits

6ES7231-4HA30-0XB0

SB 1231 thermocouple signal board

1 input +/- 80 mV, resolution 15 bits
+ sign, thermocouples type J, K

6ES7231-5QA30-0XB0

SB 1231 RTD signal board

1 input for resistance temperature
sensors Pt 100, Pt 200, Pt 500,
Pt 1000, resolution 15 bits + sign

6ES7231-5PA30-0XB0

SB 1232 signal board

1 analog output, ±10 V with 12 bits
or 0 to 20 mA with 11 bits

6ES7232-4HA30-0XB0

CB 1241 RS485 communication board

For point-to-point connection,
with 1 RS485 interface

6ES7241-1CH30-1XB0

Simulator (optional)

8 input switches,
for CPU 1211C / CPU 1212C

6ES7274-1XF30-0XA0

SIMATIC Memory Card (optional)

4 MB
12 MB
24 MB
2 GB

6ES7954-8LC02-0AA0

6ES7954-8LE02-0AA0

6ES7954-8LF02-0AA0

6ES7954-8LP01-0AA0

Terminal block (spare part)

For CPU 1211C/1212C

For DI, with 14 screws,
tin-plated; 4 units

6ES7292-1AH30-0XA0

For DO, with 8 screws,
tin-plated; 4 units

6ES7292-1AP30-0XA0

For AI, with 3 screws,
tin-plated; 4 units

6ES7292-1BC30-0XA0

RJ45 cable grip

4 items per pack
Single port

6ES7290-3AA30-0XA0

Front flap set (spare part)

For CPU 1211C/1212C

6ES7291-1AA30-0XA0

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Compact CPU, AC/DC/relay;
integral program/data memory
25 KB, load memory 1 MB;
wide-range power supply
85 ... 264 V AC;
Boolean execution times
0.1 µs per operation;
8 digital inputs, 6 digital outputs
(relays), 2 analog inputs;
expandable by up to
3 communication modules,
2 signal modules and 1 signal
board/communication board;
digital inputs can be used
as HSC at 100 kHz

6ES7212-1BE40-0XB0

Compact CPU, DC/DC/DC;
integrated program/data memory
25 KB, load memory 1 MB;
power supply 24 V DC;
Boolean execution times
0.1 µs per operation;
8 digital inputs, 6 digital outputs,
2 analog inputs;
expandable by up to
3 communication modules,
2 signal modules, and 1 signal
board/communication board;
digital inputs can be used
as HSC at 100 kHz,
24 V DC digital outputs can be
used as pulse outputs (PTO) or
pulse-width modulated outputs
(PWM) at 100 kHz

6ES7212-1AE40-0XB0

Compact CPU, DC/DC/relay;
integrated program/data memory
25 KB, load memory 2 MB;
power supply 24 V DC;
Boolean execution times
0.1 µs per operation;
8 digital inputs, 6 digital outputs
(relays), 1 analog inputs;
expandable by up to
3 communication modules,
2 signal modules, and 1 signal
board/communication board;
digital inputs can be used
as HSC at 100 kHz

6ES7212-1HE40-0XB0

SB 1221 signal board

4 inputs, 5 V DC, 200 kHz

6ES7221-3AD30-0XB0

4 inputs, 24 V DC, 200 kHz

6ES7221-3BD30-0XB0

SB 1222 signal board

4 outputs, 5 V DC, 0.1 A, 200 kHz

6ES7222-1AD30-0XB0

4 outputs, 24 V DC, 0.1 A, 200 kHz

6ES7222-1BD30-0XB0

SB 1223 signal board

2 inputs, 24 V DC,
IEC type 1 current sinking;
2 x 24 V DC transistor outputs,
0.5 A, 5 W;
can be used as HSC at
up to 30 kHz

6ES7223-0BD30-0XB0

2 inputs, 5 V DC, 200 kHz
2 outputs 5 V DC, 0.1 A, 200 kHz

6ES7223-3AD30-0XB0

2 inputs, 24 V DC, 200 kHz
2 outputs 24 V DC, 0.1 A, 200 kHz

6ES7223-3BD30-0XB0

SB 1231 signal board

1 analog input, ±10 V with 12 bits
or 0 ... 20 mA with 11 bits

6ES7231-4HA30-0XB0

SB 1231 thermocouple signal board

1 input +/- 80 mV, resolution 15 bits
+ sign, thermocouples type J, K

6ES7231-5QA30-0XB0

SB 1231 RTD signal board

1 input for resistance temperature
sensors Pt 100, Pt 200, Pt 500,
Pt 1000, resolution 15 bits + sign

6ES7231-5PA30-0XB0

SB 1232 signal board

1 analog output, ±10 V with 12 bits
or 0 to 20 mA with 11 bits

6ES7232-4HA30-0XB0

CB 1241 RS485 communication board

For point-to-point connection,
with 1 RS485 interface

6ES7241-1CH30-1XB0

Simulator (optional)

8 input switches,
for CPU 1211C / CPU 1212C

6ES7274-1XF30-0XA0

SIMATIC Memory Card (optional)

4 MB

6ES7954-8LC02-0AA0

12 MB

6ES7954-8LE02-0AA0

24 MB

6ES7954-8LF02-0AA0

2 GB

6ES7954-8LP01-0AA0

Extension cable for two-tier configuration

For connecting digital/analog signal
modules; length 2 m

6ES7290-6AA30-0XA0

Starter box CPU 1212C AC/DC/relay

Complete offer SIMATIC S7-1200,
starter box, comprising:
CPU 1212C AC/DC/relay, simulator,
STEP 7 BASIC CD, manual CD,
info material, in Systainer

6ES7212-1BD34-4YB0

Terminal block (spare part)

For CPU 1211C/1212C

For DI, with 14 screws, tin-plated;
4 units

6ES7292-1AH30-0XA0

For DO, with 8 screws, tin-plated;
4 units

6ES7292-1AP30-0XA0

For AI, with 3 screws, tin-plated;
4 units

6ES7292-1BC30-0XA0

SIMATIC S7-1200

Central processing units

CPU 1215C

3

Ordering data

Article No.

Article No.

CPU 1215C

Compact CPU, AC/DC/relay;
integral program/data memory
100 KB, load memory 4 MB;
wide-range power supply
85 ... 264 V AC;
Boolean execution times
0.085 µs per operation;
14 digital inputs, 10 digital outputs
(relays), 2 analog inputs,
2 analog outputs;
expandable by up to
3 communication modules,
8 signal modules and 1 signal
board/communication board;
digital inputs can be used
as HSC at 100 kHz

6ES7215-1BG40-0XB0

Compact CPU, DC/DC/DC;
integrated program/data memory
100 KB, load memory 4 MB;
power supply 24 V DC;
Boolean execution times
0.085 µs per operation;
14 digital inputs, 10 digital outputs,
2 analog inputs, 2 analog outputs;
expandable by up to
3 communication modules,
8 signal modules, and 1 signal
board/communication board;
digital inputs can be used
as HSC at 100 kHz,
24 V DC digital outputs can be
used as pulse outputs (PTO) or
pulse-width modulated outputs
(PWM) at 100 kHz

6ES7215-1AG40-0XB0

Compact CPU, DC/DC/relay;
integrated program/data memory
100 KB, load memory 4 MB;
power supply 24 V DC;
Boolean execution times
0.085 µs per operation;
14 digital inputs, 10 digital outputs
(relays), 2 analog inputs,
2 analog outputs;
expandable by up to
3 communication modules,
8 signal modules, and 1 signal
board/communication board;
digital inputs can be used
as HSC at 100 kHz

6ES7215-1HG40-0XB0

SB 1221 signal board

4 inputs, 5 V DC, 200 kHz
4 inputs, 24 V DC, 200 kHz

6ES7221-3AD30-0XB0

6ES7221-3BD30-0XB0

SB 1222 signal board

4 outputs, 5 V DC, 0.1 A, 200 kHz
4 outputs, 24 V DC, 0.1 A, 200 kHz

6ES7222-1AD30-0XB0

6ES7222-1BD30-0XB0

SB 1223 signal board

2 inputs, 24 V DC,
IEC type 1 current sinking;
2 x 24 V DC transistor outputs,
0.5 A, 5 W;
can be used as HSC
at up to 30 kHz

6ES7223-0BD30-0XB0

2 inputs, 5 V DC, 200 kHz
2 outputs 5 V DC, 0.1 A, 200 kHz

6ES7223-3AD30-0XB0

2 inputs, 24 V DC, 200 kHz
2 outputs 24 V DC, 0.1 A, 200 kHz

6ES7223-3BD30-0XB0

SB 1231 signal board

1 analog input, ±10 V with 12 bits
or 0 ... 20 mA with 11 bits

6ES7231-4HA30-0XB0

SB 1231 thermocouple signal board

1 input +/- 80 mV, resolution 15 bits
+ sign, thermocouples type J, K

6ES7231-5QA30-0XB0

RTD signal board SB 1231

1 input for resistance temperature
sensors Pt 100, Pt 200, Pt 500,
Pt 1000, resolution 15 bits + sign

6ES7231-5PA30-0XB0

SB 1232 signal board

1 analog output, ±10 V with 12 bits
or 0 to 20 mA with 11 bits

6ES7232-4HA30-0XB0

CB 1241 RS485 communication board

For point-to-point connection,
with 1 RS485 interface

6ES7241-1CH30-1XB0

BB 1297 battery board

For long-term backup of real-time
clock; can be plugged into the
signal board slot of an S7-1200
CPU in FW version 3.0 or higher;
battery (CR 1025) is not included

6ES7297-0AX30-0XA0

Simulator (optional)

14 input switches, for CPU 1214C
and CPU 1215C

6ES7274-1XH30-0XA0

SIMATIC Memory Card (optional)

4 MB

6ES7954-8LC02-0AA0

12 MB

6ES7954-8LE02-0AA0

24 MB

6ES7954-8LF02-0AA0

2 GB

6ES7954-8LP01-0AA0

Extension cable for two-tier configuration

For connecting digital/analog signal
modules;
length 2 m

6ES7290-6AA30-0XA0

Terminal block (spare part)

For CPU 1215C

For DI, with 20 screws, tin-plated;
4 units

6ES7292-1AV30-0XA0

For DO, with 12 screws, tin-plated;
4 units

6ES7292-1AM30-0XA0

For analog units, with 6 screws,
gold-plated; 4 units

6ES7292-1BF30-0XB0