SIMATIC S7-1200
Central processing units

CPU 1211C

Ordering data	Order No.		Order No.
CPU 1211C		**SB 1231 signal board**	**6ES7 231-4HA30-0XB0**
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	**6ES7 211-1BE31-0XB0**	1 analog input, ±10 V with 12 bits or 0 ... 20 mA with 11 bits	
		SB 1231 thermocouple signal board	**6ES7 231-5QA30-0XB0**
		1 input +/- 80 mV, resolution 15 bits + sign, thermocouples type J, K	
		SB 1231 RTD signal board	**6ES7 231-5PA30-0XB0**
		1 input for resistance temperature sensors Pt 100, Pt 200, Pt 500, Pt 1000, resolution 15 bits + sign	
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	**6ES7 211-1AE31-0XB0**	**SB 1232 signal board**	**6ES7 232-4HA30-0XB0**
		1 analog output, ±10 V with 12 bits or 0 to 20 mA with 11 bits	
		CB 1241 RS485 communication board	**6ES7 241-1CH30-1XB0**
		for point-to-point connection, with 1 RS485 interface	
		Simulator (optional)	
		8 input switches, for CPU 1211C / CPU 1212C	**6ES7 274-1XF30-0XA0**
		SIMATIC Memory Card (optional)	
		4 MB	**6ES7 954 -8LC01-0AA0**
		12 MB	**6ES7 954 -8LE01-0AA0**
		24 MB	**6ES7 954 -8LF01-0AA0**
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	**6ES7 211-1HE31-0XB0**	**Terminal block (spare part)**	
		for CPU 1211C/1212C	
		For DI, with 14 screws, tin-plated; 4 units	**6ES7 292-1AH30-0XA0**
		For DO, with 8 screws, tin-plated; 4 units	**6ES7 292-1AP30-0XA0**
		For AI, with 3 screws, tin-plated; 4 units	**6ES7 292-1BC30-0XA0**
		RJ45 cable grip	
		4 items per pack	
		Single port	**6ES7 290-3AA30-0XA0**
SB 1221 signal board		**Front flap set (spare part)**	
4 inputs, 5 V DC, 200 kHz	**6ES7 221-3AD30-0XB0**	for CPU 1211C/1212C	**6ES7 291-1AA30-0XA0**
4 inputs, 24 V DC, 200 kHz	**6ES7 221-3BD30-0XB0**	**S7-1200 automation system, System Manual**	
SB 1222 signal board		For SIMATIC S7-1200 and STEP 7 Basic	
4 outputs, 5 V DC, 0.1 A, 200 kHz	**6ES7 222-1AD30-0XB0**	German	**6ES7 298-8FA30-8AH0**
4 outputs, 24 V DC, 0.1 A, 200 kHz	**6ES7 222-1BD30-0XB0**	English	**6ES7 298-8FA30-8BH0**
SB 1223 signal board		French	**6ES7 298-8FA30-8CH0**
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	**6ES7 223-0BD30-0XB0**	Spanish	**6ES7 298-8FA30-8DH0**
		Italian	**6ES7 298-8FA30-8EH0**
		Chinese	**6ES7 298-8FA30-8KH0**
2 inputs, 5 V DC, 200 kHz 2 outputs 5 V DC, 0.1 A, 200 kHz	**6ES7 223-3AD30-0XB0**		
2 inputs, 24 V DC, 200 kHz 2 outputs 24 V DC, 0.1 A, 200 kHz	**6ES7 223-3BD30-0XB0**		

SIMATIC S7-1200
Central processing units

CPU 1212C

Ordering data	Order No.		Order No.
CPU 1212C		**SB 1223 signal board**	
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	**6ES7 212-1BE31-0XB0**	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	**6ES7 223-0BD30-0XB0**
		2 inputs, 5 V DC, 200 kHz 2 outputs 5 V DC, 0.1 A, 200 kHz	**6ES7 223-3AD30-0XB0**
		2 inputs, 24 V DC, 200 kHz 2 outputs 24 V DC, 0.1 A, 200 kHz	**6ES7 223-3BD30-0XB0**
		SB 1231 signal board	**6ES7 231-4HA30-0XB0**
		1 analog input, ±10 V with 12 bits or 0 ... 20 mA with 11 bits	
		SB 1231 thermocouple signal board	**6ES7 231-5QA30-0XB0**
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	**6ES7 212-1AE31-0XB0**	1 input +/- 80 mV, resolution 15 bits + sign, thermocouples type J, K	
		SB 1231 RTD signal board	**6ES7 231-5PA30-0XB0**
		1 input for resistance temperature sensors Pt 100, Pt 200, Pt 500, Pt 1000, resolution 15 bits + sign	
		SB 1232 signal board	**6ES7 232-4HA30-0XB0**
		1 analog output, ±10 V with 12 bits or 0 to 20 mA with 11 bits	
		CB 1241 RS485 communication board	**6ES7 241-1CH30-1XB0**
		for point-to-point connection, with 1 RS485 interface	
		Simulator (optional)	
		8 input switches, for CPU 1211C / CPU 1212C	**6ES7 274-1XF30-0XA0**
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), 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	**6ES7 212-1HE31-0XB0**	**SIMATIC Memory Card (optional)**	
		4 MB	**6ES7 954 -8LC01-0AA0**
		12 MB	**6ES7 954 -8LE01-0AA0**
		24 MB	**6ES7 954 -8LF01-0AA0**
		Extension cable for two-tier configuration	**6ES7 290-6AA30-0XA0**
		for connecting digital/analog signal modules; length 2 m	
SB 1221 signal board		**Starter box CPU 1212C AC/DC/relay**	**6ES7 212-1BD33-4YB0**
4 inputs, 5 V DC, 200 kHz	**6ES7 221-3AD30-0XB0**	Complete offer SIMATIC S7-1200, starter box, comprising: CPU 1212C AC/DC/relay, simulator, STEP 7 BASIC CD, manual CD, info material, in Systainer	
4 inputs, 24 V DC, 200 kHz	**6ES7 221-3BD30-0XB0**		
SB 1222 signal board			
4 outputs, 5 V DC, 0.1 A, 200 kHz	**6ES7 222-1AD30-0XB0**		
4 outputs, 24 V DC, 0.1 A, 200 kHz	**6ES7 222-1BD30-0XB0**		

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■ Overview
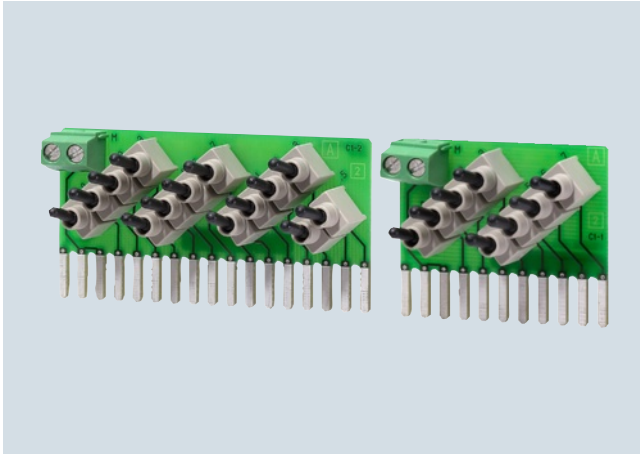
- Simulator module for program testing during commissioning and ongoing operation
- Simulation of 8 or 14 inputs

■ Ordering data

	Order No.
Digital input simulator SIM 1274 simulator module (optional)	
with 8 input switches, for CPU 1211C, CPU 1212C	6ES7 274-1XF30-0XA0
with 14 input switches, for CPU 1214C, 1215C	6ES7 274-1XH30-0XA0
with 14 input switches, for CPU 1217C	6ES7 274-1XK30-0XA0

	Order No.
Accessories	
S7-1200 automation system, System Manual	
For SIMATIC S7-1200 and STEP 7 Basic	
German	6ES7 298-8FA30-8AH0
English	6ES7 298-8FA30-8BH0
French	6ES7 298-8FA30-8CH0
Spanish	6ES7 298-8FA30-8DH0
Italian	6ES7 298-8FA30-8EH0
Chinese	6ES7 298-8FA30-8KH0
S7-1200 automation system, Easy Book	
Brief instructions	
German	6ES7 298-8FA30-8AQ0
English	6ES7 298-8FA30-8BQ0
French	6ES7 298-8FA30-8CQ0
Spanish	6ES7 298-8FA30-8DQ0
Italian	6ES7 298-8FA30-8EQ0
Chinese	6ES7 298-8FA30-8KQ0