

Ordering data	Article No.	Article No.
<b>SB 1231 thermocouple signal board</b> 1 input +/- 80 mV, resolution 15 bits + sign, thermocouples type J, K	6ES7231-5QA30-0XB0	
<b>SB 1231 RTD signal board</b> 1 input for resistance temperature sensors Pt 100, Pt 200, Pt 500, Pt 1000, resolution 15 bits + sign	6ES7231-5PA30-0XB0	
<b>SB 1232 signal board</b> 1 analog output, ±10 V with 12 bits or 0 to 20 mA with 11 bits	6ES7232-4HA30-0XB0	
<b>CB 1241 RS 485 communication board</b> For point-to-point connection, with 1 RS 485 interface	6ES7241-1CH30-1XB0	
<b>BB1297 battery board</b> For long-term backup of real-time clock, can be plugged into the signal board slot; battery (CR1025) is not included in scope of supply	6ES7297-0AX30-0XA0	
<b>Digital input simulator SIM 1274 simulator module (optional)</b> 8 input switches, for CPU 1211C / CPU 1212C	6ES7274-1XF30-0XA0	
<b>Analog input simulator SIM 1274 simulator module (optional)</b> 2 potentiometers	6ES7274-1XA30-0XA0	
<b>SIMATIC Memory Card (optional)</b> 4 MB 12 MB 24 MB 256 MB 2 GB 32 GB	6ES7954-8LC03-0AA0 6ES7954-8LE03-0AA0 6ES7954-8LF03-0AA0 6ES7954-8LL03-0AA0 6ES7954-8LP02-0AA0 6ES7954-8LT03-0AA0	
<b>Extension cable for two-tier configuration</b> For connecting digital/analog signal modules; length 2 m	6ES7290-6AA30-0XA0	
<b>Starter box CPU 1212C AC/DC/relay</b> 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	
<b>Terminal block (spare part)</b> For CPU 1212C AC/DC/relay • For DI, with 14 screws, tin-coated, coded; 4 units • For DQ, with 8 screws, tin-coated, coded; 4 units • For AI, with 3 screws, gold-plated; 4 units	6ES7292-1AP40-0XA0 6ES7292-1AH40-0XA0 6ES7292-1BC30-0XA0	
<b>Terminal block (spare part) (cont.)</b> For CPU 1212C DC/DC/DC • For DI, with 14 screws, tin-coated; 4 units • For DQ, with 8 screws, tin-coated; 4 units • For AI, with 3 screws, gold-plated; 4 units For CPU 1212C DC/DC/relay • For DI, with 14 screws, tin-coated; 4 units • For DQ, with 8 screws, tin-coated, coded; 4 units • For AI, with 3 screws, gold-plated; 4 units	6ES7292-1AP30-0XA0 6ES7292-1AH30-0XA0 6ES7292-1BC30-0XA0 6ES7292-1AP30-0XA0 6ES7292-1AH40-0XA0 6ES7292-1BC30-0XA0	
<b>RJ45 cable grip</b> 4 units per pack Single port	6ES7290-3AA30-0XA0	
<b>Front flap set (spare part)</b> For CPU 1211C/1212C	6ES7291-1AA30-0XA0	
<b>STEP 7 Professional / Basic V15.1</b> Target system: SIMATIC S7-1200, S7-1500, S7-300, S7-400, WinAC Requirement: Windows 7 Home Premium SP1 (64-bit) Windows 7 Professional SP1 (64-bit) Windows 7 Enterprise SP1 (64-bit) Windows 7 Ultimate SP1 (64-bit) Windows 10 Home Version 1709, 1803 Windows 10 Professional Version 1709, 1803 Windows 10 Enterprise Version 1709, 1803 Windows 10 Enterprise 2016 LTSB Windows 10 IoT Enterprise 2015 LTSB Windows 10 IoT Enterprise 2016 LTSB Windows Server 2012 R2 StdE (full installation) Windows Server 2016 Standard (full installation) Type of delivery: en, de, fr, it, es, zh	6ES7822-1AA05-0YA5 6ES7822-1AE05-0YA5 6ES7822-0AA05-0YA5 6ES7822-0AE05-0YA5	
	STEP 7 Professional V15.1, floating license STEP 7 Professional V15.1, floating license software download incl. license key <sup>1)</sup> Email address required for delivery STEP 7 Basic V15.1, floating license STEP 7 Basic V15.1, floating license, software download incl. license key <sup>1)</sup> Email address required for delivery	

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Ordering data	Article No.	Ordering data	Article No.
<b>BB1297 battery board</b> For long-term backup of real-time clock, can be plugged into the signal board slot; battery (CR1025) is not included in scope of supply	6ES7297-0AX30-0XA0	<b>RJ45 cable grip</b> 4 units per pack	
<b>Digital input simulator SIM 1274 simulator module (optional)</b> 14 input switches, for CPU 1214C/1215C	6ES7274-1XH30-0XA0	Single port	6ES7290-3AA30-0XA0
<b>Analog input simulator SIM 1274 simulator module (optional)</b> 2 potentiometers	6ES7274-1XA30-0XA0	<b>Front flap set (spare part)</b> For CPU 1214C	6ES7291-1AB30-0XA0
<b>SIMATIC Memory Card (optional)</b> 4 MB 12 MB 24 MB 256 MB 2 GB 32 GB	6ES7954-8LC03-0AA0 6ES7954-8LE03-0AA0 6ES7954-8LF03-0AA0 6ES7954-8LL03-0AA0 6ES7954-8LP02-0AA0 6ES7954-8LT03-0AA0	<b>STEP 7 Professional / Basic V15.1</b> <b>Target system:</b> SIMATIC S7-1200, S7-1500, S7-300, S7-400, WinAC <b>Requirement:</b> Windows 7 Home Premium SP1 (64-bit) Windows 7 Professional SP1 (64-bit) Windows 7 Enterprise SP1 (64-bit) Windows 7 Ultimate SP1 (64-bit) Windows 10 Home Version 1709, 1803 Windows 10 Professional Version 1709, 1803 Windows 10 Enterprise Version 1709, 1803 Windows 10 Enterprise 2016 LTSB Windows 10 IoT Enterprise 2015 LTSB Windows 10 IoT Enterprise 2016 LTSB Windows Server 2012 R2 StdE (full installation) Windows Server 2016 Standard (full installation) <b>Type of delivery:</b> en, de, fr, it, es, zh	
<b>Extension cable for two-tier configuration</b> For connecting digital/analog signal modules; length 2 m	6ES7290-6AA30-0XA0	STEP 7 Professional V15.1, floating license	6ES7822-1AA05-0YA5
<b>Terminal block (spare part)</b> For CPU 1214C AC/DC/relay • For DI, with 20 screws, tin-coated, coded; 4 units • For DQ, with 12 screws, tin-coated, coded; 4 units • For AI, with 3 screws, gold-plated; 4 units For CPU 1214C DC/DC/DC • For DI, with 20 screws, tin-coated; 4 units • For DQ, with 12 screws, tin-coated; 4 units • For AI, with 3 screws, gold-plated; 4 units For CPU 1214C DC/DC/relay • For DI, with 20 screws, tin-coated; 4 units • For DQ, with 12 screws, tin-coated, coded; 4 units • For AI, with 3 screws, gold-plated; 4 units	6ES7292-1AV40-0XA0 6ES7292-1AM40-0XA0 6ES7292-1BC30-0XA0 6ES7292-1AV30-0XA0 6ES7292-1AM30-0XA0 6ES7292-1BC30-0XA0 6ES7292-1AV30-0XA0 6ES7292-1AM40-0XA0 6ES7292-1BC30-0XA0	STEP 7 Professional V15.1, floating license software download incl. license key <sup>1)</sup> Email address required for delivery	6ES7822-1AE05-0YA5
		STEP 7 Basic V15.1, floating license	6ES7822-0AA05-0YA5
		STEP 7 Basic V15.1, floating license, software download incl. license key <sup>1)</sup> Email address required for delivery	6ES7822-0AE05-0YA5

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<http://www.siemens.com/tia-online-software-delivery>

Ordering data	Article No.	Ordering data	Article No.
<b>Digital input simulator SIM 1274 simulator module (optional)</b> 14 input switches, for CPU 1214C/1215C	6ES7274-1XH30-0XA0	<b>Front flap set (spare part)</b> For CPU 1215C	6ES7291-1AC30-0XA0
<b>Analog input simulator SIM 1274 simulator module (optional)</b> 2 potentiometers	6ES7274-1XA30-0XA0	<b>RJ45 cable grip</b> 4 units per pack Dual port	6ES7290-3AB30-0XA0
<b>SIMATIC Memory Card (optional)</b> 4 MB 12 MB 24 MB 256 MB 2 GB 32 GB	6ES7954-8LC03-0AA0 6ES7954-8LE03-0AA0 6ES7954-8LF03-0AA0 6ES7954-8LL03-0AA0 6ES7954-8LP02-0AA0 6ES7954-8LT03-0AA0	<b>STEP 7 Professional / Basic V15.1</b> <b>Target system:</b> SIMATIC S7-1200, S7-1500, S7-300, S7-400, WinAC <b>Requirement:</b> Windows 7 Home Premium SP1 (64-bit) Windows 7 Professional SP1 (64-bit) Windows 7 Enterprise SP1 (64-bit) Windows 7 Ultimate SP1 (64-bit) Windows 10 Home Version 1709, 1803 Windows 10 Professional Version 1709, 1803 Windows 10 Enterprise Version 1709, 1803 Windows 10 Enterprise 2016 LTSB Windows 10 IoT Enterprise 2015 LTSB Windows 10 IoT Enterprise 2016 LTSB Windows Server 2012 R2 StdE (full installation) Windows Server 2016 Standard (full installation) <b>Type of delivery:</b> en, de, fr, it, es, zh STEP 7 Professional V15.1, floating license STEP 7 Professional V15.1, floating license software download incl. license key <sup>1)</sup> Email address required for delivery STEP 7 Basic V15.1, floating license STEP 7 Basic V15.1, floating license, software download incl. license key <sup>1)</sup> Email address required for delivery	6ES7822-1AA05-0YA5 6ES7822-1AE05-0YA5 6ES7822-0AA05-0YA5 6ES7822-0AE05-0YA5
<b>Extension cable for two-tier configuration</b> For connecting digital/analog signal modules; length 2 m	6ES7290-6AA30-0XA0		
<b>Terminal block (spare part)</b> For CPU 1215C AC/DC/relay • For DI, with 20 screws, tin-coated, coded; 4 units • For DQ, with 12 screws, tin-coated, coded; 4 units • For analog units, with 6 screws, gold-plated; 4 units For CPU 1215C DC/DC/DC • For DI, with 20 screws, tin-coated; 4 units • For DQ, with 12 screws, tin-coated; 4 units • For analog units, with 6 screws, gold-plated; 4 units For CPU 1215C DC/DC/relay • For DI, with 20 screws, tin-coated; 4 units • For DQ, with 12 screws, tin-coated, coded; 4 units • For analog units, with 6 screws, gold-plated; 4 units	6ES7292-1AV40-0XA0 6ES7292-1AM40-0XA0 6ES7292-1BF30-0XB0 6ES7292-1AV30-0XA0 6ES7292-1AM30-0XA0 6ES7292-1BF30-0XB0 6ES7292-1AV30-0XA0 6ES7292-1AM40-0XA0 6ES7292-1BF30-0XB0		

<sup>1)</sup> For up-to-date information and download availability, see: <http://www.siemens.com/tia-online-software-delivery>

# SIMATIC S7-1200 Basic Controllers

Central processing units  
Standard CPUs

## CPU 1217C

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Ordering data	Article No.	Article No.
<b>CB 1241 RS 485 communication board</b> For point-to-point connection, with 1 RS 485 interface	6ES7241-1CH30-1XB0	<b>STEP 7 Professional / Basic V15.1</b> Target system: SIMATIC S7-1200, S7-1500, S7-300, S7-400, WinAC Requirement: Windows 7 Home Premium SP1 (64-bit) Windows 7 Professional SP1 (64-bit) Windows 7 Enterprise SP1 (64-bit) Windows 7 Ultimate SP1 (64-bit) Windows 10 Home Version 1709, 1803 Windows 10 Professional Version 1709, 1803 Windows 10 Enterprise Version 1709, 1803 Windows 10 Enterprise 2016 LTSB Windows 10 IoT Enterprise 2015 LTSB Windows 10 IoT Enterprise 2016 LTSB Windows Server 2012 R2 StdE (full installation) Windows Server 2016 Standard (full installation) Type of delivery: en, de, fr, it, es, zh STEP 7 Professional V15.1, floating license STEP 7 Professional V15.1, floating license software download incl. license key <sup>1)</sup> Email address required for delivery STEP 7 Basic V15.1, floating license STEP 7 Basic V15.1, floating license, software download incl. license key <sup>1)</sup> Email address required for delivery
<b>BB 1297 battery board</b> For long-term backup of real-time clock; can be plugged into the signal board slot; battery (CR 1025) is not included	6ES7297-0AX30-0XA0	
<b>Digital input simulator SIM 1274 simulator module (optional)</b> 14 input switches, for CPU 1217C	6ES7274-1XK30-0XA0	
<b>Analog input simulator SIM 1274 simulator module (optional)</b> 2 potentiometers	6ES7274-1XA30-0XA0	
<b>SIMATIC Memory Card (optional)</b> 4 MB 12 MB 24 MB 256 MB 2 GB 32 GB	6ES7954-8LC03-0AA0 6ES7954-8LE03-0AA0 6ES7954-8LF03-0AA0 6ES7954-8LL03-0AA0 6ES7954-8LP02-0AA0 6ES7954-8LT03-0AA0	
<b>Extension cable for two-tier configuration</b> For connecting digital/analog signal modules; length 2 m	6ES7290-6AA30-0XA0	
<b>Terminal block (spare part)</b> For CPU 1217C <ul style="list-style-type: none"> <li>For DI, with 10 screws, tin-coated; 4 units</li> <li>For DI, with 10 screws, tin-coated; 4 units</li> <li>For DQ, with 18 screws, tin-coated; 4 units</li> <li>For analog units, with 6 screws, gold-plated; 4 units</li> </ul>	6ES7292-1AK30-0XA0 6ES7292-1AR30-0XA0 6ES7292-1AT30-0XA0 6ES7292-1BF30-0XB0	
<b>Front flap set (spare part)</b> For CPU 1217C	6ES7291-1AD30-0XA0	
<b>RJ45 cable grip</b> 4 units per pack Dual port	6ES7290-3AB30-0XA0	

<sup>1)</sup> For up-to-date information and download availability, see: <http://www.siemens.com/tia-online-software-delivery>

## SIMATIC S7-1200 Basic Controllers

### Central processing units

#### Fail-safe CPUs

Ordering data	Article No.	Article No.
<b>Extension cable for two-tier configuration</b> For connecting digital/analog signal modules; length 2 m	6ES7290-6AA30-0XA0	
<b>Terminal block (spare part)</b> For CPU 1214FC, DC/DC/DC <ul style="list-style-type: none"> <li>For DI, with 20 screws, tin-coated; 4 units</li> <li>For DQ, with 12 screws, tin-coated; 4 units</li> <li>For AI, with 3 screws, gold-plated; 4 units</li> </ul> For CPU 1214FC, DC/DC/relay <ul style="list-style-type: none"> <li>For DI, with 20 screws, tin-coated; 4 units</li> <li>For DQ, with 12 screws, tin-coated, coded; 4 units</li> <li>For AI, with 3 screws, gold-plated; 4 units</li> </ul> For CPU 1215FC, DC/DC/DC <ul style="list-style-type: none"> <li>For DI, with 20 screws, tin-coated; 4 units</li> <li>For DQ, with 12 screws, tin-coated; 4 units</li> <li>For AI, with 6 screws, gold-plated; 4 units</li> </ul> For CPU 1215FC, DC/DC/relay <ul style="list-style-type: none"> <li>For DI, with 20 screws, tin-coated; 4 units</li> <li>For DQ, with 12 screws, tin-coated, coded; 4 units</li> <li>For AI, with 6 screws, gold-plated; 4 units</li> </ul>	6ES7292-1AV30-0XA0 6ES7292-1AM30-0XA0 6ES7292-1BC30-0XA0 6ES7292-1AV30-0XA0 6ES7292-1AM40-0XA0 6ES7292-1BC30-0XA0 6ES7292-1AV30-0XA0 6ES7292-1AM30-0XA0 6ES7292-1BF30-0XB0 6ES7292-1AV30-0XA0 6ES7292-1AM40-0XA0 6ES7292-1BF30-0XB0	
<b>Front flap set (spare part)</b> for CPU 1214FC for CPU 1215FC	6ES7291-1AB30-0XA0 6ES7291-1AC30-0XA0	
<b>RJ45 cable grip</b> 4 units per pack Single port Dual port	6ES7290-3AA30-0XA0 6ES7290-3AB30-0XA0	
		<b>STEP 7 Safety Advanced V15.1</b> Task: Engineering tool for configuring and programming fail-safe user programs for SIMATIC S7-1200 FC, S7-1500F, S7-1500F Software Controller, S7-300F, S7-400F, WinAC RTX F, ET 200SP F Controller and the fail-safe ET 200SP, ET 200MP, ET 200S, ET 200M, ET 200iSP, ET 200pro and ET 200eco I/O Requirement: STEP 7 Professional V15.1 Floating license for 1 user; software and documentation on DVD; license key on USB flash drive Floating license for 1 user; software, documentation and license key for download <sup>1)</sup> ; email address required for delivery <b>STEP 7 Safety Basic V15.1</b> Task: Engineering tool for configuring fail-safe user programs for SIMATIC S7-1200 FC Requirement: STEP 7 Basic V15.1 and higher Floating license for 1 user; software and documentation on DVD; license key on USB flash drive Floating license for 1 user; software, documentation and license key for download <sup>1)</sup> ; email address required for delivery
		6ES7833-1FA15-0YA5 6ES7833-1FA15-0YH5 6ES7833-1FB15-0YA5 6ES7833-1FB15-0YH5

<sup>1)</sup> For up-to-date information and download availability, see: <http://www.siemens.com/tia-online-software-delivery>