

# SIMATIC S7 - 200 Micro PLC

## General

### Ordering

#### S7 - 200 ordering information

Model	Description	Order number	Price
<b>CPUs</b>			
CPU 221	24 VDC Power Supply, 6 x 24 VDC Inputs, 4 x 24 VDC Outputs 120/220 VAC Power Supply, 6 x 24 VDC Inputs, 4 x Relay Outputs	6ES7 211-0AA22-0XB0 6ES7 211-0BA22-0XB0	
CPU 222	24 VDC Power Supply, 8 x 24 VDC Inputs, 6 x 24 VDC Outputs 120/220 VAC Power Supply, 8 x 24 VDC Input, 6 x Relay Outputs	6ES7 212-1AB22-0XB0 6ES7 212-1BB22-0XB0	
CPU 224	24 V DC Power Supply, 14 x 24 VDC Inputs, 10 x 24 VDC Outputs 120/220 VAC Power Supply, 14 x 24 VDC Input, 10 x Relay Outputs	6ES7 214-1AD22-0XB0 6ES7 214-1BD22-0XB0	
CPU 226	24 V DC Power Supply, 24 x 24 VDC Inputs, 16 x 24 VDC Outputs 120/220 VAC Power Supply, 24 x 24 VDC Input, 16 x Relay Outputs	6ES7 216-2AD22-0XB0 6ES7 216-2BD22-0XB0	
CPU 226XM	24 V DC Power Supply, 24 x 24 VDC Inputs, 16 x 24 VDC Outputs 120/220 VAC Power Supply, 24 x 24 VDC Input, 16 x Relay Outputs	6ES7 216-2AF22-0XB0 6ES7 216-2BF22-0XB0	
Starter kits	Includes CPU, STEP7-Micro/WIN 32, S7-200 System Manual, Input Simulator, PC/PPI Cable, and promotional screwdriver. S7-221 AC/DC/RLY Starter Kit S7-221 DC/DC/DC Starter Kit S7-222 AC/DC/RLY Starter Kit S7-222 DC/DC/DC Starter Kit S7-224 AC/DC/RLY Starter Kit S7-224 DC/DC/DC Starter Kit S7-226 AC/DC/RLY Starter Kit S7-226 DC/DC/DC Starter Kit	6ES7-298-0AA30-0BA0T 6ES7-298-0AA35-0BA0T 6ES7-298-0AA31-0BA0T 6ES7-298-0AA36-0BA0T 6ES7-298-0AA32-0BA0T 6ES7-298-0AA37-0BA0T 6ES7-298-0AA33-0BA0T 6ES7-298-0AA38-0BA0T	
<b>Digital expansion</b>			
EM 221 Input	8 Points, 24 VDC Digital Input Module	6ES7 221-1BF22-0XA0	
EM 222 Output	8 Points, 24 VDC Digital Output Module, 8 Points, Relay Output Module	6ES7 222-1BF22-0XA0 6ES7 222-1HF22-0XA0	
EM 223 Combination	4 x 24 V DC Input and 4 x 24 V DC Outputs 4 x 24 V DC Input and 4 x Relay Outputs 8 x 24 V DC Input and 8 x 24 V DC Outputs 8 x 24 V DC Input and 8 x Relay Outputs 16 x 24 V DC Input and 16 x 24 V DC Outputs 16 x 24 V DC Input and 16 x Relay Outputs	6ES7 223-1BF22-0XA0 6ES7 223-1HF22-0XA0 6ES7 223-1BH22-0XA0 6ES7 223-1PH22-0XA0 6ES7 223-1BL22-0XA0 6ES7 223-1PL22-0XA0	
<b>Analog expansion</b>			
EM 231 Input	4 Input points, 12 Bit Resolution, 0-5V, 0-10V, +/-2.5 / 5V, or 0 to 20 mA	6ES7 231-0HC22-0XA0	
EM232 Output	2 Output points, 12 Bit Resolution, +/-10V or 0 to 20 mA	6ES7 232-0HB22-0XA0	
EM235 Combination	4 Input points & 1 output point Inputs, 12-bit resolution, 0-50/100/500/100Mv, +/-25/50/100/250/500mV, 0-5V, 0-10V, 0 to 20 mA, +/-2.5 / 5V, or +/-1/10V ranges Outputs, 12-bit Resolution, +/- 10 volts or 0 to 20 mA ranges	6ES7 235-0KD22-0XA0	
EM231 RTD Input	2 Input, Resistance Temperature Detector (RTD)	6ES7 231-7PB22-0XA0	
EM231 T/C Input	4 Input, Thermocouple (T/C)	6ES7 231-7PD22-0XA0	

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Model	Description	Order number	Price
<b>Communications</b>			
EM277 PROFIBUS-DP	PROFIBUS-DP Slave Module, 1 Port, 9.6 Kb to 12 Mb rates, 0 to 99 stations(Requires CPUs with firmware Release 1.1 or later, see above part numbers)	6ES7 277-0AA22-0XA0	
CP243-2 AS-Interface-Master	Communications Processor for connecting above listed CPUs to AS-Interface	6GK7 243-2AX01-0XA0	
EM241 Modem Module	Modem module connected to I/O bus system replaces need for external modems	6ES7 241-1AA22-0XA0	
CP243-1 Ethernet Module	Ethernet Module, 10/100Mbps/sec, Half or Full Duplex, Auto-detect, RJ45 connector, LED status lights, Uses Standard TCP/IP and S7 Services to communicate. Client and Server possible. PC connections possible using S7-OPC-Server.	6GK7243-1EX00-0XE0	
CP243-1 IT Web Module	Operator control and monitoring via integrated web server. Web servers (HTTP serves) with 8-Mbyte file system to store own web pages (HTML pages). Ready-made HTML pages for status, configuration and to display and write variables. Java beans to create own applets with a Java development environment. FTP server for file system access via network. It is used to load HTML pages to the CP. Access rights can be set for 8 users.	6GK7243-1GX00-0XE0	
<b>Motion</b>			
EM253 Position Module	Position Module ,12 to 200 KHz pulse output , up to 25 profiles w/4 speed changes per profile , S curve or linear acceleration/deceleration , 8 digital output, Absolute/Relative and Manual position control	6ES7 253-1AA22-0XA0	
<b>Software</b>			
STEP-7 Micro/WIN 32	STEP 7 Micro/WIN 32 V3.2 Single License, on CD STEP 7 Micro/WIN 32 V3.2 Upgrade License, on CD STEP 7 Micro/WIN 32 Add On Instruction Library, on CD STEP 7-Micro/WIN 32 TP Designer, on CD	6ES7 810-2BC02-0YX0 6ES7 810-2BC02-0YX3 6ES7 830-2BC00-0YX0 6ES7 850-2BC00-0YX0	
<b>Operator interfaces</b>			
TD200 Text Display	2-line x 20 character LCD display with 8 function keys. Includes cable. Powered from CPU, optional external supply available	6ES7 272-0AA20-0YA0	
Optional TD200 Power Supply	External Power Supply 120 VAC / 24VDC for TD200. Required only when the cable distance from PLC is greater than 8.2 ft (2.5m)	6ES7 705-0AA00-1BA0	
TP070 Touch Panel	Touch panel with 5.7" STN blue mode display. Requires external 24V power source. (SITOP or LOGO! power recommended.) Requires PPI cable for download of configuration from PC, and MPI cable for connection to CPU	6AV6 545-0AA15-2AX0	
TP070 Protective Membrane	Protective Membranes for the TP070 display (pack of 10)	6AV6 574-1AD00-4AX0	
TP070 Shield	Protective Shield for Nema 4 Protection (pack of 2)	6AV6 574-1AE00-4AX0	
<b>Memory cards</b>			
MC 291 EEPROM	Optional Memory Transfer Cartridge, EEPROM for the S7-22x CPU Units(Useful for transfer of the user Program Logic and the V-Memory)	6ES7 291-8GE20-0XA0	
MC 297 Clock/Calendar Cartridge	Optional Time of Day Clock / Calendar Cartridge, including 200 day Battery Backup for S7-22x CPU's	6ES7 297-1AA20-0XA0	
Battery Cartridge	Battery Cartridge for S7-22x CPUs. Extends data memory backup (200 days) beyond normal super cap holdup during power outage	6ES7 291-8BA20-0XA0	
<b>Manuals</b>			
S7-200 Manual	SIMATIC S7-200 System Manual for 22x CPUs & I/O	6ES7 298-8FA22-8BH0	
TD200 Manual	TD200 User Manual	6ES7 272-0AA20-8BA0	
TP070 Manual	TP070 User Manual	6AV6 591-1DC01-0AB0	

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Model	Description	Order number	Price
<b>Cables</b>			
PC/PPI Cable	Isolated PC/PPI Cable, 5m, converts RS232 (from PC) to RS485 (S7-200 CPU) multi-master	6ES7 901-3CB30-0XA0	
PC/PPI Cable	Isolated PC/PPI Cable, 5m, converts USB (PC) to RS485 (S7-200)	6ES7 901-3DB30-0XA0	
MPI Cable	MPI Cable, 5m, used to connect TP070 to S7-200 CPU	6ES7 901-0BF00-0AA0	
I/O Expansion Cable	22x CPU and I/O Bus expansion Cable, 0.8m. Only required when placing expansion modules non-adjacent to the CPU.	6ES7 290-6AA20-0XA0	
<b>Accessories</b>			
SIM 274 Input Simulators	8 Input Simulator Switches, for DC Inputs ONLY	6ES7 274-1XF00-0XA0	
	14 Input Simulator Switches, for DC Inputs ONLY	6ES7 274-1XH00-0XA0	
	24 Input Simulator Switches, for DC Inputs ONLY	6ES7 274-1XK00-0XA0	
SP1 SP2 SP3 SP4	Doors & Labels - 4 each, doors and Labels for 22x CPUs and Expansion I/O	6ES7 291-3AX20-0XA0	
	8pt. Connectors - 4 connectors for 8pt. I/O expansion modules	6ES7 292-1AD20-0AA0	
	16pt. Connectors - 4 connectors for 16pt. I/O expansion modules	6ES7 292-1AE20-0AA0	
	224 CPU Connectors - 4 connectors for 224 CPU	6ES7 292-1AG20-0AA0	
PROFIBUS Connectors	PROFIBUS connectors are also used with S7-200 for building custom cables (CPU networks, CPU to operator interface, etc.)		
	90 degree cable outlet without programming port	6ES7 972-0BA12-0XA0	
	90 degree cable outlet with programming port	6ES7 972-0BB12-0XA0	
	90 degree cable outlet without programming port, fast connect capable	6ES7 972-0BA50-0XA0	
	90 degree cable outlet with programming port, fast connect capable	6ES7 972-0BB50-0XA0	
	35 degree cable outlet without programming port	6ES7 972-0BA41-0XA0	
	35 degree cable outlet with programming port	6ES7 972-0BB41-0XA0	

Questions? Try our Microsystems Hotline 1-800-333-7421