Control technology a class of its own

SIMATIC S7-200

simatic s7-200

www.siemens.com/s7-200

SIEMENS

Communicative, modular, compact: So small – and so powerful

The Micro PLC SIMATIC S7-200 is truly in a class of its own: it's both compact and highly powerful – especially in relation to its real-time response – it's fast, features great communications options and comes with really easy-to-operate software and hardware.
But there's more to it than that: the Micro PLC SIMATIC S7-200 has a consistently modular design – for customized solutions which aren't too large for the present but open-ended enough to be expanded anytime in the future.
All this makes the SIMATIC S7-200 a real economic alternative in open-loop control for the lower performance range. For any applications in automation engineering that constantly depend on innovation and optimum customer benefit.

SIMATIC S7-200 delivers consistently economical solutions. The entire system family features
- powerful performance,
- optimum modularity and
- open communications.

In addition, the SIMATIC S7-200 programming tool makes your job even easier: the Micro PLC is very easy to program allowing fast and easy realization of applications – and the add-on libraries for the software accelerate and facilitate your work even more.
This Micro PLC has been in successful use in millions of applications around the world – in both stand-alone solutions and networks.

Find out for yourself what the SIMATIC S7-200 has to offer!

Open communication

- Integrated standard RS 485 interface with data transmission rates between 1.2 and 187.5 kbit/s
- PPI protocol functioning as system bus for trouble-free networking
- Programmable mode with user-specific protocols for any peripheral devices
- Fast connection to PROFIBUS via module as a slave
- Powerful to AS-Interface as a master
- Communications anywhere thanks to modem link (for remote maintenance, teleservice or telecontrol)
- Connection to Industrial Ethernet via Ethernet module
- With connection to the Internet by means of Internet module
- S7-200 PC ACCESS – OPC Server for simple connection to the PC environment

Powerful performance

- Small and compact – ideal for any applications where space is tight
- Integrated and comprehensive basic functionality in all CPU models
- Large memory
- Outstanding real-time response – being in total command of the entire process at any time means increased quality, efficiency and safety
- Easy to handle thanks to the user-friendly software STEP 7-Micro/WIN – ideal for both beginners and experts

Optimal modularity

- Systems engineering:
- 5 distinct CPUs in the performance range with comprehensive basic functionality and integrated Freeport communications interface
- A wide range of expansion modules for various functions:
  - Digital/analog expansions, scalable to specific requirements
  - PROFIBUS communications as a slave
  - AS-Interface communications as a master
  - Exact temperature measurement
  - Positioning
  - Remote diagnostics
  - Ethernet/Internet communications
  - SIWAREX MS weighing module
- HMI functions
- STEP 7-Micro/WIN software with Micro/WIN add-on library
- Compelling systems engineering – now featuring precise dimensioning and optimum solutions for a wide range of different requirements for one automation task

Fast, intelligent and well-planned: A system of endless possibilities

Tried and tested worldwide thanks to:
- Compact design
- High basic functionality
- Modular expansion options
- Integral RS 485 interface for use as system bus
- Excellent real-time behavior
- Extremely fast and precise process and sequence control
- Seamless control of time-critical processes by means of time interrupts
- Simple and user-friendly connection method thanks to removable terminal strips on the CPU and expansion modules – permanent wiring

Highlights
- Memory card for data logging, recipe management, saving of Micro/WIN project, storage of documentation in various formats
- PID auto-tune function
- 2 interfaces onboard for extended communication options, e.g. with other manufacturers' devices (CPU 224 XP, CPU 226)
- CPU 224 XP with integral analog inputs/outputs

	CPU 221	CPU 222	CPU 224
CPUs	6/4 inputs/outputs	8/6 inputs/outputs (I/O) + max. 2 modules = 78 I/Os	14/10 inputs/outputs (I/O) + max. 7 modules = 168 I/Os
Digital and analog expansions	Input modules	Output modules	Input/output modules
Specific expansions	RTD temperature measurement	TC temperature measurement	SIWAREX MS weighing module
Communication	AS-Interface master CP 243-2 max. 2 modules	PROFIBUS DP slave EM 277	Ethernet module CP 243-1 max. 1 module
Operating and monitoring	TD 100C	TD 200/TD 200C	TD 400C

Facts, facts, facts: Analog expansions

Technical data:					
Analog I/O modules	**EM 231[1]**	**EM 231**	**EM 232[1]**	**EM 232**	**EM 235[1]**
Number of inputs/outputs	4 AI	8 AI	2 AO	4 AO	4 AI & 1 AO
Number of inputs	4	8	–	–	4
Input type	0–10 V/0–20 mA	0–10 V/0–20 mA	–	–	0–10 V/0–20 mA
Voltage ranges	0–10 V, 0–5 V, +/–5 V, +/–2,5 V	0–10 V, 0–5 V, +/–5 V, +/–2,5 V (Ch 0 – 5) 0–10 V, 0–5 V, +/–5 V, +/–2,5 V, 0–20 mA (Ch 6 – 7)	–	–	0–10 V, 0–5 V
Resolution	12 bit	12 bit	–	–	12 bit
Isolation	no	no	–	–	no
Number of outputs	–	–	2	4	1
Output type	–	–	+/–10 V, 0–20 mA	+/–10 V, 0–20 mA	+/–10 V, 0–20 mA
Resolution	– –	– –	12 bit volt., 11 bit current	12 bit volt., 11 bit current	12 bit volt., 11 bit current
Isolation	–	–	no	no	no
Removable terminal strip	no	no	no	no	no
Dimensions (W x H x D in mm)	71,2 x 80 x 62	71,2 x 80 x 62	46 x 80 x 62	71,2 x 80 x 62	71,2 x 80 x 62

Temperature measurement modules	**EM 231 TC Thermocouples**	**EM 231 TC Thermocouples**	**EM 231 RTD resistance-type sensors[1]**	**EM 231 RTD resistance-type sensors**
Number of inputs/outputs	4 AI	8 AI	2 AI	4 AI
Number of inputs	4	8	2	4
Input type	Thermocouples Type S, T, R, E, N, K, J Voltage +/–80 mV	Thermocouples Type S, T, R, E, N, K, J Voltage +/–80 mV	Pt 100, 200, 500, 1000 ohm, Pt 10.000, Ni 10, 120, 1000 ohm, R 150, 300, 600 ohm	Pt 100, 200, 500, 1000 ohm, Pt 10.000, Ni 10, 120, 1000 ohm, R 150, 300, 600 ohm
Resolution	15 bit + sign	15 bit + sign	15 bit + sign	15 bit + sign
Isolation	500 V AC	500 V AC	500 V AC	500 V AC
Cold-junction compensation	yes	yes	not nec.	not nec.
Wiring	two-wire	two-wire	two-, three- or four-wire	two-, three- or four-wire
Max. wire length to sensor	100 m	100 m	100 m	100 m
Removable terminal strip	no	no	no	no
Dimensions (W x H x D in mm)	71,2 x 80 x 62	71,2 x 80 x 62	71,2 x 80 x 62	71,2 x 80 x 62

Temperature values in Centigrade or degrees Fahrenheit are available in the program as values with one decimal place.

1) as SIPLUS component also for extended temperature range –25...+70 °C and aggressive atmospheres/condensation (www.siemens.com/siplus)

Technical data:		
Positioning module EM 253		
Number of inputs	5 points (RP, LMT–, LMT+, ZP, STP)	
Type of inputs	active high/active low (IEC Type 1 sink, except ZP)	
Number of integrated outputs	6 points (4 signals)	
Type of outputs P0+, P0–, P1+, P1– P0, P1+, DIS, CLR	 RS -422-driver Open drain	
Switching frequency P0+, P0–, P1+, P1–	 200 kHz	
Power supply: L + supply voltage Logic output voltage L + supply current VS, 5 V DC load Load current 0 mA (no load) 200 mA (rated load)	 11 to 30 V DC +5 V DC +/–10%, max. 200 mA <u>12-V-DC-input</u> 120 mA 300 mA	 <u>24-V-DC-input</u> 70 mA 130 mA
Dimensions (W x H x D in mm)	71,2 x 80 x 62	
Weight	0.190 kg	
Dissipation	2.2 W	
V-DC-requirements +5 V DC +24 V DC	 190 mA 70 mA	

SIWAREX MS weighing module	
Communication interfaces	SIMATIC S7 bus, RS 232, TTY
Measuring properties • Fault limit acc. to DIN 1319-1 of the measuring range end value at 20° ±10 K • Internal resolution data format of weight values	 0,05 % 65,535 2 byte (fixed point)
Number of measurements/second	50 or 30
Load cells	DMS in 4- oder 6-conductor technology
Load cell identifier	1 mV/V up to 4mV/V
Max. distance of load cells	500 m
Ex approvals and safety	CE, ATEX 100, FM, UL, cULus Haz. Loc.s
Degree of protection acc. to DIN EN 60529; IEC 60529	IP20

Facts, facts, facts:
Human Machine Interface

Technical data:		
Operator panels	**TD 100C**	**TD 200[2]**
Display	Reflective LC display	Backlit LC display
Number of lines	4	2
Characters per line (max.)	16 (ASCII/Cyrillic), 8 (Chinese)	20 (ASCII/Cyrillic), 10 (Chinese)
Resolution	132 x 65 pixels	181 x 33 pixels
Operator controls	Membrane keyboard	Membrane keyboard
Function keys (programmable)	14 user-configurable	8
System keys	6	5
Memory integrated (usable memory for user data)	User data on CPU	User data on CPU
Interfaces	1 PPI (RS 485) for setup of a network with max. 126 nodes	1 PPI (RS 485) for setup of a network with max. 126 nodes
Functionality		
Signals (freely definable signal classes)	40	80
Signal buffer (number of entries)	–	–
Mimic diagrams	32	64
Variables	208	864
Graphics objects	–	–
Numeric/alphabetic input	• / –	• / –
Password	•	•
Online languages	1	5
Bar charts (pixel graphics)	–	•
Degree of protection (front/rear)	IP 65, UL 50 Type 4X (when built in) / IP 20	IP 65, UL 50 Type 4X (when built in) / IP 20
Dimensions		
Front panel (W x H in mm)	89,6 x 76	148 x 76
Depth of device in mm	35,7 (max. 44 with fittings)	28
Certification	CE, cULus, FM, C-Tick, ATEX	CE, cULus, FM, C-Tick, ATEX
Supply voltage	24 V DC (from S7-200)	24 V DC
Ambient conditions Operating temperature • vertical mounting • max. angle of inclination Transport/storage temperature	 0 °C to 60 °C 0 °C to 60 °C –20 °C to 60 °C	 0 °C to 60 °C 0 °C to 60 °C –20 °C to 60 °C
Weight	0.26 lb	0.42 lb
Configuration/programming	Micro/WIN 4.0 SP2	Micro/WIN 4.0

1) MTBF for backlighting (at 25 °C): OP 73micro about 100,000 h, TP 177micro about 50,000 h
2) as SIPLUS component also for extended temperature range –25…+70 °C and aggressive atmospheres/condensation (www.siemens.com/siplus)

• possible
– not possible

TD 200C	TD 400C	OP 73micro	TP 177micro
Backlit LC display	Backlit LC display	LC display 3"[1]	LC display 5.7", STN, Blue Mode, 4 blue stages[1]
2	4	–	–
20 (ASCII/Cyrillic), 10 (Chinese)	32 (ASCII/Cyrillic), 16 (Chinese)	–	–
181 x 33 pixels	192 x 64 pixels	160 x 48 pixels	320 x 240 pixels (240 x 320 pixels for vertical configuration of TP 177micro)
Membrane keyboard	Membrane keyboard	Membrane keyboard	Touch screen
20 freely configurable	15 freely configurable	4	–
7	7	8	–
User data on CPU	User data on CPU	128 KB Flash	256 KB Flash
1 PPI (RS 485) for setup of a network with max. 126 nodes	1 PPI (RS 485) for setup of a network with max. 126 nodes	1 x RS 485	1 x RS 485
80	80	250	500
–	–	128 (no battery backup)	128 (no battery backup)
64	64	250	250
864	864	500	250
icons	icons	bitmaps / icons / background images	bitmaps / icons / background images
• / –	• / –	• / •	• / •
•	•	•	•
5	5	5	5
•	•	•	•
IP 65, UL 50 Type 4X (when built in) / IP 20	IP 65 (when built in) / IP 20	IP 65 (when built in), NEMA 4, NEMA 4X, NEMA 12 / IP 20	IP 65 (when built in), NEMA 4, NEMA 4X, NEMA 12 / IP 20
148 x 76	174 x 102	154 x 84	212 x 156
28	31	27	42
CE, cULus, FM, C-Tick, ATEX	CE, cULus, C-Tick	CE, cULus, C-Tick	CE, cULus, FM, C-Tick, ATEX
24 V DC	24 V DC	24 V DC	24 V DC
0 °C to 60 °C 0 °C to 60 °C –20 °C to 60 °C	0 °C to 50 °C 0 °C to 50 °C –20 °C to 60 °C	0 °C to 50 °C 0 °C to 40 °C –20 °C to 60 °C	0 °C to 50 °C 0 °C to 40 °C –20 °C to 60 °C
0.44 lb	0,31 kg	0.66 lb	1.54 lb
Micro/WIN 4.0	Micro/WIN 4.0 SP6	from WinCC flexible Micro	from WinCC flexible Micro

Facts, facts, facts:
The communications module

Technical data		
Communications module	**EM 277 PROFIBUS DP module[1]**	**CP 243-2 AS-i master module**
Interface	1 communications interface RS 485	AS-Interface
Supported protocols:	– MPI slave – PROFIBUS DP slave	AS-Interface
Transmission rate	9,600 baud up to 12 Mbaud adaptive	– max. 5 ms cycle time with 31 slaves – max. 10 ms cycle time with 62 slaves
Connectable stations:	– Text display TD 200, V2.0 or later – Operator panels, touch panels – PG/PC with MPI interface (CPU download/ status via Micro/WIN possible) – CPU S7-300/400 – PROFIBUS DP master or slaves	max. 62 AS-Interface slaves
Status displays	CPU error, power, DP error, DX mode	Status displays for slaves, error displays
Station address	Adjustable on module (0–99)	Not necessary
Galvanic isolation	500 V AC	no
Max. cable length (without repeater)	1200 m (at 93,75 kbaud)	100 m
Removable terminal strip	no	yes
Dimensions (W x H x D in mm)	71 x 80 x 62	71.2 x 80 x 62
Weight in g	175 g	210 g
Dissipation in W	2.5	1.8

Modem communication modules	**EM 241 modem module**	**SINAUT MD 720-3[2]**
	Phone connection:	GPRS/GSM modem
Isolation (phone line against Logic and ...)	1500 V AC (galvanic)	–
Cable connector	RJ11 (6 points, 4-wire)	SMA/50 ohm (antenna) RS 232, jack: D-SUB 9-pin
Modem standards	Bell 103, Bell 212, V.21, V.22, V.22 bis, V.23c, V.32, V.32 bis, V.34 (standard)	GPRS/CSD/quadband 850/900/1800/1900 MHz V.24/V.28 (standard)
Safety features	Password, callback	–
Calling method	Pulse or tone dialing	–
Messaging protocols (SMS)	Numerical TAP (alphanumeric) UCP commands 1, 30, 5	SMS/AT commands –
Industrial standard protocols	Mode RTU, PPI, integrated functions for data exchange	–
Dimensions (W x H x D in mm)	71.2 x 80 x 62	114 mm x 22.5 mm x 99 mm
Weight	0.190 kg	0.150 kg
Dissipation	2.1 W	5.5 W
V-DC requirements +5 V DC +24 V DC	 80 mA 70 mA	12–30 V DC (24 V DC nominal)

1) as SIPLUS component also for extended temperature range –25...+70 °C and aggressive atmospheres/condensation (www.siemens.com/siplus)
2) Quadband antenna ANT 794-4MR required

Ethernet communications modules	CP 243-1	CP 243-1 IT
Transmission rate	10/100 Mbit/s	10/100 Mbit/s
Interfaces (connection Industrial Ethernet)	RJ45	RJ45
Supply voltage	24 V DC	24 V DC
Power consumption via backplane/via 24 V DC external	55 mA / 60 mA	55 mA / 60 mA
Dissipation 24 V DC	1.75 W	1.75 W
Dimensions (W x H x D in mm)	71.2 x 80 x 62	71.2 x 80 x 62
Weight	150 g	150 g
S7/PG communication		
Number of operable connections	8 S7 connections + 1 PG connection	8 S7 connections + 1 PG connection
Configuration	With STEP 7-Micro/WIN (V3.2 SP1 or later)	With STEP 7-Micro/WIN (V3.2 SP3 or later)
IT communications		
Number of connections to an E-mail server	–	1
E-mail client	–	32 E-mails with max. 1024 characters
Number of FTP/HTTP connections	–	1/4
Adjustable access protection	–	8 users
Memory capacity of the file system	–	8 MByte

Facts, facts, facts: Ordering data

Product	Order No.
CPUs	
CPU 221 DC/DC/DC (not expandable)	6ES7 211-0AA23-0XB0
CPU 221 AC/DC/relay (not expandable)	6ES7 211-0BA23-0XB0
CPU 222 DC/DC/DC	6ES7 212-1AB23-0XB0
CPU 222 AC/DC/relay	6ES7 212-1BB23-0XB0
CPU 224 DC/DC/DC	6ES7 214-1AD23-0XB0
CPU 224 AC/DC/relay	6ES7 214-1BD23-0XB0
CPU 224XP DC/DC/DC	6ES7 214-2AD23-0XB0
CPU 224XP AC/DC/relay	6ES7 214-2BD23-0XB0
CPU 224XPsi DC/DC/DC (current-sinking digital outputs)	6ES7 214-2AS23-0XB0
CPU 226 DC/DC/DC	6ES7 216-2AD23-0XB0
CPU 226 AC/DC/relay	6ES7 216-2BD23-0XB0
Expansion modules	
Digital and analog expansions	
Input module 8 x DI 24 V DC	6ES7 221-1BF22-0XA0
Input module 8 x DI 120 / 230 V	6ES7 221-1EF22-0XA0
Input module 16 x DI 24 V DC	6ES7 221-1BH22-0XA0
Output module 8 x DO 24 V DC	6ES7 222-1BF22-0XA0
Output module 8 x DO relay	6ES7 222-1HF22-0XA0
Output module 8 x DO 120 / 230 V	6ES7 222-1EF22-0XA0
Output module 4 x DO 24 V DC 5 A	6ES7 222-1BD22-0XA0
Output module 4 x DO relay 10 A	6ES7 222-1HD22-0XA0
Input/output module 4 x DI 24 V DC / 4 x DO 24 V DC	6ES7 223-1BF22-0XA0
Input/output module 4 x DI 24 V DC / 4 x DO relay	6ES7 223-1HF22-0XA0
Input/output module 8 x DI 24 V DC / 8 x DO 24 V DC	6ES7 223-1BH22-0XA0
Input/output module 8 x DI 24 V DC / 8 x DO relay	6ES7 223-1PH22-0XA0
Input/output module 16 x DI 24 V DC / 16 x DO 24 V DC	6ES7 223-1BL22-0XA0
Input/output module 16 x DI 24 V DC / 16 x DO relay	6ES7 223-1PL22-0XA0
Input/output module 32 x DI 24 V DC / 32 x DO 24 V DC	6ES7 223-1BM22-0XA0
Input/output module 32 x DI 24 V DC / 32 x DO relay	6ES7 223-1PM22-0XA0
Analog input module 4 AI 12 bit	6ES7 231-0HC22-0XA0
Analogeingangsmodul 8 AE 12 bit	6ES7 231-0HF22-0XA0
Analog output module 2 AO 12 bit	6ES7 232-0HB22-0XA0
Analogausgangsmodul 4 AA 12 bit	6ES7 232-0HD22-0XA0
Analog input/output module 4 AI / 1 AO 12 bit	6ES7 235-0KD22-0XA0

Product	Order No.
Specific expansions	
Analog input module RTD, 2 AI, PT100/200/500/1000, Ni100/120/1000, Cu10, resist. 150/300/600 ohm, 16 bit	6ES7 231-7PB22-0XA0
Analog input module RTD, 4 AE, PT100/200/500/1000, Ni100/120/1000, Cu10, Wdst. 150/300/600 Ohm, 16 bit	6ES7 231-7PC22-0XA0
Analog input module TC, 4 AI, ± 80 mV and thermocouples, type J, K, S, T, R, E, N, 16 bit	6ES7 231-7PD22-0XA0
Analog input module TC, 8 AE, ± 80 mV and thermocouples, Typ J, K, S, T, R, E, N, 16 bit	6ES7 231-7PF22-0XA0
Positioning expansion module (EM)[1], 200 kHz, for controlling stepper motors or servo drives, open-loop control, parameterization via Micro/WIN	6ES7 253-1AA22-0XA0
SIWAREX MS Micro Scale weighing module	7MH4930-0AA01
Communication	
PROFIBUS DP module EM 2771	6ES7 277-0AA22-0XA0
AS-Interface Master-Modul CP 243-2	6GK7 243-2AX01-0XA0
Modem EM[1], modem expansion module for analog telephone networks for remote control centers, signaling, CPU-to-CPU, CPU-to-PC communication	6ES7 241-1AA22-0XA0
Industrial Ethernet CP 243-1, S7-200 interface to Industrial Ethernet	6GK7 243-1EX00-0XE0
Industrial Ethernet CP 243-1-IT; function same as CP 243-1 in addition: FTP, e-mail, HTML	6GK7 243-1GX00-0XE0
GPRS modem SINAUT MD 720-3	6NH9720-3AA00
Antenna ANT 794-4 MR	6NH9860-1AA00
Manuals	
S7-200 system manual	6ES7 298-8FA24-8AH0
OP 73micro/TP 177micro operating instructions	6AV6 691-1DF01-0AA0
User manual, WinCC flexible Micro	6AV6 691-1AA01-0AA0
CP 243-2 communications processor manual	6GK7 243-2AX00-8AA0

Product	Order No.
HMI	
TD 100C text display with individual user interface 4-line, and fitting accessories, 187.5 kbaud	6ES7 272-1BA10-0YA0
TD 200 text display, 2 lines with cable (2.5 m) and fitting accessories, 187.5 kbaud	6ES7 272-0AA30-0YA0
TD 200C text display with individual user interface, 2 lines with cable (2.5 m) and fitting accessories, 187.5 kbaud	6ES7 272-1AA10-0YA0
TD 400C text display with customized operator interface, 4 lines with cable (2.5 m) and fitting accessories, 187.5 kbaud	6AV6 640-0AA00-0AX1
OP 73micro, operator panel, pixel graphics 3" display, configurable with WinCC flexible Micro	6AV6 640-0BA11-0AX0
TP 177micro, touch panel, pixel graphics 5.7" display, configurable with WinCC flexible Micro	6AV6 640-0CA11-0AX0
Accessories	
Battery module	6ES7 291-8BA20-0XA0
Data logger cartridge, 64 KB (from CPU ... 23 0XB0)	6ES7 291-8GF23-0XA0
Data logger cartridge, 256 KB (from CPU ... 23 0XB0))	6ES7 291-8GH23-0XA0
Clock module, incl. battery (221, 222 from ... 23 0XB0)	6ES7 297-1AA23-0XA0
Extension cable for expansion module, 0.8 m	6ES7 290-6AA20-0XA0
PC/PPI cable, RS 232/485 cable for PC/laptop/ modem/xxx to S7-200, max. 187.5 kbit/s, Multimaster, ASCII, Freeport	6ES7 901-3CB30-0XA0
PC/PPI cable, USB/485 cable for PC/laptop to S7-200, max. 187.5 kbit/s, Multimaster	6ES7 901-3DB30-0XA0
MPI cable	6ES7 901-0BF00-0AA0
TD 100C connecting cable to CPU	6ES7 901-3EB10-0XA0
SITOP smart 24 V / 2.5 A (3 A up to +45 °C)	6EP1 332-2BA10
SITOP smart 24 V / 5 A (6 A up to +45 °C)	6EP1 333-2AA01
SITOP smart 24 V / 10 A (12 A up to +45 °C)	6EP1 334-2AA01
Blank template sheets for the front panel of the TD 100C (DIN A4, 10 sheets, each with 6 templates, perforated)	6ES7 272 1BF00 7AA0
Blank template sheets for the front panel of the TD 200C (DIN A4, 10 sheets, each with 3 templates, perforated)	6ES7 272-1AF00-7AA0
Blank template sheets for the front panel of the TD400C (DIN A4, 10 sheets each with 2 templates, perforated)	6AV6 671-0AP00-0AX0
SIWATOOL connecting cable between SIWAREX MS and PC	7MH4 702-8CA
Grounding terminal for MS module, 10 pcs./unit	6ES5 728-8 MA11

Product	Order No.
Software	
STEP 7-Micro/WIN programming software, V4 for Win 2000, XP, 6 languages, incl. documentation on CD; single-user license	6ES7 810-2CC03-0YX0
STEP 7-Micro/WIN programming software, V4 for Win 2000, XP, 6 languages, incl. documentation on CD; upgrade from Micro/DOS and Micro/WIN Vx.x to V4	6ES7 810-2CC03-0YX3
STEP 7-Micro/WIN add-on Instruction library V1.1, control of drives (USS protocol) and data transmission via Modbus protocol, for STEP 7-Micro/WIN, V4	6ES7 830-2BC00-0YX0
WinCC flexible 2004 Micro: Single license on CD-ROM, without authorization: Engineering software for the configuration of the micro panels OP 73micro, and TP 177micro	6AV6 610-0AA01-2CA8
S7-200 PC Access V1.0 (OPC sserver) (single license)	6ES7 840-2CC01-0YX0
S7-200 PC Access V1.0 (OPC server) (multi-copy license –15)	6ES7 840-2CC01-0YX1
SIWAREX MS configuration software	7MH4 930-0AK01
SINAUT Micro SC (license for 8 stations)	6NH9910-0AA10-0AA3
SINAUT Micro SC (license for 64 stations)	6NH9910-0AA10-0AA6
SINAUT Micro SC (license for 256 stations)	6NH9910-0AA10-0AA8
Complete systems	
SIMATIC S7-200 entry-level box with CPU 222, software STEP 7-Micro/WIN, V4 on CD incl. manual, 1-hour manual, PC/PPI data transmission cable, simulator, motor module	6ES7 298-0AA20-0AA3
Starter pack OP 73micro (OP 73micro, WinCC flexible Micro, manual collection on CD-ROM, MPI cable 5 m)	6AV6 650-0BA01-0AA0
Starter pack TP 177micro (TP 177micro, WinCC flexible Micro, manual collection on CD-ROM, MPI cable 5 m)	6AV6 650-0DA01-0AA0

Further information ...

... about SIMATIC S7-200
on the Internet: www.siemens.com/s7-200
• Command list (Quick Reference Card)
• Tips & tricks
• Demo software
• Free software updates
• Download manuals

... about SIPLUS extreme –
Ruggedizing and refining
on the Internet: www.siemens.com/siplus
– Extended temperature range
– Protection against aggressive atmospheres/condensation

... about SIMATIC panels
on the Internet: www.siemens.com/panels

... about Micro Automation
on the Internet: www.siemens.com/microset

... about SITOP
on the Internet: www.siemens.com/sitop

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