

SIEMENS



Product overview for SIMATIC ET 200MP

TIA Selection Tool Web



SIMATIC ET 200MP

The modular IO system for SIMATIC S7-1500

SIMATIC ET 200MP is a modular and scalable distributed I/O system with high channel density and low parts variance.

SIMATIC ET 200 MP is approved for degree of protection IP20 and designed for installation in a control cabinet. It is used both as central I/O for the Advanced Controller S7-1500 as well as in distributed systems.

<http://www.siemens.com/et200mp>

Highlights

Easy cabling and tool-free setup make for quick and simple station setup

- Tool-free cabling with push-in terminal.
- Shielding terminal for analog signals.
- Tool-free setup of the station.
- Low parts variance of the modules.

Technology modules offer hardware-level signal pre-processing for:

- Applications with artificial intelligence.
- Fast counting.
- Measurement and position detection for different encoders.
- Energy management.
- Weighing and dosing tasks.

Fail-safe modules can be plugged or retrofitted to reduce engineering work or hardware

- One control system, one engineering, one communication for standard and fail-safe automation.
- SIL 3 with Safety DI / DQ modules.
- SIL 2 with Standard AQ / DQ via safe group shutdown.

Integrated diagnostics ensures quick error localization

- Uniform display at the module.
- 1:1 assignment LED to channel.
- Quick troubleshooting using the display of the S7-1500.

Robust against external interferences

- Consistent shielding concept with direct shielding of the analog signals at the module.
- Separation of signal cables and 24 V DC supply cables.

High flexibility through covering various functions

- Digital and analog inputs/outputs.
- CPUs with full S7-1500 functionality.
- Motor starters for drives.

Interface modules



	Article number
ET 200MP, IM 155-5 PN BA	6ES7155-5AA00-0AA0
ET 200MP, IM 155-5 PN ST	6ES7155-5AA01-0AB0
ET 200MP, IM 155-5 PN HF	6ES7155-5AA00-0AC0
ET 200MP, IM155-5 DP ST	6ES7155-5BA00-0AB0
SIPLUS	
SIPLUS ET 200MP IM155-5 DP ST	6AG1155-5BA00-2AB0
SIPLUS ET 200MP IM155-5 PN HF	6AG1155-5AA00-2AC0
SIPLUS ET 200MP IM 155-5 PN HF T1 RAIL	6AG2155-5AA00-1AC0
SIPLUS ET 200MP IM155-5 PN ST TX RAIL	6AG2155-5AA01-4AB0

Digital modules



	Article number
Digital input	
S7-1500, DI 32x24VDC HF	6ES7521-1BL00-0AB0
S7-1500, DI 32x24VDC BA	6ES7521-1BL10-0AA0
S7-1500, DI 16x24VDC HF	6ES7521-1BH00-0AB0
S7-1500, DI 16x24VDC BA	6ES7521-1BH10-0AA0
S7-1500, DI 16x24VDC HS	6ES7521-7BH00-0AB0
S7-1500, DI 16x230VAC BA	6ES7521-1FH00-0AA0
S7-1500, DI 16x24VDC SRC BA	6ES7521-1BH50-0AA0
S7-1500, DI 16 x 24...125V UC HF	6ES7521-7EH00-0AB0
S7-1500, DI 16XNAMUR HF	6ES7521-7TH00-0AB0
ET 200MP, F-DI 16x24VDC	6ES7526-1BH00-0AB0
S7-1500, DI 64x24VDC SNK/SRC BA	6ES7521-1BP00-0AA0
SIPLUS S7-1500 DI 16x230VAC BA	6AG1521-1FH00-7AA0
SIPLUS S7-1500 DI 16x24VDC HF	6AG1521-1BH00-7AB0
SIPLUS S7-1500 DI 16x24VDC SRC BA	6AG1521-1BH50-7AA0
SIPLUS S7-1500 DI 16x110VDC HF TX RAIL	6AG2521-7EH00-4AB0
SIPLUS S7-1500 DI 16x24VDC HF TX RAIL	6AG2521-1BH00-4AB0
SIPLUS S7-1500 DI 32x24VDC HF	6AG1521-1BL00-7AB0
SIPLUS S7-1500 DI 48VUC/125VDC HF	6AG1521-7EH00-7AB0
SIPLUS S7-1500 F-DI 16x24VDC	6AG1526-1BH00-2AB0
SIPLUS S7-1500 F-DI 16x24VDC T1 RAIL	6AG2526-1BH00-1AB0
Digital output	
S7-1500, DQ 32x24VDC/0.5A HF	6ES7522-1BL01-0AB0
S7-1500, DQ 32x24VDC/0.5A BA	6ES7522-1BL10-0AA0
S7-1500, DQ 16x24V DC/0.5A HF	6ES7522-1BH01-0AB0
S7-1500, DQ 16x24VDC/0.5A BA	6ES7522-1BH10-0AA0
S7-1500, DQ 8x24VDC/2A HF	6ES7522-1BF00-0AB0
S7-1500, DQ 8x230VAC/2A ST (Triac)	6ES7522-5FF00-0AB0
S7-1500, DQ 8x230VAC/5A ST (Relay)	6ES7522-5HF00-0AB0
S7-1500, DQ 16x230VAC/1A ST (Triac)	6ES7522-5FH00-0AB0
S7-1500, DQ 16x230VAC/2A ST (Relay)	6ES7522-5HH00-0AB0
S7-1500, DQ 16x24...48VUC/125VDC/0.5A ST	6ES7522-5EH00-0AB0
S7-1500, DQ 64x24VDC/0.3A BA	6ES7522-1BP00-0AA0
S7-1500, DQ 64x24VDC/0.3A SNK BA	6ES7522-1BP50-0AA0
ET 200MP, F-DQ 8x24VDC 2A PPM	6ES7526-2BF00-0AB0
SIPLUS S7-1500 16DQ 230VAC 1A ST TRIAC	6AG1522-5FH00-7AB0
SIPLUS S7-1500 16DQ 230VAC 2A RLY	6AG1522-5HH00-7AB0
SIPLUS S7-1500 DQ 16x24VDC/0.5A HF	6AG1522-1BH01-7AB0
SIPLUS S7-1500 DQ 16x110VDC ST TX RAIL	6AG2522-5EH00-4AB0
SIPLUS S7-1500 DQ 16x24VDC HF TX RAIL	6AG2522-1BH01-4AB0
SIPLUS S7-1500 DQ 16x48VUC/125VDC ST	6AG1522-5EH00-7AB0

 : Safety-related component

* By clicking on the article number, you will be taken to the product in the TIA Selection Tool cloud.

Digital modules

	Article number
SIPLUS S7-1500 DQ 32X24VDC/0.5A HF	6AG1522-1BL01-7AB0
SIPLUS S7-1500 DQ 8X230VAC/2A ST (TRIAC)	6AG1522-5FF00-7AB0
SIPLUS S7-1500 DQ 8X230VAC/5A ST (RELAY)	6AG1522-5HF00-2AB0
SIPLUS S7-1500 DQ 8X24VDC/2A HF	6AG1522-1BF00-7AB0
SIPLUS S7-1500 DQ 8x230VAC ST 5A T1 RAIL	6AG2522-5HF00-1AB0
SIPLUS S7-1500 F-DQ 8x24VDC/2A	6AG1526-2BF00-2AB0
SIPLUS S7-1500 F-DQ 8x24VDC 2A T1 RAIL	6AG2526-2BF00-1AB0
Digital inputs/outputs	
S7-1500, DI 16x24VDC/DQ 16x24VDC/0.5A BA	6ES7523-1BL00-0AA0
S7-1500, DI 32x24VDC/DQ 32x24VDC/0.3A BA	6ES7523-1BP50-0AA0

Analog modules

	Article number
	Analog input
	S7-1500, AI 8xU/I/RTD/TC ST
	S7-1500, AI 8xU/I HS
	S7-1500, AI 8 X U/R/RTD/TC HF
	S7-1500, AI 8xU/I HF
	S7-1500, AI 4xU/I/RTD/TC ST
	S7-1500, AI 8xU/I/R/RTD BA
	S7-1500, AI 16xU BA
	S7-1500, AI 16xI BA
	SIPLUS S7-1500 AI 8XU/I/RTD/TC ST
	SIPLUS S7-1500 AI 8XU/I HF
	SIPLUS S7-1500 AI 8XU/I HS
	SIPLUS S7-1500 AI 8 X U/R/RTD/TC HF
	SIPLUS S7-1500 AI 8xU/I/RTD/TC TX RAIL
	SIPLUS S7-1500 AI 8xU/I HS TX RAIL
	Analog output
	S7-1500, AQ 8xU/I HS
	S7-1500, AQ 4xU/I ST
	S7-1500, AQ 4xU/I HF
	S7-1500, AQ 2xU/I ST
	SIPLUS S7-1500 AQ 4XU/I ST
	SIPLUS S7-1500 AQ 4xU/I ST TX RAIL
	SIPLUS S7-1500 AQ 8XU/I HS
	Analog inputs/outputs
	S7-1500, AI 4x U/I/RTD/TC/AQ 2x U/I ST

Communication modules

	Article number
	S7-1500, CM PTP RS232 BA
	S7-1500, CM PTP RS422/485 BA
	S7-1500, CM PTP RS232 HF
	S7-1500, CM PTP RS422/485 HF
	S7-1500, CM 8xIO-Link
	SIPLUS
	SIPLUS S7-1500 CM PTP RS422/485 TX RAIL
	SIPLUS S7-1500 CM PtP RS232 BA
	SIPLUS S7-1500 CM PtP RS232 HF
	SIPLUS S7-1500 CM PtP RS232 HF TX RAIL
	SIPLUS S7-1500 CM PtP RS422/485 BA

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Communication modules

Article number

SIPLUS S7-1500 CM PtP RS422/485 HF

6AG1541-1AB00-7AB0

Technology modules

Article number



Counting

S7-1500, DI 16x24VDC HF	6ES7521-1BH00-0AB0
S7-1500, DI 16x24VDC HS	6ES7521-7BH00-0AB0
S7-1500, DI 32x24VDC HF	6ES7521-1BL00-0AB0
S7-1500, DI 16XNAMUR HF	6ES7521-7TH00-0AB0
S7-1500, TM PosInput 2	6ES7551-1AB01-0AB0
S7-1500, TM Timer DIDQ 16x24V	6ES7552-1AA00-0AB0
S7-1500, TM Count 2x24V	6ES7550-1AA01-0AB0
SIPLUS S7-1500 DI 16x24VDC HF	6AG1521-1BH00-7AB0
SIPLUS S7-1500 DI 16x24VDC HF TX RAIL	6AG2521-1BH00-4AB0
SIPLUS S7-1500 DI 32x24VDC HF	6AG1521-1BL00-7AB0
SIPLUS S7-1500 TM COUNT 2X24V	6AG1550-1AA01-7AB0
SIPLUS S7-1500 TM POSINPUT 2	6AG1551-1AB00-7AB0
SIPLUS S7-1500 TM TIMER DIDQ 16x24V RAIL	6AG2552-1AA00-4AB0

Power control / Pulse width modulation

S7-1500, DQ 8x24VDC/2A HF	6ES7522-1BF00-0AB0
S7-1500, TM Timer DIDQ 16x24V	6ES7552-1AA00-0AB0
SIPLUS S7-1500 DQ 8X24VDC/2A HF	6AG1522-1BF00-7AB0
SIPLUS S7-1500 TM TIMER DIDQ 16x24V RAIL	6AG2552-1AA00-4AB0

Weighing

SIWAREX WP521 ST WEIGHING ELECTRONIC	7MH4980-1AA01
SIWAREX WP522 ST WEIGHING ELECTRONIC	7MH4980-2AA01

Position detection

S7-1500, TM PosInput 2	6ES7551-1AB01-0AB0
S7-1500, TM Count 2x24V	6ES7550-1AA01-0AB0
SIPLUS S7-1500 TM COUNT 2X24V	6AG1550-1AA01-7AB0
SIPLUS S7-1500 TM POSINPUT 2	6AG1551-1AB00-7AB0

Stepper motor control

S7-1500, TM PTO4	6ES7553-1AA00-0AB0
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Oversampling

S7-1500, AI 8xU/I HS	6ES7531-7NF10-0AB0
S7-1500, AQ 8xU/I HS	6ES7532-5HF00-0AB0
S7-1500, TM Timer DIDQ 16x24V	6ES7552-1AA00-0AB0
SIPLUS S7-1500 AI 8XU/I HS	6AG1531-7NF10-7AB0
SIPLUS S7-1500 AI 8xU/I HS TX RAIL	6AG2531-7NF10-4AB0
SIPLUS S7-1500 AQ 8XU/I HS	6AG1532-5HF00-7AB0
SIPLUS S7-1500 TM TIMER DIDQ 16x24V RAIL	6AG2552-1AA00-4AB0

Cam controller

S7-1500, TM Timer DIDQ 16x24V	6ES7552-1AA00-0AB0
SIPLUS S7-1500 TM TIMER DIDQ 16x24V RAIL	6AG2552-1AA00-4AB0

Time-based IO

S7-1500, TM Timer DIDQ 16x24V	6ES7552-1AA00-0AB0
SIPLUS S7-1500 TM TIMER DIDQ 16x24V RAIL	6AG2552-1AA00-4AB0

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System power supplies



	Article number
S7-1500, PS 25W 24V DC	6ES7505-0KA00-0AB0
S7-1500, PS 60W 24/48/60V DC	6ES7505-0RA00-0AB0
S7-1500, PS 60W 24/48/60V DC HF	6ES7505-0RB00-0AB0
S7-1500, PS 60W 120/230V AC/DC	6ES7507-0RA00-0AB0
SIPLUS	
SIPLUS S7-1500 PS 25W 24V DC	6AG1505-0KA00-7AB0
SIPLUS S7-1500 PS 60W 120/230V AC/DC	6AG1507-0RA00-7AB0
SIPLUS S7-1500 PS 60W 24/48/60V DC	6AG1505-0RA00-7AB0

Load current supplies



	Article number
SIMATIC PM1507/1AC/24VDC/3A	6EP1332-4BA00
SIMATIC PM1507/1AC/24VDC/8A	6EP1333-4BA00
SIPLUS	
SIPLUS S7-1500 PM 1507 24V/3A	6AG1332-4BA00-7AA0
SIPLUS S7-1500 PM 1507 24V/8A	6AG1333-4BA00-7AA0

Slot protector



	Article number
Slot Cover Active Backplane S7-1500	6ES7590-0CA00-0AA0

Accessories



	Article number
Front connector	
Frontconnector Screw Type (35mm Mod.)	6ES7592-1AM00-0XB0
Frontconnector Push-in (35mm Mod.)	6ES7592-1BM00-0XB0
Frontconnector Push-in (25mm Mod.)	6ES7592-1BM00-0XA0
Front door	
Universal Front Door S7-1500 IO (35mm)	6ES7528-0AA00-7AA0
Universal Front Door S7-1500 IO(25mm)	6ES7528-0AA00-0AA0
Universal Front Door IM155-5	6ES7528-0AA70-7AA0
Labeling sheets	
Labeling Sheets S7-1500, AL grey	6ES7592-2AX00-0AA0
Labeling Sheets S7-1500, AL grey	6ES7592-1AX00-0AA0
Miscellaneous	
Grounding Element (20pcs.)	6ES7590-5AA00-0AA0
U-Type-Connector S7-1500 (Spare Part)	6ES7590-0AA00-0AA0
Shielding Set f. S7-1500 25mm Modules	6ES7590-5CA10-0XA0

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Accessories

	Article number
Shielding Set f. S7-1500 35mm Modules	6ES7590-5CA00-0AA0
Connector Plug for Power Supply (PS/PM)	6ES7590-8AA00-0AA0
Shielding Terminal S7-1500 Periphery	6ES7590-5BA00-0AA0
Jumpers (35mm Mod.)	6ES7592-3AA00-0AA0
Repeater RS485 f. PROFIBUS/MPI	6ES7972-0AA02-0XA0
Diagnostic repeater f. PROFIBUS-DP,	6ES7972-0AB01-0XA0
SIPLUS Diagnose-Repeater fuer Profibus	6AG1972-0AB01-4XA0
SIPLUS DP RS485-Repeater	6AG1972-0AA02-7XA0
SIPLUS S7-1500 U-Verbinder	6AG1590-0AA00-7AA0
Accessories M8, M12	
AS-INTERFACE, BLANK PLUG	3RK1901-1KA00
M12 PROFIBUS SOCKET ANGLED	3RK1902-4HB15-5AA0
M12 PROFIBUS SOCKET ANGLED	3RK1902-4HB50-5AA0
M12 PROFIBUS SOCKET ANGLED	3RK1902-4HC01-5AA0
M12 - M12 CABLE 1.5M 3 POLE	3RK1902-4PB15-3AA0
ET200, Y Cable	6ES7194-6KA00-0XA0
Conn. Cable IO-Link, 2 X M12-4pin, 5m	6GT2891-4MH50
Conn. Cable IO-Link, 2 X M12-4pin, 10m	6GT2891-4MN10
Control Cable 5 core cable sold by meter	6XV1801-2C
Control Connecting Cable M12/M12, 0,5m	6XV1801-2CE50
Control Connecting Cable M12/M12, 1,0m	6XV1801-2CH10
Control Connecting Cable M12/M12, 1,0m	6XV1801-2CH15
Control Connecting Cable M12/M12, 2,0m	6XV1801-2CH20
Control Connecting Cable M12/M12, 3,0m	6XV1801-2CH30
Control Connecting Cable M12/M12, 5,0m	6XV1801-2CH50
Control Connecting Cable M12/M12, 10,0m	6XV1801-2CN10
Control Connecting Cable M12/M12, 15,0m	6XV1801-2CN15
Control M12 Cable Connector PRO	6GK1908-0DC10-6AA0

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