

# Siemens SIMATIC S5



## SYSTEMS FOR CONTROL AND MONITORING OPERATOR PANELS

DESIGNATION		PART NUMBER
INDUSTRIAL KEYBOARDS	TF1: 16 keys with LED	6AV1 902-0AA00
	TF2: 20 keys with LED	6AV1 902-0AB00
	TF3: 24 keys with LED	6AV1 902-0AC00
TEXT DISPLAYS	TD1/220-5	6AV1 142-0BA10
	TD1/240-5	6AV1 142-0DA10
	TD1/240-8	6AV1 142-0DB10
	TD2/240-5	6AV1 142-1DA10
	TD2/240-8	6AV1 142-1DB10
OPERATOR PANELS	OP1/220-5	6AV1 132 0BA10
	OP1/240-5	6AV1 132-0DA10
	OP1/240-8	6AV1 132-0DB10
OPERATOR PANELS	MP6	12 11 03 022 100
	MP6	13 12 06 022 100
	MP 12A-527	6AV1 122-1AA00
	MP 12A-DIM	6AV1 122-1AB00
	MP 12A-470	6AV1 122-1AC00
	MP 14B-527	6AV1 122-1BA00
	MP 14B-470	6AV1 122-1BC00
	OP17	6AV3 017-1NE30-0AX0
	OP3	6AV3 503-1DB10
	OP5	6AV3 505-1FB00
	OP5	6AV3 505-1FB01
	OP5-A2	6AV3 505-1FB12
	OP15-A1 2 lines, 2 x TTY/V24, for S5	6AV3 515-1EB30
	OP15-C2 4 lines, 2 x TTY/V24,L2-DP	6AV3 515-1MA22-1AA0
	OP20 240-8	6AV3 520-1EL00
OP30/A without direct keys with Eprom	6AV3 530-1RR00	
OP30/A	6AV3 530-1RR21	
OP25 Operator panel	6AV3 525-1EA01-0AX0	
OP25 Operator panel with keys	6AV3 525-1EA41-0AX0	
OP7 Operator panel	6AV3 607-1JC00-0AX1	
OP7 Operator panel with Profibus	6AV3 607-1JC20-0AX1	
OP17 PP Operator panel for S5	6AV3 617-1JC00-0AX1	
OP27 Operator panel	6AV3 627-1JC00-0AX1	
OP27 Operator panel	6AV3 627-1JK00-0AX0	
OP37 Operator panel	6AV3 637-1LL00-0AX1	
OP45 Operator panel	6AV3 545-1VC12-3FX0	
OP47 Operator panel	6AV3 647-1ML20-3CB1	
MP30/EL2 Monitor panel MP30/EL2	6AV5 030-1EL20-0AA0	
TD390	6ES5 390-0UA11	

OP393 Mounting Rack	6ES5 982-3UA11
OP393-II	6ES5 393-0UA11
OP393-II	6ES5 393-0UA12
OP393-II	6ES5 393-0UA13
OP393-III	6ES5 393-0UA15
OP395	6ES5 395-0UA11
OP395I	6ES5 395-0UA21
OP396	6ES5 391-0UA11
WS400-20 LCD Monitor WF420 OP20	6FM1 420-1CA00

Note:

The industrial keyboards, text displays and several operator panels are ORIGIN WÖHRLE.

## PROGRAMMABLE LOGIC CONTROLLERS (PLC) S5 – 100U

DESIGNATION	PART NUMBER
POWER SUPPLIES	
PS 930 AC	6ES5 930-8MD11
PS 931 AC	6ES5 931-8MD11
PROCESSING UNITS (CPU)	
AG90U Version compact	6ES5 090-8MA01
AG95F Absolute security	6ES5 095-8AF01
AG95 Version compact	6ES5 095-8MA01
AG95 Version compact	6ES5 095-8MA02
AG95 Version compact	6ES5 095-8MA03
AG95 Version compact	6ES5 095-8MA04
AG95 Version compact	6ES5 095-8MA05
AG95 Version compact with Sinec L2	6ES5 095-8MB01
AG95 Version compact with Sinec L2	6ES5 095-8MB02
AG95 Version compact with Sinec L2	6ES5 095-8MB03
AG95 Version compact with Sinec L2	6ES5 095-8MB04
AG95 Version compact with 2. AS511	6ES5 095-8MC01
AG95 Version compact with 2. AS511	6ES5 095-8MC02
AG95 Version compact with 2. AS511	6ES5 095-8MC03
AG95 Version compact with Sinec L2-DP	6ES5 095-8MD01
AG95 Version compact with Sinec L2-DP	6ES5 095-8MD02
AG95 Version compact / Sinec L2-DP Master	6ES5 095-8ME01
CPU100U Processing unit	6ES5 100-8MA02
CPU102U Processing unit	6ES5 102-8MA01
CPU103U Processing unit	6ES5 103-8MA01
CPU103U Processing unit	6ES5 103-8MA03
DIGITAL INPUT CARDS	
4 digital inputs 24V common ground	6ES5 420-8MA11
8 digital inputs 24V common ground	6ES5 421-8MA12
16 digital inputs 24V common ground	6ES5 422-8MA11
8 digital inputs 24V isolated	6ES5 431-8MA11
4 digital inputs 230V isolated	6ES5 430-8MD11
8 digital inputs 8 x 230VAC	6ES5 431-8MD11
DIGITAL INPUT/OUTPUT	
16 digital inputs / 16 digital outputs	6ES5 482-8MA11
16 digital inputs / 16 digital outputs	6ES5 482-8MA13

DIGITAL OUTPUT CARDS	4 digital outputs 24V/0,5A common ground	6ES5 440-8MA11
	4 digital outputs 24V/2A common ground	6ES5 440-8MA21
	8 digital outputs 24V/1A common ground	6ES5 441-8MA11
	4 digital outputs 24V/60V/0.5A isolated	6ES5 450-8MB11
	4 digital outputs 115/240V, 1A isolated	6ES5 450-8MD11
	8 digital outputs 24V/1A isolated	6ES5 451-8MA11
	8 digital outputs 24V/60V, 0.5A isolated	6ES5 451-8MB11
	8 digital outputs relays 30VDC/240 VAC	6ES5 451-8MR12
	4 digital outputs relays 30VDC/240 VAC	6ES5 452-8MR11
ANALOG INPUT CARDS	4 analog inputs +/-50mV isolated	6ES5 464-8MA11
	4 analog inputs +/-1V isolated	6ES5 464-8MB11
	4 analog inputs +/-10V isolated	6ES5 464-8MC11
	4 analog inputs +/-20mA isolated	6ES5 464-8MD11
	4 analog inputs +/- 4-20mA isolated	6ES5 464-8ME11
	2 analog inputs PT100 isolated	6ES5 464-8MF11
	2 analog inputs PT100 isolated	6ES5 464-8MF21
ANALOG OUTPUT CARDS	2 analog outputs +/-10V isolated	6ES5 470-8MA11
	2 analog outputs +/-1V isolated	6ES5 470-8MA12
	2 analog outputs +/- 20mA isolated	6ES5 470-8MB11
	2 analog outputs +/- 20mA isolated	6ES5 470-8MB12
	2 analog outputs + 4-20mA isolated	6ES5 470-8MC11
	2 analog outputs + 4-20mA isolated	6ES5 470-8MC12
	2 analog outputs +1 up to +5V isolated	6ES5 470-8MD11
	2 analog outputs +1 up to +5V isolated	6ES5 470-8MD12
COMMUNICATION PROCESSORS AND OTHERS	Communication processor CP521	6ES5 521-8MA11
	Communication processor CP521	6ES5 521-8MA21
	Communication processor CP521 BASIC	6ES5 521-8MB11
	Numerical counter 385A	6ES5 385-8MA11
	Numerical counter 385B	6ES5 385-8MB11
	Regulation card IP 262	6ES5 262-8MB12

## PROGRAMMABLE LOGIC CONTROLLERS (PLC) S5 – 115U

DESIGNATION		PART NUMBER
POWER SUPPLIES	PS 951 AC 115/230, 3 A	6ES5 951-7LB14
	PS 951 AC 115/230, 7/15 A	6ES5 951-7LD12
	PS 951 DC 24, 3 A	6ES5 951-7NB13
	PS 951 DC 24, 7/15 A	6ES5 951-7ND12
	PS 951 DC 24, 7/15 A	6ES5 951-7ND32
PROCESSING UNITS (CPU)	CPU 941	6ES5 941-7UA12
	CPU 941	6ES5 941-7UA13
	CPU 941	6ES5 941-7UB13
	CPU 942	6ES5 942-7UA12
	CPU 942	6ES5 942-7UA13
	CPU 942	6ES5 942-7UB11
	CPU 942	6ES5 942-7UF13
	CPU 942	6ES5 942-7UF14

	CPU 943	6ES5 943-7UA21
	CPU 943	6ES5 943-7UA22
	CPU 943	6ES5 943-7UB11
	CPU 943 with 2 interfaces	6ES5 943-7UB21
	CPU 944	6ES5 944-7UA12
	CPU 944 with 2 interfaces	6ES5 944-7UA22
	CPU 944	6ES5 944-7UB11
	CPU 944 with 2 interfaces	6ES5 944-7UB21
	CPU 945	6ES5 945-7UA21
	CPU 945	6ES5 945-7UA23
	CPU 946	6ES5 946-3UA11
	CPU 946	6ES5 946-3UA21
	CPU 946	6ES5 946-3UA22
	CPU 946	6ES5 946-3UA23
	CPU 947	6ES5 947-3UA11
	CPU 947	6ES5 947-3UA21
	CPU 947	6ES5 947-3UA22
DIGITAL INPUT CARDS	32 digital inputs 24V common ground	6ES5 420-7LA11
	16 digital inputs 24/48V common ground	6ES5 431-7LA11
	32 digital inputs 24V isolated	6ES5 430-7LA12
	8 digital inputs 24V with alarm signal	6ES5 434-7LA12
	Special card with digital inputs	6ES5 DE 430-/2E
DIGITAL INPUT/OUTPUT	16 digital inputs / 16 digital outputs	6ES5 482-8MA11
	16 digital inputs / 16 digital outputs	6ES5 482-8MA13
	16 digital inputs / 16 digital outputs (S5-115F)	6ES5 482-7LA11
	16 digital inputs / 16 digital outputs (S5-115F)	6ES5 482-7LF31
DIGITAL OUTPUT CARDS	32 digital outputs 24V/0,5A common ground	6ES5 441-7LA11
	32 digital outputs 24V/0,5A common ground	6ES5 441-7LA12
	32 digital outputs 24V/0,5A common ground	6ES5 441-7LA13
	4 digital outputs 24V/60V 0.5A	6ES5 450-8MB11
	4 digital outputs 115/240V 1A	6ES5 450-8MD11
	8 digital outputs 24V/1A isolated	6ES5 451-8MA11
	32 digital outputs 24V/0,5A isolated	6ES5 451-7LA11
	32 digital outputs 24V/0,5A isolated	6ES5 451-7LA12
	16 digital outputs 24V/2A isolated	6ES5 454-7LA11
	16 digital outputs 24V/2A isolated	6ES5 454-7LA12
	8 digital outputs 24V/2A isolated	6ES5 454-7LB11
	16 digital outputs 115/240/1A isolated	6ES5 456-7LA11
	8 digital outputs relays 115V/240V isolated	6ES5 458-7LB11
ANALOG INPUT CARDS	8 analog inputs isolated	6ES5 460-7LA11
	8 analog inputs isolated	6ES5 460-7LA12
	8 analog inputs isolated	6ES5 460-7LA13
	16 analog inputs common ground	6ES5 465-7LA12
ANALOG OUTPUT CARDS	8 analog outputs +/-10V, 20 mA isolated	6ES5 470-7LA12
	8 analog outputs +/-10V isolated	6ES5 470-7LB12
	8 analog outputs +1..5/4..20 mA isolated	6ES5 470-7LC12
COMMUNICATION PROCESSORS	Communication processor CP523	6ES5 523-3UA11
	Communication processor CP523	6ES5 523-3UAF

Communication processor CP526	6ES5 526-3LA01
Communication processor CP526	6ES5 526-3LA11
Communication processor CP526	6ES5 526-3LF11
Communication processor CP526	6ES5 526-3LG11
Communication processor CP530 Sinec L1	6ES5 530-7LA12

## PROGRAMMABLE LOGIC CONTROLLERS (PLC) S5 – 135U

DESIGNATION		PART NUMBER
PROCESSING UNITS (CPU)	CPU 921	6ES5 921-3UA12
	CPU 921	6ES5 921-3UB11
	CPU 922	6ES5 922-3UA11
	CPU 924	6ES5 924-3UA13
	CPU 928	6ES5 928-3UA12
	CPU 928B with 2 interfaces	6ES5 928-3UB12
	CPU 928B with 2 interfaces	6ES5 928-3UB21
	CPU 948	6ES5 948-3UA11
	CPU 948	6ES5 948-3UA21
	DIGITAL INPUT CARDS	32 digital inputs 24V common ground
32 digital inputs 24V common ground		6ES5 420-4UA12
32 digital inputs 24V common ground		6ES5 420-4UA13
32 digital inputs 24V isolated		6ES5 430-4UA11
32 digital inputs 24V isolated		6ES5 430-4UA12
32 digital inputs 24V isolated		6ES5 430-4UA13
32 digital inputs 24V isolated		6ES5 430-4UA14
16 digital inputs 24/48/60V isolated		6ES5 431-4UA11
16 digital inputs 24/48/60V isolated		6ES5 431-4UA12
32 digital inputs with common ground		6ES5 432-4UA11
32 digital inputs with common ground	6ES5 432-4UA12	
DIGITAL OUTPUT CARDS	32 digital outputs 24V/0,5A common ground	6ES5 441-4UA12
	32 digital outputs 24V/0,5A common ground	6ES5 441-4UA13
	32 digital outputs 24V/0,5A isolated	6ES5 451-4UA12
	32 digital outputs 24V/0,5A isolated	6ES5 451-4UA13
	32 digital outputs 24V/0,5A isolated	6ES5 451-4UA14
	16 digital outputs 24V/2A isolated	6ES5 453-4UA11
	16 digital outputs 24V/2A version compact	6ES5 454-4UA12
	16 digital outputs 115/240V/2A isolated	6ES5 456-4UA11
	16 digital outputs 115/240V/2A isolated	6ES5 456-4UA12
16 digital outputs relays 60V/0,5A	6ES5 458-4UA11	
ANALOG INPUT CARDS	8 analog inputs isolated	6ES5 460-4UA12
	8 analog inputs isolated	6ES5 460-4UA13
	16 analog inputs common ground	6ES5 465-4UA11
	16 analog inputs common ground	6ES5 465-4UA12

ANALOG OUTPUT CARDS	8 analog outputs +/-10V/20mA isolated	6ES5 470-4UA11
	8 analog outputs +/-10V/20mA isolated	6ES5 470-4UA12
	8 analog outputs +/-10V isolated	6ES5 470-4UB11
	8 analog outputs +/-10V isolated	6ES5 470-4UB12
	8 analog outputs +1..5 / 4..20mA isolated	6ES5 470-4UC12
COMMUNICATION PROCESSORS AND OTHERS	Communication processor WF470	6GK1 470-3AB25
	Communication processor CP524	6ES5 524-3UA13
	Communication processor CP525	6ES5 525-3UA11
	Communication processor CP525	6ES5 525-3UA21
	Communication processor CP526	6ES5 526-3LA22
	Communication processor CP527 color	6AV1 242 -0AB10
	Communication processor CP528 color	6AV4 010-0AA10
	Communication processor CP535	6ES5 535-3LB12
	Communication processor CP535	6ES5 535-3MA12
	Communication processor CP536	6ES5 536-3LA12
	Communication processor CP544 fast	6ES5 544-3UA11
	Communication processor CP143 (CP535)	6GK1 143-0AA01
	Communication processor CP143 Sinec	6GK1 143-0AT00
	Communication processor CP581 / 486	6ES5 581-0ED13
	Communication processor CP581 / 486	6ES5 581-0ED14
	Communication processor CP581 / RGB	6ES5 581-0EE15
	Communication processor CP581 / VGA	6ES5 581-1EE15
	Numerical counter and positioning IP 240	6ES5 240-1AA21
	Numerical counter and positioning IP 241	6ES5 241-1AA11
	Card for transducer absolute measuring, 1 track	6ES5 241-1AD11
	Card for transducer incremental positioning	6ES5 246-4UA41
	Card for absolute positioning IP 246	6ES5 246-4UB21
	Card for stepping motor positioning IP 247	6ES5 247-4UA11
	Card for regulation IP 252	6ES5 252-3AA13
	Card for synchronized regulation IP 252	6ES5 252-5AA11
	Card for regulation S IP 262	6ES5 262-8MB12
	Card for coordination 923A	6ES5 923-3UA11
	Card for coordination 923	6ES5 923-3UC11
	Card for bus checking	6ES5 313-3AA11
	Card memory	6ES5 355-3UA11

### PROGRAMMABLE LOGIC CONTROLLERS (PLC) S5 – 155U

DESIGNATION		PART NUMBER
PROCESSING UNITS	CPU 948R	6ES5 948-3UR11
	CPU 948	6ES5 948-3UR21
DIGITAL INPUT CARDS	32 digital inputs 24V common ground	6ES5 420-3BA11
	32 digital inputs 24V isolated	6ES5 430-3BA11
DIGITAL OUTPUT	16 digital outputs 24V/0,5A common ground	6ES5 441-3AE11

CARDS	16 digital outputs 24V/2A common ground	6ES5 444-3AA11
	32 digital outputs 24V/0,5A common ground	6ES5 445-3AA11
	32 digital outputs 24V/0,5A common ground	6ES5 445-3AE11
	32 digital outputs 24V/0,12A isolated	6ES5 450-3AA11
ANALOG INPUT CARDS	16 analog inputs common ground	6ES5 465-3AA11
ANALOG OUTPUT CARDS	4 analog outputs 0-20mA common ground	6ES5 476-3AA11
	Module for measuring range +/-12,5mV, +/-50mV, +/-500mV, PT100	6ES5 498-1AA11
	Module for measuring range +/-10V	6ES5 498-1AA31
	Module for measuring range +/-20mA	6ES5 498-1AA41
	Module for measuring range 4-20mA, 2 lines	6ES5 498-1AA51
	Module for measuring range 4-20mA, 2 lines	6ES5 498-1AA71
SPECIAL CARD	Card MONA-C	6ES5 255-3AC11