



ABB ofrece una amplia gama de PLCs escalables y paneles de control HMI robustos, así como una alta disponibilidad de soluciones.

Familia de productos AC500

Programming software PS501 Control Builder Plus

Este software cumple con el estándar IEC61131-3 CoDeSys, ofreciendo los 5 lenguajes de programación IEC, más gráficos de función continua, extensas bibliotecas de bloques de función, una simulación de gran alcance y muy buenas características de visualización



AC500

Los PLCs de ABB ofrecen una amplia gama de niveles de rendimiento y escalabilidad dentro de un concepto único, sencillo y donde la mayoría de los competidores requieren varios rangos de productos para ofrecer una funcionalidad similar. Servidor web integrado y protocolo de control remoto IEC 60 870-5-104.

NUEVO: "Extreme Conditions" con un mayor grado de temperatura de operación, inmune a vibraciones, gases peligrosos, usado a grandes alturas, condiciones de lluvia, etc.

AC500-eCo

Cumple con las exigencias rentables del mercado de los pequeños PLCs, mientras ofrece una interoperabilidad con el rango AC500. CPUs con Ethernet integrado.

Nuevas funciones: Servidor Web para todas las versiones de Ethernet, hasta 10 módulos I/O conectados a la CPU, Contador rápido hasta 50 kHz.



S500 I/O modules

Módulos digitales y análogos se pueden configurar para satisfacer mejor las necesidades de los clientes, ofreciendo opciones de expansión local o remota y utilizando la mayoría de los protocolos de comunicación estándares de la industria.

Control Panels

Paneles gráficos de bajo costo con pantalla táctil o de teclado, software de configuración fácil de usar, ofrece amplias bibliotecas y controladores para la mayoría de plataformas PLC y otros dispositivos de automatización.

NUEVO: CP600 de 15" disponible con el software de ingeniería Panel Builder 600 o con la versión Web.



Scalable PLC AC500 CPUs



PM554

AC500-eCo CPUs

- 1 onboard RS485 serial interface (2nd is optional)
- Centrally expandable with up to 10 I/O modules with CPU firmware version V2.0.6 or above (standard S500 and/or S500-eCo modules can be mixed)
- Optional SD card adapter for data storage and program backup
- Variants with integrated Ethernet (onboard Ethernet includes web server)
- Minimum cycle time per instruction: Bit 0.08 µs, Word 0.1 µs, Float-point 1.2 µs.

Program memory	Onboard I/Os DI/DO/ AI/AO	Relay/ Transistor outputs	Integrated communication	Power supply	Type	Order code	Price	Weight (1 pce) kg
128 kB	8 / 6 / - / -	Transistor	-	24 V DC	PM554-T	1TNE968900R0100		0.300
128 kB	8 / 6 / - / -	Relay	-	24 V DC	PM554-R	1TNE968900R0200		0.350
128 kB	8 / 6 / - / -	Relay	-	100-240 V AC	PM554-R-AC	1TNE968900R0220		0.400
128 kB	8 / 6 / - / -	Transistor	Ethernet	24 V DC	PM554-T-ETH	1TNE968900R0110		0.300



PM592

128 kB	6 / 6 / 2 / 1	Transistor	-	24 V DC	PM564-T (1)	1TNE968900R1100		0.300
128 kB	6 / 6 / 2 / 1	Relay	-	24 V DC	PM564-R (1)	1TNE968900R1200		0.350
128 kB	6 / 6 / 2 / 1	Relay	-	100-240 V AC	PM564-R-AC (1)	1TNE968900R1220		0.350
128 kB	6 / 6 / 2 / 1	Transistor	Ethernet	24 V DC	PM564-T-ETH (1)	1TNE968900R1110		0.300
128 kB	6 / 6 / 2 / 1	Relay	Ethernet	24 V DC	PM564-R-ETH (1)	1TNE968900R1210		0.350
128 kB	6 / 6 / 2 / 1	Relay	Ethernet	100-240 V AC	PM564-R-ETH-AC (1)	1TNE968900R1211		0.400

(1) All analog inputs on AC500 CPU PM564 can be configured as digital inputs.

AC500 CPUs

- 2 internal serial interfaces, RS232/RS485 configurable
- Display and 8 function keys for diagnosis and status
- Centrally expandable with up to 10 I/O modules (S500 and/or S500-eCo modules allowed)
- Simultaneous operation of up to 4 external communication modules in any desired combination
- Optional SD card for data storage and program backup
- Can also be used as slave on PROFIBUS DP, DeviceNet or CANopen via FieldBusPlug, CANopen also using CM588 slave coupler
- Onboard Ethernet version provides web server and IEC 60 870-5-104 remote control protocol.



PM583 + terminal base
+ CM574

Program memory	Cycle time in µs per instruction min. Bit/Word/Float. point	Integrated communication	Type	Order code	Price	Weight (1 pce) kg
128 kB	0.06/0.09/0.7	-	PM572	1SAP130200R0200		0.135
512 kB	0.06/0.09/0.7	Ethernet (3)	PM573-ETH (2)	1SAP130300R0271		0.150

Product for Extreme Conditions

512 kB	0.06/0.09/0.7	Ethernet (3)	PM573-ETH-XC (2)	1SAP330300R0271		0.150
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PM592 + terminal base
+ CM579

512 kB	0.05/0.06/0.5	-	PM582	1SAP140200R0201		0.135
1024 kB	0.05/0.06/0.5	Ethernet (3)	PM583-ETH (2)	1SAP140300R0271		0.150

Products for Extreme Conditions

512 kB	0.05/0.06/0.5	-	PM582-XC	1SAP340200R0201		0.135
1024 kB	0.05/0.06/0.5	Ethernet (3)	PM583-ETH-XC (2)	1SAP340300R0271		0.150

2048 kB	0.002/0.004/0.004	Ethernet (3)	PM590-ETH (2)	1SAP150000R0271		0.150
4096 kB	0.002/0.004/0.004	Ethernet (3)	PM591-ETH (2)	1SAP150100R0271		0.150
4096 kB	0.002/0.004/0.004	Ethernet (3)	PM592-ETH (2)(4)	1SAP150200R0271		0.150

Products for Extreme Conditions

4096 kB	0.002/0.004/0.004	Ethernet (3)	PM591-ETH-XC (2)	1SAP350100R0271		0.150
4096 kB	0.002/0.004/0.004	Ethernet (3)	PM592-ETH-XC (2)(4)	1SAP350200R0271		0.150

(2) Onboard Ethernet communication.

(3) Provides integrated web server and IEC 60 870-5-104 remote control protocol.

(4) Provides integrated 4GB Flashdisk for User Data Storage

Scalable PLC AC500



TB511

Terminal base

- For mounting and connection of the CPUs and communication modules
- 1 to 4 plug-in communication modules
- Connection for communication coupler integrated in the CPU
- I/O interface for direct connection of up to 10 expansion modules
- Fieldbus-neutral FieldBusPlug-Slave interface
- Connection COM1: 9-pole pluggable terminal block
- Connection COM2: 9-pole SUB-D (socket)

Number of coupler slots	Connection for coupler integrated in the CPU	Type	Order code	Price	Weight (1 pce) kg
1	Ethernet RJ45	TB511-ETH	1SAP111100R0270		0.215
2	Ethernet RJ45	TB521-ETH	1SAP112100R0270		0.215
4	Ethernet RJ45	TB541-ETH	1SAP114100R0270		0.215

Product for Extreme Conditions

1	Ethernet RJ45	TB511-ETH-XC	1SAP311100R0270		0.215
2	Ethernet RJ45	TB521-ETH-XC	1SAP312100R0270		0.215
4	Ethernet RJ45	TB541-ETH-XC	1SAP314100R0270		0.215



These TBs are compatible with previous AC500 CPU versions (R01xx) and new ones (R02xx).

Communication modules



CM572-DP

PROFIBUS DP communication module

- For PROFIBUS DP master V0/V1. Multi master functionality
- Transfer rate: 9.6 kbit/s up to 12 Mbit/s
- Max. no. of subscribers: 126 (V0) or 32 (V1)
- CPU interface: 8 kB dual-port memory
- Contains a separate communication processor and 256 kB RAM memory
- No external power supply required

Interface	Type	Order code	Price	Weight (1 pce) kg
Sub-D socket	CM572-DP	1SAP170200R0001		0.115

Product for Extreme Conditions

Sub-D socket	CM572-DP-XC	1SAP370200R0001		0.135
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CM577

Ethernet communication module

- 10/100 Mbit/s, full/half duplex with auto-sensing. 2-port switch integrated.
- Transport protocols TCP/IP, UDP/IP, Modbus TCP.
- CPU interface: 8 kB dual-port memory.
- Contains a separate communication processor, 256 kB RAM memory and 512 kB flash memory.
- No external power supply required.

Protocol	Interfaces	Type	Order code	Price	Weight (1 pce) kg
TCP/IP, UDP/IP, Modbus TCP	2 X RJ45	CM577-ETH	1SAP170700R0001		0.115
Product for Extreme Conditions					
TCP/IP, UDP/IP, Modbus TCP	2 x RJ45	CM577-ETH-XC	1SAP370700R0001		0.115

Scalable PLC AC500



CM588-CN

CANopen communication module

- For CANopen master
- Transfer rate: 10 kbit/s up to 1 Mbit/s
- CPU interface: 8 kB dual-port memory
- Contains a separate communication processor, 256 kB RAM memory and 512 kB flash memory
- No external power supply required
- Plug in terminal block included.

Interface	Type	Order code	Price	Weight (1 pce) kg
Plug-in 5 poles terminal block, spring type terminals	CM578-CN	1SAP170800R0001		0.115
Product for Extreme Conditions				
Plug-in 5 poles terminal block, spring type terminals	CM578-CN-XC	1SAP370800R0001		0.115



CM579-PNIO

- For CANopen slave communication
- Transfer rate: 10 kbit/s up to 1 Mbit/s
- CPU interface: 8 kB dual-port memory
- Contains a separate communication processor, 256 kB RAM memory and 512 kB flash memory.
- No external power supply required.

Interface	Type	Order code	Price	Weight (1 pce) kg
Plug-in 2x5 poles terminal block, spring type terminals	CM588-CN	1SAP172800R0001		0.115
Product for Extreme Conditions				
Plug-in 2x5 poles terminal block, spring type terminals	CM588-CN-XC	1SAP372800R0001		0.115

PROFINET I/O RT master communication module

- Controller protocol, integrated 2 ports switch.
- Interface to the CPU using Dual Port Memory coupler bus,
- Up to 4 communication modules can be used on an AC500 CPU.

Interface	Type	Order code	Price	Weight (1 pce) kg
2 X RJ45 with integrated switch	CM579-PNIO	1SAP170901R0001		0.115
Product for Extreme Conditions				
2 x RJ45 with integrated switch	CM579-PNIO-XC	1SAP370901R0001		0.115



CM579-ETHCAT

EtherCAT master protocol communication module

- Interface to the CPU using Dual Port Memory coupler bus,
- Up to 4 communication modules can be used on an AC500 CPU.

Interface	Type	Order code	Price	Weight (1 pce) kg
2 X RJ45	CM579-ETHCAT	1SAP170902R0001		0.115



CM574

Serial communication module and CPU coprocessor

- Stand alone CPU in coupler module housing allowing to be used as standard serial interface or as free programmable serial interface coupler. 2 x serial RS-232/485 interfaces COM1 / COM2
- CPU interface: dual-port memory
- Program memory: 256 kB / Data memory 384 KB not saved
- Protocols ASCII / free configurable / 2xCS31 master COM1/COM2 / 2x Modbus Master/Slave, independent internal CPU which can be programmed by the PS501 for own communication protocol or data processing. Interface to the CPU using Dual Port Memory coupler bus. Connection with 2 x 9 pole pluggable spring terminals. Up to 4 communication modules can be used on an AC500 CPU
- Plug in terminal block included

Interface	Type	Order code	Price	Weight (1 pce) kg
Serial 2 x RS-232/485	CM574-RS	1SAP170400R0201		0.115

Scalable PLC AC500



CM574-RCOM

Serial protocol RCOM communication module

- 2x serial RS-232/485 interfaces with 1x RCOM / 1x Console,
- Interface to the CPU using Dual Port Memory coupler bus.
- Connection with 2x 9 pole pluggable spring terminals.
- Up to 4 communication modules can be used on an AC500 CPU
- Plug in terminal block included.

Interface	Type	Order code	Price	Weight (1 pce) kg
Serial 2x RS-232/485 (1x RCOM / 1x Console)	CM574-RCOM	1SAP170401R0201		0.115

All communication modules are to be inserted in a slot of terminal base TB5xx. The terminal base is a separate product and mandatory for the CPU modules PM57x/58x/59x.

Digital input/output modules

- For central expansion of the AC500 or AC500-eCo CPUs
- For decentralized expansion in combination with interface module DC551-CS31, PROFINET CI50X modules, or DC505-FBP for S500 I/Os
- DC: Channels can be configured individually as inputs or outputs
- S500-eCo digital I/O modules:
 - Not usable with DC505-FBP module
 - Usable with all CI5XX modules except CI590-CS31-HA.



DO572 and terminal blocks

Number of DI/DO/DC	Input signal	Output type	Output signal	Terminal block 9 poles	Terminal block 11 poles	Type	Order code	Price	Weight (1 pce) kg
8 / - / -	24 V DC	-	-	1	-	DI561	1TNE968902R2101		
16 / - / -	24 V DC	-	-	1	1	DI562	1TNE968902R2102		
8 / - / -	100-240 V AC	-	-	1	1	DI571	1TNE968902R2103		
- / 8 / -	-	Transistor	24 V DC, 0.5 A	-	1	DO561	1TNE968902R2201		
- / 8 / -	-	Relay	24 V DC, 120/ 240 V AC, 2 A	-	1	DO571	1TNE968902R2202		
- / 8 / -	-	Triac	100-240 V AC, 0.3 A	1	1	DO572	1TNE968902R2203		
8 / 8 / -	24 V DC	Transistor	24 V DC, 0.5 A	1	1	DX561	1TNE968902R2301		
8 / 8 / -	24 V DC	Relay	24 V DC, 120/ 240 V AC, 2 A	1	1	DX571	1TNE968902R2302		
- / - / 16	24 V DC	Transistor	24 V DC, 0.1A	HE10-20	-	DC561	1TNE968902R2001		

Terminal block (9 or 11 poles) is necessary for each S500-eCo I/O. They are delivered separately.

Scalable PLC AC500



DC532

- S500 digital input modules:
- Plug-in electronic modules, terminal unit required (refer to table below)
- Usable with DC505-FBP and all CI5XX modules

Number of DI/DO/DC	Input signal	Output type	Output signal	Terminal Units	Type	Order code	Price	Weight (1 pce) kg
32/-/-	24 V DC	-	-	TU515 / TU516	DI524	1SAP240000R0001		0.200
-/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU515 / TU516	DC522	1SAP240600R0001		0.200
-/-/24	24 V DC	Transistor	24 V DC, 0.5 A	TU515 / TU516	DC523	1SAP240500R0001		0.200
16/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU515 / TU516	DC532	1SAP240100R0001		0.200
8/8/-	24 V DC	Relay	230 V AC, 3 A (1)	TU531 / TU532	DX522	1SAP245200R0001		0.300
8/4/-	230 V AC	Relay	230 V AC, 3 A (1)	TU531 / TU532	DX531	1SAP245000R0001		0.300

Product for Extreme Conditions

32/-/-	24 V DC	-	-	TU516-XC	DI524-XC	1SAP440000R0001		0.200
-/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU516-XC	DC522-XC	1SAP440600R0001		0.200
-/-/24	24 V DC	Transistor	24 V DC, 0.5 A	TU516-XC	DC523-XC	1SAP440500R0001		0.200
16/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU516-XC	DC532-XC	1SAP440100R0001		0.200
8/8/-	24 V DC	Relay	230 V AC, 3 A (1)	TU532-XC	DX522-XC	1SAP445200R0001		0.200

(1) Relay outputs, changeover contacts

Scope of delivery	Terminal units	Type	Order code	Price	Weight (1 pce) kg
Cd522, encoder & PWM module, 2 encoder inputs, 2 PWM outputs, 2 digital inputs 24 V DC, 8 digital configurable inputs/outputs 24 V DC	TU515 / TU516	Cd522	1SAP260300R0001		0.125
Product for Extreme Conditions					
Cd522, encoder & PWM module, 2 encoder inputs, 2 PWM outputs, 2 digital inputs 24 V DC, 8 digital outputs 24 V DC	TU516-XC	CD522-XC	1SAP460300R0001		0.125

- DC541 occupies one communication module slot on the AC500 CPU terminal base, no terminal block required
- Not usable with DC505-FBP or all CI5XX modules

Number of DI/DO/DC	Input signal	Output type	Output signal	Type	Order code	Price	Weight (1 pce) kg
-/-/8	24 V DC	Transistor	24 V DC, 0.5 A	DC541-CM (1)	1SAP270000R0001		0.100
Product for Extreme Conditions							
-/-/8	24 V DC	Transistor	24 V DC, 0.5 A	DC541-CM-XC (1)	1SAP470000R0001		0.200

(1) Multifunctional module, refer to table on page 43 for details.

Analog input/output modules

- For central expansion of the AC500 or AC500-eCo CPUs
- For decentralized expansion in combination with communication interface module DC551-CS31, PROFINET CI50X, Fieldbus CI5XX or DC505-FBP (no eCo I/O allowed) for S500 I/Os
- Each channel can be configured individually
- Resolution: 12 bits + sign (AI531: 15 bits + sign) (AI561, AO561, AX561: 12 bits/11 bits + sign) (AI562, AI563: 15 bits + sign)
- S500-eCo analog I/O modules:
 - Not usable with DC505-FBP and CI550-CS31-HA
 - Usable with all other CI5XX modules



AI562 and terminal block

Number of DI/DO/DC	Input signal	Output signal	Terminal block 9 poles	Terminal block 11 poles	Type	Order code	Price	Weight (1 pce) kg
4 / 0	±2.5 V, ±5 V, 0...5 V, 0...10 V, 0...20 mA, 4...20 mA	–	1	1	AI561	1TNE968902R1101		
2 / 0	Pt100, PT1000, Ni100, Ni1000, Resistance: 150 Ω, 300 Ω	–	-	1	AI562	1TNE968902R1102		
4 / 0	S, T, R, E, N, K, J, Voltage range: ±80 mV	–	1	1	AI563	1TNE968902R1103		
0 / 2	–	-10...+10 V, 0...20 mA, 4...20 mA	-	1	AO561	1TNE968902R1201		
4 / 2	±2.5 V, ±5 V, 0...5 V, 0...10 V, 0...20 mA, 4...20 mA	-10...+10 V, 0...20 mA, 4...20 mA	1	1	AX561	1TNE968902R1301		

Terminal block (9 or 11 poles) is necessary for each S500-eCo I/O. They are delivered separately.

Scalable PLC AC500

- S500 analog I/O modules:
- Plug-in electronic modules, terminal unit required (refer to table below)
- Usable with DC505-FBP and all CI5XX modules

Number of DI/DO/DC	Input signal	Output signal	Terminal Units	Type	Order code	Price	Weight (1 pce) kg
16 / 0	0 ... 10 V, ± 10 V	–	TU515 / TU516	AI523	1SAP250300R0001		0.200
4 / 4	0 / 4 ... 20 mA, PT100, PT1000,	± 10 V	TU515 / TU516	AX521	1SAP250100R0001		0.200
8 / 8 (max. 4 current outputs)	Ni1000	0 / 4 ... 20 mA	TU515 / TU516	AX522	1SAP250000R0001		0.200
0 / 16 (max. 8 current outputs)	–		TU515 / TU516	AO523	1SAP250200R0001		0.200
8 / 0	0...5 V, 0...10 V, ± 50 mV, ± 500 mV, 1 V, ± 5 V, ± 10 V, 0/4...20 mA, ± 20 mA, PT100, PT1000, Ni1000, Cu50, 0...50 k Ω , S, T, N, K, J	–	TU515 / TU516	AI531	1SAP250600R0001		0.200

Product for Extreme Conditions

16 / 0	0...10 V, ± 10 V 0/4...20 mA PT100,	–	TU516-XC	AI523-XC	1SAP450300R0001		0.200
4 / 4	PT1000, Ni1000	± 10 V	TU516-XC	AX521-XC	1SAP450100R0001		0.200
8 / 8 (max. 4 current outputs)		0 / 4 ... 20 mA	TU516-XC	AX522-XC	1SAP450000R0001		0.200
0 / 16 (max. 8 current outputs)	–		TU516-XC	AO523-XC	1SAP450200R0001		0.200
8 / 0	0...5 V, 0...10 V, ± 50 mV, ± 500 mV, 1 V, ± 5 V, ± 10 V, 0/4...20 mA, ± 20 mA PT100, PT1000, Ni1000, Cu50, 0...50 k Ω , S, T, N, K, J	–	TU516-XC	AI531-XC	1SAP450600R0001		0.200

Analog/digital mixed I/O module

Standard I/O module with high functionality: 16 digital input channels 24 V DC with configurable input filter time, 8 configurable In/Output channels, DC as DI: 24 V DC, DC as DO: 24 V DC/0.5 A, input filter configurable from 0.1, 1, 8... 32 ms, first two inputs are also usable as high-speed counter (up to 50 kHz) together with AC500 CPU, CS31 or CI5XX communication interface. 4 independent analog input channels configurable for voltage (0...10 V, ± 10 V), current (0/4...20 mA), 12 bit + sign, 1-2 wire connection, 24 V DC process supply voltage. Galvanic isolation per module.

Usable with DC505-FBP and all CI5XX modules.

Number of AI/AO/DI/DO/DC	Input signal	Output type	Output signal	Terminal Unit	Type	Order code	Price	Weight (1 pce) kg
4/2/16/-/8	24 V DC / 0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU515/ TU516	DA501	1SAP250700R0001		0.200
Product for Extreme Conditions								
4/2/16/-/8	24 V DC, 0...10 V, ± 10 V, 0/4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / ± 10 V, 0/4...20 mA	TU516-XC	DA501-XC	1SAP450700R0001		0.200

Terminal units

For digital and analog expansion modules and interface modules. Please note: for modules with relay outputs, terminal units for 230 V AC (TU531/TU532) are required.

For	Supply	Connection type	Type	Order code	Price	Weight (1 pce) kg
FBP interface modules	–	Screw-type terminals	TU505-FBP	1SAP210200R0001		0.300
FBP interface modules	–	Spring-type terminals	TU506-FBP	1SAP210000R0001		0.300
Ethernet interface modules	24 V DC	Screw-type terminals	TU507-ETH	1SAP214200R0001		0.300
Ethernet interface modules	24 V DC	Spring-type terminals	TU508-ETH	1SAP214000R0001		0.300
PROFIBUS/CANopen interface modules	24 V DC	Spring-type terminals	TU510	1SAP210800R0001		0.300
I/O modules	24 V DC	Screw-type terminals	TU515	1SAP212200R0001		0.300
I/O modules	24 V DC	Spring-type terminals	TU516	1SAP212000R0001		0.300
CANopen/PROFIBUS interface modules	24 V DC	Spring-type terminals	TU518	1SAP211200R0001		0.300
Ethernet gateway modules	24 V DC	Spring-type terminals	TU520-ETH	1SAP214400R0001		0.300
I/O modules AC / relay	230 V AC	Screw-type terminals	TU531	1SAP217200R0001		0.300
I/O modules AC / relay	230 V AC	Spring-type terminals	TU532	1SAP217000R0001		0.300
CS31 interface modules	24 V DC	Screw-type terminals	TU551-CS31	1SAP210600R0001		0.300
CS31 interface modules	24 V DC	Spring-type terminals	TU552-CS31	1SAP210400R0001		0.300
Product for Extreme Conditions						
Ethernet interface modules	24 V DC	Spring-type terminals	TU508-ETH-XC	1SAP414000R0001		0.300
PROFIBUS interface modules	24 V DC	Spring-type terminals	TU510-XC	1SAP410800R0001		0.300
I/O modules	24 V DC	Spring-type terminals	TU516-XC	1SAP412000R0001		0.300
CANopen interface modules	24 V DC	Spring-type terminals	TU518-XC	1SAP411200R0001		0.300
Ethernet gateway modules	24 V DC	Spring-type terminals	TU520-ETH-XC	1SAP414400R0001		0.300
I/O modules AC / Relay	230 V AC	Spring-type terminals	TU532-XC	1SAP417000R0001		0.300
CS31 interface modules	24 V DC	Spring-type terminals	TU552-CS31-XC	1SAP410400R0001		0.300



Scalable PLC AC500

Terminal blocks for AC500-eCo



Description	Type	Order code	Price Weight (1 pce) kg
9 poles terminal block for S500 I/O eCo modules - Screw Front / Cable Side	L44460901501	1SSS444609R1100	0.017
11 poles terminal block for S500 I/O eCo modules - Screw Front / Cable Side	L44461101501	1SSS444611R1100	0.020
9 poles terminal block for S500 I/O eCo modules - Screw Front / Cable Front	TA564-9	1TNE968901R3103	0.026
11 poles terminal block for S500 I/O eCo modules - Screw Front / Cable Front	TA564-11	1TNE968901R3104	0.035
9 poles terminal block for S500 I/O eCo modules - Spring Front / Cable Front	TA565-9	1TNE968901R3105	0.016
11 poles terminal block for S500 I/O eCo modules - Spring Front / Cable Front	TA565-11	1TNE968901R3106	0.020

⚠ Only ABB connectors must be used with AC500-eCo

Sales package for these terminal blocks = 6

Communication interface modules

Number of AI/AO/ DI/DO/DC	Input signal	Output-type	Output-signal	Terminal units	Type	Order code	Price	Weight (1 pce) kg
Communication interface module for FieldBusPlug								
-/-/8/-/8	24 V DC	Transistor	24 V DC, 0.5 A	TU505-FBP / TU506-FBP	DC505-FBP	1SAP220000R0001		0.200
Communication interface module for CS31-Bus								
-/-/8/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU551-CS31 / TU552-CS31	DC551-CS31	1SAP220500R0001		0.200
-/-/8/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU551-CS31 / TU552-CS31	CI590-CS31-HA	1SAP221100R0001		0.200
4/2/8/-/8	24 V DC / 0...10 V, -10... +10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU551-CS31 / TU552-CS31	CI592-CS31	1SAP221200R0001		0.200
Communication interface module for Fieldbus or PROFIBUS-DP								
4/2/8/8/-	24 V DC / 0...10 V, -10... +10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA (1)	TU510 / TU518	CI541-DP	1SAP224100R0001		0.200
-/-/8/8/8	24 V DC	Transistor	24 V DC, 0.5 A	TU510 / TU518	CI542-DP	1SAP224200R0001		0.200
Communication interface module for CANopen								
4/2/8/8/-	24 V DC / 0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU510 / TU518	CI581-CN	1SAP228100R0001		0.200
-/-/8/8/8	24 V DC	Transistor	24 V DC, 0.5 A	TU510 / TU518	CI582-CN	1SAP228200R0001		0.200

Scalable PLC AC500

Products for Extreme Conditions



CI541-DP + terminal base

Number of AI/AO/DI/DO/DC	Input signal	Output-type	Output-signal	Terminal units	Type	Order code	Price	Weight (1 pce) kg
Communication interface module for CS31-Bus								
-/-/8/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU552-CS31-XC	DC551-CS31-XC	1SAP420500R0001		0.200
-/-/8/-/16	24 V DC	Transistor	24 V DC, 0.5 A	TU552-CS31-XC	CI590-CS31-HA-XC	1SAP421100R0001		0.200
4/2/8/-/8	24 V DC / 0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU552-CS31-XC	CI592-CS31-XC	1SAP421200R0001		0.200
Communication interface module for Fieldbus or PROFIBUS-DP								
4/2/8/8/-	24 V DC / 0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU510-XC / TU518-XC	CI541-DP-XC	1SAP424100R0001		0.200
-/-/8/8/8	24 V DC	Transistor	24 V DC, 0.5 A	TU510-XC / TU518-XC	CI542-DP-XC	1SAP424200R0001		0.200
Communication interface module for CANopen								
4/2/8/8/-	24 V DC / 0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU510-XC / TU518-XC	CI581-CN-XC	1SAP428100R0001		0.200
-/-/8/8/8	24 V DC	Transistor	24 V DC, 0.5 A	TU510-XC / TU518-XC	CI582-CN-XC	1SAP428200R0001		0.200

(1) Please refer to the FieldBusPlug catalog for information about FBP. The currently available FBP Fieldbus plugs are listed in the catalog 2CDC190022D0203.

Scalable PLC AC500

Communication interface modules



CI502 + terminal base

Number of AI/AO/DI/DO/DC	Input signal	Output-type	Output-signal	Terminal units	Type	Order code	Price	Weight (1 pce) kg
Communication interface module for Ethernet based protocol - PROFINET I/O								
4/2/8/8/-	24 V DC/0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU507-ETH / TU508-ETH	CI501-PNIO	1SAP220600R0001		0.200
-/-/8/8/8	24 V DC	Transistor	24 V DC, 0.5 A	TU507-ETH / TU508-ETH	CI502-PNIO	1SAP220700R0001		0.200



CI504-PNIO

Communication interface module for Ethernet based protocol - EtherCAT								
4/2/8/8/-	24 V DC/0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU507-ETH / TU508-ETH	CI511-ETHCAT	1SAP220900R0001		0.200
-/-/8/8/8	24 V DC	Transistor	24 V DC, 0.5 A	TU507-ETH / TU508-ETH	CI512-ETHCAT	1SAP221000R0001		0.200

Products for Extreme Conditions

Communication interface module for Ethernet based protocol - PROFINET I/O

4/2/8/8/-	24 V DC / 0...10 V, -10...+10 V, 0...20 mA, 4...20 mA, PT100, PT1000, Ni100, Ni1000	Transistor	24 V DC, 0.5 A / -10...+10 V, 0...20 mA, 4...20 mA	TU508-ETH-XC	CI501-PNIO-XC	1SAP420600R0001		0.200
-/-/8/8/8	24 V DC	Transistor	24 V DC, 0.5 A	TU508-ETH-XC	CI502-PNIO-XC	1SAP420700R0001		0.200

Communication interface modules



CI506-PNIO

From	To	Output-signal	Terminal units	Type	Order code	Price	Weight (1 pce) kg
Communication interface module gateway on Ethernet based protocol - PROFINET I/O							
PROFINET I/O	-	3x RS232/485 ASCII serial interfaces	TU520-ETH	CI504-PNIO	1SAP221300R0001 1SAP221500R0001		0.200
PROFINET I/O	1x CAN 2A/2B or CANopen Master	2x RS232/485 ASCII serial interfaces	TU520-ETH	CI506-PNIO			0.200

Products for Extreme Conditions

Communication interface module for Ethernet based protocols - PROFINET I/O

PROFINET I/O	-	3x RS232/485 ASCII serial interfaces	TU520-ETH-XC	CI504-PNIO-XC	1SAP421300R0001		0.200
PROFINET I/O	1x CAN 2A/2B or CANopen Master	2x RS232/485 ASCII serial interfaces	TU520-ETH-XC	CI506-PNIO-XC	1SAP421500R0001		0.200

Scalable PLC AC500

Programming software



PS501 Control Builder Plus

Programming software PS501 Control Builder Plus

For all AC500 CPUs, all programming languages including Continuous Function Chart according to IEC 61131-3

Contains: 6 programming languages, sampling - trace, debugging, of fine simulation, integrated visualization, trace recording (multi-channel), recipe management

Languages: French, English, German, Chinese, Spanish

Scope of delivery: Software, libraries and documentation (PDF) on USB ROM

For	Description	Type	Order code	Price	Weight (1 pce) kg
all AC500 CPUs	Programming package PS501 Control Builder Plus	PS501-PROG	1SAP190100R0200		0.300
	License for runtime visualization package, For installation and visualization of images created with the programming package PS501 Control Builder Plus. Delivery includes license code and documentation.	PS541-HMI (1)	1SAP190500R0001		0.300

(1) This package allows granting the license for the software. To install the HMI software, the PS501 Control Builder Plus should be purchased separately.

Motion Control library

For	Description	Type	Order code	Price	Weight (1 pce) kg
all AC500 CPUs	Motion Control library single license	PS552-MC	1SAP192100R0001		0.300
all AC500 CPUs	Motion Control library multiple license	PS552-MC	1SAP192100R0101		0.300

Drives library

For	Description	Type	Order code	Price	Weight (1 pce) kg
all AC500 CPUs all ACS Drives	Drives library delivered via PS501 or download	PS553-DRIVES			

Solution libraries

For	Description	Type	Order code	Price	Weight (1 pce) kg
all AC500 CPUs	Solar library delivered on USB stick. Delivery includes licence code and documentation	PS562-SOLAR	1SAP195000R0001		0.300
all AC500 CPUs	Water library delivered on USB stick. Delivery includes licence code and documentation	PS563-WATER	1SAP195200R0001		0.300

Accessories for AC500-eCo



TK506



TA561-RTC



TA562-RS



TA562-RS-RTC



TA566



TA570

Description	Type	Order code	Price	Weight (1 pce) kg
SD Memory Card 2 GB needs the MC503 option	MC502	1SAP180100R0001		0.020
SD Memory Card adapter	MC503	1TNE968901R0100		0.100
Programming cable USB => RS485 SUB-D, 3 m	TK503	1TNE968901R1100		0.400
Programming cable USB => RS485 Terminal block, 3 m	TK504	1TNE968901R2100		0.400
AC500-eCo, RS485 isolator, D-Sub 9 poles/Terminal 5 poles for COM1 of the AC500-eCo CPU	TK506	1SAP186100R0001		0.100
Real time clock option board, battery CR2032 not included	TA561-RTC (2)	1TNE968901R3200		0.100
TA562-RS, RS485 serial adapter COM2 for CPU's PM554 and PM564, to be installed in right option slot of the CPU, pluggable screw terminal block included	TA562-RS	1TNE968901R4300		0.100
TA562-RS-RTC, Combined Real Time Clock option with RS485 serial adapter COM2 for CPU's PM554 and PM564, to be installed in right option slot of the CPU, pluggable screw terminal block, battery Cr2032 not included	TA562-RS-RTC (2)	1SAP181500R0001		0.100
Wall Mounting Accessory for AC500-eCo CPU and S500-eCo I/O modules (100 pieces per case)	TA566	1TNE968901R3107		0.200
Set of accessories: 6 x plastic cover for option slot, 6 x 5 pole terminal block for AC500-eCo, 6 x 5 pole screw terminal block for COM2 serial interface.	TA570	1TNE968901R3203		
Digital input simulator for onboard I/O of CPU PM55x and PM56x, 6 x switch, 24 V DC	TA571-SIM	1TNE968903R0203		0.050

(2) Standard battery CR-2032 has to be purchased separately

Scalable PLC AC500

AC500-eCo Starter kits

Each kit comes with CPU, programming cable, digital input simulator, PS501 full functional version without update and "Getting started" handbook.



CPU module in the starter kit	Programming cable (included)	Type	Order code	Price	Weight (1 pce) kg
PM564-R-AC	TK503 (USB/SERIAL)	TA574-A-R-AC	1SAP186200R0001		1,400
PM564-R	TK503	TA574-A-R	1SAP186200R0002		1,400
PM564-T	TK503	TA574-A-T	1SAP186200R0003		1,400
PM554-T-ETH	ETHERNET	TA574-D-T-ETH	1SAP186200R0004		1,400

Accessories for AC500



MC502



For	Description	Type	Order code	Price	Weight (1 pce) kg
AC500 CPUs COM2	Programming cable Sub-D/Sub-D, length 5 m	TK501	1SAP180200R0001		0.400
AC500 CPUs COM1	Programming cable Sub-D/terminal block, length 5 m	TK502	1SAP180200R0101		0.400
Cable for programming the AC500 via the integrated fieldbus neutral interface	Connection to PC via USB interface. Includes USB extension cable and installation CD.	UTF21-FBP	1SAJ929400R0001		
AC500 CPUs	Memory card (2 GB SD card)	MC502	1SAP180100R0001		0.020
AC500 CPUs	Lithium battery for data buffering	TA521	1SAP180300R0001		0.100
I/O modules	Pluggable marker holder for I/O modules, packing unit incl. 10 pcs	TA523	1SAP180500R0001		0.300
Terminal base	Communication module, dummy housing	TA524	1SAP180600R0001		0.120
I/O modules	White labels, packing unit incl. 10 pcs	TA525	1SAP180700R0001		0.100
CPU terminal base	Accessories for mounting, packing unit incl. 10 pcs	TA526	1SAP180800R0001		0.200
CPU terminal base	5-pole power plug for AC500. Spare part. Can be plugged to CPU terminal base TB5x1. Packing unit incl. 5 pcs	TA527	1SAP181100R0001		0.200
CPU terminal base	9-pole COM1 plug for AC500. Spare part. Can be plugged to CPU terminal base TB5x1.	TA528	1SAP181200R0001		0.200
AC500 Basic Training case	Packing unit incl. 5 pcs PM583-ETH, I/Os, DP PM583-ETH + CM572 + AX561 + DC551 + CI542+CP635	TA512-BAS	1SAP182400R0001		7.000
AC500 Advanced Training case	PM583-ETH, CD522, Fieldbuses PM583-ETH + CM574 + CM578 + CM579+CP635	TA513-ADV	1SAP182500R0001		8.800
Protective caps for TB and TU for XC versions	10x D-Sub plastic caps 20xRJ45 plastic caps 10xM12 plastic caps	TA535	1SAP182300R0001		0.300

Control panels

HMI panels CP600 series



CP635

Resolution pixels	Display size	Type	Order code	Price	Weight (1 pce) kg
480 x 272	4.3"	CP620	1SAP520100R0001		0.950
320 x 240	5.7"	CP630	1SAP530100R0001		1.150
800 x 480	7.0"	CP635	1SAP535100R0001		1.100
800 x 600	10.4"	CP650	1SAP550100R0001		2.100
800 x 600	12.1"	CP660	1SAP560100R0001		2.900
1024 x 768	15.0"	CP675	1SAP575100R0001		3.800
480 x 272	4.3"	CP620-WEB	1SAP520200R0001		0.950
320 x 240	5.7"	CP630-WEB	1SAP530200R0001		1.150
800 x 480	7.0"	CP635-WEB	1SAP535200R0001		1.100
800 x 600	10.4"	CP650-WEB	1SAP550200R0001		2.100
800 x 600	12.1"	CP660-WEB	1SAP560200R0001		2.900
1024 x 768	15.0"	CP675-WEB	1SAP575200R0001		3.800

Accessories for CP600 series

Resolution	Type	Order code	Price	Weight (1 pce) kg
Communication cable RS232: CP600-AC500	TK681	1SAP500981R0001		0.130
Communication cable RS485: CP600-AC500-eCo	TK682	1SAP500982R0001		0.130
Panel Builder 600 for CP600	PB610	1SAP500900R0001		0.150

Operator panels CP400 series



CP415

Resolution	Display	Type	Order code	Price	Weight (1 pce) kg
pixels					
Operator panels with touch display					
240 x 240	3.5", 16 grey levels	CP415M	1SBP260191R1001		0.230
320 x 240	5.7", 16 blue levels	CP430B	1SBP260183R1001		0.810
Programming cables CP400					
Plug on Cp400 side	Description	Type	Order code	Price	Weight (1 pce) kg
SubD9	Connection to COM1 of CP400. Length: 4 m	TK401	1SBN260216R1001		0.180
SubD25	Connection to COM2 of CP400. Length: 4 m	TK402	1SBN260217R1001		0.230
Communication cables CP400 (connection operator panel <-> PLC)					
Plug on PLC side	PLC	Type	Order code	Price	Weight (1 pce) kg
SubD9	AC500	TK405	1SBN260221R1001		0.130
SubD9	AC500-eCo	TK406	1SBN260224R1001		0.130
Programming software					
Description		Type	Order code	Price	Weight (1 pce) kg
Programming software for CP400 operator panels. Delivery includes the programming software and corresponding documentation on CD-ROM		CP400Soft	1SBS260284R1001		0.100