



AC500-eCo: your PLC from ABB
Unique scalable concept, optimal costs...
Change for more!

How can the AC500-eCo contribute **more** to your success?

Return on your investment is one of the key benefits with the new AC500-eCo PLC from ABB

Buy what is necessary and nothing more, reduce engineering and commissioning time, keep maintenance costs under control, and last but not least, take advantage of the very high performance from ABB to give both you and your customers a competitive edge.

Economical entry level for PLC stand-alone solutions

- Investment-saving solution due to hardware and software compatibility with the AC500 family
- Cost-saving solution for example, simple-to-position applications with configurable interrupts, fast counters and pulse-width modulation outputs
- Space-saving solution due to high functionality with integrated onboard digital and analogue I/Os
- Time-saving solution using multiple serial ports for simultaneous engineering and communication



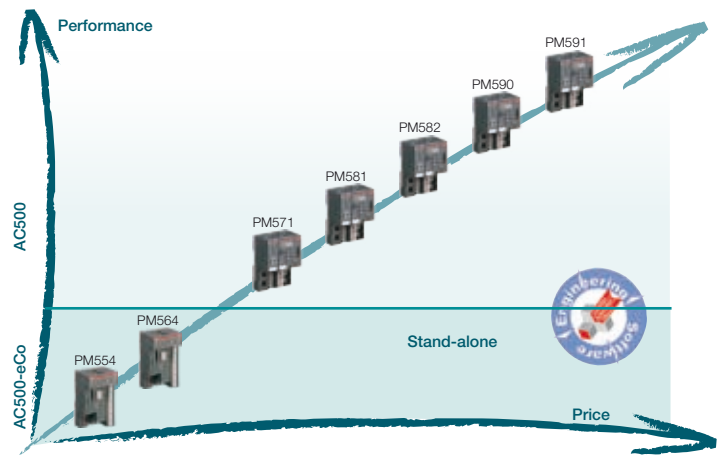
How can the AC500-eCo be tailored to grow **more** with your needs?

Investment security

- Programming software based on international standard IEC 61131-3
- Complete range of S500 I/O can be connected, from the most basic to most advanced and speciality modules
- Supports decentralized I/O modules through CS31 bus if more than 7 local modules are needed
- Integrated visualisation tool simplifies the operation of small applications
- Re-use of custom-made function block

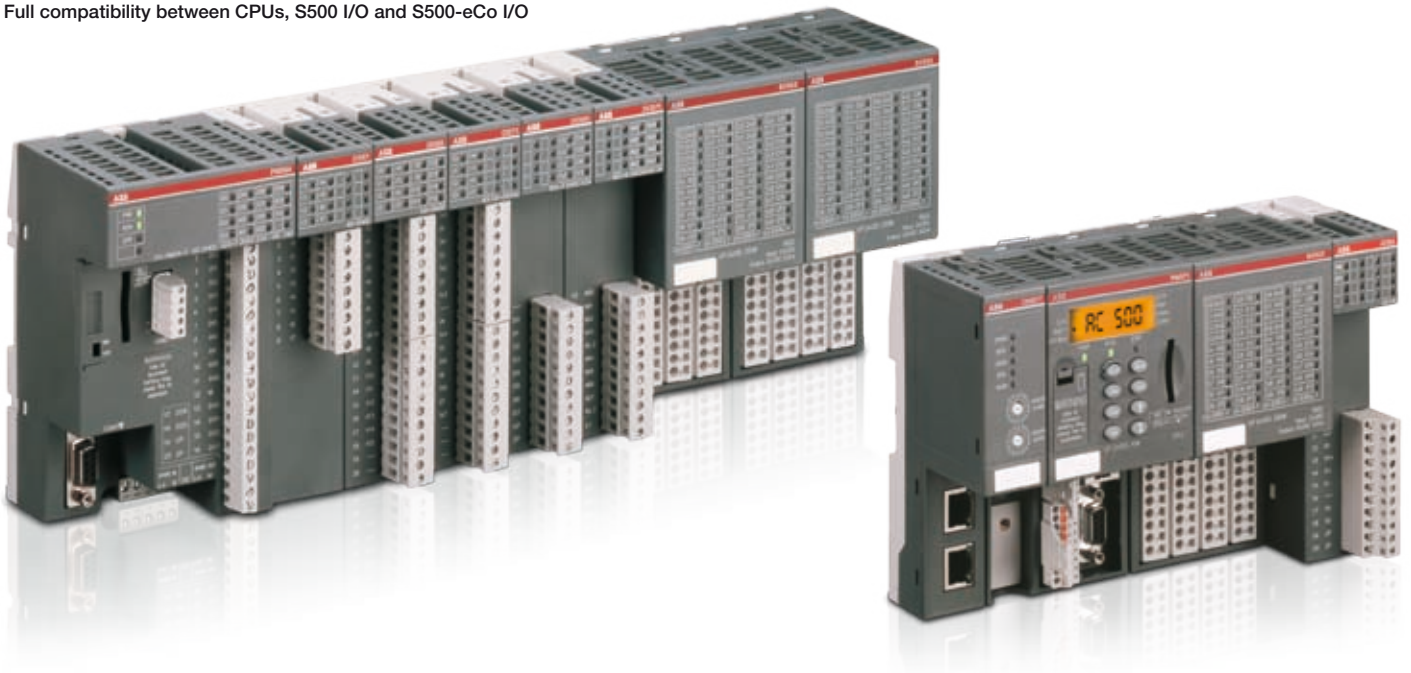
Easy to maintain

- Retains data without battery
- User program can be downloaded via SD card without using programming tool
- Removable connectors simplify product replacement



AC500 family, your PLCs from ABB - AC500 CPU range

Full compatibility between CPUs, S500 I/O and S500-eCo I/O



How could you benefit more from the AC500-eCo?

Easy to learn and reduces engineering requirements thanks to its high compatibility

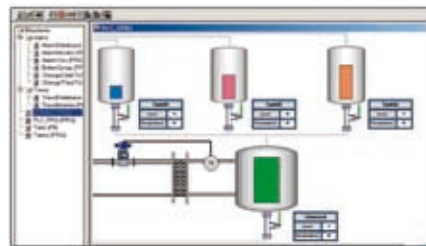
- One programming system for the entire AC500 family, based on CoDeSys
- Existing AC500 libraries are compatible and immediately available for use

Easy to program

- Fast execution speed and large memory capacity make program optimization obsolete
- 6 programming languages available for each function

Easy to commission

- Simulation mode allows program debugging without PLC hardware and reduces on-site testing
- User-configurable I/O allows you to make decisions up to the last minute
- Graphical diagnosis speeds up commissioning

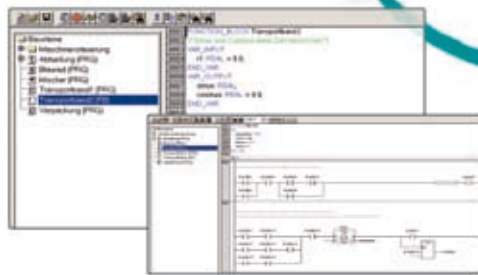


Visualization

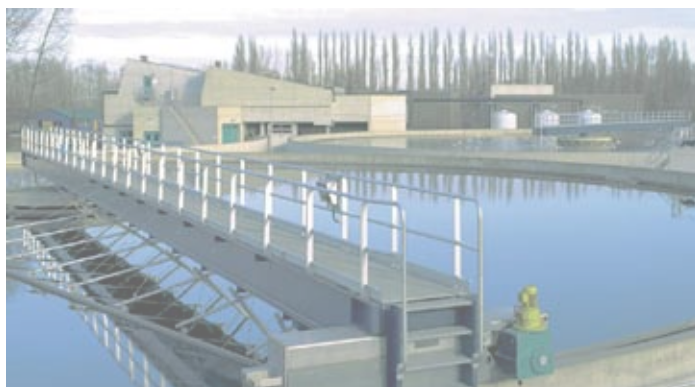


Diagnosis

Programming



Test



AC500-eCo CPUs

Type	Onboard I/Os DI/ DO/AI/AO	Digital Onboard I/O		Analog Onboard I/O		Power supply	Order code
		Input signal	Output signal	Input signal	Output signal		
PM554-T	8 / 6 / - / -	24 V DC	Transistor, 24 V DC, 0.5 A	-	-	24 V DC	1TNE 968 900 R0100
PM554-R	8 / 6 / - / -	24 V DC	Relay, 24 V DC, 120/240 V AC, 2 A	-	-	24 V DC	1TNE 968 900 R0200 **
PM554-R-AC	8 / 6 / - / -	24 V DC	Relay, 24 V DC, 120/240 V AC, 2 A	-	-	100-240 V AC	1TNE 968 900 R0220 **
PM564-T *	6 / 6 / 2 / 1	24 V DC	Transistor, 24 V DC, 0.5 A	0...10 V: 10 bits	0...10 V, 0...20 mA, 4...20 mA	24 V DC	1TNE 968 900 R1100
PM564-R *	6 / 6 / 2 / 1	24 V DC	Relay, 24 V DC, 120/240 V AC, 2 A	0...10 V: 10 bits	0...10 V, 0...20 mA, 4...20 mA	24 V DC	1TNE 968 900 R1200 **

*All Analog inputs on AC500 CPU PM564 can be configured as digital inputs.

Software and cable

Type	Descriptions	Order code
PS501	Programming package PS501. Control Builder AC500	1SAP 190 100 R0002
PS541-HMI	License for runtime visualization package. For installation and visualization of images created with the programming package PS501. Delivery includes license code and documentation.	1SAP 190 500 R0001
TK503	Programming cable USB => RS485 SUB-D, 3 meters, COM1	1TNE 968 901 R1100
TK504	Programming cable USB => RS485 terminal block, 3 meters, COM2	1TNE 968 901 R2100 **

S500-eCo I/O

Type	DI/ DO/ DC	Input signal	Output signal	Terminal block 9 poles	Terminal block 11 poles	Order code
DI561	8DI / - / -	24 V DC	-	1	-	1TNE 968 902 R2101
DI562	16DI / - / -	24 V DC	-	1	1	1TNE 968 902 R2102
DI571	8DI / - / -	100-240 V AC	-	1	1	1TNE 968 902 R2103 **
DO561	- / 8DO / -	-	Transistor, 24 V DC, 0.5 A	-	1	1TNE 968 902 R2201
DO571	- / 8DO / -	-	Relay, 24 V DC, 120/240 V AC, 2 A	-	1	1TNE 968 902 R2202 **
DO572	- / 8DO / -	-	Triac, 100-240 V AC, 0.3 A	1	1	1TNE 968 902 R2203 **
DX561	8DI / 8DO / -	24 V DC	Transistor, 24 V DC, 0.5 A	1	1	1TNE 968 902 R2301
DX571	8DI / 8DO / -	24 V DC	Relay, 24 V DC, 120/240 V AC, 2 A	1	1	1TNE 968 902 R2302 **
DC561	- / - / 16DC	24 V DC	Transistor, 24 V DC, 0.1A, HE 10-20 connector for prewiring system interfast	HE10-20	-	1TNE 968 902 R2001
AI561	4AI / -	-2.5...+2.5 V, -5...+5 V, 0...5 V, 0...10 V, 0...20 mA, 4...20 mA	-	1	1	1TNE 968 902 R1101
AO561	- / 2AO	-	-10...+10 V, 0...20 mA, 4...20 mA	-	1	1TNE 968 902 R1201
AX561	4AI / 2AO	-2.5...+2.5 V, -5...+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	1TNE 968 902 R1301
AI562	2AI / -	PT100, PT1000, Ni100, Ni1000, Resistance: 150 , 300	-	-	1	1TNE 968 902 R1102
AI563	4AI / -	Thermocouples: S, T, R, E, N, K, J, Voltage range : ±80 mV	-	1	1	1TNE 968 902 R1103

Terminal blocks (9 or 11 poles) are necessary for S500-eCo I/Os. They are delivered separately. Notice: Only ABB S500-eCo terminal blocks are suitable for S500-eCo I/Os (see table S500-eCo terminal blocks on this page).

S500-eCo terminal blocks

Type	Descriptions	Order code
L44460901501	9 poles terminal block for S500 I/O modules, screw front / cable side	1SSS 444 609 R1100
L44461101501	11 poles terminal block for S500 I/O modules, screw front / cable side	1SSS 444 611 R1100
L44440901501	9 poles terminal block for S500 I/O modules, screw front / cable front	1SSS 444 409 R1100
L44441101501	11 poles terminal block for S500 I/O modules, screw front / cable front	1SSS 444 411 R1100
L44470901501	9 poles terminal block for S500 I/O modules, spring front / cable front	1SSS 444 709 R1100
L44471101501	11 poles terminal block for S500 I/O modules, spring front / cable front	1SSS 444 711 R1100

Options

Type	Descriptions	Order code
MC502	SD Memory card 512 MB	1SAP 180 100 R0001
MC503	SD Memory card adapter	1TNE 968 901 R0100
TA561-RTC	Real-time clock	1TNE 968 901 R3200
TA560-BAT	Lithium battery for real-time clock	1TNE 968 901 R3201
TA562-RS	Serial communication interface COM2, RS485, terminal block	1TNE 968 901 R4300
TA562-RS-RTC	Serial communication interface COM2 with real-time clock, RS485, terminal block	1TNE 968 901 R5210
TA566	Wall mounting accessory for AC500 CPU and S500 I/O modules	1TNE 968 901 R3107
TA570	Terminal blocks for CPU and option cover	1TNE 968 901 R3203

Starter kit

Type	Descriptions	Order code
PM554-STAKIT	1x CPU PM554-T, 1x TK503 programming cable, 1x PS501 Starter kit version, 1x "Getting started" CD, 1x screwdriver	1TNE 968 903 R0100

** in preparation

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