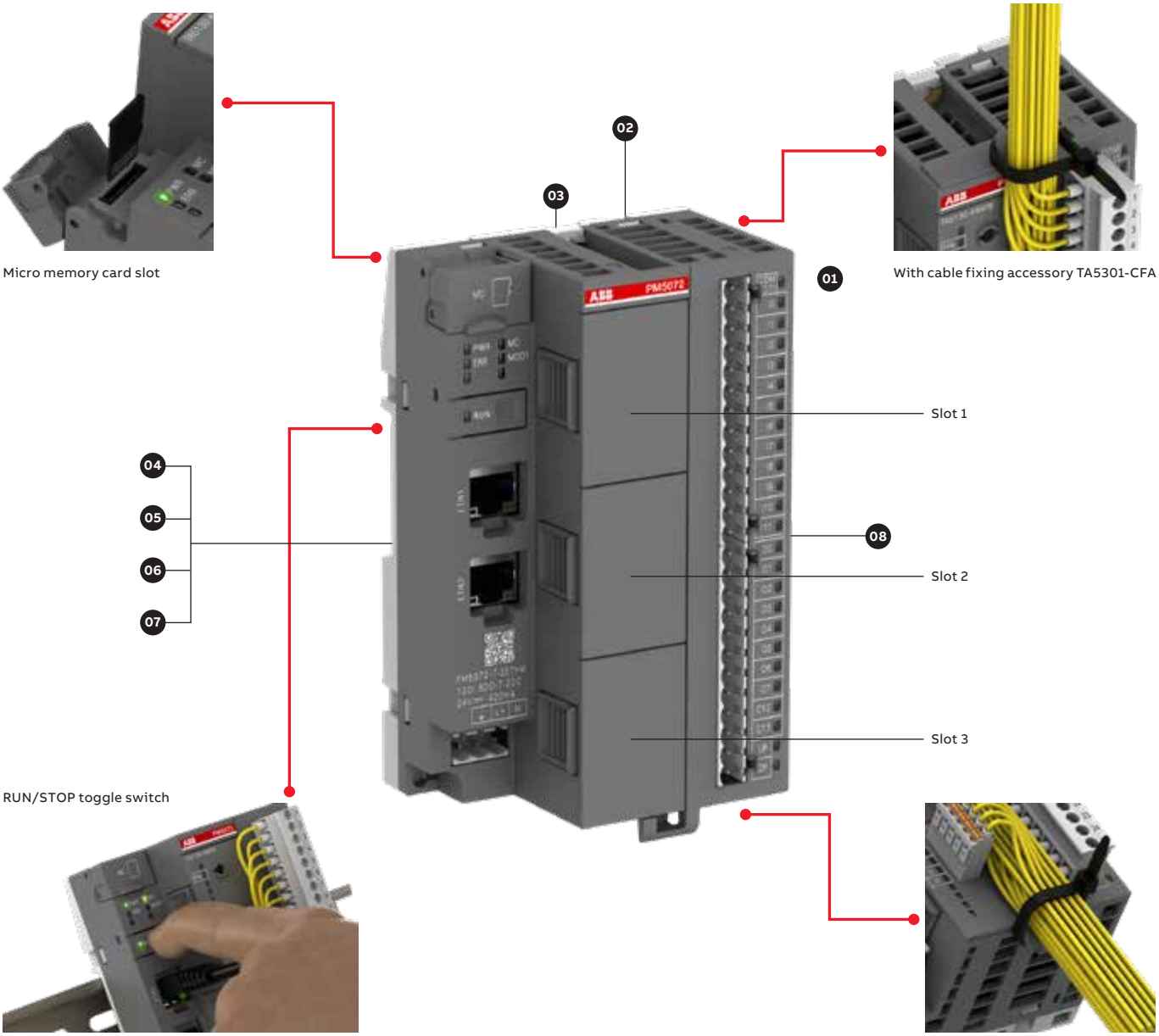
System characteristics

The new AC500-eCo V3 Basic, Standard and Pro CPUs are available with different performance levels. For digital and analog I/O or communication extension, option boards can be used. Locally, AC500-eCo V3 Standard and Pro CPUs can be extended with up to 10 I/O modules.



	Basic	Standard		Pro
	PM5012-x-ETH	PM5032-x-ETH	PM5052-x-ETH	PM5072-T-ETH
Option board slot 1	●	●	●	●
Option board slot 2	-	●	●	●
Option board slot 3	-	-	●	●

AC500-eCo V3
Ordering data

AC500-eCo V3 CPUs

- Three performance classes CPU (Basic, Standard and Pro) with large memory
- From low-entry and cost-sensitive to large and complex applications
- One or two independent Ethernet interfaces with integrated switch functionality
- Up to three RS232 or RS485 serial interfaces using option boards
- Micro memory card slot for data storage and program backup
- Real time clock for Standard and Pro CPU, optional for Basic
- Web server functionality with HTML5 Web visualization for Standard and Pro CPU
- Minimum cycle time per instruction: Bit 0.02 µs, Word 0.02 µs, Floating point 0,6 µs.
- High amount of onboard I/Os with relay or transistor outputs
- Onboard high-speed I/Os (up to 200 kHz) with motion control function for up to 4 axis PTO
- Extendable with up to three digital or analog option boards
- Standard and Pro version can be locally extended with up to 10 I/O modules (S500 and/or S500-eCo modules can be mixed)
- 24 V DC power supply.

Total user program memory	Onboard I/Os	Relay / Transistor outputs	Integrated communication	Option board slots for extension	Power supply	Type	Order code	Price	Weight (1 pce)
kB	DI/DO/DC								kg
Basic CPU PM5012-x-ETH: 1MB CPU, Ethernet interface, onboard digital I/O, not extendable, 1 slot for option board									
1 MB (thereof 256 kB Program code and Data) (2)	6 / 4 / –	Transistor	1x Ethernet	1	24 V DC	PM5012-T-ETH	1SAP122600R0072		0.225
	6 / 4 / –	Relay	1x Ethernet	1	24 V DC	PM5012-R-ETH	1SAP122700R0072		0.235
Standard CPU PM5032-x-ETH: 2MB CPU, Ethernet interface, RTC and micro memory card, onboard digital I/O, extendable, 2 slots for option board									
2 MB (thereof 512 kB Program code and Data + 1.5 MB Web max.) (2)	12 / 8 / 2	Transistor	1x Ethernet	2	24 V DC	PM5032-T-ETH	1SAP123400R0072		0.253
	12 / 6 / 2	Relay	1x Ethernet	2	24 V DC	PM5032-R-ETH	1SAP123500R0072		0.268
Standard CPU PM5052-x-ETH: 4MB CPU, Ethernet interface, RTC and micro memory card, onboard digital I/O, extendable, 3 slots for option board									
4 MB (thereof 768 kB Program code and Data + about 3 MB Web max.) (2)	12 / 8 / 2	Transistor	1x Ethernet	3	24 V DC	PM5052-T-ETH	1SAP124000R0072		0.257
	12 / 6 / 2	Relay	1x Ethernet	3	24 V DC	PM5052-R-ETH	1SAP124100R0072		0.273
Pro CPU PM5072-x-ETH: 8MB CPU with two Ethernet interface, RTC and micro memory card, onboard digital I/O, extendable, 3 slots for option board									
8 MB (thereof 1 MB Program code and Data + 7 MB Web max.) (2)	12 / 8 / 2	Transistor	2x independent Ethernet with switch	3	24 V DC	PM5072-T-2ETH	1SAP124500R0073		0.265
8 MB (thereof 1 MB Program code and Data + 7 MB Web max.) extended wide temperature (2)	12 / 8 / 2	Transistor	2x independent Ethernet with switch	3	24 V DC	PM5072-T-2ETHW (1)	1SAP124400R0073		0.265

Terminal block sets are necessary for each AC500-eCo V3. The terminal blocks must be ordered separately.
(1) Wide extended temperature -20 °C … +70 °C.
(2) Memory size of V2 versus V3 CPUs is not comparable. Projects have a different and separate User Program code and Data memory calculation in Automation Builder 2.4.0 version or later: System, configuration and web server parts are not counted anymore. This results in typically about 50 % lower memory usage compared to V2, and even lower memory usage compared to V3 projects compiled in Automation Builder 2.3.0 or before.



—
PM5012-x-ETH
Basic CPU



—
PM5032-x-ETH
Standard CPU



—
PM5052-x-ETH
Standard CPU



—
PM5072-T-2ETH(W)
Pro CPU

AC500-eCo V3
Ordering data

AC500-eCo V3 option boards

- Up to three option board slots for extension according to CPU type
- All option board modules can be used on all option board slots of a CPU
- Up to three RS232 or RS485 serial interfaces using option boards
- Four different option boards for analog channel extension / Three different option boards for digital channel extension
- KNX push button address switch
- All the option boards are delivered with spring terminal block.

Description	Onboard I/Os DI/DO/AI/AO	Relay / Transistor outputs	Type	Order code	Price	Weight (1 pce) kg
Option board for digital input/output channel extension, W version for extended temperature in preparation						
4 DI digital input channels 24 V DC, 5 pole spring/ cable front terminal 3.50 mm pitch	4 / – / – / –	-	TA5101-4DI	1SAP187000R0001		0.015
			TA5101-4DIW (1)	1SAP187000R0201		0.015
4 DO digital output channels transistor 24 V DC / 0.5A, 7 pole spring/cable front term. 3.50 mm pitch	– / 4 / – / –	Transistor	TA5105-4DOT	1SAP187000R0002		0.016
			TA5105-4DOTW (1)	1SAP187000R0202		0.016
2 DI/2DO digital in/output chan. Trans. 24 V DC / 0.5A, 7 pole spring/cable front term. 3.50 mm pitch	2 / 2 / – / –	Transistor	TA5110-2DI2DOT	1SAP187000R0003		0.015
			TA5110-2DI2DOW (1)	1SAP187000R0203		0.015
Option board for analog input/output channel extension, W version for extended temperature in preparation						
2 AI analog input channels U/I, 0 … 10V/0 … 20mA, 6 pole spring/cable front term. 3.50 mm pitch	– / – / 2 / –	-	TA5120-2AI-UI	1SAP187100R0001		0.015
			TA5120-2AI-UIW (1)	1SAP187100R0201		0.015
2 AI analog input channels TC thermocoupler, 6 pole spring/cable front term. 3.50 mm pitch	– / – / 2 / –	-	TA5122-2AI-TC (1)	1SAP187100R0004		0.015
			TA5122-2AI-TCW (1)	1SAP187100R0204		0.019
2 AI analog input channels RTD PT100, PT1000, 8 pole spring/cable front term. 3.50 mm pitch	– / – / 2 / –	-	TA5123-2AI-RTD (1)	1SAP187100R0002		0.019
			TA5123-2AI-RTW (1)	1SAP187100R0202		0.015
2 AO analog output channels U/I, 0 … 10V/0 … 20mA, 6 pole spring/cable front term. 3.50 mm pitch	– / – / – / 2	-	TA5126-2AO-UI	1SAP187100R0003		0.019
			TA5126-2AO-UIW (1)	1SAP187100R0203		0.019

(1) In preparation

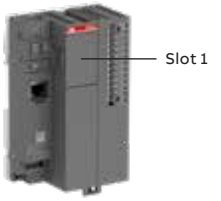

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TA5101-4DI

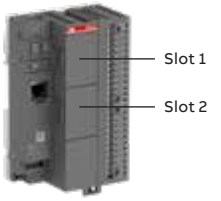

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TA5105-4DOT

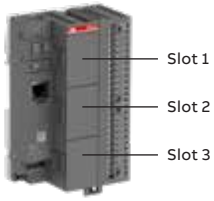

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TA5110-2DI2DOT

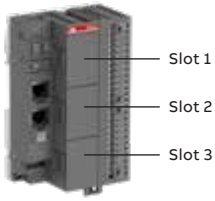

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TA5120-2AI-UI


—
TA5126-2AO-UI









	Basic	Standard		Pro
	PM5012-x-ETH	**PM5032-x-ETH**	**PM5052-x-ETH**	**PM5072-T-ETH (W)**
Option board slot 1	●	●	●	●
Option board slot 2	-	●	●	●
Option board slot 3	-	-	●	●
Usable option board on AC500-eCo V3 CPU				
TA5130-KNXPB	-	-	-	●, max 1 **(W)**
TA5131-RTC	●, max 1	-	-	-
TA5101-4DI	●	●	●	● **(W)**
TA5105-4DOT	●	●	●	● **(W)**
TA5110-2DI2DOT	●	●	●	● **(W)**
TA5120-2AI-UI	●	●	●	● **(W)**
TA5122-2AI-TC	●	●	●	● **(W)**
TA5123-2AI-RTD	●	●	●	● **(W)**
TA5126-2AO-UI	●	●	●	● **(W)**
TA5141-RS232I	●	●	●	● **(W)**
TA5142-RS485I	●	●	●	● **(W)**
TA5142-RS485	●	●	●	● **(W)**

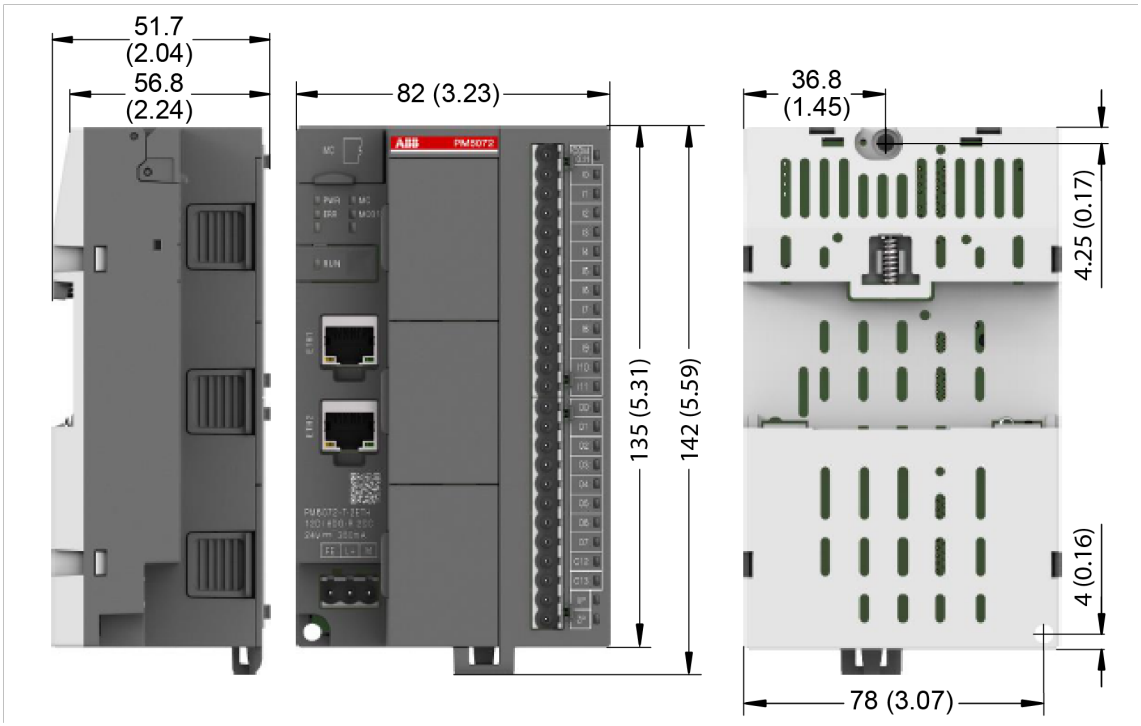


Fig. 10: Side, front and back view

6.5.1.3 Mechanical dimensions S500-eCo

> *All mechanical dimensions are given in millimeters and inches. The value in brackets is the inch-value.*

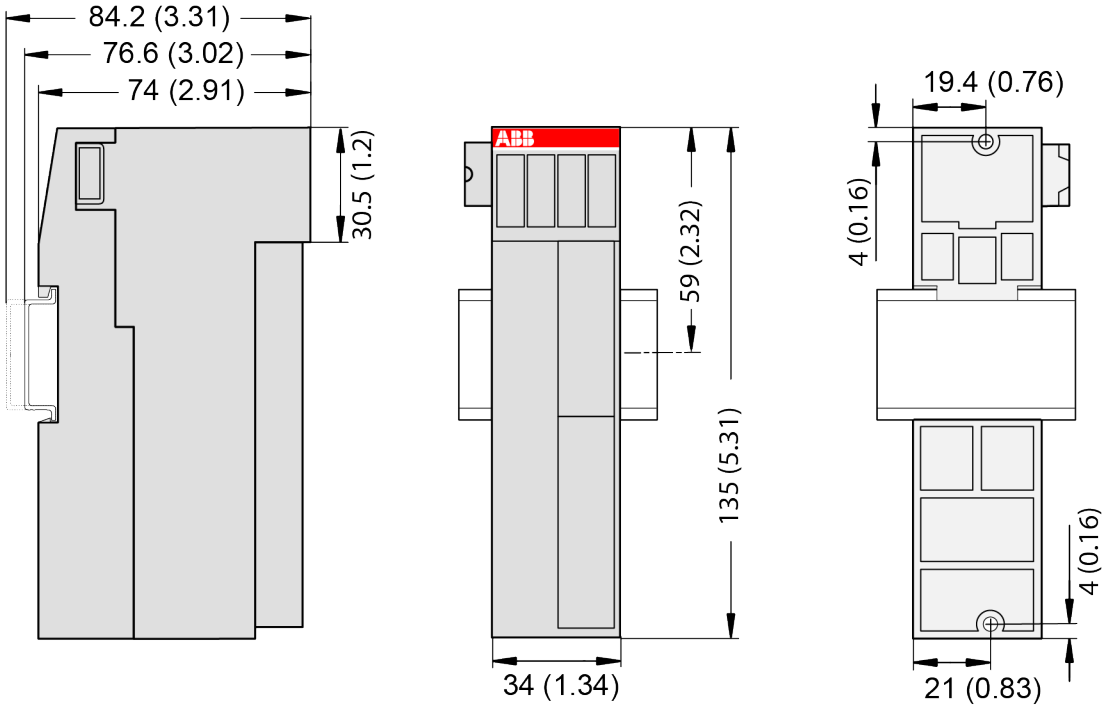


Fig. 11: Side, front and back view