

## Automation Products

### AC500-eCo

## Product News AC500-eCo S500-eCo PTO module

The FM562 is the entry level module for motion applications with AC500 / AC500-eCo PLCs together with servo drives such as ABB MicroFlex Analog.



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### Features

The new **FM562** Pulse Train Output module extends the range of S500-eCo modules and is programmed with the new **Motion Control library PS552-MC-E**.

The module can be used as local I/O with all CPU modules in the AC500 and AC500-eCo range. It can be used as remote I/O with the communication interface modules CI58x-CN, CI50x-PNIO or CI54x-DP in combination with AC500 as master CPU.

Stepper- or servo drives can be controlled by the pulse outputs of the module. The pulse signals are standard RS422 differential signals which are common for such drives. The module can be used for drives with differential inputs (RS422) or single ended inputs (TTL). The maximum frequency is 250 kHz. One module controls two axis. If more axes are required, additional modules can be added to the configuration.

### Programming

Programming the new module with PLCopen® motion control function blocks requires

- the new Motion Control library PS552-MC-E
- ABB Automation Builder 1.0.1 engineering suite
- the new device description to be installed with the Package Manager in Control Builder Plus (part of Automation Builder). The package for Control Builder Plus version 2.3 is available for download at [www.abb.com/plc](http://www.abb.com/plc) in the section **Software Updates** at the right side.

### Applications

The FM562 module is intended for simple motion and point to point positioning applications, typical applications are small machines:

- Packaging machines / food & beverage  
e.g. vertical form fill and seal (VFFS) machines, labeling machines, cartoner
- Material Handling  
e.g. handling & assembly equipment, conveyors, pick and place machines, positioning
- Printing  
e.g. industrial inkjet plotter, label printing, off-set press, folding machines
- Machine tools and metal forming  
e.g. metal/plastic cutting, electrical processing/line cutting, laser processing
- Textile machines  
e.g. printing

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## Advantages

- The FM562 modules can be connected to ABB MicroFlex Analog servo drives.
- Programming with PLCopen® motion control function blocks.
- The profile generator running on the module reduces the load of the CPU. This allows to use AC500-eCo CPUs for positioning tasks with several axis.
- The module fits to all CPU types in the AC500 / AC500-eCo range which allows to select the right CPU performance matching to the number of axis and complexity of the application program.
- Depending on the CPU performance, the modular solution allows up to 10 modules on one CPU, this corresponds to 20 axis.
- The FM562 module can be used in a remote expansion of the CPU. Up to 10 modules on one PROFINET® node, up to 6 modules on one PROFIBUS DP® node or up to 3 modules on one CANopen® node.

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## Product description

Product Type	Order code	Description
FM562	1SAP233100R0001	FM562: S500, Pulse Train Output Module, 2-axis, RS422

## Product description of the software library required for programming

Product Type	Order code	Description
PS552-MC-E	1SAP192100R0002	PS552-MC-E: AC500, Motion Control library Engineering license, PLCopen w. Coord. SW libraries USB Stick w. docu, license

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## Terminal blocks suitable for S500-eCo I/O modules

The modules are delivered without terminal blocks. The terminal blocks used for AC500-eCo CPUs and S500-eCo I/O modules are identical. For each new module one nine pole and one eleven pole terminal block is required and must be ordered separately.

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Description	Product Designation for 9 pole terminal block	Order Code for 9 pole terminal blocks (Quantity: 6 pieces)	Product Designation for 11 pole terminal block	Order Code for 11 pole terminal blocks (Quantity: 6 pieces)
Screw type terminal block with cable insertion from the side	TA563-9	1TNE968901R3101	TA563-11	1TNE968901R3102
Screw type terminal block with cable insertion from the front	TA564-9	1TNE968901R3103	TA564-11	1TNE968901R3104
Spring type terminal block with cable insertion from the front	TA565-9	1TNE968901R3105	TA565-11	1TNE968901R3106

## ABB Automation Products GmbH

Wallstadter Str. 59  
68526 Ladenburg  
Germany  
Phone: +49 (0) 6221 701-1444  
Fax: +49 (0) 6221 701-1382  
Email: plc.sales@de.abb.com

[www.abb.com/plc](http://www.abb.com/plc)

[www.abb.com/drives](http://www.abb.com/drives)

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