Dear Colleagues,
We are pleased to announce the sales release of the new FM562 Pulse Train Output module. The module is programmed with Automation Builder and the Motion Control library PS552-MC-E.

Product features
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.

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 axes. 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 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, offset press, folding machines
- Machine tools and metal forming
e.g. metal/plastic cutting, electrical processing/line cutting, laser processing
- Textile machines
e.g. printing

The FM562 is the entry level module for simple motion applications with AC500 / AC500-eCo PLCs together with servo drives such as ABB MicroFlex Analog and MicroFlex e150.
Customer Benefits
− The FM562 modules can be connected to ABB MicroFlex Analog or MicroFlex e150 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.

<table>
<thead>
<tr>
<th>Product Designation/Order Code</th>
<th>Description</th>
<th>List Price</th>
<th>EAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM562 1SAP233100R0001</td>
<td>FM562: S500, Pulse Train Output Module, 2-axis, RS422</td>
<td>$379</td>
<td>4016779927604</td>
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</table>

Product description and EAN code of the software library required for programmings

<table>
<thead>
<tr>
<th>Product Designation/Order Code</th>
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<th>EAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS552-MC-E 1SAP192100R0002</td>
<td>PS552-MC-E: AC500 Motion Control library Engineering license, PLCopen with Coordinated. SW libraries USB Stick with documentation, license.</td>
<td>$676</td>
<td>4013614492938</td>
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</table>

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.

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

Note : List price for 9-pole terminal blocks is $11 each and list price for 11-pole terminal blocks is $13 each as found in the Motion and PLC price list.
AC500-eCo
Example architecture with ABB motion drive

- Programming with PLCopen Motion Control Library PS552-MC-E
- One FM562 can control two axis
- Fits ABB Motion Drive MicroFlex analog but also standard drives with RS422 interface

AC500-eCo
Connecting FM562 to drive with TTL inputs

- Example tested: ABB analog MicroFlex. E.g. 1 axis.
- Described in Handbook MN1919WEN p. 5-10

Best Regards,

Christopher T. Stamas
Product Line Manager - Automation Products
LBU Discrete Automation and Motion Division, US

ABB Inc
16250 West Glendale Drive
New Berlin, WI 53151
USA
Phone: +1 800 752 0696
E-Mail: drivessupportline@us.abb.com
www.abb.com