SST™ AS-i Communication Modules quickly connect Rockwell CompactLogix, Micrologix 1500 and ControlLogix PLCs to AS-i field devices enabling simple, low cost networking solutions in Industrial Automation

Actuator Sensor Interface (AS-i) is an open fieldbus designed for easy connection of simple field (Slave) I/O devices (e.g. binary ON/OFF devices such as actuators, sensors, rotary encoders, analog inputs and outputs, push buttons, and valve position sensors). AS-i technology offers a low-cost fieldbus networking solution for industrial automation applications, including conveyor controls, packaging machines, process control valves, electrical distribution systems, airport carousels, elevators, bottling lines and food production lines.

SST™ AS-i communication modules are designed for chassis mounting in Rockwell CompactLogix, Micrologix 1500 and ControlLogix PLCs (controllers). The modules interface with signals coming from AS-i field devices, transfer that information to the PLC and send control information back to AS-i actuator devices.

Molex offers a complete AS-i solution backed up by global Molex technical support and inventory for global users of the most popular Rockwell Automation controllers. For more information visit: www.molex.com/link/sstcommunicationmodules.html

Features and Benefits

Actuator Sensor Interface (AS-i) communication modules for Rockwell CompactLogix, Micrologix 1500 and ControlLogix PLCs

- Easily integrate with AS-i field devices for low-cost networking solutions

- Modules conform to AS-i Specification Version 3.0
  Provides optimal data exchange Compatible with the very latest AS-i devices and legacy versions

- Modules can be supplied bundled with configuration software and configuration cable
  Provides complete out-of-box solution

- Inventory and technical support provided by Molex
  Provides high-service and peace of mind for global customers

- Modules can be set-up using software or configuration buttons on front
  Enables fast, easy set-up and quick commissioning

- Fast AS-i cycle time: 150 microseconds \( \times \) (number of slaves +2)
  Ideal for high-speed machine control applications

- Global Encompass Product Partner
  Fully supported and promoted as package system within Rockwell organization

AS-i Communication Module for CompactLogix / Micrologix 1500 PLCs
112019-0006 (SST-ASI-CPX-S)

AS-i Communication Module for ControlLogix PLCs
112019-0005 (SST-ASI-CLX-S)

AS-i Communication Module Package for ControlLogix PLCs
112019-0001 (SST-ASI-CLX)

AS-i Communication Module Package for CompactLogix / Micrologix 1500 PLCs
112019-0002 (SST-ASI-CPX)
Applications

Industrial Automation:
- Food and Beverage
  - Valve control
  - Tank farms
  - Non cross-contamination lines
- Pharmaceutical
  - Valve control
  - Batch processing
  - GMP
- Material handling
  - Conveyors
  - Diverters
  - Sorters
  - Baggage handling

Specifications

ELECTRICAL DATA INTERFACE FOR CONTROLLOGIX
- Operating current:
  - Approx. 70 mA out of AS-interface circuit 1
  - Approx. 70 mA out of AS-interface circuit 2
  - Approx. 390 mA out of power supply 5V DC
  - Approx. 2 mA out of power supply 24V DC
- Operating Voltage: 30V DC
- Insulation Voltage: 500V
- AS-i cycle time: 150 µs* (number of slaves + 2)

LED configuration:
- Green (PWR) = Power on
- Green (OK) = Communication
- Red (Fault) = Configuration error
- Green (U AS-i) = Voltage OK
- Green (Prg enable) = Automatic address
- Yellow (Prg mode) = Config Mode
- Green (AS-i act) = AS-i normal active

ELECTRICAL DATA INTERFACE FOR COMPACTLOGIX AND MICROLOGIX 1500
- Operating current: Approx. 100 mA out of AS-i circuit
- Approx. 450 mA out of power supply 5V
- Operating Voltage: 30V DC
- Voltage of Insulation: 500V
- AS-i cycle time 150 µs* (number of slaves + 2)

LED configuration:
- Green (PWR) = Power on
- Green (OK) = Communication
- Red (Fault) = Configuration error
- Green (U AS-i) = Voltage OK
- Green (Prg enable) = Automatic address
- Yellow (Prg mode) = Config Mode
- Green (AS-i act) = AS-i normal active

MECHANICAL DATA INTERFACE FOR CONTROLLOGIX
- Degree of protection: IP20 acc. to DIN 40050
- Ambient operating Temperature: -0 °C to + 55 °C
- Storage Temperature: -25 °C to + 85 °C
- Mounting: A-B ControlLogix Backplane
- Dimensions (LxWxH): 146*35*132 mm

MECHANICAL DATA INTERFACE FOR COMPACTLOGIX AND MICROLOGIX 1500
- Degree of protection: IP20 acc. to DIN 40050
- Ambient operating Temperature: -0 °C to + 55 °C
- Storage Temperature: -25 °C to + 85 °C
- Mounting: A-B MicroLogix Backplane
- Dimensions (LxWxH): 102*35*132 mm

Ordering Information

<table>
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<th>Order No.</th>
<th>Engineering No.</th>
<th>Rockwell PLC</th>
<th>Package</th>
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<tr>
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<td>SST-ASI-CPX</td>
<td>CompactLogix, Micrologix 1500</td>
<td>AS-i module, software and configuration cable bundle</td>
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<td></td>
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</tr>
</tbody>
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Conversion cables (USB A to DB9, 9-pin port) are commercially available.

www.molex.com/link/sstcommunicationmodules.html