

Super-I/O modules provide distributed controls solutions for fast machine I/O as well as Motorized Roller Conveyors. Modules are programmable using standard Ladder Logic software and can be used in a variety of controls and transport conveyor applications. These modules are equipped with 8-input and 8-output I/O points. Several features are preprogrammed in the firmware that are specifically used in Motorized roller transport conveyor systems, e.g., Upstream and Downstream Interlocking. The Super-I/O modules feature status LEDs for visual verification and troubleshooting of I/O. The Device MACID (Network Node ID) is set using the on-board Rotary Switches.

Key Features

- Ladder based software enables program flexibility
- Status LEDs for inputs, outputs, and Network
- **DeviceNET** compatible
- Open collector outputs can sustain 0.5A load
- Quick disconnect Phoenix I/O Connectors
- Optimized for 8-Zone Motorized Roller conveyors
- Upstream/Downstream Interlock via DeviceNET
- No PC-Host required for standalone operation.
- Serial Port for barcode readers and other peripherals.
- Rotary DIP Switches for Network ID



Network

The Super-I/O module communicates peer-to-peer via DeviceNet. Using special Ladder Commands, you can control outputs and read inputs of other Super-I/O modules over the network, thus providing extremely flexible and expandable I/O. These modules also act as Serial-DeviceNET bridge. This allows you to get on the DeviceNET from any point on the network and access any device for programming and configurations. The bus speed is configurable to 125, 250 and 500 kbps. With a Host PCI/USB CAN adapter, the controllers can be programmed from a central location. OPC server software is also available to access I/O status information from the controllers. Off-the-shelf MMI packages can interface with the OPC server to display control and status screens.

Super- I/O Applications

Typical applications include Intelligent **Machine-I/O, Merge, Divert, Cross-Transfer** and **Accumulation** conveyor systems. However, **SuperLogic**, a ladder based software, allows a unique program to be written for any application imaginable. PC based control software is also available, allowing Visual Basic or C++ software to control these modules via PCI-7202B or USB-8901 CAN adapter.

Network	DeviceNET 125, 250 and 500 kbps. Software configurable
Voltage Range	Module: 12 - 30 Vdc; Network: 18 to 24 Vdc
Current Consumption	Module: 210 mA Max @ 24Volts, Network: 40 mA max.
Dimensions	1 * 2.87 * 9.48 (H*W*L) Inches (Length includes mounting tabs)
Weight	0.7 lbs
Inputs	8 Normally Open, SOURCING (PNP) sensors required; 12 - 24 vDC
Sensor Input Power	Powered from module. Input device current limited to 1.25A (156 mA per input).
Outputs	8 Independent control outputs, sharing common Ground. NPN Open Collector
Output Voltage Drop	0.06 Vdc @ 100 mA, 0.35Vdc @ 500 mA
Max. Output Current	500 mA max.
Serial Port	1 RS232 Port. 9600, 8 Bits, No Parity, 1 Stop Bit. Modem Cable compatible