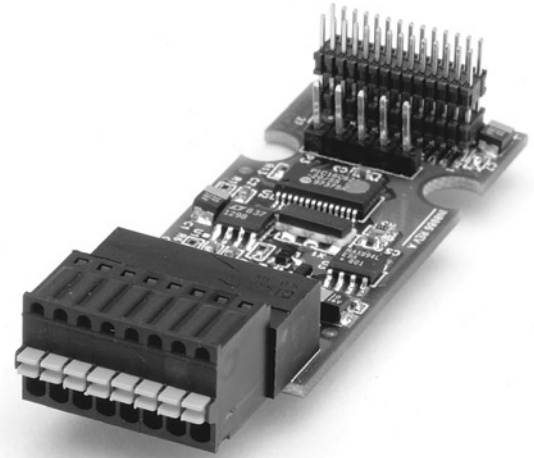


# MICRO LYNX™ EXPANSION MODULE

## ANALOG INPUT/JOYSTICK



### FEATURES

- Low Cost
- Two 0 to +5 VDC Input Channels
- 12 Bit Resolution
- Input Noise Filtering
- Separate Joystick and Calibration References
- Adds the Capability for:
  - Joystick Control
  - Closed Loop Control
  - Data Acquisition
- Plugs Directly into MicroLYNX Controller
- Removable Terminal Strip or Pin Header

### DESCRIPTION

The Analog Input/Joystick Interface Module adds two 0 to +5 VDC analog input channels to the MicroLYNX motion control system. Both channels can be used for data acquisition, or either channel may be used to directly control motion.

The user-selected Joystick channel can be programmed to set the range, zero, dead band and sensitivity. A Setup Joystick command is provided to allow the user to easily set up the Joystick parameters.

Each analog channel uses a 12 bit D/A for better resolution as well as a fixed single pole analog filter with a cutoff frequency of 658 Hz to reduce noise that can be present in industrial environments.

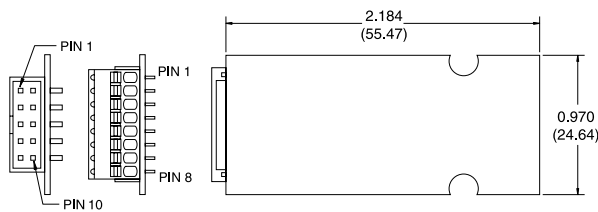
### PIN ASSIGNMENTS

PIN	CONNECTOR OPTION	
	TERMINAL BLOCK	PIN HEADER
1	+5V Joystick Reference	REFERENCE
2	CHANNEL 1	GROUND
3	GROUND	CHANNEL 1
4	REFERENCE	REFERENCE
5	CHANNEL 2	GROUND
6	GROUND	CHANNEL 2
7	4.096V Calibration Reference	NO CONNECT
8	GROUND	GROUND
9		GROUND
10		CALIBRATION

### ELECTRICAL SPECIFICATIONS

Analog Input Voltage Range .....	0 to +5 volts
Resolution.....	12 bits
Offset.....	±3 LSB
Integral Linearity Error .....	±2 LSB
Differential Linearity Error .....	±3/4 LSB
Absolute Maximum Voltage at Inputs .....	±24 volts
Joystick Reference Voltage.....	+5 volts
Calibration Reference Voltage .....	+4.096 volts
Calibration Reference Voltage Tolerance .....	±.2 %
Analog Input Filter Cutoff Frequency .....	658 Hz

### INTERFACE INFORMATION



#### NOTE:

Terminal Block Mating Connector **Supplied.**

Pin Header Mating Connector **Not Supplied.**

Order Information at [www.imshome.com/quick.html](http://www.imshome.com/quick.html)

### ENVIRONMENTAL

Storage Temperature .....	-20 to +70° C
Operating Temperature.....	0 to +50° C
Humidity.....	0 to 90% non-condensing

### ORDER INFORMATION

PART NUMBER	TERMINAL BLOCK	PIN HEADER
		<b><i>MX-DD100-000</i></b>

Standard product shown in bold italics. Lead times may apply to other versions.