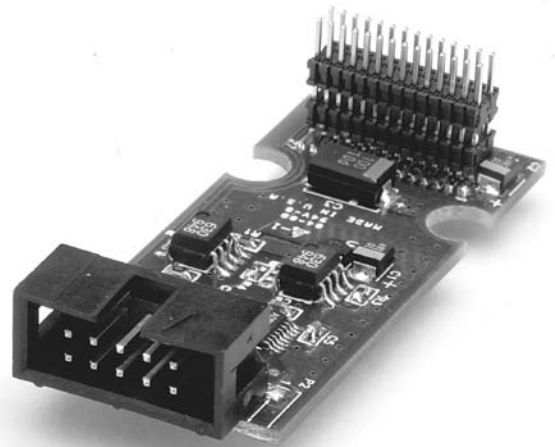


# MICRO LYNX™ EXPANSION MODULE

## ISOLATED COMMUNICATIONS\*

### FEATURES

- Low Cost
- Choice of RS-232 or RS-485 Communications
- Optically Isolated from I/O and Input Power Ground
- Adds a Second Fully Independent Communication Port When Using the CAN Based Control System
- Baud Rates from 4800 to 38.8K
- ASCII Text or Binary Communication Modes
- Plugs Directly into MicroLYNX Controller
- Removable Terminal Strip or Pin Header



### DESCRIPTION

The Communication Module adds either RS-232 or RS-485 to the CAN based MicroLYNX motion control system. This second communication port is fully independent and optically isolated from I/O and input power ground.

This second port may be used to communicate to an operator interface or for system diagnostics while the system is in use.

### PIN ASSIGNMENTS

PIN	CONNECTOR OPTION RS-232	
	TERMINAL BLOCK	PIN HEADER
1	COMM GROUND	NO CONNECT
2	RX	TX
3	TX	RX
4	NO CONNECT	NO CONNECT
5	NO CONNECT	COMM GROUND
6	NO CONNECT	NO CONNECT
7	NO CONNECT	NO CONNECT
8	NO CONNECT	NO CONNECT

PIN	CONNECTOR OPTION RS-485	
	TERMINAL BLOCK	PIN HEADER
1	NO CONNECT	NO CONNECT
2	NO CONNECT	NO CONNECT
3	NO CONNECT	NO CONNECT
4	RX -	NO CONNECT
5	RX +	COMM GROUND
6	TX -	RX +
7	COMM GROUND	RX -
8	TX +	TX -

\*The RS-232 and RS-485 Expansion Modules are used **ONLY** with the CAN based MicroLYNX system.

### ELECTRICAL SPECIFICATIONS

#### RS-232 Receiver

Input Voltage Range ..... ±30 volts  
 Input Threshold Low ..... 0.4 volts  
 Input Threshold High ..... 2.4 volts  
 Input Resistance ..... 3 to 7 kohms

#### RS-232 Transmitter

Output Voltage Swing ..... ±5 volts  
 Output Resistance ..... 300 ohms  
 Output Short Circuit Duration ..... Continuous

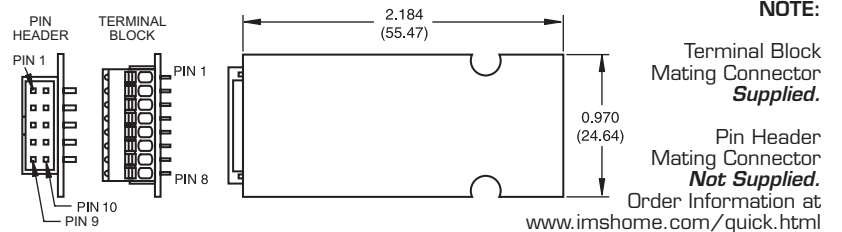
#### RS-485 Receiver

Input Voltage Range ..... -8 to +12.5 volts  
 Input Differential Threshold ..... ±200 millivolts  
 Input Resistance ..... 96 kohms

#### Driver

Differential Output (R=50 ohms) ..... 2 volts  
 Output Voltage Range ..... -8 to +12.5 volts

### INTERFACE INFORMATION



### 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>RS-232 MODULE</b>	<b>MX-CM102-000</b>	<b>MX-CM202-000</b>
<b>RS-485 MODULE</b>	<b>MX-CM104-000</b>	<b>MX-CM204-000</b>

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