



XPORT-EIP-MB MODBUS RTU/ASCII SERIAL TO ETHERNET/IP RJ45

Features

- EtherNet/IP Server / Communications Adapter
- Modbus RTU/ASCII Serial Client
- Compact RJ45 Size
- 10BASE-T / 100BASE-TX Compliant
- Auto-Sensing
- Ethernet Activity and Status LEDs
- Power LED
- Plugs into TTL Serial Port on PCB
- Wide Temperature Range -40° to +85° C
- +3.3 V Operation
- OEM and Custom Versions Available
- Firmware Upgradeable Over Ethernet
- BOOTP Supported

The Xport-EIP-MB is an intelligent RJ45 connector with EtherNet/IP Server and Modbus Client software built-in. The Xport-EIP-MB is a simple component that can be added to your existing circuit board and converts your Modbus RTU/ASCII RS-232 serial TTL port to an EtherNet/IP Ethernet port.

The Xport-EIP-MB is a small RJ45 Ethernet connector that gets soldered onto your printed circuit board. The pins on the Xport are compatible with the RS-232 serial TTL signals that come from your local serial port. The Xport-EIP-MB is powered using +3.3 volts and has an extended temperature range of -40° to +85° C. These specifications allow the Xport-EIP-MB to be used in commercial and industrial applications.

The Ethernet port of the Xport-EIP-MB supports both 10BASE-T and 100BASE-TX Ethernet connections. The serial port of the Xport-EIP-MB supports baud rates up to 230 kbps.

Firmware is upgradeable over Ethernet through standard TFTP services. Firmware updates and documentation are available at <http://developer.gridconnect.com/>.

EtherNet/IP Specs

- Communication Adapter Profile
- EtherNet/IP I/O Server
- Identity Object (Configurable)
- Connection Manager Object
- Message Router Object
- Assembly Object
- Ethernet Link Object
- TCPIP Object
- Vendor Specific Objects to Configure Modbus Client and Register to I/O Message Mapping
- All Required Attributes and Services
- Producer/Consumer I/O Messaging
- CIP Module and Network Status Supported
- Customized Features Available

Ordering Part Number: GC-XPORT-EIP-MB

The Xport-EIP-MB is also available in a finished product called the NET232-EIP cable. The NET232-EIP has the DB9 connector; plastic housing and wall mount power supply.

Xport-EIP-MB Diagrams and Pin-outs

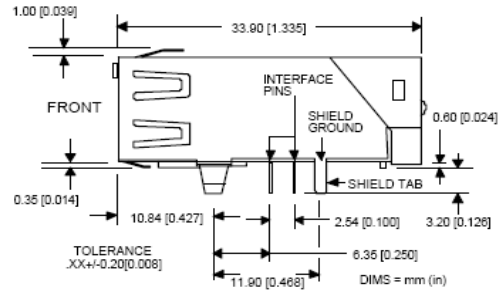
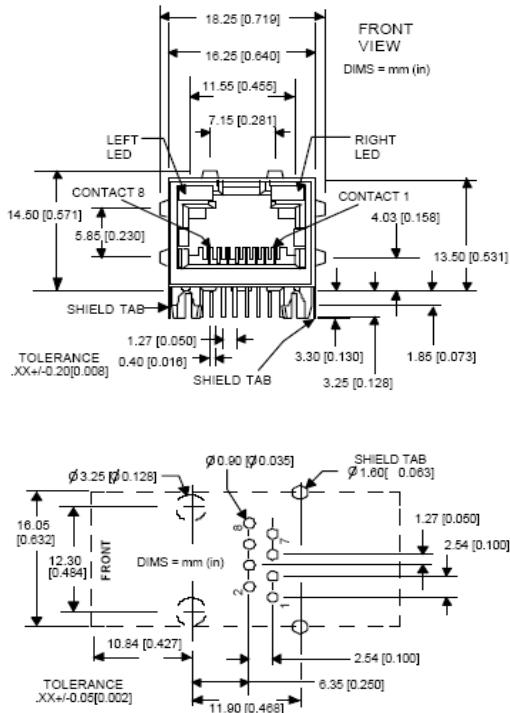


Table 1 - Serial Interface Signals

Signal Name	Pin	Function
GND	1	Circuit Ground
Vcc	2	+3.3V Power In
Reset (In)	3	External Reset In
Data OUT	4	Serial Data Out
Data IN	5	Serial Data In
CP1	6	Configurable Pin 1: Flow control – connects to CTS of attached DTE device, Programmable Digital Input or Output, Status LED 1
CP2	7	Configurable Pin 2: Modem control – connects to DCD of attached DTE device, Programmable Digital Input or Output
CP3	8	Configurable Pin 3: Flow control – connects to RTS of attached DTE device, Modem control – connects to DTR of attached DTE device, Programmable Digital Input or Output, Status LED 3

Note: Configurable Pins 6-8 are not used in the Xport-EIP-MB.

Table 2 - Ethernet Interface Signals

Signal Name	DIR	Contact	Primary Function
TX+	Out	1	Transmit Data +
TX-	Out	2	Transmit Data –
RX+	In	3	Differential Ethernet Receive Data +
RX-	In	6	Differential Ethernet Receive Data –
		4	Terminated
		5	Terminated
		7	Terminated
		8	Terminated
SHIELD			Chassis Ground