gridconnect™ Complete Networking Solutions

XPORT Modbus
Serial Modbus to
Ethernet Modbus RJ45

The XPORT-MBTCP Intelligent RJ45 connector converts a serial Modbus RTU/ASCII device into an Ethernet Modbus TCP device. All standard Modbus commands and messages are automatically converted. The limitations of a serial network are removed; using Ethernet every node has the ability to read/write data to each other.

Providing quality Network products and the best service to our customers.

- Chips
- Modules
- Software
- Products

The XPORT-MBTCP is an intelligent RJ45 connector with Modbus Master or Slave software built-in. The XPORT-MBTCP is a simple component that can be added to your existing board and converts your existing Modbus RTU/ASCII serial TTL port to a Modbus TCP Ethernet port.

The XPORT-MBTCP is available in a finished product called the NET232-MB and NET485-MB.

The XPORT-MBTCP is a small RJ45 Ethernet connector that gets soldered on to your printed circuit board. The pins on the XPort are the serial TTL signals that come from your local serial port.

The XPORT-MBTCP is powered using +3.3 volts and has an extended temperature range of -40 to +85 degrees C. These specifications allow the XPORT-MBTCP to be used in commercial and industrial applications.

The Ethernet port of the XPORT-MBTCP supports both 10/100M Ethernet connections. The serial port of the XPORT-MBTCP supports baud rates up to 115K baud.

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XPORT Modbus

Serial to Ethernet RJ45

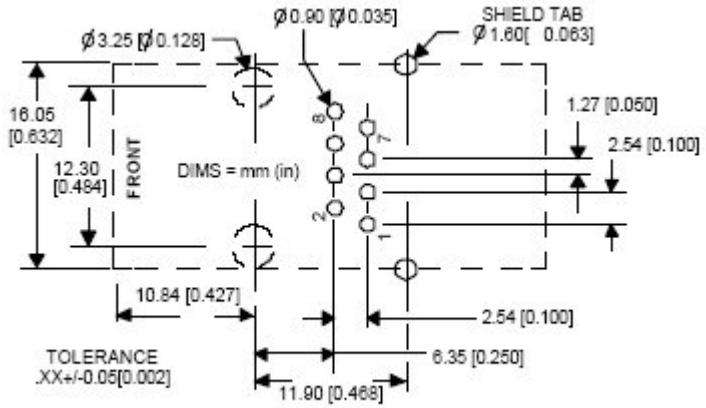
Features

- Compact RJ45 Size
- Modbus RTU/ASCII Serial
- Modbus TCP Ethernet
- All Modbus registers and functions
- Plugs into TTL serial port on PCB
- +3.3 volt operation
- 10BASE-T/100BASE-TX compliant
- Auto-Sensing
- Ethernet Activity and Status LEDs
- Wide temperature range -40 to +85 degrees C
- OEM and custom versions available

Applications

- Fire and Security Panels
- Vending Machines
- Point of Sale Terminals
- Remote equipment management
- IT management services
- Access Control
- Industrial Control
- Home Automation
- Instrumentation
- Building Control
- Power Management

XPORT-MBTCP Diagram



Serial Interface Signals

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

Part Numbers:

GC-XPORT-MBTCP Modbus RJ45 Intelligent Connector

Complete products NET232 & NET485 including the Modbus XPort are also available

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