The EtherModbus gateway allows serial Modbus RTUs to communicate and interoperate with Modbus/TCP based controllers. The Modbus standard protocol is an asynchronous protocol designed to connect directly to computer asynchronous ports. Modbus has been extended to operate over Ethernet using the IP protocol suite. The EMB-02 gateway converts between the Modbus TCP/IP protocol and Modbus ASCII/RTU protocols transparently. The EMB-02 enables one or more MODBUS controllers to communicate with Modbus ASCII/RTU based serial RTUs. It will not allow Modbus/TCP RTUs to operate with a serial MODBUS controller.

The EtherModbus gateway contains two independent serial ports. Each may be configured as RS-232, RS-422, or RS-485 (2 or 4 wire). When configured for RS-485 4-wire, multiple RTU polling strings may be polled on each interface.

For other applications (point-to-point direct RS-232 links or Point-to-multiple point dialed links) see the EtherPath single port serial server. The EtherPath uses TCP/IP.

A companion product, the EtherPoll is appropriate for applications using other protocols. The EtherPoll is protocol independent, and requires no knowledge of the RTU protocol. This allows it to work with any asynchronous byte-oriented protocol with no additional configuration. The EtherPoll uses UDP/IP.

EtherGate is a companion product that is protocol-aware. It enables serial SCADA devices to communicate via an Ethernet network. To transport SCADA protocols over Frame Relay circuits without ethernet, use the DCB BPF Scada-FRAD.
Single Port LAN EMB-02 Server with for Point-to-Multipoint Polled Connections

SPECIFICATIONS

General
- Two serial ports, DTE interface. RS232 or RS-422/485 4-wire Serial port DTE interface, RS485 4-wire bus-mastering
- DE-9 male serial DTE (terminal interface) ports
- Serial speeds from 300 bps to 230,000 bps
- RJ45 10/100BaseT, autoselected
- Set up via telnet command line, the serial port, or Web Browser

Indicators
- Four, for LAN and port status

Controls
- Push button to establish configuration mode
- Configure via Web browser, telnet, or serial port

Physical/Electrical
- 3 1/2" x 5" x 1 3/4", 1 LB
- -40 to +70C, <90% non-condensing RH
- 9-12 volt DC via external 110 VAC power supply
- 270 mA at 12 volts
- 24, 48,125 VDC 240 VAC Optional

APPLICATION:

TYPICAL APPLICATIONS

- Integrating a new Modbus/TCP host into an existing Modbus RTU or Modbus ASCII network
- Extending the life of existing serial RTUs when installing a new Modbus/TCP host computer
- Interface between Modbus/TCP host network and wireless network connecting serial Modbus RTU’s

Data Comm for Business, Inc.
2949 CR 100E
Dewey, IL 61840
Voice 800.432.2638
(800.432.2638)
Fax 217.897.1331
Email info@dcbnet.com
Web http://www.dcbnet.com