



## EtherPoll- Single Port SCADA Serial Server "Ethernet Multi-drop Modem"



### FEATURES

- Configuration via web browser, telnet or direct connection
- Enable SCADA async serial polling via Ethernet
- SNMP agent functionality
- Protocol independent; works with any byte-oriented asynchronous protocol
- Connects up to 32 remotes to each host over Ethernet LAN/WANs
- RS232/422/485 interface speeds to 230 Kbps
- Ideal for Intranet or Internet
- It's an economical async "Ethernet multi-drop modem"
- Works with Modbus, DNP3, IEC 60870-5-101, and most async point-to-point or multi-drop 8-bit protocol
- Redundant hosts are simple with the EtherPoll

### DESCRIPTION

The EtherPoll is a SCADA communications serial server that allows multi-drop devices to use Ethernet LANs. The EtherPoll connects any async serial device through a LAN and between LANs via routers. The EtherPoll is designed specifically to support asynchronous polling protocols, such as Poll Select, Modbus, DNP, etc. These protocols are often error corrected, and the EtherPoll allows these protocols to work through routed LANs and over IP protocol networks. The EtherPoll uses IP protocol, allowing the necessary data connection over a local LAN and across routed networks. The EtherPoll functions independently of the device protocol, allowing most 8 bit asynchronous protocols to be used with no configuration changes.

The EtherPoll maps incoming serial data to one or multiple remote IP addresses. This feature makes it easy to have redundant host sites that will always receive the same poll responses as the master host site. So if you have the objective of installing a backup host site or have a second site that always monitors the RTU responses, the EtherPoll makes it simple and easy to accomplish.

The EtherPoll supports serial interface speeds up to 230 Kbps. Since it uses the UPD/IP protocol, overhead is much lower than it would be if TCP/IP were used since there is no "session setup" or "session breakdown" with each connection. Up to 32 remote EtherPolls may be used with each host EtherPoll. The serial interface is RS232 or RS422 or RS485, including 2-wire RS485.

The EtherPoll can be managed directly through the server's physical port as well as remotely from other network locations. Remote configuration is supported using TCP/IP (telnet) or any web browser.

Security features embedded in the EtherPoll include fine-grained configuration and management controls, as well as the ability to turn off remote management functions.

Instead of replacing your existing RTUs and SCADA system to go ethernet, add the EtherPoll for a fraction of the cost. OEM manufacturers can design the EtherPoll into their products or use it as an add-on method to gain ethernet connectivity. DCB supplies the EtherPoll to many other companies and can provide custom firmware for specific applications.

# EtherPoll- Single Port LAN EtherPoll Server for Point-to-Multipoint Polled Connections

## SPECIFICATIONS

### General

RS232 serial port, DTE interface  
RS422/485 4-wire Serial port DTE interface  
RS485 2-wire DTE port interface  
DE-9 male serial DTE (terminal interface) port  
Serial speeds from 300 bps to 230,000 bps  
RJ45 10/100BaseT  
Communications via UDP protocol  
Set up via telnet command line, the serial Port, or web browser

### Indicators

Link and Error LEDs

### Controls

Push button to establish configuration mode  
CE Mark Approved

### Physical/Electrical

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

### Typical Applications

- Connecting a host computer to remote terminals that are polled using asynchronous polling protocols
- Connecting SCADA host computers to RTUs
- Connecting Poll Select host computers to terminals using Poll Select protocol
- Broadcasting data from a single host port to multiple remote locations, such as multiple signs displaying identical data
- Migrating serial polled terminals to IP/ethernet based networks



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## APPLICATION

