

Single Port SCADA Serial Server "Ethernet Multi-drop Modem" CE

Model EPL-1

Description

Also referred to as the EtherPoll, Model EPL-1 is a SCADA communications serial server that allows multi-drop devices to use Ethernet LAN's. The EtherPoll connects any asynchronous serial device through a LAN and between LAN's 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 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 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. Instead of replacing your existing RTUs and SCADA system to go Ethernet, add the EtherPoll for a fraction of the cost.

Features

- Configuration via Web Browser, Telnet, or direct connection
- SNMP agent functionality
- SCADA polling protocols via Ethernet
- RS-232 interface speeds up to 230K baud
- Use on the LAN or via Routers
- Ideal for Internet or Intranet
- Economical asynchronous "Ethernet multi-drop modem"
- Connect up to 32 remotes to each host over Ethernet LAN/WANs
- Protocol independent, works with any byte-oriented async. protocol
- Works with commonly used Modbus ASCII and Modbus RTU protocols



RS-232 Connector

The serial port of the EPL-1 module uses a male DB-9 connector. Pin outs of the DB-9 are shown below in the table.

DB-9M Pin Number	RS-232 Mode	Type
1	DCD	In
2	RD	In
3	TD	Out
4	DTR	Out
5	GND	---
6	DSR	In
7	RTS	Out
8	CTS	In
9	RI	In

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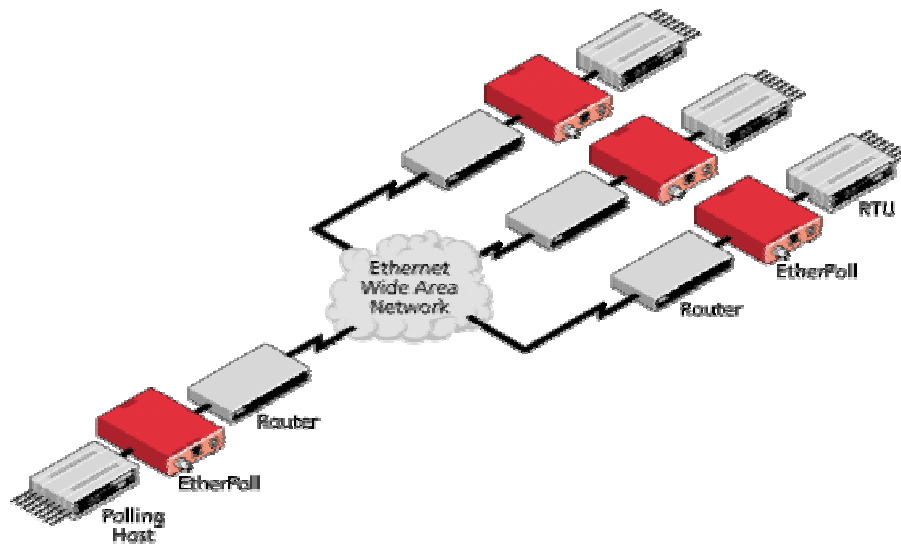
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Applications



Specification Summary

Protocols:	TCP/IP, UDP/IP, ARP, ICMP, TELNET, SNMP
OS:	All versions of Windows Unix – SCO, Sun, AIX, Linux Macintosh (Requires a Telnet program that is able to address different port values e.g. port 3000, port 8000)
Indicators:	Link and Error LED's
Controls:	Two DIP switches used to establish operating mode
Mode Supported:	Normal operating mode (point-to-multipoint) Broadcast mode (point-to-multipoint) Normal mode with backup polling host
RS-232 Mode:	Supports TD, RD, RTS, CTS, DTR, DSR, DCD, & RI
Baud Rate:	300 to 230K baud
Connector:	DB9 male (DTE configuration)
Flash Memory:	512KB
SRAM:	512KB
NVRAM:	512B
Network:	Ethernet 10Base-2 (thin BNC connector) & 10Base-T (twisted pair RJ45 connector)
CPU:	Intel 186-25
RS-232 Buffer:	4KB
LAN Buffer:	16KB
Dimensions:	3.5 x 4.8 x 1.3 in (8.9 x 12.1 x 3.2 cm)
Power:	500 mA @ 9 VDC output with 120 VAC @ 60 Hz input external power supply (US) 500 mA @ 9 VDC output with 250 VAC @ 50 Hz input external power supply (European)
Power Consumption:	15 W maximum

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