



Encrypted EtherPoll EEP-2 Two Port SCADA Serial Server "Ethernet Multi-drop Modem" with AES-128

DESCRIPTION

The Encrypted EtherPoll EEP-2 is a SCADA communications serial server that allows multi-drop devices to use Ethernet LANs. Using the EEP-2 AES-128 bit encryption, even the Internet can be used securely. It connects any async serial device through a LAN and between LANs via routers, and is designed specifically to support asynchronous polling protocols, such as Poll Select, Modbus, DNP3, etc. The EEP-2 uses IP protocol, allowing the necessary data connection over a local LAN and across routed networks. The EEP-2 functions independently of the device protocol, allowing most 8 bit asynchronous protocols to be used with no configuration changes.

The Encrypted EtherPoll EEP-2 maps data from a serial port to as few as one IP address, to as many as 32 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. If you have the objective of installing a backup host site or have a second site that always monitors the RTU responses, the EEP-2 makes it easy.

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

The Encrypted EtherPoll EEP-2 can be managed directly through the serial port or via TCP/IP telnet or a web browser.

Security features embedded in the Encrypted EtherPoll EEP-2 include fine-grained configuration and management controls, as well as the ability to turn off remote management functions.

Instead of replacing your existing serial RTUs and SCADA system with ethernet RTUs, add the Encrypted EtherPoll EEP-2 for a fraction of the cost. OEM manufacturers can design the EEP-2 into their products or use it as an add-on method to gain ethernet connectivity. DCB supplies the EEP-2 to many other companies and can provide custom firmware for specific applications.



FEATURES

- AES-128 encryption for serial polling IP networks
- Ideal for Intranet or the Internet
- Encryption can be enabled or not enabled by port
- 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
- Each serial port connects up to 32 remote IP addresses over Ethernet LAN/WANs
- RS232 interface speeds to 230 Kbps
- Two independent serial ports
- The EEP-2 transports multidrop serial poll/response data over Ethernet/IP networks
- Industrial temperature rating of -40° to +75° C
- Works with Modbus, DNP3, and most async point-to-point or multi-drop 8 bit protocol
- Redundant hosts for backup sites are simple with the Encrypted EtherPoll EEP-2
- Compatible with single port EtherPoll in non-encrypted mode

Encrypted EtherPoll EEP-2 - Two Port SCADA Serial Server "Ethernet Multi-drop Modem" with AES-128 Encryption

SPECIFICATIONS

General

- Two independent RS232 serial ports, DTE interface
- DE-9 male serial DTE (terminal interface) ports
- Serial speeds from 300 bps to 230,000 bps
- RJ45 10/100BaseT
- Either or both ports use AES-128 encryption or can be non-encrypted
- Communications via UDP protocol
- Set up via telnet command line, the serial port, or web browser
- CE Mark Approved

Indicators

Power, Status, Port Activity, LAN Connection, LAN Activity

Controls

DIP switch selection for serial port setup

Physical/Electrical

- 6 volt DC via external 100-240 VAC power supply, UL and CE
- 4 1/4" x 5 1/2" x 1 3/4"
- One pound
- -40 to +75C
- <95% non-condensing relative humidity
- 500 mA at 6 VDC
- 12, 24, 48,125 VDC 240 VAC Optional – see photo

APPLICATION

Typical Applications

- Connect SCADA host computers to RTUs
- Broadcast data from a single host port to multiple remote locations, such as multiple signs
- Migrate serial polled terminals to IP/ethernet based networks
- Securely operate SCADA systems over public networks, including the Internet



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