



# EtherGate

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



- Configuration via Browser, telnet or serial port
- Poll async serial SCADA devices via Ethernet
- SNMP agent functionality
- Protocol aware... works DNP3...call for other 8-bit protocol compatibility
- Protocol awareness reduces bandwidth needed, makes it great for CDPD applications
- Supports up to 20 remote addresses
- RS-232/422 interface speeds to 230 Kbps
- Ideal for Intranet or Internet
- It's an economical async "Ethernet multi-drop modem"
- Redundant hosts are simple with the EtherGate

### DESCRIPTION

The EtherGate is a SCADA communications serial server that allows multi-drop devices to use Ethernet LAN's. The EtherGate connects async serial devices through a LAN and between LAN's via routers. The EtherGate is designed specifically to support asynchronous polling protocols. The initial release supports DNP3. Call for other 8-bit SCADA protocol compatibility, such as Modbus.

These protocols are often error corrected, and the EtherGate allows these protocols to work through routed LANs and over IP protocol networks. The EtherGate uses IP protocol, allowing the necessary data connection over a local LAN and across routed networks. The EtherGate is protocol aware, which leads to less bandwidth being used by the EtherGate. Consequently, the EtherGate is ideal of CDPD applications where the available bandwidth is severely limited.

The EtherGate maps incoming serial data to one or multiple remote IP addresses. With this feature it is possible to have the remote EtherGate send its responses back to the primary host site and to a backup host site. This makes it easy to have redundant host sites that always receive the same poll responses as the primary host site. The EtherGate makes backup sites simple and easy to accomplish.

The EtherGate supports serial interface speeds up to 230 Kbps. Since it uses the UPD/IP protocol, overhead is much lower than with TCP/IP. There is no "session setup" or "session breakdown" with each connection. Up to 16 remote EtherGates may be used with each host EtherGate. The EtherGate 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 EtherGate for a fraction of the cost. OEM manufacturers can design the EtherGate into their products or use it as an add-on method to gain Ethernet connectivity. DCB supplies the EtherGate to many other companies and can provide custom firmware for specific applications.

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

## SPECIFICATIONS

### General

RS-232 or RS-422/485 serial port, DTE interface  
DE-9 male serial DTE (terminal interface)  
port

Serial speeds from 300 bps to 230,000 bps

RJ45 10/100 BaseT

Supports UDP protocol

Set up via telnet command line, the serial  
Port or Web Browser

### Indicators

Link and Error LED's

### Controls

Push button to establish  
Configuration mode

### Physical/Electrical

5 1/2" x 4 1/4" x 1 1/2", 1 LB

-40 to +70C, <90% non-condensing RH

9 to 12 volt DC via external 110 VAC supply  
270 mA at 9 volts

12, 24, 48, 125 VDC and 240VAC optional

## TYPICAL APPLICATIONS

- Connecting a host computer to remote terminals that are polled using asynchronous polling protocols
- Connecting SCADA host computers to RTU's
- 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



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## APPLICATION:

