DATA COMM FOR BUSINESS

EtherSeries Bridge

FEATURES

- **No configuration, easy setup mode**
- **Learning ethernet bridge**
- **Point-to-Point or Multi-Point firmware available**
- **Protocol independent**
- **No routing configuration required... ever**
- **10/100BaseT Ethernet interface**
- **RS232 interface to 921.6 Kbps**
- **RS422/485 interface to 230.4 Kbps**
- **Ideal companion to 900 mHz and 2.4 gHz spread spectrum wireless modems**
- **Advances Management allows SNMP, web browser, telnet, or terminal management**

DESCRIPTION

The EtherSeries Bridge uses asynchronous serial port links to bridge ethernet between 2 or more locations. The link between the EtherSeries Bridges is asynchronous RS232, RS422, or RS485 (4 wire) running at speeds between 300 bps and 230.4 Kbps for the RS422/485 interfaces, to 921.6 Kbps for the RS232 interface.

The EtherSeries Bridge operates at the layer 2 ethernet level, so it is protocol independent. It bridges TCP/IP, AppleTalk, DecNet, Netbui, or any protocol that can be transported over ethernet. This makes the EtherSeries Bridge easy to set up. No configuration is necessary.

The EtherSeries Bridge transfers data over the bridge only if it is destined for an ethernet address (MAC layer address) on the other side of the bridge. Traffic is filtered, much the same way an ethernet switch filters ethernet traffic, to maximize available bandwidth. Unless ***advanced management*** is required, no IP address is involved and there is no set-up other than matching serial port speeds. ***Advanced management*** allows SNMP, web browser, and telnet based management of the bridge.

The EtherSeries Bridge learns the addresses quickly. This allows, for example, a technician to be working at one end of the bridge with a laptop computer, then move the laptop to the other side, with no need to reset the bridge. The bridge learns within a few packet times that the computer and its ethernet address moved to the other side of the bridge.

The EtherSeries bridge is much easier to use than a router. There is no IP address, no subnet mask, no destination IP address to setup. Plug in the EtherBridge and use the network. Popular in the early 90's, bridging technology was often abandoned as communication equipment hardware grew to offer routing capability. However, using a router for small networks adds tremendous complexity, overhead, and requires knowledge of protocols and IP subnet configuration. In addition, there are many non-routable protocols in use. The availability of an inexpensive ethernet WAN bridge now brings back economy and simplicity for LAN connections that typically use fewer than several hundred computers.

SPECIFICATIONS

General
RS232/422/485 serial port, DTE interface
DE-9 male serial DTE connector
Serial RS422/485 to 230.4 Kbps, RS232 to 921.6 Kbps
RJ45 10/100BaseT ethernet
Protocol independent
Supports SNMP

Indicators
LAN valid
Ethernet LAN activity
Serial link activity

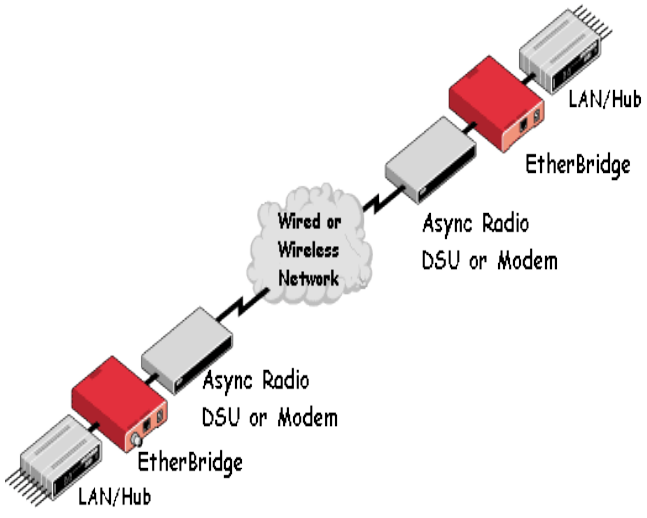
Controls
Configuration push button
Optional management via web browser, telnet, or terminal connection, SNMP reporting built-in

Physical/Electrical
4" x 5 ½ " x 1¾ "
One pound
-40 to +70 C
<95% non-condensing relative humidity
9 to 12 volt DC external 110 VAC power supply
12, 24, 48 and 125 VDC also available
Less than 300 mA at 9 volts
15 watts max power consumption

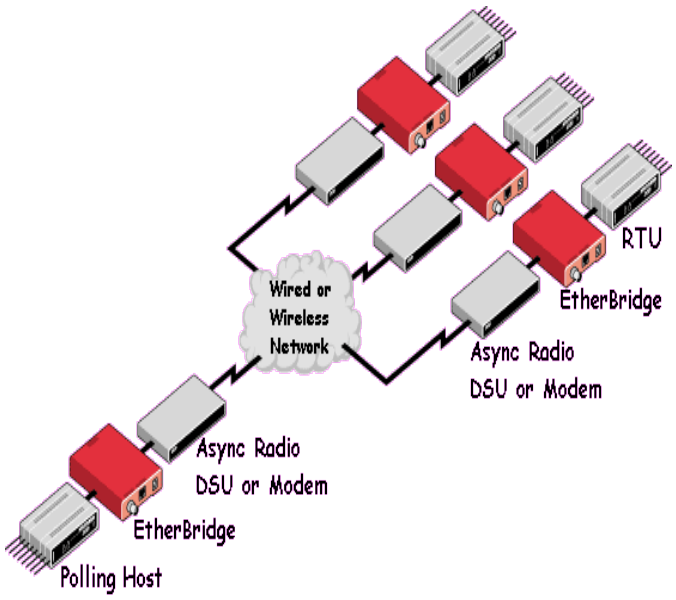
Typical Applications
- Bridging ethernet segments
- Bridging LANs with wireless radio connections
- Connecting SCADA host computers to RTUs
- Bridging LANs using low speed connections

Data Comm for Business, Inc.
2949 CR 1000 E
Dewey, IL 61840
Voice 8004DCBNET
(800.432.2638)
Fax 217.897.1331
Info www.dcbnet.com/contact.html
Web http://www.dcbnet.com

APPLICATION



Point-to-Point



Point-to-Mulitpoint