



## EtherSeries Bridge - Ethernet WAN Bridge



- No configuration, easy setup mode
- Learning, Ethernet bridge
- Protocol independent
- No routing configuration required... ever
- 10/100BaseT Ethernet interface
- RS-232/422/485 interface at 230.4 Kbps
- Ideal companion to 900 MHz and 2.4 GHz spread spectrum wireless modems
- **Advanced Management** allows SNMP, Web-browser, telnet, or terminal management

### DESCRIPTION

The EtherSeries Bridge is an easy to use Ethernet bridge. The link between the EtherSeries Bridges is asynchronous RS-232, RS-422, or RS-485 (4 wire) running at speeds between 300 bps and 230.4 Kbps.

The EtherSeries Bridge is 100% protocol independent. It will bridge 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 that must be set up in the bridge. There is no subnet mask to setup. There is no destination IP address to setup. You just plug it in 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 subnetting. In addition, there are many non-routable protocols in use. The availability of an inexpensive Ethernet WAN bridge now brings back those economies and simplicity for LAN connections that typically use fewer than several hundred computers.

## EtherSeries Bridge

### SPECIFICATIONS

#### General

RS-232/422/485 serial port, DTE interface  
DE-9 male serial DTE connector  
Serial interface of 230.4 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 1 ½"  
1 LB  
-40 to +70 C, <95% non-condensing RH  
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 RTU's
- Bridging LANs using low speed modems



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### APPLICATION:

