GDI Communications LLC
Transportation Communications Specialists

Model DCB-ESB EtherBridge

FEATURES

* **No configuration, easy setup mode**
* **Learning, Ethernet Bridge**
* **Protocol Independent**
* **10/100BaseT Ethernet Interface**
* **Available with optional 2nd independent WAN port**
* **Advanced Management allows SNMP, Web-browser, telnet, or terminal management**

Description

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

The EtherBridge 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 EtherBridge 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 EtherBridge 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 EtherBridge 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.

GDI Communications LLC
PO Box 1330, Verdi, NV 89439
Ph: 775-345-8000 Fax: 775-345-8010 E-mail: sales@sgdi.net

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Specifications

General

* RS232/4522/485 serial port, DTE interface
* DE-9 male serial DTE connector
* Serial interface upto 230.4 Kbps
* RJ45 10/100BseT Ethernet interface
* Protocol independent
* Supports SNMP

Indicators (rear panel)

* 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/Environmental

* 4" x 5.25" x 1.5"
* 1 lb
* 9—12 volt DC (external power supplies available for 110 or 220 VAC, 24, 48 and 125 VDC also available
* Less than 300 mA @ 9 VDC
* 15 watts max power consumption
* -30 to +70°C
* <95% non-condensing RH

Specifications subject to change without notice

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