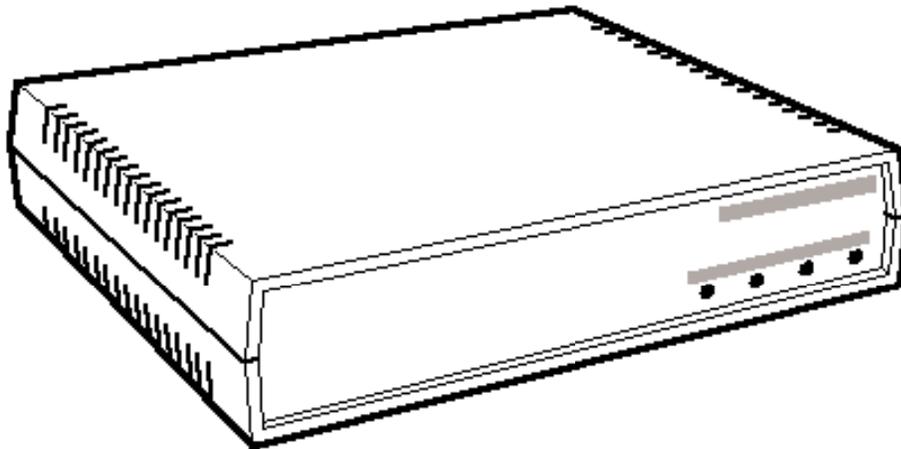


# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### Local Ethernet Bridge



*Finally, a plug-and-play Ethernet Bridge—management included.*

*An economical, entry-level Local Ethernet Bridge.*

#### Key Features

- ▶ *It's protocol independent.*
- ▶ *Includes source- and destination-filtering.*
- ▶ *Supports Telnet™ and SNMP in-band management.*
- ▶ *Supports out-of-band management via a console port.*
- ▶ *Truly plug-and-play.*
- ▶ *Includes front-panel LEDs.*
- ▶ *Extra fault-tolerance with Spanning Tree.*
- ▶ *Choose from three models.*

Compatibility is never a problem with the Local Ethernet Bridge.

You control what traffic travels between network segments, with two filter functions—source-filtering and destination-filtering. Source-filtering lets you stop a specific workstation from accessing any network services on the other LAN segment. With destination-filtering, you can prevent a workstation from accessing a specific resource on the bridged segment.

The Bridge's SNMP agent supports virtually any SNMP management software. Use the Bridge's on-board menu management system to maintain LAN and link statistics, troubleshoot, and perform diagnostics.

You won't spend hours installing this Bridge because it doesn't require program-ming. On power-up, it automatically creates address tables and learns node addresses. And, thanks to Media Access Control (MAC), it

automatically learns to filter network traffic.

Front-panel LEDs keep you up to date on the status of your network. You'll know if there's trouble on the line before your system goes down.

The Spanning Tree Protocol detects and eliminates loops. It also supplies backup data paths, so your network integrity stays intact.

Choose from three models. All three have two AUI connectors. The Dual BNC model has two BNC connectors, the Dual 10BASE-T model has two

10BASE-T connectors, and the 10BASE2 and 10BASE-T model has one BNC connector and one 10BASE-T connector.

#### Typical Applications

*In your building, you have two Ethernet LANs. Join them with the Local Ethernet Bridge. And each LAN can communicate and access the other. It's an affordable solution for local Ethernet bridging—with flexible media connections.*

*With the Local Ethernet Bridge, connecting two segments on an Ethernet LAN takes minutes—not hours.*

## Technically Speaking

### Bridges and the OSI Model

A bridge gives you both the physical and the logical connection between two networks. A bridge generally connects two networks with the same communication protocols, the same transmission methods, and the same addressing structure.

OSI, or Open System Interconnection, represents a model for networking developed by the International Standards Organization. There are seven layers in the model—Physical, Data Link, Network, Transport, Session, Presentation, and Application. Bridges function at the Data Link (second) layer of

the OSI model.

### The Local Ethernet Bridge's Additional Filtering Capabilities

Along with source-filtering and destination-filtering, the Local Ethernet Bridge offers filtering by protocol. This function stops certain data packets (including broadcast and multicast packets) from crossing over to the bridged LAN segment that has no use for them. Protocol-filtering improves network efficiency, because it cuts down on internetwork traffic. Masks enable you to restrict data packet access in order to filter specific combinations of information. For example, you can filter by destination address

within the Internet Transport Protocol packet. You can even filter by station addresses—blocks of assigned Ethernet addresses.

The Complete Package  
*What you get when you order the Local Ethernet Bridge:*

- The Bridge
- Operation and Installation Manual

Additional equipment you may need:

- Transceiver PVC Cable
- Category 5 UTP Cable
- ThinNet Cable

For these and other components...

*Call our expert Technical Support Staff for all your LAN needs. They'll help you find the best equipment for your application.*

## Specifications

**Speed** — 10 Mbps; Filter rate: 17,500 pps; forwarding rate: 11,000 pps

**Connectors** — All: (2) DB15 AUI female; LB1202A-R2: (2) DB15 female, (2) BNC, (1) DB25 Female; LB1210A-R2: (2) RJ-45 female, (2) DB15 female, (1) DB25 female; LB1212A-R2: (1) BNC, (1) RJ-45 female, (2) DB15 female, (1) DB25 female

**Power**—115/230 VAC 60/50 Hz autosensing

**Size**—5.1H x 24.4W x 30.5D cm

**Weight**—5 kg

## Ordering Information

*This information will help you place your order quickly.*

PRODUCT NAME	ORDER CODE
Local Ethernet Bridges	
Dual 10BASE2 .....	LB1202A-R2
Dual 10BASE-T .....	LB1210A-R2
10BASE2 and 10BASE-T .....	LB1212A-R2