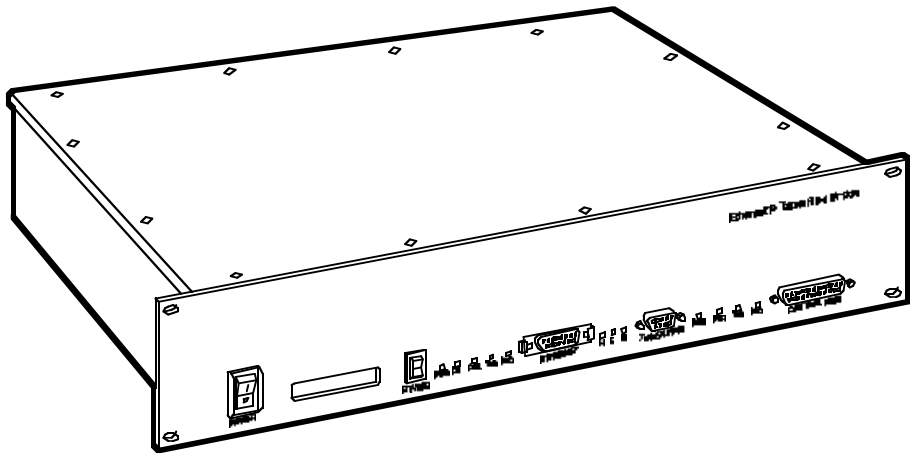
BLACK BOX®
NETWORK SERVICES

Ethernet to Token Ring Bridge

Connect your Token Ring LAN to an Ethernet LAN.



Key Features

- *Conforms to the IEEE 802.1d (spanning tree), 802.2 (LLC), 802.5 (token ring), and 802.3 (Ethernet) standards.*
- *Compatible with SNMP managers.*
- *Supports TCP/IP, SNA, NetBIOS, and Novell® IPX™.*
- *Supports the Bridge Manager Program, IBM® LAN Manager, IBM LAN Network Manager, and NetView®.*
- *Emulates standard IBM server functions for communication with IBM LAN Manager, IBM LAN Network Manager, and NetView.*

The Ethernet to Token Ring Bridge provides a transparent connection to applications running the same protocol on token-ring and Ethernet LANs.

All bridges are controlled by the Bridge Manager, a software program that runs on a PC on the token-ring LAN. The Bridge Manager performs control and statistics-gathering functions on one or more bridges and can download operating-code upgrades to the bridges through the network.

A PC running Bridge Manager may also be attached directly to the serial control port on the Ethernet to Token Ring Bridge.

Front-panel LEDs and LCD display current bridge and network status.

Two memory banks allow reliable operating-code upgrades. You can download code upgrades through the token-ring network without disrupting bridging operations.

And the Bridge is compatible with both 4- and 16-Mbps token-ring networks.

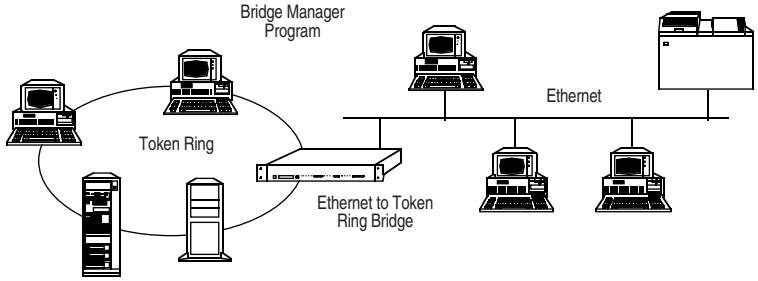
You also get two levels of password protection.

The Bridge is easily mounted in a standard 19" rack.

Typical Application

Connect an Ethernet LAN to a Token Ring LAN, transparent to protocol.

The Ethernet to Token Ring Bridge provides a transparent connection between two LANs.



Technically Speaking

You can set certain options for the Ethernet to Token Ring Bridge via software or hardware jumpers.

The token-ring LAN speed can be changed either by using the Bridge Manager Program or by switching a jumper on the main circuit board. The default setting is 4 Mbps, software-selected.

The Bridge has two operating modes: startup and bridge mode. You can change the operating mode by issuing a command from the Bridge Manager. In startup mode, a bridge will communicate with each network, but frames will not be bridged. It will accept configuration changes, commands, and code downloads from, and send reports to, a Bridge Manager. In bridge mode, the unit will bridge source-routed frames, communicate with the Bridge Manager, logically filter frames, and emulate IBM LAN Management Server functions.

Specifications

Data Rates—4 or 16 Mbps on the token-ring interface; 10 Mbps on the Ethernet interface; 300, 600, 1200, 2400, 4800, or 9600 bps on the control port

Connectors—Front panel: (1) female DB9 for connection to the token ring, (1) female DB15 AUI for connection to the Ethernet, (1) male DB25 serial control port; Rear panel: (1) IEC connector

Indicators—(2) System LEDs: PWR, OK; (3) Ethernet LEDs: COL, TxD, RxD; (3) Token Ring LEDs: H, S, N; (4) Control Port LEDs: DSR, DTR, TxD, RxD

Diagnostics—Bridge Manager Software and LEDs

Fuse—1 amp, 250V slo-blo

Protocols Supported—IP, IPX, NetBIOS, SNA

Standards—IEEE 802.1d (spanning tree), 802.2 (LLC), 802.5 (Token Ring), 802.3 (Ethernet)

Storage Temperature—-55 to +85°C

OperatingTemperature — 0 to 50°C

Operating Humidity—Up to 95% noncondensing

Operating Air Pressure—3048m(10,000 feet) maximum altitude

Power—85 to 264 VAC; 35 watts average power consumption; 45 watts maximum

Size—8.9H x 48.3W x 36D cm (3.5″H x 19″W x 14″D)

Weight—4.5 kg (10 lb.)

Additional equipment you may need:

- Type 1 or Type 3 twisted-pair cable
- Media filter (if you are using Type 3 twisted-pair cable)
- Ethernet transceiver cable
- Modem 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.

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Ethernet to Token Ring Bridge	LB5000A
Type 1 adapter cable	EVNTRD9
Type 3 twisted-pair cable	EVMSL10
Media Filter	LT158A
Ethernet Transceiver Cable	LCN200 or LCN210
Straight-Through DB25 Cable	ECM25C
DB9 to DB25 Modem Cable	BC00301