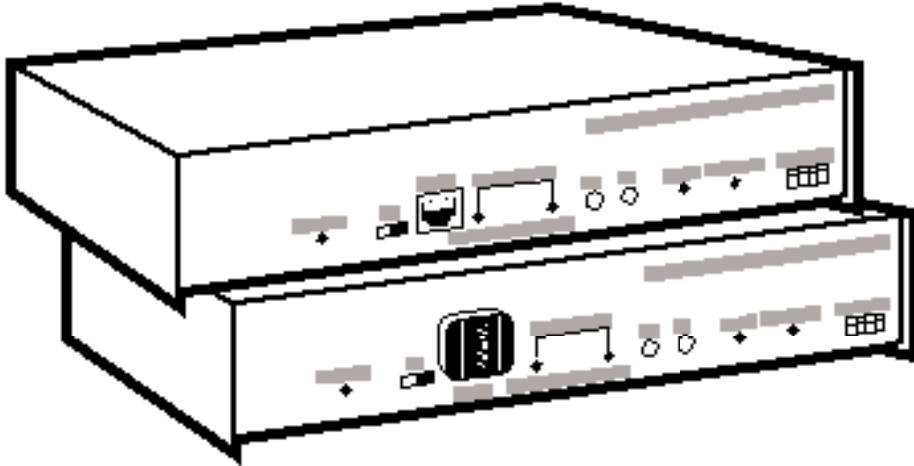


# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### 4/16 Mb Fiber Repeaters for Token Ring



*Our 4/16 Mb Fiber Repeaters can link or extend your Type 1 or Type 3 Token Rings across vast distances, over reliable, secure fiberoptic cable.*

*Our 16 Mb Fiber Repeaters give your 4- or 16-Mbps Token Ring the fiberoptic edge; one pair boosts signals up to 10,000 ft. (3048 m).*

#### Key Features

- ▶ *One pair extends a main Token Ring circumference by up to 3048 m over fiber cable.*
- ▶ *Connects widely separated lobes or stations.*
- ▶ *Operates at 4 or 16 Mbps to give you speed, flexibility, and easy upgrading.*
- ▶ *Automatic loopback keeps the Token Ring up and running even when a line fails.*
- ▶ *Fiberoptic links provide both distance and data security.*

#### Overview

Install a campus Token Ring LAN, extend an existing LAN to include distant users, or connect separate rings already in place. All you need is a pair of our 16 Mb Fiber Repeaters. They can greatly expand the geographic range of your Token Ring LAN: each pair can add as much as 3048 m of fiber-optic distance. And, of course, fiberoptic links are ideal for maintaining data integrity and network security in hostile environments.

A pair placed between the RO port of one MAU and the RI port of another stretches the main ring to service your whole site. Installed between lobe ports of two MAUs on different small-scale rings, a pair creates one fiberoptic segment of a large, lobe-to-lobe main ring. Other Repeaters would form a matching segment or segments to complete the ring, allowing local

groups to function independently and yet still be interconnected. Or, a pair placed between a MAU lobe port and a station extends a lobe to include that one distant workstation that would otherwise cause you network-design and installation headaches.

If you only run at 4 Mbps right now, the 16 Mb Fiber Repeaters can be set to match that speed with external switches. Then, if and when you want to migrate to 16 Mbps, you won't have to replace repeaters. Just reset the switches and your

Repeaters will be ready to perform at top speed.

Even cable breaks are no problem for these Fiber Repeaters. Whether they're operating in RI/RO mode or lobe-to-lobe mode, their automatic loopback circuitry keeps your Token Ring running even when there is a main ring fault.

#### Typical Applications

*Install between MAU RI/RO ports to extend the circumference of your main ring.*

*Install between MAU lobe ports to connect distant MAUs.*

*Extend an existing lobe by installing between a MAU and a station.*

