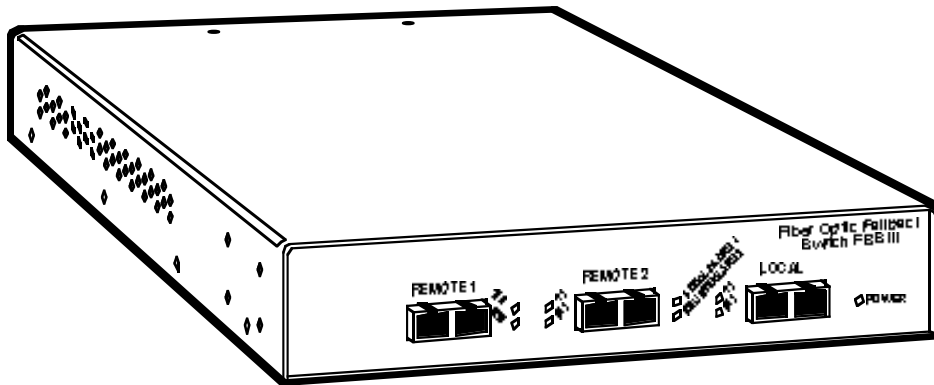


# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### Fibre Optic Fallback Switch



*You can't afford to lose valuable data. This quick and reliable switching system saves the day, automatically backing up your fibre links when faulty lines are detected.*

#### Key Features

- ▶ No protocol limitations.
- ▶ Provides a retrofit solution to fiber data-communication equipment—and no modification is required.
- ▶ Features plug-and-play support for Fast Ethernet, Ethernet, FDDI, and more!
- ▶ A must-have for network management. It's perfect when you're planning for worst-case scenarios.
- ▶ Supports survivable fiberoptic point-to-point links.

#### Overview

The Fibre Optic Fallback Switch FBS III is a stand-alone 1:2 bypass switching system that provides automatic switching between primary and secondary fibres when faulty fibres are detected.

Its single multimode fibre connection switches to a primary or secondary remote link based on the link status it senses. Front-panel indicators monitor normal activity. Alarms sound in the event of a loss of the main optical source and faults in both primary and secondary fibers.

The device's ability to provide switching between links not only protects your network from the failure of the link, but also the failure of systems feeding your link.

As you know, providing redundant links within any environment can be difficult and expensive. One way to do it is to spend a lot of money on redundant link cards and use valuable card slots within the equipment. The Fibre Optic Fallback Switch is the more efficient—and more reliable—alternative.

The switch has no protocol limitations and is the perfect add-on solution for existing fibreoptic data links or network system equipment without fault-tolerant design.

Moreover, the FBS III features nearly instantaneous switching from primary to secondary links. Your system's

users won't even notice. In comparison, if you rely on a Spanning Tree Protocol to find a redundant path, you may have wait up to three minutes for it to switch between "blocking" and "forwarding" modes, idling your workstations in the process.

The switch is the perfect plug-and-play device for adding protection to critical communications systems, whether they're 10-Mbps Ethernet, Fast Ethernet, 16-Meg Token Ring or OC3 ATM.

Single-mode fibre and other connector styles are available on request. Rackmount versions can be ordered, too.

#### Typical Application

*Add the Fibre Optic Fallback Switch FBS III to your Ethernet network. Even when your main fiber link goes down, your data will get through.*

## Specifications

### Local-Channel Parameters:

**Channel Capacity** — 1

**Data Interface** — Ethernet, Fast Ethernet, Token Ring, FDDI, ATM (Sonet 0C3) and many others

**Data Channel Cable Types** — Multimode or Single-mode Fibres

**Data Channel Connector Types** — ST, FC, or SC

**Light Source** — LED or Laser Diode

**Operation Wavelength** — 1300 nm

**Receiver Sensitivity** — -27 dBm (typical)

**Maximum Optical Output Power** — 15 dBm (LED) and -7 dBm (Laser Diode)

**Status Indicators** — Tx, Rx

**Status Alarm** — Loss of Main Optical Source

### Remote-Channel Parameters:

**Transmission Cables Required** — Two Pairs (Remote 1 and Remote 2 Pairs)

**Transmission Cable Types** — Multimode or Single-mode Fiber

**Transmission Channel Connector Type** — ST, SC and FC

**Operating Wavelength** — 1300 nm

**Optical Loss Budget** — 12 dB (LED, Multimode Fibre) or 19 dB (Single-Mode Fibre)

**Optical Source** — LED or Laser Diode

**Status Indicators** — Power ON, Remote 1 and Remote 2 Fibres

### Systems:

**CE Approval** — Yes

**Connectors** — (6) ST®

**Indicators** — Front-panel LEDs: (1) Power On, (3) TX, (3) RX; (1) Local Alarm, (1) Remote Alarm; Alarms: local main optical source loss, primary and secondary fibre faults

**Power** — 110 VAC, 0.3 amp (maximum)

**Operating Temperature** — 0 to 50° C

**Relative Humidity Tolerance** — Up to 95%, noncondensing

**Size** — 4.3 x 21.8 x 30.5 cm

**Weight** — 0.9 kg

### Additional equipment you may need:

- Bulk Duplex Fibre Optic Cable, PVC—Riser Applications, Custom Lengths (EFN062A)
- OptiCure™ Kit (FT560A)

### For these and other components...

Call our expert Technical Support Staff for all your switching 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

Fibre Optic Fallback Switch FBS III .....SW700A-ST-MM

### ORDER CODE

(NOTE: The SW700A cannot be sold outside the U.S.)