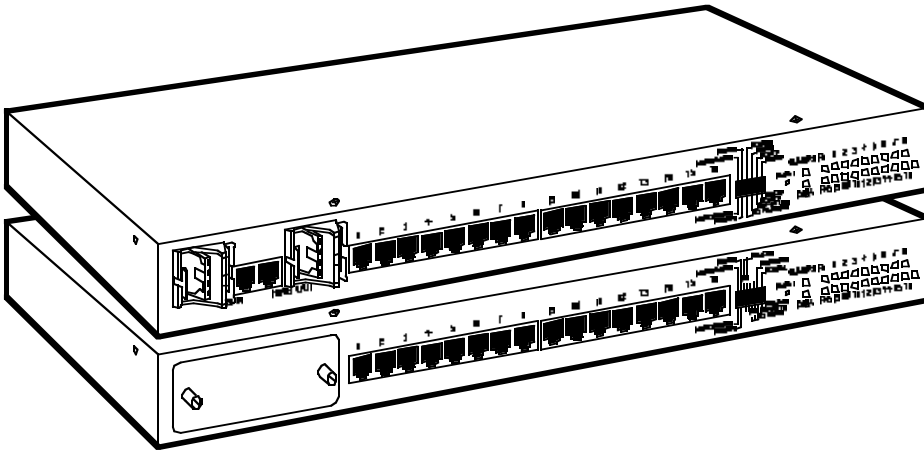# BLACK BOX®

The World's Source for Cabling and Network

Stackable Token Ring MAU with or without Configurable RI/RO Port and Modules

Get the maximum distance on your Token Ring network with this stackable, manageable MAU.

Key Features

16-port MAU operates at 4 or 16 Mbps.

Eliminates jitter while automatically retiming and regenerating signals.

SNMP or serial management options for in-band and out-of-band control.

Automatic speed lockout and loopback.

Multistate LEDs provide network status at a glance.

Modular model (LT4001A) can be configured with your choice of RI/RO ports. Select from UTP/UTP, UTP/Fibre (ST), and Fibre (ST)/Fibre (ST).

With the Stackable Token Ring MAU, you can extend the distance of your Token Ring network at 4 Mbps or 16 Mbps. And you can easily upgrade to get the management options you need.

At 4 Mbps, you can transmit data 650 m on STP Type 1 cable, 200 m on UTP Category 3 cable, and 300 m on UTP Category 4 and 5 cable.

At 16 Mbps, you can transmit data 550 m on STP Type 1 cable, 125 m on UTP Category 3 cable, and 250 m on UTP Category 4 and 5 cable.

You can configure this MAU to suit your needs. The slide-in SNMP management option allows for easy on-site upgrades. And SNMP can manage up to 15 additional

You can configure this MAU to suit your needs. The slide-in SNMP management option allows for easy on-site upgrades. And SNMP can manage up to 15 additional MAUs from just one PC. The serial-management option lets you extend SNMP to other hubs in the stack. Or you can manage the devices out-of-band with a DOS or Windows® application. Software is included with both options.

Not only can you stack up to 16 managed hubs, you can also use the supplied mounting brackets to install the MAU in any standard 19-inch rack.

Also available is the Stackable Token Ring MAU (LT4001A) with configurable

Also available is the Stackable Token Ring MAU (LT4001A) with configurable RI/RO port. This modular chassis accepts the following modules:

• UTP/UTP RI/RO Module (LT4015C)

• UTP/Fibre (ST) RI/RO Module (LT4016C)

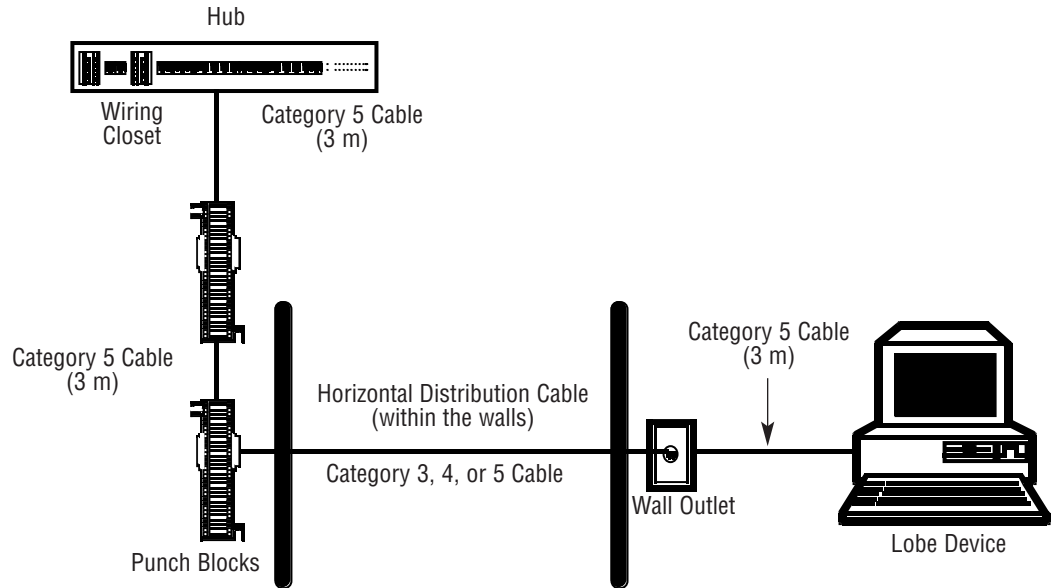• Fibre (ST)/Fibre (ST) RI/RO Module (LT4017C)

The MAU supports either serial or SNMP management optionally via a module (LT4010A or LT4020A).

Typical Application

Stack up to 16 managed hubs (LT4000A or LT4001A).

Install and configure the LT4001A in a wide range of cabling environments, via optional RI/RO modules.

Hub

Wiring Closet

Category 5 Cable (3 m)

Category 5 Cable (3 m)

Category 5 Cable (3 m)

Horizontal Distribution Cable (within the walls)

Category 3, 4, or 5 Cable

Wall Outlet

Lobe Device

Punch Blocks

Technically Speaking

Signal retiming and regeneration extends lobes to maximum lengths, eliminates jitter, and acts as a repeater on every port— including Ring In/Ring Out.

This MAU reduces the number of network crashes that result from devices entering the ring at the incorrect speed. Speed lockout on Ring-In/Ring-Out ports automatically redirects ports to backup paths if cable failures occur on both network and network and trunk lines. And your network recovers quickly once the problem is corrected.

Various LEDs make diagnosing problems quick and easy—and keep downtime to a minimum. Four lobe line states are shown: active, nonactive, speed lockout, and management lockout. And five other LEDs let you monitor data integrity, line speed, RI/RO cable integrity, and power at a glance.

The complete package:

- Stackable Token Ring MAU (LT4000A) or Stackable Token Ring MAU w/configurable RI/RO port (LT4001A)

- A users' manual.

Ordered separately:

- UTP/UTP, UTP/Fiber, or Fiber/Fiber RI/RO Modules for the LT4001A

Additional equipment you might need:

- Serial Management Module

- SNMP Management Module

Specifications

Data Rate — 4 or 16 Mbps

Protocol — IEEE 802.5 Token Ring

Connectors — (2) RJ-45 and (2) MIC for Ring In/Ring Out; (16) RJ-45 for lobe ports

Indicators — LEDs: (16) multistate port status; (1) Data Integrity; (1) Speed; (2) RI/RO Cable Integrity; (1) Power

Power — external supply

Size — 4.5 x 45 x 25.4 cm

Weight — 3.6 kg

Ordering Information

PRODUCT NAME	PRODUCT CODE
Stackable Token Ring MAU	LT4000A
Stackable Token Ring MAU w/configurable RI/RO port	LT4001A
UTP/UTP RI/RO Module for LT4001A	LT4015C
UTP/Fibre (ST) RI/RO Module for LT4001A	LT4016C
Fibre (ST)/Fibre (ST) RI/RO Module for LT4001A	LT4017C
You might also want to order management upgrades:	
SNMP Upgrade	LT4010A
Serial Management Upgrade	LT4020A