

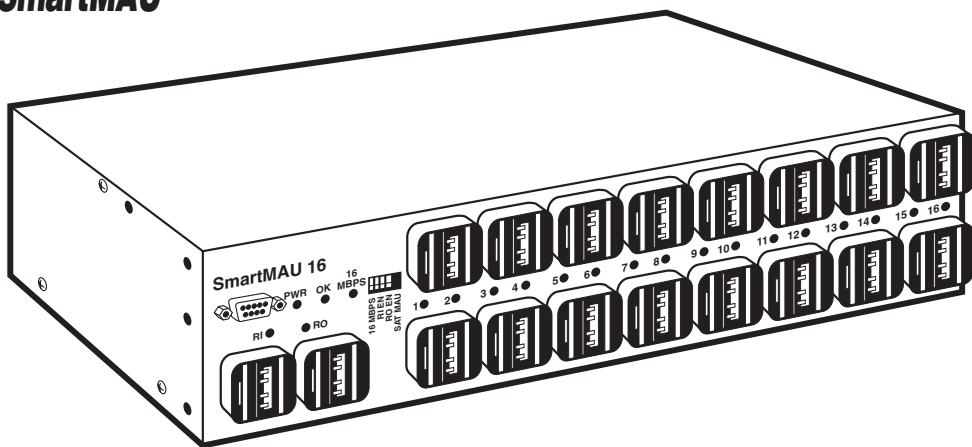


BLACK BOX[®]

NETWORK SERVICES

© Copyright 1996. All rights reserved.
Black Box Corporation.

SmartMAU



One 16-port MAU gives you three points of control—hardware speed detect, auto loopback, and out-of-band management.

Key Features

- ▶ *Reduces downtime due to network crashes and cable failure.*
- ▶ *Utility and management software included.*
- ▶ *Cascadable for easy network expansion.*
- ▶ *LEDs for network troubleshooting.*
- ▶ *Trouble-free installation.*

Affordable protection for your LAN. The SmartMAU incorporates sophisticated technology with pricing comparable to conventional MAUs. SmartMAUs help you to maximise network reliability by addressing the most commonly reported reasons for network crashes. By incorporating Hardware Speed Detect on every port, the SmartMAU catches and locks out any workstations that try to come up on a Token Ring LAN at the wrong speed. The SmartMAU also incorporates Auto Loopback Fault Tolerance on the Ring-In and Ring-Out ports in order to provide fault protection against breaks in the main ring cable.

More ports with more features. To make installation and network troubleshooting easier than ever, the SmartMAU provides 16 Token Ring ports. Each has a bi-colored LED that gives you lobe status. The status is easy to recognise: If the port LED is green, the workstation is up and communicating. Blinking

red indicates that the workstation is at the wrong speed and has been locked out.

Additional Fault Tolerance. Hardware Speed Detect circuitry is incorporated into the Ring-In and Ring-Out ports of the SmartMAU, so if a wrong speed is detected at either Ring-In or Ring-Out, the port is automatically wrapped. This protects the network from being brought down by wrong-speed adapters on another part of the LAN.

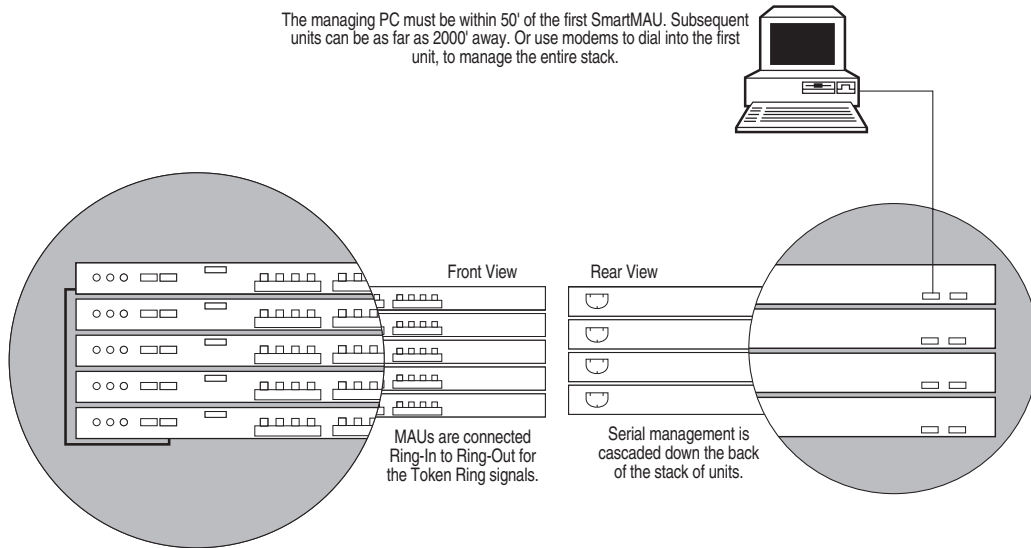
The Auto Loopback feature on the Ring-In and Ring-Out ports of the SmartMAU protects the network from common problems on the main ring. Cable breaks or shorts in the main ring path are quickly detected and the port is automatically looped to the backup data path. LEDs instantly show status of the Ring-In and Ring-Out ports.

Quick and easy installation. SmartMAUs are designed with true plug-and-play technology. When adding

additional SmartMAUs to your stack, simply set the speed to 4 or 16 Mbps and plug in the unit for quick and easy insertion into your network.

Flexible Management Options. The SmartMAU can operate in either a managed or an unmanaged environment. When used as a "conventional" unmanaged MAU, SmartMAUs provide Hardware Speed Detect and Auto Loopback fault tolerance to keep your network safe from the most common causes of network crashes. The SmartMAU is also capable of taking advantage of the latest advances in network management. Through a pair of RJ-45 serial ports on the back of the unit, the SmartMAU can be managed out-of-band by a PC using Bridge Management Software. The software is a Windows[®] based application that includes real-time graphical views of the SmartMAUs. You can cascade up to 16 SmartMAUs for management.

The managing PC must be within 50' of the first SmartMAU. Subsequent units can be as far as 2000' away. Or use modems to dial into the first unit, to manage the entire stack.



LEDs

Lobe Status

To help you better manage your network, SmartMAU has sixteen separate LEDs for Lobe Status. Off means the lobe is inactive or disconnected. Green tells you the lobe is active and inserted properly. Blinking red indicates bad speed (hardware lockout). Solid red denotes software lockout (management software).

RI/RO Status

Two separate LEDs give you Ring-In and Ring-Out port status. Off means looped back (wrapped). Green tells you good connection to the main ring. Blinking red indicates bad speed (hardware lockout). Solid red denotes a software lockout (management software).

Configuration Switches

Configure the SmartMAU with the 4-position DIP switch on the front.

The Complete Package

What you get when you order the SmartMAU:

- SmartMAU
- Windows SmartMAU Utility Software
- Management Software
- User's Manual

Specifications

LAN Data Rates — 4 and 16 Mbps

Protocol — IEEE 802.5 Token Ring

Regulatory Approvals — FCC Class A; UL® CSA and TUV pending

Speed — 16/4 Mbps

Connectors — LT1500A: (18) Data connectors, (1) DB9 female console port, (2) RJ-45 female; LT1501A: (2) RJ-45

Indicators — (21) LEDs: (16) Lobe, (1) RI, (1) RO, (1) 16 Mbps, (1) OK, (1) Power

Power — 100 to 230 VAC, 60 to 50 Hz, autosensing

Size — LT1500A: 8.9 x 43.5 x 30.5 cm (3.5"H x 17.2"W x 12"D); LT1501A: 4.4 x 43.5 x 30.5cm (1.7"H x 17.2"W x 12"D)

Weight — LT1500A: 2.5 kg (5.5 lb.); LT1501A: 2 kg (4.5 lb.)

Software

System Requirements — Windows 3.1; 386, 486, or Pentium® processor; VGA color monitor; mouse; serial port; 3½". high-density floppy drive; 4 MB RAM; 1 MB hard-disk space

Additional equipment you may need:

- Type 1 MAU to Station Cable
- Type 3 RJ-45 Category 5 Cable
- Type 1 MAU to MAU 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

SmartMAU

Type 1.....LT1500A

Type 3.....LT1501A