OmniRepeater™ 400FTD
AS/400 5250 and 5250 Express Fiber Converter

FEATURES

- The OmniRepeater 400FTD is an AS/400 5250 and 5250 Express repeater/converter. It converts between twinax and fiber for backbone and enables fiber-to-the-desk applications.

- The FTD supports distances of 3,000 feet on UTP, 5,000 feet on twinax, 15,000 feet on multimode fiber and 30,000 feet on single-mode fiber.

- The FTD features a built-in fiber tester for easy installation. It allows testing of total fiber connectivity and eliminates the need for a costly fiber tester.

- Powerful diagnostics monitor data activity and errors resulting in easy installation.

- Digital Phase Locked Architecture (PLA) facilitates reliable data detection resulting in stable operation in electrically noisy environments.

- Data regeneration, reclocking and lost-bit recovery features provide highly reliable operation.

- Polarity detection and control facilitate usage with different baluns.

- Supports single-mode and multimode fiber.

- Lifetime warranty.

DESCRIPTION

The OmniRepeater™ 400FTD is an AS/400 5250 and 5250 Express data repeater and fiber converter. It converts between twinax or UTP and fiber and provides connectivity for one 5250 host port. It supports multimode fiber for distances up to 15,000 feet and single-mode fiber for up to 30,000 feet. It supports twinax for distances up to 5,000 feet and unshielded twisted pair (UTP) for up to 3,000 feet. It can be utilitized in fiber backbones or in fiber-to-the-desk applications.

The FTD utilizes Omnitron's Digital Phase Locked Architecture (PLA) for data detection, synchronization, retiming and repeating. This technology enables the reliable detection and synchronization of data with -2% to +4% data rate variation. It also facilitates lost-bit recovery thus enhancing connectivity reliability.

Interface to the FTD is via UTP RJ11/RJ45, STP/twinax via DB9 and fiber via ST connectors. For UTP applications, at least category 3 wiring is recommended. Lower grade wiring may be acceptable for shorter distances. Both single-mode and multimode fiber models are available.

The FTD includes a built-in fiber tester. This feature eliminates the need for an expensive fiber tester and helps in installation and fault isolation. It is compatible with all of Omnitron's 5250 fiber products, thus providing independent end-to-end cable testing.

The diagnostic features of the OmniRepeater 400 FTD assist in both installation and monitoring of normal operation. Each data

frame is checked and true activity and data errors are reported. They provide continuous line quality monitoring and early problem detection.

The Express models operate with both 5250 and 5250 Express protocols. Each port provides data rates of 1 Mbps for standard 5250 and 2 Mbps for 5250 Express protocol.
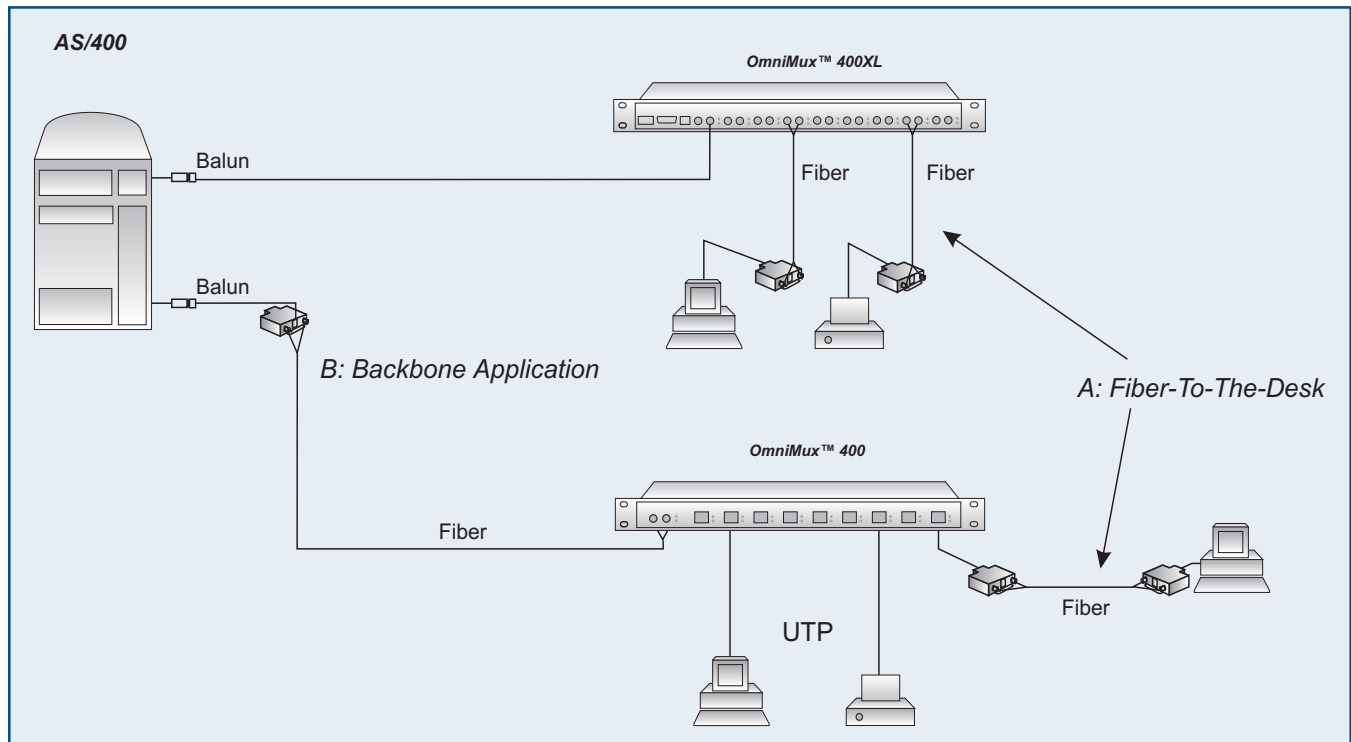
SPECIFICATIONS

- **Protocol:** IBM 5250 and 5250 Express for Systems AS/400 and 3X
- **Devices Supported:** All twinax IBM compatible devices
- **Interface:**
  - **Twinax:** IBM 7362229 or equivalent
  - **Fiber:** MM–50/125, 62.5/125, 100/140 µm SM--9/125 µm
  - **UTP:** Categories 3, 4, 5 (EIA/TIA 568) or higher
- **Data Rate:**
  - **Standard 5250:** 1 Mbps -2%, +4%
  - **5250 Express:** 1 or 2 Mbps -2%, +4%
- **Supported Distances:**
  - **Twinax:** 5,000 ft.
  - **UTP:** 3,000 ft.
  - **Multimode Fiber:** 15,000 ft.
  - **Single-mode Fiber:** 30,000 ft.

- **Indicators:**
  - **Power:** Green LED (1)
  - **Test:** Red LED (1)
  - **Activity/Error:** Green/Red LED (2)
- **Dimensions:** W:3.46"xD:2.83"xH:0.78"
- **Weight:** 6 oz.
- **Power:** 110 or 230 VAC, 80/40 mA
- **Temperature:**
  - **Operating:** 0 to 45 degrees C
  - **Storage:** -40 to 75 degrees C
- **Humidity:** Up to 90% (non-condensing)

ORDERING INFORMATION

Standard 5250	5250 Express	Description
2900-1	2940-1	Multimode fiber, 110 VAC
2910-1	2950-1	Single-Mode fiber, 110 VAC
2900-2	2940-2	Multimode fiber, 110/230 VAC
2910-2	2950-2	Single-Mode fiber, 110/230 VAC

SAMPLE APPLICATION

Omnitron Systems Technology, Inc.

Dealer Information:
Tel: 800-597-2525 Int.:908-688-8100
Email: info@twindata.com
http://www.twindata.com