



FMX-120

FIBER OPTIC, BI-DIRECTIONAL DATA and AUDIO MULTIPLEXER TRANSMISSION SYSTEMS

- Supports up to **12 bi-directional RS-232, RS-422 or RS-485 data channels** at up to **115.2 Kbaud** or T1.
- Front panel includes **12 data presence LED indicators** for each data channel.
- Available with bi-directional **stereo audio** or **intercom** with **headset input jack** with side-tone.
- A full system supports simultaneously up to 12 bi-directional data channels, 2 bi-directional audio channels and remote sensing over **One Fiber**.
- Unit operates from **9-12 VAC** with a wall-mount power supply.
- Available in portable, wall-mount and triple rack-mount configurations with 850 nm and 1300 nm LED Multimode and 1300 nm Laser Single-mode optics.
- **Optical budget** of up to **28 dB**.
- Temperature range **-40° to 75°C**.
- Designed and manufactured in the U. S. A.
- 7 year warranty on parts and labor.
- Applications include security, surveillance, distance learning, teleconferencing, medical, industrial, broadcast TV, cable TV and **Intelligent Transportation Systems (ITS)**.

SPECIFICATIONS

ELECTRICAL

Power Requirements:.....	12 VAC @ 10 W Max. with single-ended or center tapped wall-mount supply or transformer.
Input and Output Level:.....	Audio: 0 dBm (+10dBm)
Input and Output Impedance:.....	Audio: High or 600 Ohms
Bandwidth:.....	Audio: 10 Hz to 5 KHz Data: DC to 115.2 Kbaud or T1
Data and Control:.....	Standard RS-232, RS-422 or RS-485

OPTICAL

Optical Wavelength:.....	850 nm and 1300 nm Multimode 1300 nm Singlemode
Optical Budget	>19 dB for 850 nm MM, 62.5 μ >15 dB for 1300 nm MM, 62.5 μ >28 dB for 1300 nm SM, 8.3 μ
Sensitivity	>-28 dB

MECHANICAL

Portable and Wall-mount:	7" L x 5 3/4" W x 1 3/4" H
Triple Rack-mount Kit for 3 modules (Part number -RMT):	7" L x 19" W x 1 3/4" H

ORDERING INFORMATION

- FMX-120-MM, Data Multiplexer Transceiver, 850/1310nm, Multimode (2 required)
- FMX-120-SM, Data Multiplexer Transceiver, 1310nm, Singlemode (2 required)
- RS232D, Duplex Data Channel, (1) each for transmitter and receive side. (Maximum 12 Channels or 24 items)
- RS422/485D, Duplex Data Channel, (1) each for transmitter and receive side. (Maximum 12 Channels or 24 items)
- VOICE, Bi-directional Audio Ch., (1) each for transmitter and receiver side. (Maximum 2 Channels or 4 items.
Voice channels replace data channels)

In the USA and Canada call **1-(800)-4TV-TEST**

191 Forest Avenue, Locust Valley, NY 11560-2132 USA
1-(800)-488-8378, (516)-671-7278, FAX (516)-671-3362
E-Mail: info@multidyne.com
Web Site: <http://www.multidyne.com>