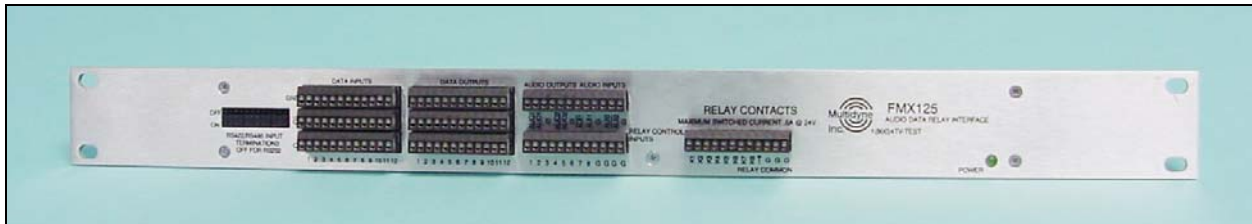


# FMX-125 Series

## 12 Bi-dir Data, 2 Bi-dir Audio & 8 Tally/Relay Fiber Optic Multiplexer

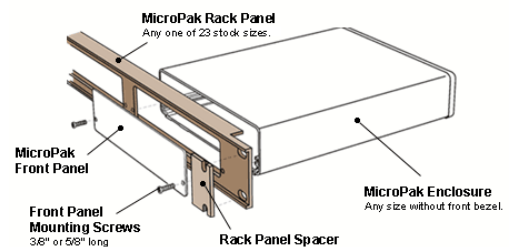


- Supports 12 bi-directional data channels
- Supports 2 bi-directional audio channels (stereo)
- Supports 8 Tally or Relay contact closures
- Single and multimode versions.
- Optical budget up to 28dB.
- Standalone or rack mount.
- Front panel data indicators.
- Supports RS-232, RS-422 or RS-485 **data channels** at up to **115.2 Kbaud**
- 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)**.



AD-FMX-125 Adapter Interface Panel for FMX-125

### RACK-MOUNT KIT, -RMT TRIPLE RM:



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: [sales@multidyne.com](mailto:sales@multidyne.com)**  
**Web Site: [www.multidyne.com](http://www.multidyne.com)**

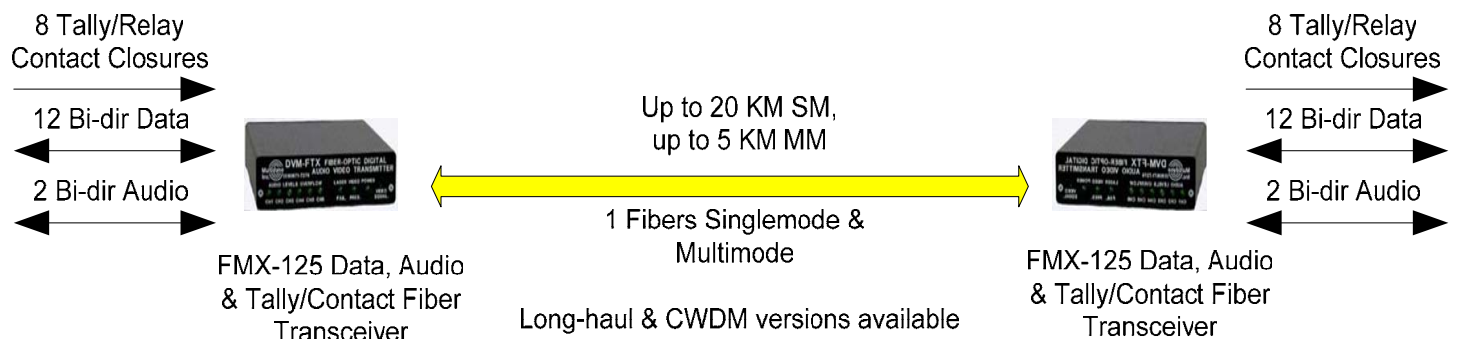
## **SPECIFICATIONS** Specifications subject to change without notice. Designed and manufactured in the U. S. A.

Data Channel Protocol (selectable in banks of 4 ch.)	RS-232C, RS-422 or RS-485 Data
Data Configuration (RS422 mode supports RS485)	Data Channels 0 & 1=RS422 I/O, 2 & 3=RS232 I/O; No termination. Data Ch 0, 1 & 2=RS422 I/O, 3=RS422 In & RS232 Out; RS422 Termination ON. Data Channels 0 thru 3=RS232 I/O; No termination.
Data Rate	DC to 115.2 Kbps
Data and Audio I/O's	44 pins D-Type Connector, Optional screw terminal adapter
Bit Error Rate	< 1x10 <sup>-9</sup>
Signal to noise	> 90 dB
Frequency response to <b>20 Hz to 20 KHz</b>	< +/- 0.1 dB
Distortion	< 0.05%
Audio output level	Unity
Maximum input & output level, 600 Ohm	+18 dBm
Audio output impedance, balanced	50 Ohms
Audio input impedance, balanced	600 Ohms or High
Power dissipation	< 15 Watts, per unit
AC operation	110 or 220 VAC (optional 48VDC)
Operating temperature	-40° to +75°C
Operating Humidity	0-95% non-condensing
Wavelength	1310/1550nm
Output Power, minimum	0 dBm Singlemode
Receiver Sensitivity	-24 dBm Singlemode
Optical Loss Budget, minimum	24 dBm Singlemode
Portable and Wall-mount:	7" L x 5 ¾" W x 1 ¾" H
Triple Rack-mount Kit for 3 modules (Part number -RMT):	7" L x 19" W x 1 ¾" H
UTIL-200-DVM 10 Slot Tray	13 ¾" L x 19" W x 3 ½" H

## **ORDERING INFORMATION:**

	<b>Fiber Optics, Voice and Data Multiplexers:</b>
FMX-125-35	DATA Transceiver with 12 Channels of Bi-directional Data, 2 Channels of Bi-directional Audio, and 8 Channels of Relay or Tally Control, Singlemode 1310nm TX, 1550nm RX, -0 dBm, ST connector, Sensitivity -25 dB. (Requires FMX-125-53 & AD-125 Interface Adapter) (May require -RMT, -BLANK)
FMX-125-53	DATA Transceiver with 12 Channels of Bi-directional Data, 2 Channels of Bi-directional Audio, and 8 Channels of Relay or Tally Control, Singlemode 1550nm TX, 1310nm RX, -0 dBm, ST connector, Sensitivity -25 dB. ( Requires FMX-125-35) (Requires AD-125 Interface Adapter) (May require -RMT, -BLANK)
-RMT	Triple Rack-mount Kit (1 set )
-BLANK	Blank panel for rack-mounting kit
AD-FMX-125	Break-out Adapter for FMX125 to Quick-release screw terminal connectors for 12 Bi-directional Data, 2 Audio Inputs, 2 Audio Outputs and 8 Relay/Tally channels, 1 RU ( Requires 2 )

## **Application Diagram for DVM3000 & DVM3000-MOD Video, Audio & Data Fiber Optic Transport System**



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