

DAM-4000 Series

40 Channel, 24 Bit Audio

Fiber Optic Multiplexer



- Supports **40 audio channels** over **one optical fiber or wavelength**.
- Exceeds **RS-250C Short-haul** and **Broadcast** specifications.
- **24 Bit Audio** flat from **20 to 20K Hz**, **S/N** greater than **90 dB** and **THD** less than **0.05%**.
- **XLR Interface & Patch Panels**, transmitter and receiver each require 2 panels.
- **Front panel audio gain controls**.
- Audio and Optical front panel status indicators with dry alarm relay contacts.
- **Stand-alone** and **Rack-mount** configurations with all optical wavelengths, **LED Multimode** and **Laser Single-mode**.
- Coarse Wave-division Multiplexing (CWDM) systems are available for up to 8 wavelengths over **ONE** optical fiber.
- **Optical budget** of up to **30 dB** for Single-mode.
- AC operation for **110 or 220 VAC**.

The DAM-2000/2200 series is ideal for applications where up to 40 high quality audio channels need to be sent over fiber such as concerts, live productions, recording studios, church production, staging, theatrical productions, studio to transmitter (STL), studio to studio, common carrier, RBOC Telco circuits, distance learning and back-haul feeds from special events. Featuring full 20Hz to 20KHz audio bandwidth, S/N of 90dB and a THD of 0.05% the DAM series meets the rigorous broadcast industry standards. The XLR interface panel permits quick and easy connections and serves as a patch panel. Monitor and control functions include audio and optical front panel status indicators with dry alarm relay contacts.

The DAM-4000 is a compact unit designed for stand alone, wall mount or rack-mount applications. Advanced CWDM technology is available which enables up to 16 units to be put on one strand of fiber.

SPECIFICATIONS

Signal to noise.....	> 90 dB
Frequency response to 20 Hz to 20 KHz.....	< +/- 0.1 dB
Distortion	< 0.05 %
Audio output level, adjustable	Unity, +/- 6 dBm
Maximum input & output level, 600 Ohm termination.....	+18 dBm
Audio output impedance, balanced	50 Ohms
Audio input impedance, balanced (selectable)	600 Ohms or High
Power dissipation	< 25 Watts, per unit
AC operation	110 or 220VC
Operating temperature	0 to +50 °C



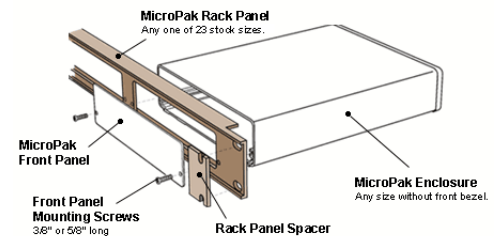
In the USA and Canada call **1-(800)-4TV-TEST**
 191 Forest Avenue, Locust Valley, NY 11560-2132 USA
 1-(800)-488-8378, (516)-671-7278, FAX (516)-671-3362

E-Mail: sales@multidyne.com
Web Site: www.multidyne.com

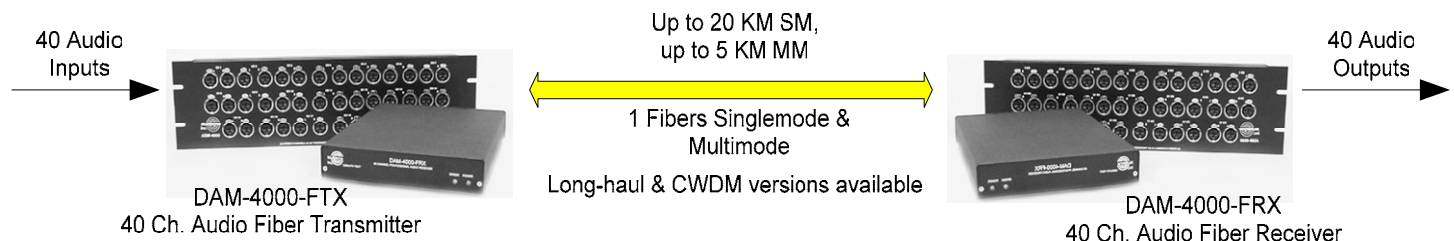
ORDERING INFORMATION:

	Fiber Optic Audio Multiplexer, Multimode (SIN 58-6)
DAM-4000-FTX-2	40 Channel, 24 Bit Audio Fiber Optic Transmitter Multiplexer; exceeds RS-250C Short-haul specs. with 1310nm Multimode LED -14 dBm with ST connector. (Requires -XLRINPUTXLR Input Interface Panel) (May require -RMD, -BLANK, -WALL)
DAM-4000-FRX-2	40 Channel, 24 Bit Audio Fiber Optic Receiver Multiplexer; exceeds RS-250C Short-haul specs, Multimode PIN with ST connectors, Sensitivity -24 dBm. (Requires -XLRINPUTXLR Input Interface Panel) (May require -RMD, -BLANK, -WALL)
	Fiber Optic Audio Multiplexer, Singlemode
DAM-4000-FTX-50	40 Channel, 24 Bit Audio Fiber Optic Transmitter Multiplexer; exceeds RS-250C Short-haul specs. with 1310nm Single-mode Laser -8 dBm with FC connector (Requires -XLRINPUT XLR Input Interface Panel) (May require -RMD, -BLANK, -WALL)
DAM-4000-FTX-52	40 Channel, 24 Bit Audio Fiber Optic Transmitter Multiplexer; exceeds RS-250C Short-haul specs. with 1310nm Single-mode Laser -3 dBm with FC connector (Requires -XLRINPUT XLR Input Interface Panel) (May require -RMD, -BLANK, -WALL)
DAM-4000-FTX-53	40 Channel, 24 Bit Audio Fiber Optic Transmitter Multiplexer; exceeds RS-250C Short-haul specs. with 1310nm Single-mode Laser +0 dBm with FC connector (Requires -XLRINPUT XLR Input Interface Panel) (May require -RMD, -BLANK, -WALL)
DAM-4000-FTX-6	40 Channel, 24 Bit Audio Fiber Optic Transmitter Multiplexer; exceeds RS-250C Short-haul specs. with 1550nm Single-mode Laser +0 dBm with FC connector (Requires -XLRINPUT XLR Input Interface Panel) (May require WDM-95, -RMD, -BLANK, -WALL)
DAM-4000-FTX-7-xxxx	40 Channel, 24 Bit Audio Fiber Optic Transmitter Multiplexer; exceeds RS-250C Short-haul specs. with CWDM 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 or 1610nm Single-mode Laser 0 dBm, SC connector.. Supports up to 16 wavelengths or channels per fiber optic cable. (Requires -XLRINPUT XLR Input Interface Panel) (May requires CWDM Mux & Demux Accessories) (May require -RMD, -BLANK, -WALL)
DAM-4000-FRX-50	40 Channel, 24 Bit Audio Fiber Optic Receiver Multiplexer; exceeds RS-250C Short-haul specs, Singlemode PIN with FC connectors, Sensitivity -25 dBm. (Requires -XLROUTPUT XLR Output Interface Panel) (May require -RMD, -BLANK, -WALL)
	Accessories
-RMD	Dual Rack-mount Kit (1 kit)
-BLANK	Blank panel for rack-mounting kit
-WALL	Wall-mount Kit (1 set)
-XLRINPUT	XLR Input Interface Panel with 40 input XLR connectors with Line level inputs; includes interface cables to DVM-4000
-XLROUTPUT	XLR Output Interface Panel with 40 output XLR connectors; includes interface cables to DVM-4000

Dual Rack-mounting Kit, -RMD



Application Diagram for DAM4000 40 Ch Audio Fiber Optic Transport System



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