



# AES-2200

## 6 Channel, AES/EBU, Digital Audio Fiber Optic Multiplexer (Preliminary)

- Supports **8 AES/EBU digital audio channels** (16 mono) and **2 Simplex RS232, RS422 or RS485 data channels** over **one optical fiber**.
- System supports up to **2 AES/EBU 75 Ohm Un-balanced** and up to **6 AES/EBU 110 Ohm Balanced** signals.
- **Supports up to 96 KHz sampling rates.**
- Audio and Optical front panel status indicators with dry alarm relay contacts.
- Modular 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.
- Universal AC operation for **85-265 VAC** and Telco DC operation for **48 VDC**.
- **Now support analog video, analog audio, serial digital video and digital audio in the same tray.** The UTIL-200-DVM Tray supports the DVM-2200 Video, 6 Audio and 3 Data Transport Cards, the DTV-220/230 SDI Transport Cards, the DTV-201/210F SDI Fan-out and Reclocking Cards, the DAM-2200 6 Audio and 3 Data Transport Cards and the AES-2200 6 AES/EBU and 3 Data Transport Cards.
- Applications include links from **studio to transmitter (STL)**, **studio to studio**, **studio to CATV head-end**, **common carrier**, **RBOC Telco circuits**, distance learning, **Intelligent Transportation Systems** & back-haul feeds from special events.



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](mailto:info@multidyne.com)**  
**Web Site: <http://www.multidyne.com>**

# SPECIFICATIONS

## Inputs

Balanced, AES3.	
Input Impedance .....	110 Ohms, +/-20%, 0.1MHz to 6.0MHz.
Minimum Input Signal .....	200mV for 50% of cell period.
Maximum Input Signal .....	10 Vpp.
Unbalanced AES-3 ID	
Input Impedance .....	75 Ohms, +/-5%, (IEC958).
Minimum Input Signal .....	320mV for 50% of cell period.
Maximum Input Signal .....	1VppV, +/-20%.
Return Loss .....	>15dB, 0.1 to 6.0MHz.

## Outputs

Balanced, AES3.	
Output Impedance .....	110 Ohms, +/-20%, 0.1MHz to 6.0MHz.
Output Voltage .....	2.0 to 7.0 Vpp into 110Ohms.
Rise/Fall Time .....	5 to 30 ns (10% to 90%).
Jitter .....	<20ns.
Unbalanced, AES-3ID.	
Output Impedance .....	75 Ohms, +/-20%, 0.1MHz to 6.0MHz.
Output Voltage .....	1.0 Vpp, +/-20% into 75Ohms.
DC Offset .....	<50mV.
Jitter .....	<20ns.
Return Loss .....	>15dB, 0.1 to 6.0MHz.

## Data

Data channels .....	2 selectable, RS232C, RS422 or RS485
Baud .....	9600
Power dissipation .....	< 2 Watts, per unit
AC operation .....	85 to 265 VAC (optional 48VDC)
Operating temperature .....	0 to +50 °C

Specifications subject to change without notice.

## ORDERING INFORMATION:

AES-2200-FTX-2	<b>Multimode:</b> 6 ch. AES Audio and Data Fiber Optic Transmitter, 1300 nm Multimode with ST connector, modular for UTIL-200-DVM Tray.
AES-2200-FRX-2	6 ch. AES Audio and Data Fiber Optic Receiver, Multimode, modular for UTIL-200-DVM tray.
AES-2200-FTX-50	<b>Singlemode:</b> 6 ch. AES Audio & Data Fiber Optic Transmitter, 1300 nm Single-mode with FC connector, modular for UTIL-200-DVM Tray.
AES-2200-FTX-6	6 ch. AES Audio & Data Fiber Optic Transmitter, 1550 nm Single-mode with FC connector, modular for UTIL-200-DVM Tray.
AES-2200-FTX-7-xxxx	6 ch. AES Audio and Data Fiber Optic Transmitter, CWDM 1470, 1490, 1510, 1530, 1550, 1570, 1590 or 1610nm Single-mode Laser -8 dBm, FC connector, modular for UTIL-200-DVM Tray.
AES-2200-FRX-50	6 ch. AES Audio and Data Fiber Optic Receiver, modular for UTIL-200-DVM Tray.
UTIL-200-DVM-2RU-AC	<b>Modular Utility Trays and Power Supplies &amp; Accessories</b> Analog, Digital and Fiber, up to 10 Slots, 2RU, Modular Utility Tray, with one 85-265 VAC Power Supply & Line Cord.
PS-200-DVM-AC	<b>Supports the DVM-2200 &amp; DTV-220/230 SDI cards.</b> Modular 85-265 VAC Power Supply & Line Cord for 200 series trays
UTIL-200-DVM-2RU-48VDC	Analog, Digital and Fiber, up to 10 Slots, 2 RU, Modular Utility Tray, with one 36-60 VDC Power Supply. <b>Supports the DVM-2200 &amp; DTV-220/230 SDI cards.</b>
PS-200-DVM-48VDC	Modular 36-60 VDC Power Supply for 200 series trays
-DVMAUDIO	Audio screw terminal break-out adapter
-DVMXLR	XLR Audio Adapter
CWDM-2000-8	<b>Coarse Wave Division Multiplexer for 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610nm. Supports up to 8 wavelengths or channels per fiber optic cable</b>
CWDM-2000-4	Coarse Wave Division Multiplexer for 1550, 1570, 1590 and 1610nm. Supports up to 4 wavelengths or channels per fiber optic cable
WDM-95-SM	Wave Division Multiplexer, 1300 nm and 1550 nm Single Mode

Designed and manufactured in the U. S. A.



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