

DVM-1700

2 Ch 9-bit Video & 4 Audio Fiber
Optic Multiplexer

COMPATIBLE WITH: UTIL-200-DVM



SUMMARY

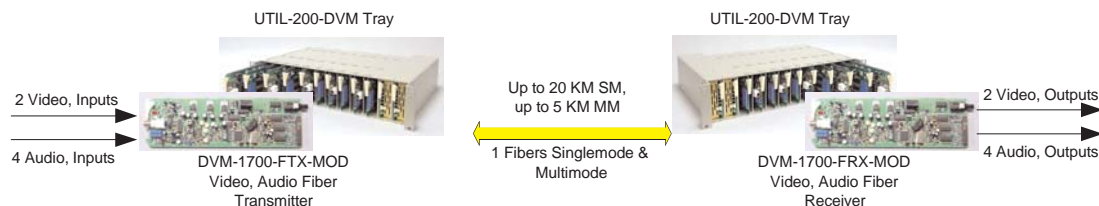
- Supports 2 video and 4 audio channels on one strand of fiber.
- 9 Bit Video with a Signal to Noise ratio greater than 75 dB and a Signal to Quantizing Noise ratio of 64 dB.
- Video Bandwidth of 8 MHz for support of NTSC, PAL, SECAM and video with diplexed audio carriers at 4.5 MHz, 5.8 MHz and 6.4 MHz (Option for 10 MHz).
- Differential Gain and Phase of 2% and 1°, respectively.
- Differential video and audio inputs for superior Common-mode Hum and Noise rejection of greater than 60 dB.
- 24 Bit Audio flat from 20 to 20K Hz, S/N greater than 90 dB and THD less than 0.05%.

The DVM-1700 is ideal for applications that require multiple video and audio to be transmitted over one fiber. Applications include back haul, studio to studio and STL. The all-digital processing, 9 bit video and 24 bit audio, provides superior performance characteristics. Advanced CWDM technology allows up to 8 lengths to be put on one strand of fiber.

The DVM-1700 series supports NTSC, PAL, SECAM as well as video with diplexed audio carriers at 4.5MHz, 5.8 MHz and 6.4 MHz (Option for 10 MHz). The design features differential video and audio inputs, which greatly reduce hum and noise. Video and Optical front panel status indicators with dry alarm relay contacts. A -RMT kit allows unit to be mounted in a standard 19" equipment rack.

- Video, Audio and Optical front panel status indicators with dry alarm relay contacts.
- Coarse Wave-division Multiplexing (CWDM) systems are available for up to 8 wavelengths over ONE optical fiber.
- Optical budget of up to 28 dB for Single-mode.
- Supports 2 video channel and 8 audio channels over one optical fiber.
- Universal AC operation for 85-265 VAC and Telco DC operation for 48 VDC.
- Available in rack-mount configurations with all optical wavelengths, LED Multimode and Laser Single-mode.

APPLICATIONS



CONTACT

1-(800)-4TV-TEST (US and Canada)
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SPECIFICATIONS

| | |
|---|---------------------------------|
| Exceeds the RS-250C Short-haul specification. | |
| Video Performance: | |
| Signal to noise | > 64 dB |
| Differential gain | > 90 dB |
| Differential phase | < +/- 2 % |
| Chrominance to luminance gain | < +/- 1 % |
| Chrominance to luminance delay | < +/- 2 % |
| Frequency response to 6 MHz | < +/- 30 nsec. |
| 3 dB Bandwidth | < +/- 1 dB |
| Luminance non-linearity | 8 MHz |
| Ringing | < 2% |
| Tilt | < +/- 2 % |
| Video output & input impedance | 75 Ohms |
| Delay, throughput | 1.24 micro sec. |
| Audio Performance: | |
| 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 |
| Data channels | 3 RS-232C at 9600 Baud |
| Power dissipation | < 15 Watts, per unit |
| AC operation | 110 or 220 VAC (optional 48VDC) |
| Operating temperature | 0 to +50 °C |
| 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

| | Two Channel, 9 bit Video & Audio Fiber Optic Multiplexer, Modular, Multimode & Singlemode (SIN 58-6) |
|-------------------------|---|
| DVM-1700-FTX-MOD-50 | Modular, 2 video 9 bit, 4 audio channels, Fiber Optic Transmitter with 1310nm Multimode & Singlemode Laser -8 dBm with FC connector. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO27) |
| DVM-1700-FTX-MOD-52 | Modular, 2 video 9 bit, 4 audio channels, Fiber Optic Transmitter with 1310nm Multimode & Singlemode Laser -3 dBm with FC connector. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO27) |
| DVM-1700-FTX-MOD-53 | Modular, 2 video 9 bit, 4 audio channels, Fiber Optic Transmitter with 1310nm Multimode & Singlemode Laser +0 dBm with FC connector. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO27) |
| DVM-1700-FTX-MOD-6 | Modular, 2 video 9 bit, 4 audio channels, Fiber Optic Transmitter with 1550nm Multimode & Singlemode Laser +0 dBm with FC connector. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO27) |
| DVM-1700-FTX-MOD-7-xxxx | Modular, 2 video 9 bit, 4 audio channels, Fiber Optic Transmitter 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 with SC connector. Supports up to 8 wavelengths or channels per fiber optic cable. (Enter wavelength for xxxx) For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO27) (May requires CWDM Mux & Demux Accessories) |
| DVM-1700-FRX-MOD-50 | Modular, 2 video, 4 audio channels, Fiber Optic Receiver Multimode & Singlemode PIN with FC connectors, Sensitivity -25 dBm. For UTIL-200-DVM-2RU-AC Tray. Specify -ST or -FC for connector type (May require -DVMAUDIO27) |
| | Accessories (SIN 58-6) |
| -DVMAUDIO27 | Audio screw terminal break-out adapter for DVM1700 |
| -NOAUDIO | No Audio Option, price adjustment for units without the 4 audio channels |
| UTIL-200-DVM-2RU-AC | Analog, Digital and Fiber, 10 Slot, 2RU, Modular Utility Tray, with one 85-265 VAC Power Supply & Line Cord |
| PS-200-DVM-AC | Modular 85-265 VAC Power Supply & Line Cord for 200 series trays |



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