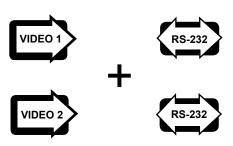
Digitally-Encoded Two Channel Video with Two Full-Duplex Rs-232 Data Channels



FEATURES:

- Digital Video Encoding
- 2 Channels of Real-Time Video Signals with 2 Channels of full-duplex RS-232
- 7 MHz Video Bandwidth
- Meets RS-250C Medium Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmartTM Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Cards
- Laser Back Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats
- DB 9 Type Connectors for RS-232 data



DESCRIPTION:

The DT/DR-2V2D/2D series products incorporate digital encoding technology. This fiber optic module transmits 2 real-time, high performance digitally-encoded Video signal and 2 channels of full-duplex RS-232 data channels over one fiber. Both multimode and singlemode fiber versions are available. Meridian's digital product line incorporates plug-in personality signal cards to easily configure a wide variety of module types. The functionality of the DT/DR-2V2D/2D series products is enhanced by its compatibility with Meridian's PC based SpectraSmart Network Management & Diagnostic Software system. Spectra Smart supervises the operating parameters of the transmission system such as the status on Video levels, Sync, Digital carrier detect, Voltages, Temperatures, Optical levels etc. See Spectra Smart brochure for further details.

CONFIGURATIONS:

The DT/DR-2V2D/2D product family is available as rack mount cards and modules that can be installed in Meridian's card chassis, desk chaises and 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be made a standalone system by using the SR-1000/s, 2 slot desk / wall mount chassis (87VAC-264VAC).

MARKETS:

- √ Pro Video
- √ Distance Learning
- √ Editing Studios
- √ Tele-Conferencing

SPECIFICATIONS: —

Video

11400	
Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	5 Hz to 6.8 MHz @ -3 dB
Differential Gain	<0.6%
Differential Phase	<0.3°
SNR	>60 dB (weighted)*
Return Loss	>30 dB
Field Tilt	< 0.5%

Data

Formats	RS-232		
Rate RS-232	DC to 125 Kb/s		
Bit Error Rate	10-9*		

Optical Fiber Data Rate

Fiber Data Rate 500 Mb/s

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST, FC
Data	DB9 Female

Power **

Card 7 Watts

Model No.

DT-2V2D/2D-2. Transmitter, 1300/850 nm, MM, Laser DT-2V2D/2D-5. Transmitter, 1310/1550 nm, SM, Laser DT-2V2D/2D-8. Transmitter, 1310/1550 nm, SM, DFB Laser

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error RX opti-
1 - Bi-color	cal signal - Present / Absent
2 - Green	Sync. Present
2 - Bi-color	Video Present / Overload
4 - Green	Data Present

Physical

Dimensions:	
Card	160 mm (6.3") L, 100 mm (4") W
	44 mm (1.7") H
Weight:	
Card	450 gms (16 Oz)
No. of Slots	2

Enviromental

Operating Temperature	34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

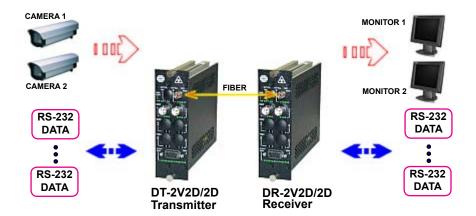
Quality

MTBF	>220,000 hours @ Ground Fix
	35°C per MIL 217F

^{*} measured @ max. optical budget

DR-2V2D/2D-2. Receiver, 805/1300nm, MM, Laser DR-2V2D/2D-5. Receiver, 1550/1310nm, SM, Laser DR-2V2D/2D-8. Receiver, 1550/1310nm, SM, DFB Laser

NOTE: ADD THE SUFFIX "D" AT THE END OF THE PART NUMBER FOR DIAGNOSTICS AND SUFFIX "C" FOR CONFORMAL COATING.



OPTICAL: -

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-3	-23	20	1300	ST	24
Singlemode (FP Laser) 9 / 125	-3	-23	20	1310	ST, FC	24
Singlemode (DFB Laser) 9 / 125	+3	-23	26	1550	ST, FC	24

^{**} Due to variations of drivers and diagnostic options, power shown @ max value