DT/DR-2V2A-3

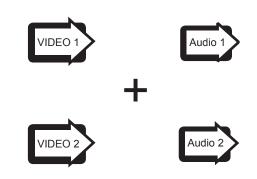
DigiFlex™

Digitally-Encoded Two Channel Video with Two Channels Audio



FEATURES:

- Digital Video Encoding
- 2 Channels of Real-Time Video Signals with 2 Channels of Real -Time 24 Bit Audio
- 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
- SpectraSmart[™] 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 Audio



DESCRIPTION:

The DT/DR-2V2A-3 products incorporate digital encoding technology. This fiber optic module transmits 2 real-time, high performance digitally-encoded Video signal and 2 channels of 24 Bit quality Audio 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-2V2A-3 products are enhanced by their 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-2V2A-3 product 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

Format	NTSC, PAL, SECAM			
Vertical Frequency	50Hz (PAL), 59.94Hz (NTSC)			
Horizontal Frequency	15.625KHz (PAL),			
	15.734KHz (NTSC)			
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.			
Bandwidth	5 Hz to 6.8 MHz @ -3 dB			
Differential Gain				
Differential Phase	<0.3o			
SNR	>60 dB (weighted)*			
Return Loss	>30 dB			
Field Tilt	< 0.5%			

Audio

600 Ohms (Bal. / Un Bal.)		
10Hz to 20KHz		
>90dB (Weighted) @ 1KHz.		
-6 to +6 dBm (4VP-Pmax.)		
(+18dBm availabale on Request)		
< 0.01% @ 1 KHz		
24 Bit		

Optical

Fiber	Data Rate	500 Mb/s

Connectors

Video	75 Ohm BNC (Gold Center Pin)	MTBF
Optical	ST, FC, FCPC, SC	*
Audio	DB9 Female	* measured ** Due to v

Model No.

DT-2V2A-3. Transmitter, 1310nm, SM, Laser

Power **

Card

7 Watts

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	RX optical signal - Present / Absent
2- Green	Sync. Present
2- Bi-color	Video Present / Overload
2- Red	Audio Overload
2 - Green	Audio 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

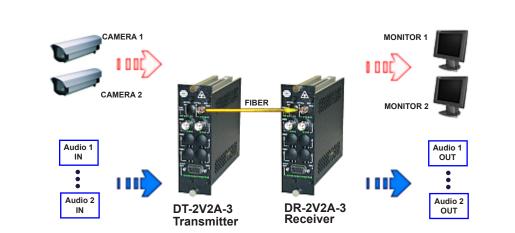
Quality

>220,000 hours @ Ground Fix 35°C per MIL217F

usured @ max. optical budget Due to variations of drivers and diagnostic options, power shown @ max value

DR-2V2A-3. . . . Receiver, 1310nm, SM, Laser

NOTE: ADD THE SUFFIX "D" AT THE END OF THE PART NUMBER FOR DIAGNOSTICS AND SUFFIX "F" 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

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