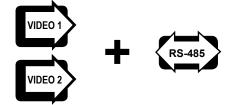
DT/DR-2V1K/1K DT/DR-2W1K/1K DigiFlexTM

Digital 2 Channel Video Multiplexer with One Full Duplex Channel of RS 485 (4 Wire)



FEATURES:

- 8-Bit or 10-Bit Video Digital Encoding
- 4 Real-Time Video Signals with Full Duplex RS 485 (4 Wire) Data.
- 1 Channel of RS 485 (4 Wire) data supported
- 7 MHz Video Bandwidth
- Meets RS-250C 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.
- Meets NEMA TS1 / TS2 & CALTRANS Specs.
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats
- DB 9 Type Connector for Data
- DC to 1 Mb/s Data Rate



DESCRIPTION:

The DT/DR-2V1K/1K and DT/DR-2W1K/1K products is a reliable, cost effective, state-of-the-art, one fiber, Bi-directional Digital Video and Data transmission systems. This fiber optic systems transmits four channels of 8-bit or 10-Bit real-time Video with One full-duplex RS 485 (4 Wire) data over one Singlemode or Multimode fiber. The DT/DR-2V1K/1K and DT/DR-2W1K/1K systems accept PAL, SECAM, or NTSC video formats. The functionality of this systems is further enhanced by their compatibility with Meridian's PC based SpectraSmart, Network Management and Remote Diagnostic Software System. SpectraSmart supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, data activity etc. See the SpectraSmart brochure for more details.

CONFIGURATIONS:

The DT/DR-2V1K/1K and DT/DR-2W1K/1K products is available as rack mount cards and modules that can be installed in all of 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:

- $\sqrt{}$ Security and Surveillance
- √ Intelligent Transportation System (ITS)
- Access Control Systems
- $\sqrt{}$ Campus Lecture Networks
- ✓ Pro. Video / Audio

SPECIFICATIONS: -

Video

Format
Voltage/Impedance
Bandwidth
Differential Gain
Differential Phase
SNR for 8-Bit Video
SNR for 10-Bit Video
Return Loss
Field Tilt

NTSC, PAL, SECAM

>63 dB (weighted)*

>67 dB (weighted)*

<0.6%

< 0.3°

>30 dB

< 0.5%

500Mb/s

800Mb/s

5 Hz to 6.8 MHz @ -3 dB

1 Vp-p, 75 Ohm, 1.5 Vp-p max.

Data

Formats	RS-485 (4 Wire)
Rate	DC to 1Mb/s
Bit Error Rate	10-9*

Optical

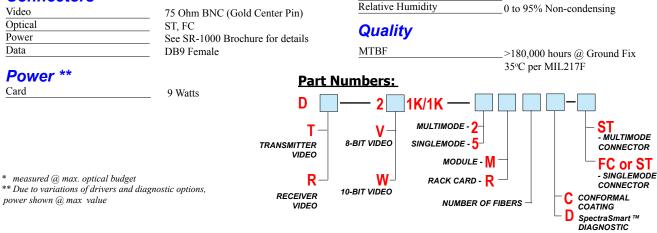
Fiber Data Rate for 8-Bit Video Fiber Data Rate for 10-Bit Video

Connectors

Video	75 (
Optical	ST.
Power	See
Data	DB

Power **

Card





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 / 850	ST	23
Singlemode (FP Laser) 9 / 125	-3	-23	20	1310 / 1550	ST, FC	23
Singlemode (DFB Laser) 9 / 125	+3	-23	26	1310 / 1550	ST, FC	23

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1 - Bi-color

1 - Bi-color

1 - Bi-color

2- Green

2 -Bi-color

Physical

Dimensions:

No. of Slots

Enviromental

Operating Temperature

Storage Temperature

2-Green

Card

Weight:

Card

Power On

Sync. Present

Data Present

44 mm (1.7") H

450 gms (16 Oz)

-34°C to +74°C

-55°C to +85°C

2

TX Carrier/ Laser Over Current

RX optical signal - Present / Absent

160 mm (6.3") L, 100 mm (4") W

ver 04/07

RX Carrier - Present / Error

Video Present / Overload