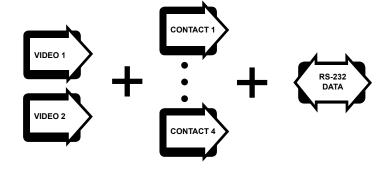




Digital Two Channel 10-Bit Video Multiplexer with Four Contact Closure and Full Duplex RS-232 Data Channel



FEATURES:

- 10 Bit Video Digital Encoding
- Real Time Video & DataTransmission
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Four User-selectible, Contact Mapping (N.O, N.C)
- Full Duplex RS-232 Data channel
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Single-mode
- 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 Data
- DB 15 Type Connectors for Contacts

DESCRIPTION:

The DT/DR-2W4C1D/1D-x product incorporates digital encoding technology. This fiber optic module transmits Two real-time, Simplex 10-bit Video channels, Four Contact Closure channels and One Full-duplex channel of RS-232 Data over one optical fiber.

Both Multimode and Single-mode fiber versions are available. The Contact Closure channels can be configured as either Normally Open (N.O.) or Normally Closed (N.C.).

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-2W4C1D/1D-x series products is enhanced by their compatibility with Meridian's PC based SpectraSmart™ Network Management & Diagnostic Software system. SpectraSmart monitors the operating parameters of the transmission system such as the status on video levels, sync, digital carrier detect, voltages, temperatures and optical levels etc. See SpectraSmart brochure for further details.

CONFIGURATIONS:

The DigiFlex™ cards can be mounted in either a small, 2-slot stand-alone chassis for shelf or wall mounting or in one of Meridian's 3RU desk chassis or rack mounting in our 19" racking frames. The small stand-alone chassis (SR-1002) with its AC power supply (87 VAC - 164 VAC) is used for shelf or wall mounting.

MARKETS:

- √ Intelligent Transportation Systems (ITS)
- √ Security and Surveillance
- √ Access Control

SPECIFICATIONS:

Video

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	<0.30
SNR	>67 dB (weighted)*
Return Loss	>30 dB
Field Tilt	< 0.5%

Data

Formats	DC 222
Data Rate RS-232	RS-232
Bit Error Rate	DC to 125 Kb/s
	10 '

Contact Closure

Formats	Normally Open (N.O.) or Normally				
	Closed (N.C.) - jumper selectable				
Rate	10 Hz.(Per Channel)				
Contact Rating	0.3A, 30V AC / DC				
Contact Bounce Time	5 ms				

Optical

Fiber Data Rate 500 Mb/s

Connectors

Video	75 Ohm BNC (Gold Center Pin)				
Optical	ST - MM(default), FC- SM				
Power (module)	See SR-1000 Brochure for details				
Data	DB9 Female Connector				
Contact Closure	DB15 Female Connector				

Power **

Card 8 Watts

* measured @ max. optical budget

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Green	RX Optical Signal -Present/Absent
2 - Bi-color	Video Present / Overload
2 - Green	Video Sync. Present
2 - Green	Data Present
4 - Green	Contact Closure Present

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") H
	44mm (0.80")W
Weight (Card)	450 gms (16 Oz)
No. of Slots	2

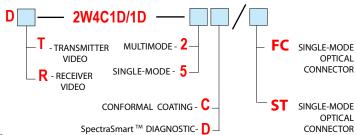
Environmental

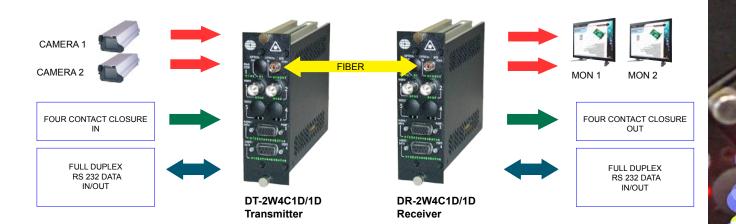
Operating Temperature	-40°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF >170,000 hours @ Ground Fix 35°C per MIL217F

Part Numbers:





OPTICAL:

Meridia Optical C	VI	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
2	Multimode (Laser) 62.5 / 125	-3	-23	20	1300 / 850	ST	23	2
5	Single-mode (FP Laser) 9 / 125	-3	-23	20	1310 / 1550	ST, FC	23	55

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