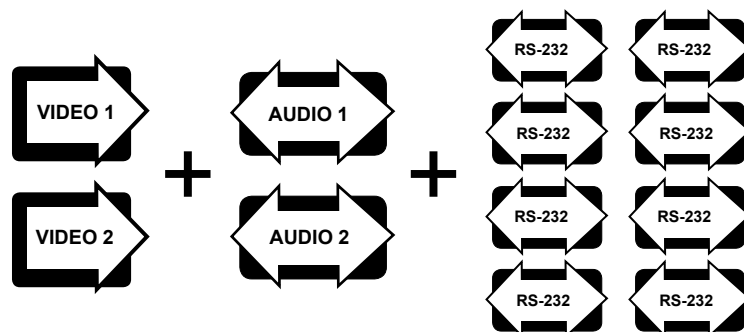


Digitally-Encoded Two Channels 8-bit Video
 with Two Bi-directional 24-bit Audio
 and Eight Bi-directional RS-232 Data
 using the Industry Standard
 Small Form Pluggable (SFP) Optical Device



FEATURES:

- 8-Bit Video Digital Encoding
- Real Time Video, Audio and Data Transmission
- 2 Bi-Directional 24-Bit Audio Channels
- 8 Bi-Directional RS-232 Data Channels
- 7 MHz Video Bandwidth
- Multimode, Singlemode and CWDM fiber options via SFP modules
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Multimode, Singlemode and CWDM fiber options via SFP modules
- 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
- LC, SC Optical Connector (SFP dependent)
- Hot Swappable Cards
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats
- DB 9 Type Connectors for Audio and Data

DESCRIPTION:

The DT/DR-2V2A8D/2A8D-SFP series are Meridian's newest products incorporating industry standard SFP optical modules for exceptional product versatility and performance. This fiber optic module transmits two real-time, simplex 8-bit video, two Bi-Directional channels of 24-Bit Audio and eight Bi-directional RS-232 data using the industry standard Small Form Pluggable (SFP) optical device.

This SFP gives you the option for either singlemode, multimode or CWDM wavelength selections by simply plugging in the appropriate SFP module. 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-2V2A8D/2A8D-SFP product is enhanced by their compatibility with Meridian's PC based SpectraSmart™ Network Management & Diagnostic Software system. SpectraSmart™ 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 SpectraSmart brochure for further details.

CONFIGURATIONS:

The DigiFlex products are available as rack mount cards and modules that can be installed in either Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. This product requires two standard single slots and can be made into a stand-alone system with the addition of the SR-1000/s, 2 slot desk/wall mount chassis (87VAC- 264VAC).

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	<0.3°
SNR	>60 dB (weighted)*
Return Loss	>30 dB
Field Tilt	<0.5%

Audio

I/O Impedance	600 Ohms (Bal. / Un Bal.)
Frequency Response	10 Hz to 20 KHz
SNR	>90dB (Weighted)@ 1 KHz
In/Out Level	-8 to +8 dBm (4V _{p-p} max.) (+18 dBm available on request)
Total Harmonic Distort	<0.01% @ 1KHz
Resolution	24 Bit

Data

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

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	LC, SC - SFP dependent
Power (module)	See SR-1000 Brochure for details
Audio and Data	DB9 Female

Optical

Fiber Data Rate	500 Mb/s
Fiber Type and Wavelength	SFP dependent

* measured @ max. optical budget

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

Power **

Card	7 Watts
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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
16 - Green	Data Present
4 - Green	Audio Present
4 - Red	Audio Overload

Physical

Dimensions (Card)	44 (W) x 127 (H) x 160 (D) mm (1.74 x 5.0 x 6.3 inch)
Weight (Card)	540 gms (1.2 lb.)
No. of Slots	2

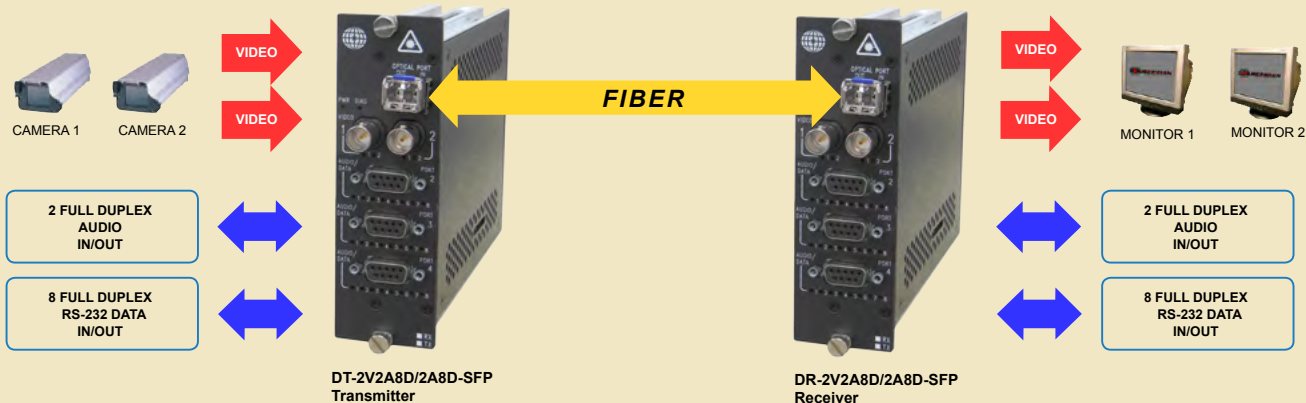
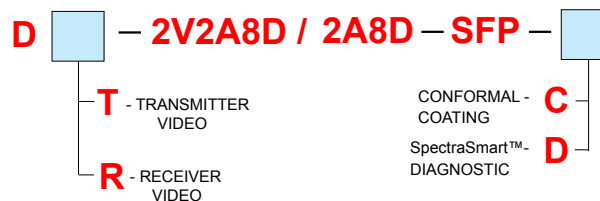
Enviromental

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
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Part Numbers:



SFP OPTIONS:

The SFP series products are available for both singlemode and multimode fiber applications and either one or two fiber versions.

Recommended optical speed for this product is 1.25 Gb/s.

For more specifications on a SFP optical devices go to [SFP data sheet](#) or go to:

WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES

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