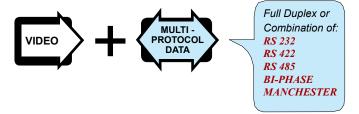
Digital One Channel 10-Bit S-Video Multiplexer with One Full Duplex Multi-Protocol Data Channel





FEATURES:

- 10 Bit Video Digital Encoding
- Real Time S-Video & DataTransmission
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC Compatible
- Multi-protocol data channel. Compatible with RS-232, RS-422, RS-485, Manchester, Bi-phase
- 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
- S-Video Connector
- Meets EIA RS-170, RS-343A Formats
- DB 9 Type Connectors for Data

DESCRIPTION:

The DT/DR-1S1G/1G series products incorporate digital encoding technology. This fiber optic module transmits one real-time, simplex 10-bit S-Video & full-duplex channel of multi-protocol data (RS-232, RS-422 and RS-485 (2 or 4-wire)) over one optical fiber. These data formats are also compatible with bi-phase & Manchester encoding schemes. 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-1S1G/1G series products 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 DT/DR - 1S1G/1G product family is available as rack mount cards and modules that can be installed in either Meridian's desk chaises or in 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 (87 VAC- 264VAC)

MARKETS:

- √ Security and Surveillance
- √ Access Control

SPECIFICATIONS: -

Video

Format	NTSC
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	>67 dB (weighted)*
Return Loss	>30 dB
Field Tilt	< 0.5%

Data

Formats	RS-485, RS-422, RS-232
Data Rate RS-422 / 485	DC to 1Mb/s
Data Rate RS-232	DC to 125 Kb/s
Bit Error Rate	10-9*

Optical

Fiber Data Rate 500 Mb/s

Connectors

Video	S-Video
Optical	ST, FC
Power (module)	See SR-1000 Brochure for details
Data	DB9 Female

Power **

Card 8 Watts

* measured @ max. optical budget

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

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
1 - Bi-color	Video Present / Overload
1 - Green	Video Sync. Present
2 - Green	Data 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

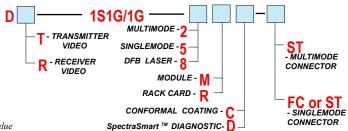
Enviromental

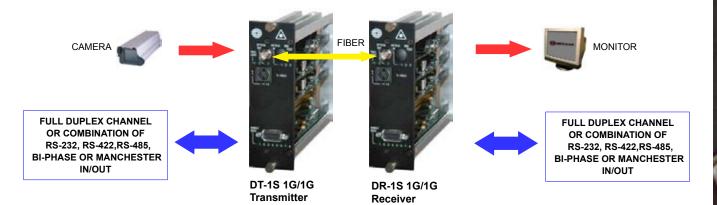
Operating Temperature	-40°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

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

Part Numbers:





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	-24	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-3	-24	21	1310 / 1550	ST, FC	24
Singlemode (DFB Laser) 9 / 125	+3	-24	27	1310 / 1550	ST, FC	24