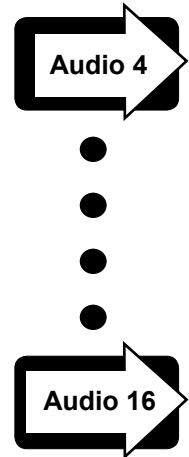


Uni-Directional, One Fiber Audio
Multiplexer 4-16 Channels



FEATURES:

- Up to 16 Channels of 24 bit Digitally Encoded Audio Channels over One Fiber
- Laser Based Systems for Multimode and Singlemode Fiber
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics and Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Rack Cards
- Back - Biased Photo Detector Circuitry for Stable Optical Laser Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications.
- Utilizes Internal Switching Power Supplies
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- DB 9 Type Connectors for Audio
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed

DESCRIPTION:

The DT/DR -A series product incorporates a new digital encoding technology. This fiber optic system is available in different configurations ranging from minimum of 4 Channel up to maximum of 16 Channels of Uni-directional Audio signals over one Singlemode or Multimode fiber. Meridian's digital product line incorporates plug-in personality circuit cards to easily configure a wide variety of data channels on this system. The functionality of the DT/DR-A series are further 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 Digital carrier detect, voltages, temperatures, optical levels, Laser currents, Digital Power supply etc. See SpectraSmart brochure for further details.

CONFIGURATIONS:

The DT/DR- A product family is available as rack mount cards suitable for mounting in Meridian card chassis and utilizes 2 card slots. These products can easily be converted to a Standalone module with the SR-1000/S, Desk / Wall mount 2-slot chassis See SR-1000 brochure for further details.

MARKETS:

- ✓ CCTV Networks
- ✓ Intercomms
- ✓ Security & Surveillance

SPECIFICATIONS:

Audio

In/Out Impedance.....	600 Ohms (Bal. / Un Bal.)
Frequenct Response.....	10Hz to 20KHz
SNR.....	>90dB (Weighted) @ 1KHz
In / Out Level.....	-6 to +6 dBm (4V _{P-P} max.)
Total Harmonic Distortion ..	< 0.01% @ 1 KHz
Resolution.....	24 Bit

Power*

Card.....	8 Watts
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Connectors

Audio.....	DB 9F
Optical.....	ST, FC

Optical

Bandwidth.....	250 Mb/s.
NOTE: Standard Systems incorporates Fabry Perot Lasers	

Enviromental

Operating Temperature.....	-34°C to +74°C
Storage Temperature.....	-55°C to +85°C
Relative Humidity.....	0 to 95% Non-condensing

Model No.

DT-4A-1.....	4 Ch. Transmitter, 1300 nm, MM
DT-8A-1.....	8 Ch. Transmitter, 1300 nm, MM
DT-12A-1.....	12 Ch. Transmitter, 1300 nm, MM
DT-16A-1.....	16 Ch. Transmitter, 1300 nm, MM
DT-4A-3.....	4 Ch. Transmitter, 1300 nm, SM
DT-8A-3.....	8 Ch. Transmitter, 1300 nm, SM
DT-12A-3.....	12 Ch. Transmitter, 1300 nm, SM
DT-16A-3.....	16 Ch. Transmitter, 1300 nm, SM

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
1- Green.....	Audio Present (One Per Channel)
1- Red.....	Audio Overload (One Per Channel)
1- Bi-color (Optional).....	Card Diagnostics

Physical

Dimensions:	
Card.....	160 mm (6.3") L, 100 mm (4") W 44mm (1.7") H
Weight:	
Card.....	450 g (16 oz.)
Number of Rack Slots.....	Two

Quality

MTBF.....	>200,000 hours, @ 35°C Ground Fix as per MIL 217F
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* Due to variations of drivers and diagnostic options, power shown @ max value

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) 62.5 / 125	-4	-24	20	1300	ST	24
Singlemode (FP) 9 / 125	-4	-24	20	1310	ST, FC	24
Singlemode (DFB) 9 / 125	+3	-24	27	1550	ST, FC	24