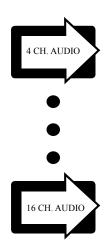
Uni-Directional, One Fiber Audio Multiplexer 4-16 Channels





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-9F Type Connectors for Audio
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed

DESCRIPTION:

The DT/DR-nA series product incorporates a new digital encoding technology. This fiber optic system is available in different configurations ranging from minimum of 4 Channels 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-nA 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-nA 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
- √ Intercoms
- √ Security & Surveillance

SPECIFICATIONS:

Audio

Frequenct Response 10Hz to 20KHz

 $\begin{array}{lll} \text{SNR} & & > 90 \text{ dB (Weighted) } \textit{@ 1KHz} \\ \text{In / Out Level} & & -6 \text{ to +6 dBm (4V}_{\text{p.p}} \text{max.)} \\ \end{array}$

Total Harmonic Distortion . . < 0.01% @ 1 KHz

Resolution 24 Bit

Optical

Bandwidth 250 Mb/s.

Connectors

Audio..... DB-9F

Optical ST - MM (default),

FC- SM (default)

Enviromental

Operating Temperature. -34°C to +74°C Storage Temperature. -55°C to +85°C

Relative Humidity. 0 to 95% Non-condensing

Power*

Card 8 Watts

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

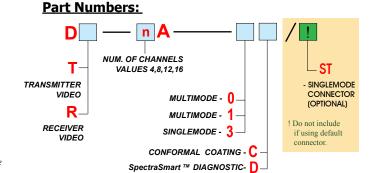
44mm (1.7") H

Weight

Card 450 g (16 oz.)

Number of Rack Slots . . . Two

Quality



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



OPTICAL:

* Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
0	Multimode (VCSEL Laser) 62.5 / 125	-5	-27	22	850	ST	24	4
1	Multimode (FP Laser) 62.5 / 125	-3	-25	22	1300	ST	24	4
3	Singlemode (FP Laser) 9 / 125	-3	-25	22	1310	ST, FC	24	50

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