

FEATURES:

 Up to 8 Channels of 24 bit Digitally Encoded Audio over One Fiber

DT-8AH-x card shown

- Low Signal Latency
- 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
- BNC Type Connectors for Audio
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed

DESCRIPTION:

The DT/DR-nAH-x series product incorporates a new digital encoding technology with Low Signal Latency.

This fiber optic system is available in different configurations and will transmit from minimum 2, to maximum 8 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-nAH-x 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-nAH-x 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-1550, Desk / Wall mount 2-slot chassis. See SR-1002 chassis spec. for further details.

MARKETS:

- √ CCTV Networks
- √ Intercoms
- √ Security & Surveillance

SPECIFICATIONS:

Audio

In/Out Impedance. 600 Ohm (Bal.), 47 KOhm (Un Bal.)

Frequenct Response 10Hz to 20KHz

Optical

Connectors

Audio..... BNC

Optical ST - MM (default), FC- SM (default)

Environmental

Operating Temperature. $-34^{\circ}\text{C to } +74^{\circ}\text{C}$ Storage Temperature. $-55^{\circ}\text{C to } +85^{\circ}\text{C}$

Relative Humidity...... 0 to 95% Non-condensing

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:

Cards. 160 mm (6.3") L, 100 mm (4") H

44 mm (1.7") W

Weight:

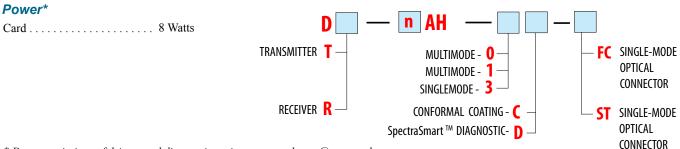
Cards 540 g (1.2 lb.)

Number of Rack Slots . . . Two

Quality

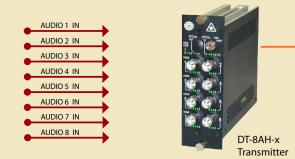
MTBF. >200,000 hours, @ 35°C Ground Fix as per MIL 217F

Part Numbers:



FIRER

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





AUDIO 1 OUT	
AUDIO 2 OUT	
AUDIO 3 OUT	
AUDIO 4 OUT	
AUDIO 5 OUT	
AUDIO 6 OUT	
AUDIO 7 OUT	
AUDIO 8 OUT	

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