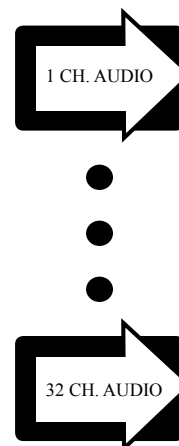


Unidirectional, 32 Channels
 24 Bit Audio over One Fiber



DT-32A-x
 assembly shown



FEATURES:

- 32 Channels of 24 bit Digitally Encoded Audio 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-32A-x series product incorporates a new digital encoding technology. This fiber optic system will transmit 32 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-32A-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-32A-x product family is available as rack mount cards suitable for mounting in Meridian card chassis and utilizes 5 card slots. These products can easily be converted to a Standalone module with the SR-1550, Desk / Wall mount 5-slot chassis. See SR-1550 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
SNR	> 90 dB (Weighted) @ 1KHz
In / Out Level	-6 to +6 dBm (4V _{p-p} max.)
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)

Environmental

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

Power*

Card	6 Watts (per card)
------------	--------------------

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 105 mm (4.2") W
-------------	---

Weight:

Cards	1600 g (56 oz.)
Number of Rack Slots ...	5

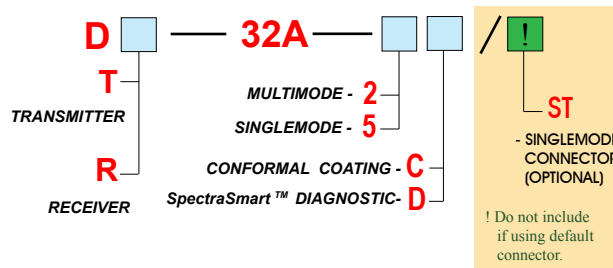
Quality

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

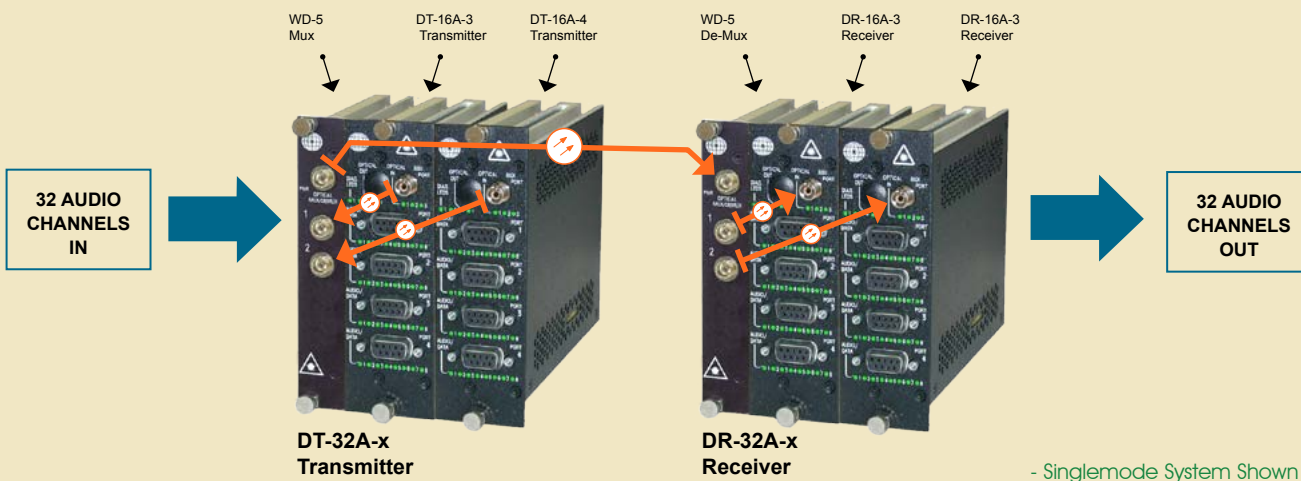
Packing List

For Multimode System		For Singlemode System	
DT-32A-2		DT-32A-5	
Tx Card DT-16A-0	1	Tx Card DT-16A-3	1
Tx Card DT-16A-1	1	Tx Card DT-16A-4	1
MUX/DEMUX WD-2	1	MUX/DEMUX WD-5	1
DR-32A-2		DR-32A-5	
Rx Card DR-16A-0	1	Rx Card DR-16A-3	1
Rx Card DR-16A-1	1	Rx Card DR-16A-3	1
MUX/DEMUX WD-2	1	MUX/DEMUX WD-5	1

Part Numbers:



* 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)
2	Multimode (Laser) 62.5 / 125	-3	-24	21	850, 1300	ST	24	2
5	Singlemode (FP Laser) 9 / 125	-3	-24	21	1310, 1550	ST, FC	24	50

Meridian Technologies Inc.

700 Elmont Road. • Elmont, NY 11003 • 516. 285. 1000 • FAX 516. 285. 6300 • E-mail sales@meridian-tech.com
Visit our web side: www.meridian-tech.com

ver. 06/2014 A