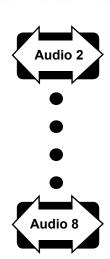
Bi-directional, One Fiber Audio Transceiver 2-8 Channels







FEATURES:

- Upto 8 Channels of 24 Bit Digitally Encoded Bi-directional 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 DX-A/A series product incorporates a new digital encoding technology. This fiber optic system is available in different configurations ranging from minimum of 2 Channel up to maximum of 8 Channels of Bi-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 DX-A/A series are further enhanced by its 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 DX- A / 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:

- √ Security and surveillance
- √ CCTV Networks
- √ Intercomms
- √ Highway Emergency Stations

SPECIFICATIONS: ————

Audio

I/O Impedance	600 Ohms (Bal. / Un Bal.)
Frequency Responce	10 Hz to 20 KHz
SNR	>90dB (Weighted)@ 1 KHz
In/Out Level	-8 to +8 dBm (4Vp-p max.)
	(+18 dBm available on request)
Total Harmonic Distort	<0.01% @ 1KHz
Resolution	24 Bit

Power*

Card 8 Watts

Connectors

Data	DB 9F
Optical	ST. FC

NOTE: Standard Systems incorporates Fabry Perot Lasers

Optical

Bandwidth 250 Mb/s.

Enviromental

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

Relative Humidity 0 to 95% Non-condensing

Model No.

SIDE II	
DXA-2A / 2A-2 2 Ch. Transceiver, 130	00 / 850 nm, MM
DXA-4A / 4A-2 4 Ch. Transceiver, 130	00 / 850 nm, MM
DXA-6A / 6A-2 6 Ch. Transceiver, 130	00 / 850 nm, MM
DXA-8A / 8A-2 8 Ch. Transceiver, 130	0 / 850 nm, MM
DXA-2A / 2A-5 2 Ch. Transceiver, 155	50 / 1310 nm, SM
DXA-4A / 4A-5 4 Ch. Transceiver, 155	50 / 1310 nm, SM
DXA-6A / 6A-5 6 Ch. Transceiver, 155	50 / 1310 nm, SM

DXA-8A / 8A-5. 8 Ch. Transceiver, 1550 / 1310 nm, SM

SIDE "A"

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

Physical

Dimensions:

Card 160 mm (6.3") L, 100 mm (4") W

Weight: 44mm (1.7") H

Card 450 g (16 oz.)

Number of Rack Slots Two

Quality

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

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

SIDE "B"

DXB-2A / 2A-2	2 Ch. Transceiver	r, 850 / 1300 nm, MM
DXB-4A / 4A-2	4 Ch. Transceiver	r, 850 / 1300 nm, MM
DXB-6A / 6A-2	6 Ch. Transceiver	r, 850 / 1300 nm, MM
DXB-8A/ 8A-2	8 Ch.Transceiver	, 850 / 1300 nm, MM

DXB-2A / 2A-5. 2 Ch. Transceiver, 1310 / 1550 nm, SM DXB-4A / 4A-5. 4 Ch. Transceiver, 1310 / 1550 nm, SM DXB-6A / 6A-5. 6 Ch. Transceiver, 1310 / 1550 nm, SM DXB-8A / 8A-5. 8 Ch.Transceiver, 1310 / 1550 nm, SM

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 / 850	ST	24
Singlemode (FP) 9 / 125	-4	-24	20	1310 / 1550	ST, FC	24
Singlemode (DFB) 9 / 125	+3	-24	27	1310 / 1550	ST, FC	24