MERIDIAN
T E C H N O L O G I E S
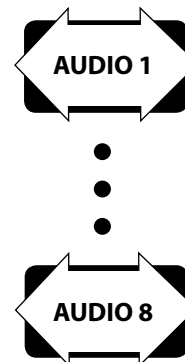
Digitally Encoded Eight Bi-directional High Output (18 dBm) Audio Channels using Small Form Pluggable (SFP) Optical Module

AUDIO 1

AUDIO 8

FEATURES:

- 8 Channels of real-time 24-Bit, Bi-directional High Output (18dBm) Audio

- Multimode, Single-mode and CWDM fiber options via SFP modules

- 10Hz to 20KHz audio bandwidth

- Greater than 90dB SNR for superb audio quality

- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators

- LC, SC Optical Connector (SFP dependent)

- Surface Mount Technology (SMT) for High Reliability and Repeatability

- *SpectraSmart*™ Network Management Compatible

- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters

- Hot Swappable Cards

- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection

- DB 9 Type Connectors for Audio

DESCRIPTION:

The DX-8AA/8AA-SFP series is fiber optic transmission system that takes advantage of Meridian's digital encoding technology and transmits following signals:

- *Eight Channels of Full Duplex 24-Bit High Output Audio*

System is employing the industry standard Small Form Pluggable (SFP) optical device. This SFP gives you the option for either singlemode, multimode or CWDM wavelength selections by simply plugging in the appropriate SFP module.

The versatility of this system is enhanced by its compatibility with Meridian's PC based SpectraSmart™ Network Management and Remote Diagnostic Software System. SpectraSmart™ supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, data present etc. See the SpectraSmart brochure for more details.

CONFIGURATIONS:

The DigiFlex products are available as rack mount cards and modules that can be installed in Meridian's card chassis, desk chaises and 19" racking frames. These systems can be configured in either star (module to rack) or trunking (rack to rack) configurations and can be made a standalone system by using the SR-1002, 2 slot desk / wall mount chassis (87VAC-264VAC).

MARKETS:
√ Pro Audio
√ Courtroom & broadcast audio feeds
√ Distance Learning
√ Security and surveillance
√ CCTV Networks
√ Intercoms
√ Highway Emergency Stations

SPECIFICATIONS:

Audio

I/O Impedance	600 Ohm (Bal.), 47 KOhm (Un Bal.)
Frequency Response	10 Hz to 20 KHz
SNR	>90dB (Weighted)@ 1 KHz
In/Out Level	-6 to +18 dBm (16V_{p-p} max.)
Total Harmonic Distortion	<0.01% @ 1KHz
Resolution	24 Bit

Optical

Fiber Data Rate	250Mbs

Connectors

Optical	LC, SC - SFP dependent
Audio	DB9 Female

Power*

Card	8 Watts

Environmental

Operating Temperature	-40ºC to +75ºC
Storage Temperature	-55ºC to +85ºC
Relative Humidity	0 to 95% Non-condensing

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

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
8 - Red	Audio Overload
8 - Green	Audio Present
8 - Bi-color (Optional)	Card Diagnostics

Physical

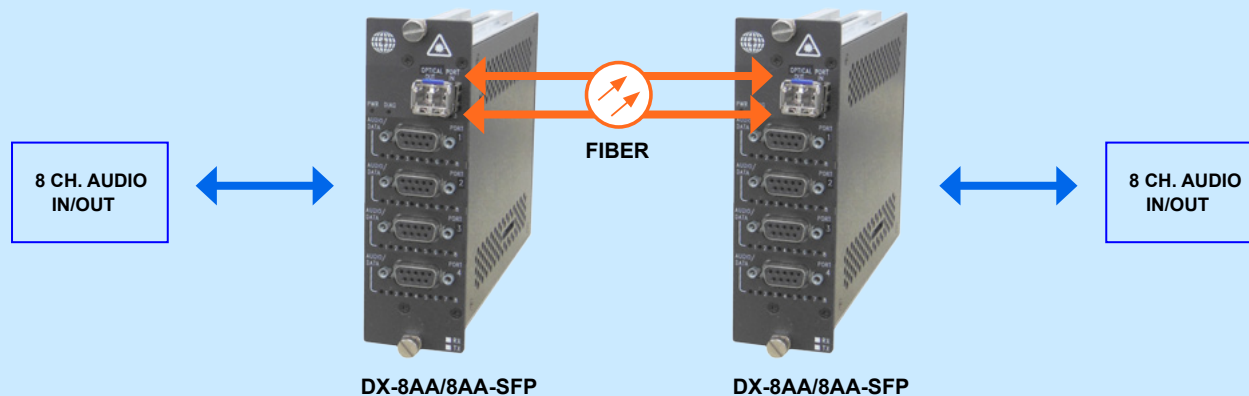|	
Dimensions (Card)	44 (W) x 127 (H) x 160 (D) mm (1.7 x 5.0 x 6.3 inch)
Weight (Card)	600 g (1.32 lb)
No. of Slots	2
Module	See SR-1002 Specs.

Quality

MTBF	>220,000 hours @ Ground Fix 35oC per MIL217F

Part Number:

DX — 8AA/8AA — SFP — ☐

SYMETRICAL
TRANSCEIVER

C - CONFORMAL COATING

D - SpectraSmart™ DIAGNOSTIC

FIBER

8 CH. AUDIO IN/OUT

8 CH. AUDIO IN/OUT

DX-8AA/8AA-SFP   **DX-8AA/8AA-SFP**

SFP OPTIONS:

The SFP series products are available for both singlemode and multimode fiber applications. Recommended optical speed for this product is 155 Mb/s .

For more specifications on a SFP optical devices go to SFP data sheet or go to:

WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES

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