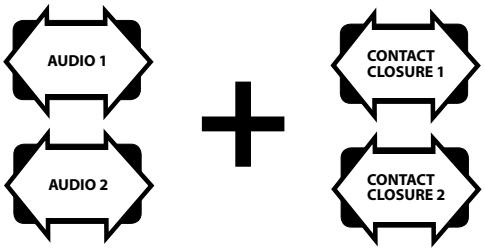
MERIDIAN TECHNOLOGIES

Digitally Encoded One Full Duplex 24-Bit Audio Channel and Two Bi-directional Contact Closure channels over One Optical fiber



FEATURES:

- Real Time Audio & Contact Closure Transmission
- Two Bi-directional Channels of 24-Bit Audio and Two Bi-directional Channels of Contact Closure
- User-selectible, Contact Mapping (N.O, N.C)
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Single-mode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart™ PC Based Network Management
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Cards
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range
- Meets EIA RS-170, RS-343A Formats
- DB-25F Type Connectors for Audio and Contact Closure

DESCRIPTION:

This module in the DigiSlim™ product family incorporates an all-digital encoding technology and will transmits Two Bi-directional 24-bit Audio and two Bi-directional Contact Closure over single fiber.
These single fiber, laser based systems are available in both, Multimode and Single-mode fiber versions.
The Contact Closure channels can be configured as either Normally Open (N.O.) or Normally Closed (N.C.).
A standard DB-25F connector is provided for the Audio/Data interface.
The SXA/SXB-2A2C/2A2C-x system is compatible with Meridian's *SpectraSmart*™ Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

CONFIGURATIONS:

The DigiSlim™ systems are available as rack mount cards and modules that can be installed in any of Meridian's desk chassis or in 19" racking frames. These systems can be configured in either star (module to rack) or trunking (rack to rack) configurations or can be transformed in to a standalone modules, by utilizing SR-500 chassis (standard configuration) or SR-1002 chassis.

MARKETS:

- ✓ Security and surveillance
- ✓ Access Control

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	-8 to +8 dBm ($4V_{p-p}$ max.) (+18 dBm available on request)
Total Harmonic Distortion	<0.01% @ 1KHz
Resolution	24 Bit

Contact Closure

Contact Type	Normally Open (N.O.) or Normally closed (N.C.) - jumper selectable
Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

Connectors

Optical	ST, FC
Power (module)	See SR-500 Brochure for details
Audio/Contact closure	DB-25F Female

Optical

Fiber Data Rate	250 Mb/s

Power **

Card	6 Watts

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
4 - Bi-Color	Audio Present / Overmodulation
4 - Green	Contact Closure Present

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") H 20mm (0.80") W
Weight (Card)	450 gms (0.9 lb.)
No. of Slots	1
Module	See SR-500 Brochure

Environmental

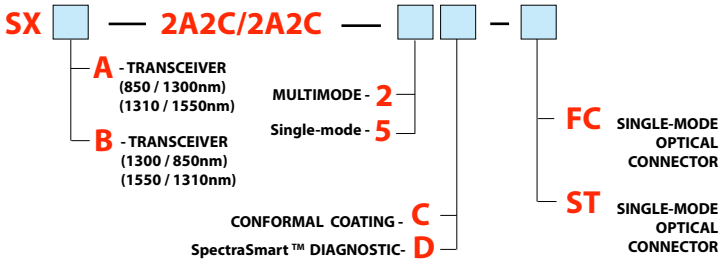
Operating Temperature	0°C to +70°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

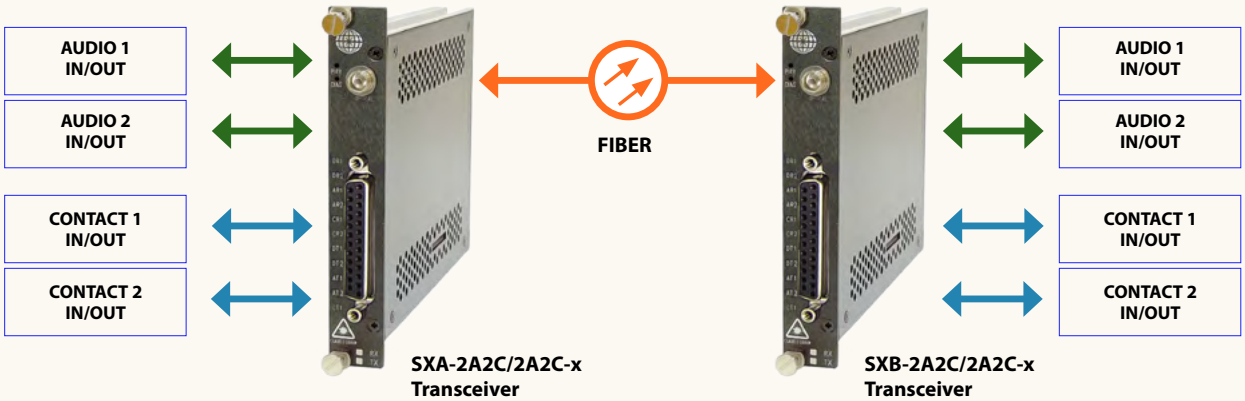
Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F

* *measured @ max. optical budget*
** *Due to variations of drivers and diagnostic options, power shown @ max value*

Part Numbers:





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	-5	-28	23	850/1300	FC, ST	28	4
5	Single-mode (FP Laser) 9 / 125	-5	-28	23	1310/1550	FC, ST	28	70

MERIDIAN TECHNOLOGIES INC. • 700 ELMONT ROAD, ELMONT, NY 11003 • PHONE 516. 285.1000 • FAX 516. 285. 6300 • E-MAIL SALES@MERIDIAN-TECH.COM • WWW.MERIDIAN-TECH.COM