





FEATURES:

- · Real Time Audio & Data Transmission
- One Bi-directional 24-Bit Audio Channel, One Bidirectional RS-232 Data
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart[™] PC Based Network Management
- SpectraView[™] Fault / Setup Firmware
- 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
- Screw Terminal Type Connectors for Audio and Data

DESCRIPTION:

This module in the DigiSlim™ product family incorporates an all-digital encoding technology. It is transmits One Bi-directional 24 bit Audio and One Bi-directional RS-232 Data over single fiber. These single fiber, laser based systems are available in both, Multimode and Singlemode modules. The versatility of the SXA/SXB-1A1D-xS system is enhanced by SpectraView, an On-Screen Video Diagnostic / Setup firmware system and SpectraSmart, an optional PC Based Network Diagnostic System. SpectraView monitors the integrity of the video signal and the fiber link. A break in the fiber path will cause a loss of fiber alarm to be displayed on an associated monitor. SpectraView is easy to use, always active and eliminates the need for additional test equipment. Spectra View also includes a selectable on-board audio & data test signal generator with built-in local and remote loop-back functions. If greater diagnostic capability is required, the SXA/SXB-1A1D-xS system is also available with Meridian's SpectraSmart Network management and diagnostic PC based system. See the SpectraSmart or SpectraView brochures for additional details.

CONFIGURATIONS:

The SXA/SXB-1A1D-xS system is available as rack mount cards and modules that can be installed in any of Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be transformed in to a standalone module by utilizing an SR-500/S (standard configuration) or an SR-1000/S.

MARKETS:

- ✓ Security and surveillance
- Access Control

SPECIFICATIONS:

Resolution

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</td>

24 Bit

Data

Optical

Connectors

 Video
 75 Ohm BNC (Gold Center Pin)

 Optical
 ST, FC

 Power (module)
 See SR-500 Brochure for details

 Data/Audio/Contact closure
 Screw Terminal

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

 2 - Green
 Data Present

 2 - Bi-Color
 Audio Present / Overmodulation

Physical

 Dimensions (Card)
 160 mm (6.3") L, 127 mm (5") W

 20mm (0.80") W

 Weight (Card)
 450 gms (16 Oz)

 No. of Slots
 1

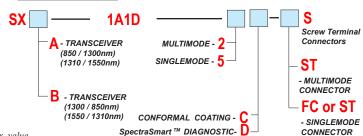
 Module
 See SR-500 Brochure

Enviromental

Operating Temperature -34°C to $+74^{\circ}\text{C}$ Storage Temperature -55°C to $+85^{\circ}\text{C}$ Relative Humidity 0 to 95% Non-condensing

Quality

Part Numbers:



* measured @ max. optical budget

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



OPTICAL: ——

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-6	-27	21	850/1300	ST	24
Singlemode (FP Laser) 9 / 125	-6	-27	21	1310 / 1550	ST, FC	24