

Four Full Duplex RS-232 Data Channel Transceiver on One Fiber



FEATURES:

- Real Time Data Transmission
- Four Bi-directional RS-232 Data Channels
- 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
- 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.
- Screw Terminal Type Connectors for RS-232 Data

DESCRIPTION:

This module in the DigiSlim™ product family incorporates an all-digital encoding technology. It transmits four full-duplex, Bi-directional RS-232 Data over one fiber. The *SpectraView* diagnostic system incorporates a selectable on-board data test signal generator with built-in local and remote loop-back functions. If greater diagnostic capability is required, the SXA/SXB-4D-x 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-4D-x 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 into a standalone module by utilizing an SR-500/S (standard configuration) or an SR-1000/S.

MARKETS:

- ✓ Security and surveillance
- ✓ Access Control

SPECIFICATIONS:

Data

Formats RS-232
 Data Rate DC to 125 Kb/s
 Bit Error Rate 10⁻⁹*

Optical

Fiber Data Rate 125 Mb/s

Connectors

Optical ST, FC
 Power (module) See SR-500 Brochure for details
 Data 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
 8 - Green Data Present

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

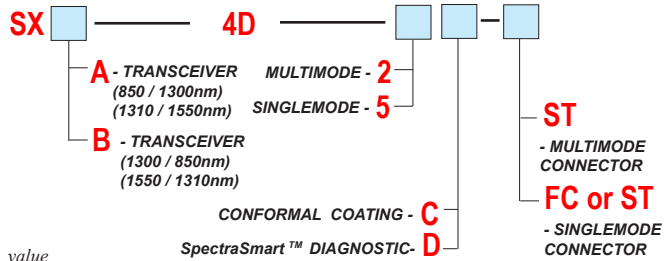
Environmental

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

Quality

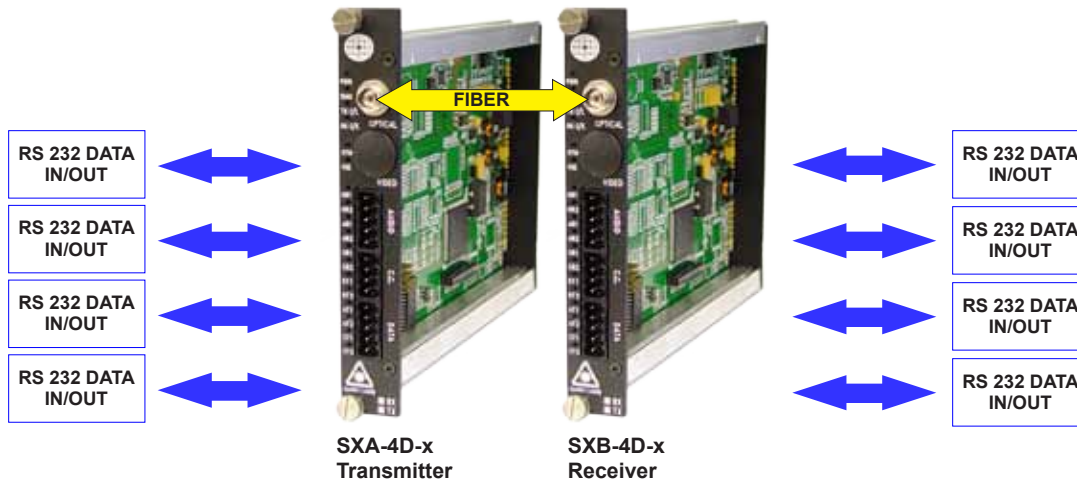
MTBF >170,000 hours @ Ground Fix
 35°C per MIL217F

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