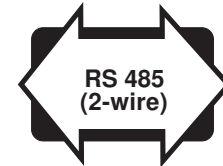


**1 Channel of RS-485 (2-wire) Data****FEATURES:**

- One slot digital module design
- Data Transmission
- 1 full-duplex, RS-485 (2-wire) data channel
- 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*<sup>™</sup> Network Management Compatible
- 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.
- 3-pin Screw Terminal Connectors for Data

**DESCRIPTION:**

This module in the DigiSlim product family incorporates an all-digital encoding technology that transmits one, full duplex, full-speed RS-485 (2 wire) data channel. These single fiber, laser based systems are available in both, Multimode and Singlemode modules. The DigiSlim series is also compatible with Meridian's optional *SpectraSmart* Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

**CONFIGURATIONS:**

The DigiSlim product family is available as rack mount cards and modules that can be installed in either Meridian's desk chassis or 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be made a standalone system by using the SR-500/S, SR-1000/s, 1 or 2 slot desk / wall mount chassis (87 VAC- 264VAC)

**MARKETS:**

- ✓ Intelligent transportation systems (ITS)
- ✓ Security and surveillance
- ✓ Access Control

# SPECIFICATIONS:

## Data

Formats ..... RS-485 (2-wire)  
 Data Rate ..... DC to 125 Kb/s  
 Bit Error Rate .....  $10^{-9}$

## 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

## Optical

Fiber Data Rate ..... 250 Mb/s

## Connectors

Optical ..... ST, FC  
 Power (module) ..... See SR-500 Brochure for details  
 Data/Audio/Contact closure ... DB25 Female

## 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

## Power \*\*

Card ..... 6 Watts

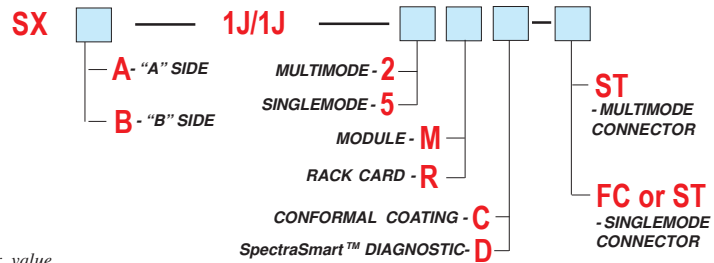
## Environmental

Operating Temperature ... -40°C to +74°C  
 Storage Temperature ..... -55°C to +85°C  
 Relative Humidity ..... 0 to 95% Non-condensing

## Quality

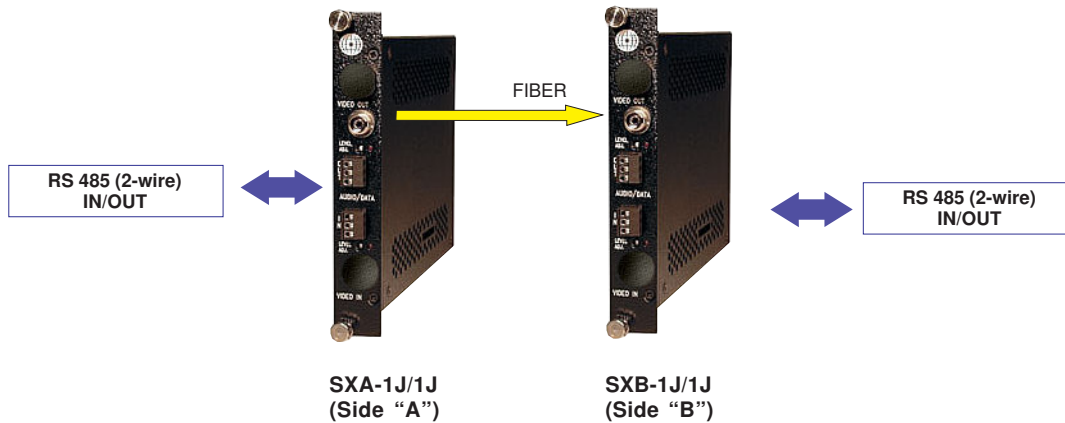
MTBF ..... >250,000 hours @ Ground Fix  
 35°C per MIL217F

### 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	-5	-26	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-5	-26	21	1310 / 1550	ST, FC	24