







FEATURES:

- One slot digital module design
- · Real Time Data Transmission
- Full Duplex RS-232 Data Channel
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- · Laser Based Systems for Singlemode Fiber
- 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
- ST 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
- DB25-pin Connector or Screw Terminal Connector for Data

DESCRIPTION:

The **SX-1D-x** product incorporates an all-digital encoding technology that transmits one full duplex RS-232 data channel over two singlemode fibers. These two fiber, laser based systems are available in both, Multimode and Singlemode modules. The **SX-1D-x** product is also compatible with Meridian's *SpectraSmart*™ Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

CONFIGURATIONS:

The SX-1D-x product is available as rack mount cards and modules that can be installed in either 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 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-232
Data Rate	DC to 125 Kb/s
Bit Error Rate	10-9*

Optical

Connectors

Power **

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
2 - Green	Tx Data Present
2 - Green	Rx Data Present

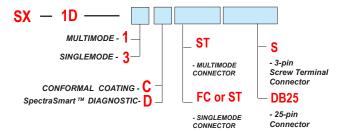
Physical

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

Enviromental

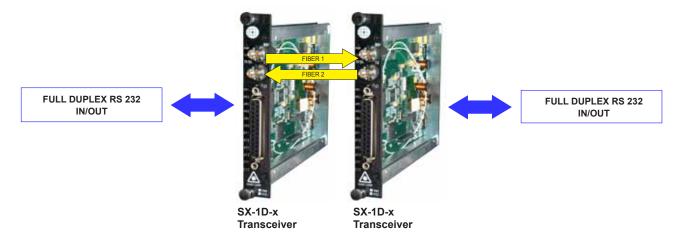
Quality

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