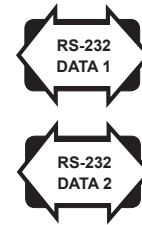


**Digitally Encoded Full Duplex of
Two RS-232 Data Channels****FEATURES:**

- Real Time Data Transmission
- Full Duplex Two Channels RS-232 Data
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for both Multimode and Singlemode modules
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Local LED Status Indicators to Monitor Critical System Parameters
- ST, FC Optical Connector
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range.
- Meets EIA RS-170, RS-343A Formats
- Screw Terminal Connector for Data

DESCRIPTION:

This MXA/MXB-2D-x module incorporates an all-digital encoding technology that transmits Two full duplex of RS-232 data channels. Standard 5-pin terminal blocks are used for easy connection of the data channel interface. These single fiber, laser based systems are available in both, Multimode and Singlemode modules.

Note: See the SXA/SXB-2D-x data sheet for the complementary rack mount card version of this module.

CONFIGURATIONS:

The MXA/MXB-2D-x products are available in small stand-alone modules for easy mounting on walls, shelves and other convenient flat surfaces.

MARKETS:

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

SPECIFICATIONS:

Data

Formats	RS-232 (2-channels)
Data Rate	DC to 125 Kb/s
Bit Error Rate	10 ^{-9*}

Optical

Fiber Data Rate	125 Mb/s
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Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST, FC
Power (module)	2-pin Screw Terminal
Data	5-pin Screw Terminal

Power **

Module.....	12-24VAC or 12VDC
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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 (Module)	86 mm (3.35") L, 46 mm (1.8") W 19mm (0.735") D
Weight (Module)	100 gms (3.52 Oz)

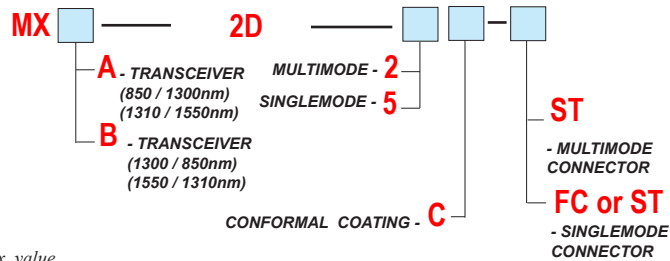
Enviromental

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

Quality

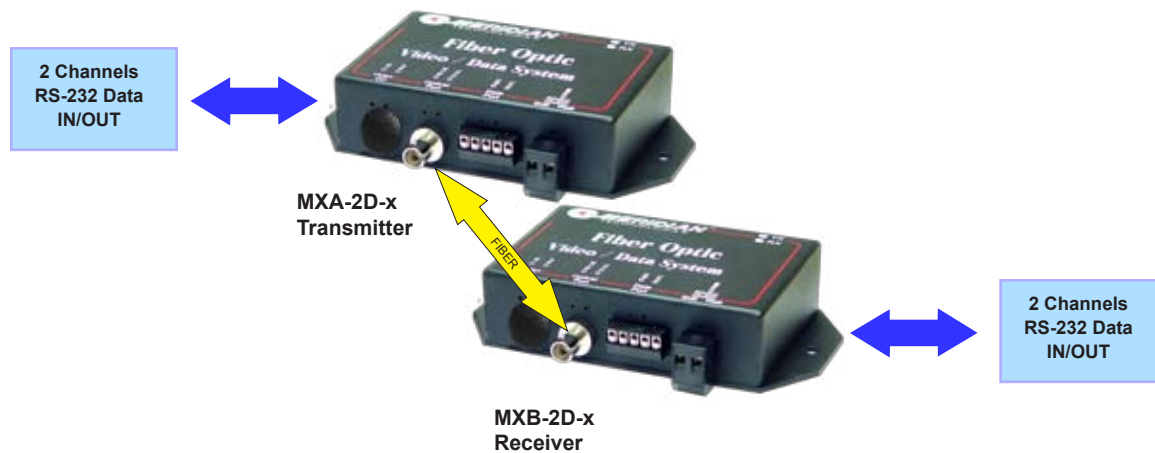
MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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Part Numbers:



* 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	-28	23	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-5	-28	23	1310 / 1550	ST, FC	24