

One Full Duplex Multiprotocol Data using the Industry Standard Small Form Pluggable (SFP) Optical Device**FEATURES**

- One Slot Digital Module Design
- Real Time Data Transmission
- Two Full Duplex Contact Closure and RS-485 (2-wire) Data Channels
- Multimode, Singlemode and CWDM, over one or two fibers via SFP modules
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- 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
- LC, SC Optical Connector (SFP dependent)
- Hot Swappable Cards
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range
- Screw Terminals connector for Data interfaces

DESCRIPTION

This module in the DigiCool™ product family incorporates an all-digital encoding technology.

It's transmits One user selectable, full duplex, RS-232, RS-422, Manchester, Bi-Phase Data channel.

System is employing the industry standard Small Form Pluggable (SFP) optical device. This SFP gives you the option for either singlemode, multimode or CWDM wavelength selections by simply plugging in the appropriate SFP module.

The versatility of the FXA/FXB-1G/1G-SFP system is enhanced by its compatibility with Meridian's PC based SpectraSmart™ Network Management and Remote Diagnostic Software System.

SpectraSmart supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, data present etc. See the SpectraSmart brochure for more details.

CONFIGURATIONS

The DigiCool™ product family 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

MARKETS

- ✓ Security and surveillance
- ✓ Access Control

SPECIFICATIONS

Data

Formats	RS-232, RS-485, RS-422, Manchester or Bi-Phase
Data Rate (RS-232)	DC to 125 Kb/s
Data Rate (RS-422, RS-485)	DC to 250 Kb/s
Bit Error Rate	10 ⁻⁹ *

Optical

Fiber Data Rate	350 Mb/s
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Connectors

Optical	LC, SC - SFP dependent
Power (module)	See SR-500 Brochure for details
Data	Screw Terminals

Power **

Card	6 Watts
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Indicators (LED)

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

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W
Weight (Card)	20mm (0.80") W
No. of Slots	450 gms (16 Oz)
Module	1
	See SR-500 Brochure

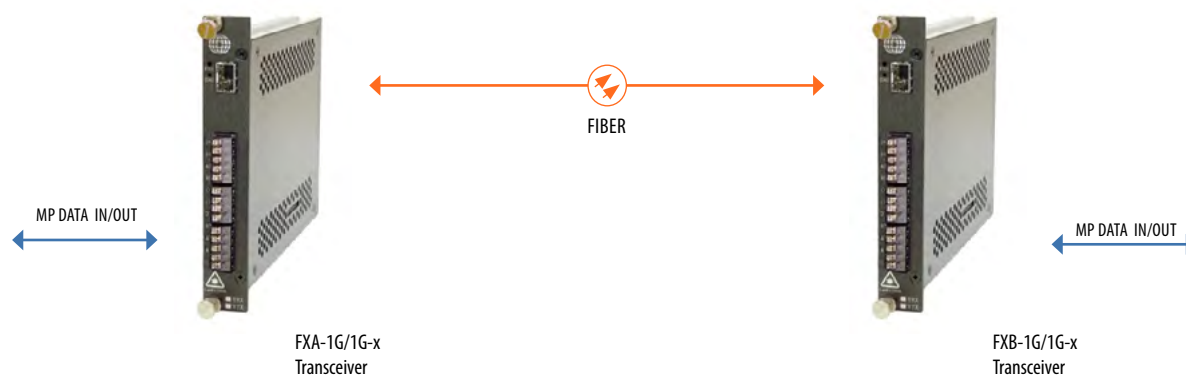
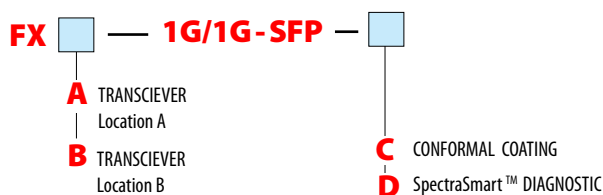
Environmental

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:



SFP OPTIONS

The SFP series products are available for both singlemode and multimode fiber applications and ether one or two fiber versions. Recommended optical speed for this product is 1.25 Gb/s.

For more specifications on a SFP optical devices go to SFP data sheet using link below:

http://www.meridian-tech.com/downloads/datasheets/datasheet_SFP_optical_devices-x.pdf

or go to: WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES