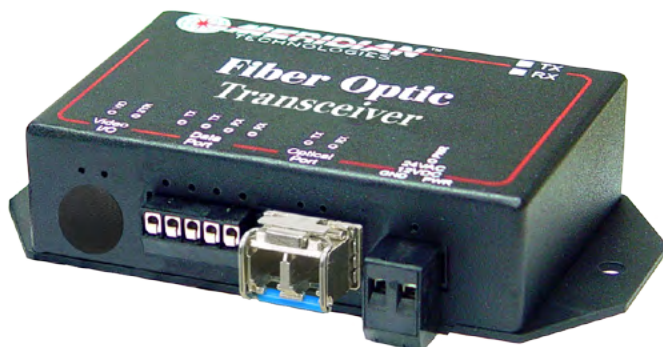


Digitally Encoded Full Duplex Multi-Protocol
Data Channel using the Small Form
Pluggable (SFP) Optical Module

**FEATURES:**

- Real Time Multiprotocol Data Transmission
- Low Power Consumption
- High Efficiency, Isolated Power Supply
- Full Duplex Multiprotocol Data Channel Supports RS-232, RS-422 & RS-485 (2 & 4-wire)
- Wide Optical Dynamic Range
- Multimode, Single-mode and CWDM fiber options via SFP modules
- Local LED Status Indicators to Monitor Critical System Parameters
- LC, SC Optical Connector (SFP dependent)
- Screw Terminal Connector for Data

DESCRIPTION:

This NXANXB-1G/1G-SFP module incorporates an all-digital encoding technology that transmits one user selectable, full duplex, RS-232, RS-422, RS-485 (2 & 4-wire), Manchester, Bi-Phase data channel.

This module belongs to new **DigiCool™** series which features very Low Power Consumption and Isolated High Efficiency Power Supply.

This product incorporates the industry standard Small Form Pluggable (SFP) optical modules. This SFP gives you the option for either single-mode, multimode or CWDM wavelength selections by simply plugging in the appropriate SFP module. Standard 5-pin terminal block is used for easy connection of the data channel interface.

Note: See the FT/FR-1G/1G-SFP data sheet for the rack mount card version of this module.

CONFIGURATIONS:

The NXANXB-1G/1G-SFP products are available in small stand-alone modules for easy mounting on walls, shelves and other flat surfaces.

MARKETS:

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

SPECIFICATIONS:

Data

Formats	RS-232, RS-422, RS-485 (2 & 4-wire) 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)	2-pin Screw Terminal
Data	5-pin Screw Terminal

Quality

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

Module.....	12-24VAC/VDC - 2.8 W
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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
1 - Green	Tx Data Present
1 - Green	Rx Data Present

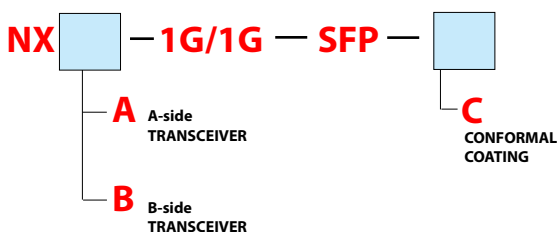
Physical

Dimensions	117 mm (4.60") L, 81 mm (3.18") W 26 mm (1.012") D
Weight	100 gms (3.52 Oz)

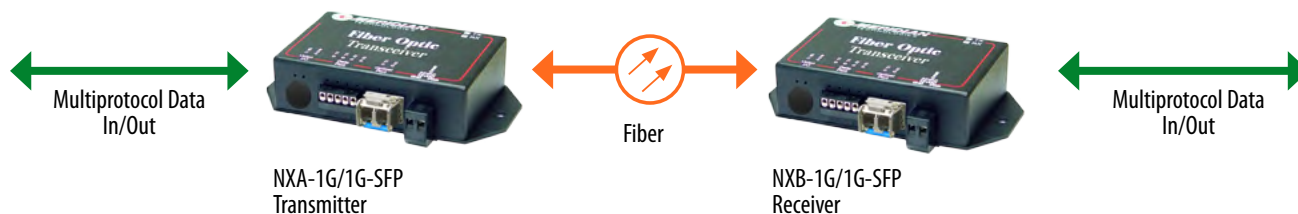
Environmental

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

Part Numbers:



* measured @ max. optical budget ** Due to variations of drivers and diagnostic options, power shown @ max value



SFP OPTIONS:

The SFP series products are available for both single-mode and multimode fiber applications and ether one or two fiber versions. Recommended optical speed for this product is 155 Mb/s.

For more specifications on a SFP optical devices go to **SFP data sheet** or go to:

WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES

Common SFP modules		
Part Number	Fiber Type	Fibers
MM1313F2	Multimode	2
MM1315F2 & MM1513F2	Multimode	1
SM1313F20	Single-mode	2
SM1315F20 & SM1513F20	Single-mode	1