



MERIDIAN
TECHNOLOGIES

FXA/FXB-2C2J-SFP

DigiCool™



Card with
Screw Terminals
Connector

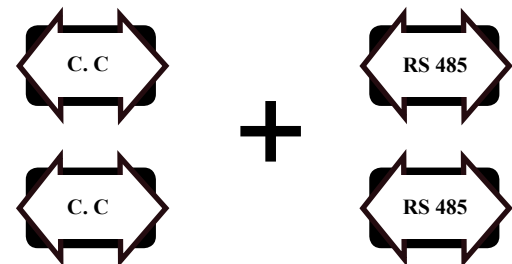


Card with
DB25-F
Connector

FEATURES:

- One Slot Digital Module Design
- Real Time Contact Closure and Data Transmission
- Meets RS-250C Short Haul Transmission Specifications
- Two Full Duplex Contact Closure and RS-485 (2-wire) Data Channels
- Multimode, Singlemode and CWDM fiber options via SFP modules
- 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™ 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
- Meets EIA RS-170, RS-343A Formats
- Screw Terminals or DB25-F connector for Contact/Data interfaces

Digitally Encoded Two Bi-directional Contact Closure and Two Full Duplex RS-485 Data (2-wire) using the Industry Standard Small Form Pluggable (SFP) Optical Device



DESCRIPTION:

The FXA/FXB-2C2J-SFP series is fiber optic transmission system that takes advantage of Meridian's new digital encoding technology and transmits following signals:

1. Two Bi-directional Contact Closure channels
2. Two full-duplex RS-485 Data (2-wire)

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-2C2J-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 products is available as rack mount cards that can be installed in either Meridian's desk chassis or in 19" rack-mounting frames. Shelf/surface mount modules are also available. 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 250 Kb/s
Bit Error Rate	10 ^{-9*}

Contact Closure

Formats	Contact Closure
Rate	10 Hz.(Per Channel)
Bit Error Rate	10 ^{-9*}

Connectors

Optical	LC, SC - SFP dependent
Power (module)	See SR-500 Brochure for details
Data	Screw Terminals (default) or DB25-F

Optical

Fiber Data Rate	350 Mb/s
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Power **

Card	6 Watts
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Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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* measured @ max. optical budget

** Due to variations of drivers and diagnostic options,
power shown @ max value

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
2 - Green	Contact Closure Present
2 - Green	Contact Closure Present

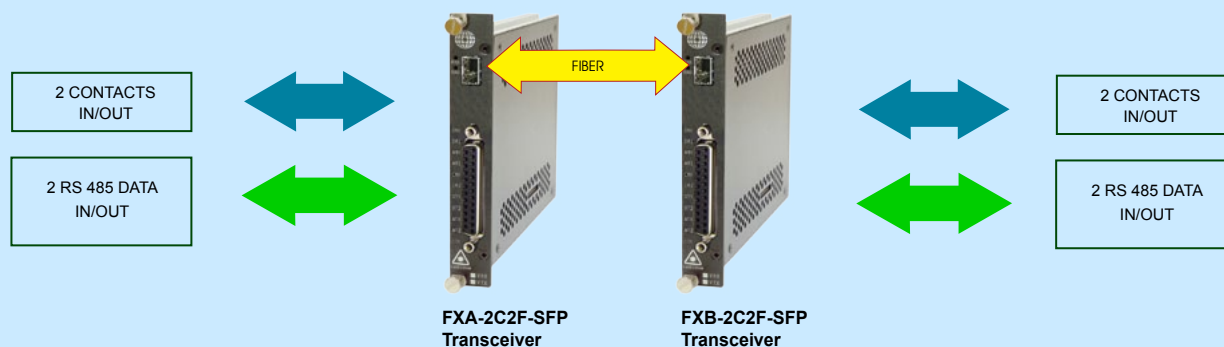
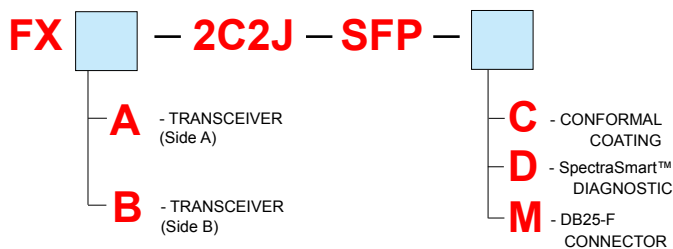
Physical

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

Environmental

Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Part Numbers:



SFP OPTIONS:

The SFP series products are available for both singlemode and multimode fiber applications and either 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 clicking

or

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