



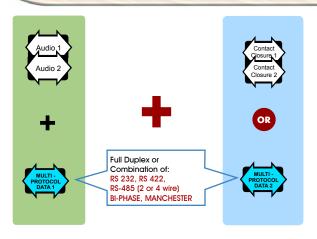
FEATURES

- Two Channels of Bi-Directional Audio, Multi-protocol Data and Contact Closure
- Multimode, Singlemode and CWDM fiber options via SFP modules
- Meets RS-250C Short Haul Transmission Specifications
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart™ PC Based Network Management
- 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
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats
- DB 25 Type Connectors for Audio, Data and Contact Closure

MARKETS

- √ Security and Surveillance
- √ Intelligent Transportation System (ITS)
- √ Access Control Systems
- √ Campus Lecture Networks

Digitaly Encoded Two Full Duplex 24-Bit Audio, Two Bi-directional Contact Closure, Two Full Duplex Multiprotocol Data using the Industry Standard Small Form Pluggable (SFP) Optical Device



DESCRIPTION

The FXA/FXB-2A2C2G/2A2C2G-SFP fiber optic transmission system takes advantage of Meridian's new digital encoding technology and transmits following signals on permanent bases:

- 1. Two full duplex 24 bit audio
- One user selectable, full duplex RS-232, RS-485 (2 or 4 wire), RS-422, Manchester, Bi-Phase or in combination

In addition, following signals are optionable and interchangable:

- 3. One user selectable, full duplex RS-232, RS-485 (2 or 4 wire), RS-422, Manchester, Bi-Phase or in combination
- 4. Two full duplex contact closure channels

These systems can achieve distances:

- up to 2Km for multimode
- up to 50Km for singlemode

Product 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 functionality of this system is further 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™ family products are available as rack mount cards that can be installed in Meridian's card chassis, desk chassis and 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, 1 slot desk / wall mount chassis (87VAC-264VAC).

SPECIFICATIONS:

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Formats RS-232 w/ full speed handshake, 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

Contact Closure

10 Hz.(Per Channel) Rate Contact Rating 0.3A, 30V AC / DC

Contact Bounce Time 5 ms

Audio

I/O Impedance 600 Ohm (Bal.), 47 KOhm (Un Bal.) 10 Hz to 20 KHz Frequency Response >90dB (Weighted)@ 1 KHz SNR -8 to +8 dBm $(4V_{p-p} \text{ max.})$ In/Out Level (+18 dBm available on request) Total Harmonic Distortion <0.01% @ 1KHz

Resolution 24 Bit

Optical

350 Mb/s Fiber Data Rate

Connectors

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

Data/Audio/Contact closure ... DB-25 Female Power **

Card 5 Watts

Indicators (LEDs)

1 - Green Power On 1 - Bi-color TX Carrier/ Laser Over Current 1 - Bi-color RX Carrier - Present / Error 4 - Green Data Present

Audio Present / Overload 4 - Bi-Color 4 - Green Contact Closure Present

Physical

160 mm (6.3") L, 127 mm (5") W Dimensions (Card)

20mm (0.80") W

Weight (Card) 450 gms (16 Oz)

No. of Slots

Module See SR-500 Brochure

Enviromental

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 clicking

or

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