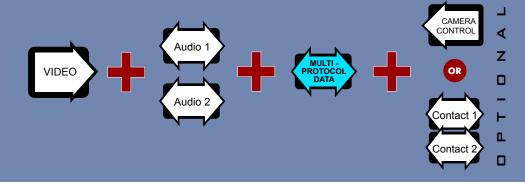


FT/FR-1U2A2C1G/1M2A2C1G-SFP DigiCool™

Digitaly Encoded One 10-Bit 10MHz Video Mux with Two Full Duplex 24-Bit Audio, Two Bi-directional Contact Closure, One Full Duplex Multiprotocol Data and One Return Channel of Pelco® Coaxitron or Panasonic® Up-the-coax Control Data

EXTENDED RANGE CAMERA CONTROL



FEATURES

- One Digitally Encoded 10-bit Video Signal with One Integrated Pelco® Coaxitron or Panasonic® Up-the-coax PTZ Camera Control
- 10 MHz Video Bandwidth
- Model supports both Pelco® Coaxitron and Panasonic® "up-the-coax" PTZ Camera Control
- Integrated Pelco® Coaxitron or Panasonic® Up-the-coax PTZ Camera Control is Time Base Corrected
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- One Channel of Bi-Directional Multi-protocol Data
- Two Channels of Bi-Directional Audio and Contact Closure
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Multimode, Singlemode and CWDM fiber options via SFP modules
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart[™] PC Based Network Management
- SpectraView[™] Fault / Setup Firmware
- 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

DESCRIPTION

The FT/FR-1U2A2C1G/1M2A2C1G-SFP series fiber optic transmission system that takes advantage of Meridian's new digital encoding technology transmits following signals on permanent bases:

- 1. One real-time, high quality, 10-bit 10 MHz video
- 2. Two full duplex 24 bit audio
- 3. 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:

- 4. One integrated Pelco® Coaxitron or Panasonic® Up-the-coax PTZ camera control data
- 5. Two full duplex contact closure channels

Each camera's PTZ can be individually controlled. Time Base Correction feature aloud achive distances:

- up to 3Km 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).

MARKETS

- $\sqrt{}$ Security and Surveillance
- $\sqrt{}$ Intelligent Transportation System (ITS)
- $\sqrt{}$ Access Control Systems
- √ Campus Lecture Networks

SPECIFICATIONS:

NTSC, PAL, SECAM 1 Vp-p, 75 Ohm, 1.5 Vp-p max.

>67 dB (weighted)*

<0.6%

>30 dB

< 0.5%

Bi-Phase

10-9*

5 ms

DC to 125 Kb/s

DC to 250 Kb/s

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

10 Hz to 20 KHz

<0.01% @ 1KHz

24 Bit

350 Mb/s

< 0.3°

5 Hz to 10 MHz @ -3 dB

RS-232 w/ full speed handshake,

RS-485, RS-422, Manchester or

600 Ohm (Bal.), 47 KOhm (Un Bal.)

>90dB (Weighted)@ 1 KHz

(+18 dBm available on request)

-8 to +8 dBm $(4V_{p-p} max.)$

Video

Format
Voltage/Impedance
Bandwidth
Differential Gain
Differential Phase
SNR
Return Loss
Field Tilt

Data

Formats

Data Rate (RS-232)
Data Rate (RS-422, RS-485)
Bit Error Rate

Contact Closure

Rate
Contact Rating
Contact Bounce Time

Audio

I/O Impedance
Frequency Response
SNR
In/Out Level
Total Harmonic Distortion

Total Harmonic Distortion Resolution

Optical

Fiber Data Rate

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	LC, SC - SFP dependent
Power (module)	See SR-500 Brochure for details
Data/Audio/Contact closure	DB25 Female

* measured @ max. optical budget

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

Power **

Card

Indicators (LEDs)

1 - Green
1 - Bi-color
2 - Green
4 - Bi-Color
4 - Green

Dimensions (Card)

Weight (Card) No. of Slots

Module

Power On TX Carrier/ Laser Over Current RX Carrier - Present / Error Video Present / Overload Sync. Present / Load Absent Data Present Audio Present / Overload Contact Closure Present

5 Watts

160 mm (6.3") L, 127 mm (5") W 20mm (0.80") W 450 gms (16 Oz)

1 See SR-500 Brochure

0 to 95% Non-condensing

-34°C to +74°C

-55°C to +85°C

Enviromental

Physical

Operating Temperature Storage Temperature Relative Humidity

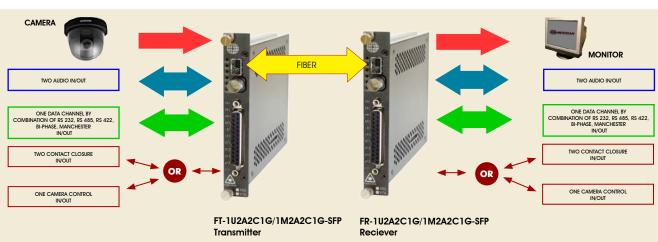
Quality

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 155 Mb/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