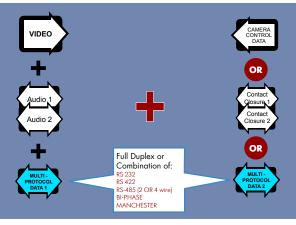


Digitaly Encoded One 10-Bit 10MHz Video Mux with Two Full Duplex 24-Bit Audio, Two Bi-directional Contact Closure, Two Full Duplex Multiprotocol Data and One Return Channel of Pelco® Coaxitron or Panasonic® Up-the-coax Control Data

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
- 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
- Two Channels of Bi-Directional Audio, Multi-protocol Data and Contact Closure
- Multimode, Singlemode and CWDM fiber options via SFP modules
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- 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

MARKETS

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

DESCRIPTION

The FT/FR-1U2A2C2G/1M2A2C2G-SFP fiber optic transmission system takes advantage of Meridian's new digital encoding technology and transmits following signals on permanent bases:

- 1. One real-time, high quality, 10-bit 10 MHz video
- 2. 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:

- 4. One integrated Pelco® Coaxitron or Panasonic® Up-the-coax PTZ camera control data
- One user selectable, full duplex RS-232, RS-485 (2 or 4 wire), RS-422, Manchester, Bi-Phase or in combination
- 6. Two full duplex contact closure channels

Each camera's PTZ can be individually controlled. With Time Base Correction feature, these systems can achieve 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).

SPECIFICATIONS:

SPECIFICATIONS:	
NTSC, PAL, SECAM	
1 Vp-p, 75 Ohm, 1.5 Vp-p max.	
5 Hz to 10 MHz @ -3 dB	
<0.6%	
<0.3°	
>67 dB (weighted)*	
>30 dB	
< 0.5%	
RS-232 w/ full speed handshake,	
RS-485, RS-422, Manchester or Bi-Phase	
DC to 125 Kb/s	
DC to 250 Kb/s	
10-9*	
10 Hz.(Per Channel)	
0.3A, 30V AC / DC	
5 ms	
600 Ohm (Bal.), 47 KOhm (Un Bal.)	
10 Hz to 20 KHz	
>90dB (Weighted)@ 1 KHz	
$-8 \text{ to } +8 \text{ dBm } (4V_{p-p} \text{ max.})$	
(+18 dBm available on request)	
<0.01% @ 1KHz	
24 Bit	
350 Mb/s	
75 Ohm BNC (Gold Center Pin)	

LC, SC - SFP dependent

DB-25 Female

See SR-500 Brochure for details

Power ** Card	5 Watts
Indicators (LEDs)	D O
1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	Video Present / Overload
1 - Bi-color	Sync. Present / Load Absent
4 - Green	Data Present
4 - Bi-Color	Audio Present / Overload
4 - 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
Enviromental	
Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing
	3
Quality	
MTBF	>170,000 hours @ Ground Fix
	35°C per MIL217F
Part Numbers:	

<u>irt Numbers:</u>





SFP OPTIONS:

Optical

Power (module)

Data/Audio/Contact closure ...

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

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

or