



Digitaly Encoded One 10-Bit 10MHz Video Mux with Two Bi-directional Contact Closure, One Full Duplex Multiprotocol Data and One Return Channel of Extended Range Pelco or Panasonic "up-the-coax" Control Data

EXTENDED RANGE CAMERA CONTROL



Full Duplex or Combination of: RS 232 RS 422 RS-485 (2 OR 4 wire) BI-PHASE MANCHESTER

FEATURES

- One Digitally Encoded 10-bit 10 MHz Video Signal with Integrated Pelco® / 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® / Panasonic® "up-the-coax" PTZ Camera Control is Time Base Corrected for long-distance operation
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Two Channels of Bi-Directional Contact Closure and One Channel of Bi-Directional Multi-protocol Data
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- SpectraSmart[™] PC Based Network Management
- SpectraView[™] Fault / Setup Firmware
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Cards
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats
- Screw terminal connectors for Data and Contact closures

DESCRIPTION

The FT/FR-1U2C1G/1M2C1G-x series fiber optic transmission system that takes advantage of Meridian's new digital encoding technology to transport the following signals:

- One real-time, high quality, 10-bit 10 MHz video with Pelco or Panasonic up-the-coax PTZ control data.
- 2. Two full duplex contact closure channels
- 3. One user selectable, full duplex RS-232, RS-485 (2 or 4 wire), RS-422, Manchester, Bi-Phase or in combination

Time Base Correction feature provides transmission distances of:

- up to 3Km for multimode
- up to 50Km for singlemode

Both, multimode and singlemode, one fiber versions are available. The functionality of FT/FR-1U2C1G/1M2C1G-x series 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 FT/FR-1U2C1G/1M2C1G-x products are available as rack mount cards that can be installed in Meridian's card chassis, desk chassis and 19" racking frames. These systems can be made a standalone system by using the SR-500/s, 1 slot desk / wall mount chassis (87VAC-264VAC).

MARKETS

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

SPECIFICATIONS:

Video

TIGOO	
Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max
Bandwidth	5 Hz to 10 MHz @ -3 dB
Differential Gain	<0.6%
Differential Phase	<0.3°
SNR	>67 dB (weighted)*
Return Loss	>30 dB

< 0.5%

Data

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	10-9*			

Contact Closure

Field Tilt

Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

Optical

Connectors

Video	75 Ohm BNC (Gold Center Pin)			
Optical	ST - MM(default), FC - SM(default)			
Power (module)	See SR-500 Brochure for details			
Data/Audio/Contact closure	14-pin Screw terminals			

Power **

Card	5 Watts
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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 - Bi-color	Video Present / Overload
1 - Bi-color	Sync. Present / Load Absent
2 - Green	Data Present
4 - Green	Contact Closure Present

Physical

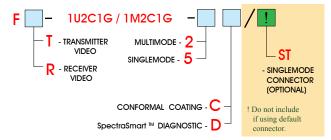
Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W
	20mm (0.80") W
Weight (Card)	450 gms (16 Oz)
No. of Slots	1
Module	See SR-500 Brochure

Enviromental

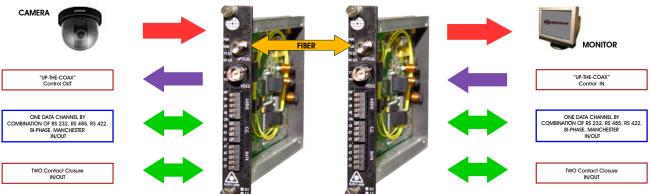
Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

Part Numbers:







FT-1U2C1G/1M2C1G-x Transmitter

FR-1U2C1G/1M2C1G-x Reciever

OPTICAL:

Meridian optic code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
2	Multimode (FP Laser) 62.5 / 125	-5	-25	20	1300 / 850	ST	25	3
5	Singlemode (FP Laser) 9 / 125	-5	-25	20	1310 / 1550	ST, FC	25	55

Singlemode DFB lasers available on request.