





FEATURES

- 10 Bit 10MHz Video Digital Encoding
- Real Time Video and Data Transmission
- Low Power Consumption
- · High Efficiency, Isolated Power Supply
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Full Duplex Multiprotocol Data Channel Supports RS-232, RS-422 & RS-485 (2 & 4-wire)
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for both Multimode and Singlemode 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 Parameters
- ST, FC Optical Connector
- 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
- Screw Terminal Connector for Data

DESCRIPTION

The FT/FR-1U2G/2G-x series fiber optic transmission system that takes advantage of Meridian's new digital encoding technology transmits following signals:

- 1. One real-time, high quality, 10-bit 10 MHz video
- 2. Two channels of user selectable, full duplex RS-232, RS-485 (2 or 4 wire), RS-422, Manchester, Bi-Phase or in combination

Both, multimode and singlemode, one fiber versions are available. The versatility of the FT/FR-1U2G/2G-x system is enhanced by *SpectraView*, an On-Screen Video Diagnostic / Setup firmware system and *SpectraSmart*, an optional PC Based Network Diagnostic System. *SpectraView* monitors the integrity of the video signal and the fiber link. A break in the fiber path will cause a loss of fiber alarm to be displayed on an associated monitor. *SpectraView* is easy to use, always active and eliminates the need for additional test equipment. *SpectraView* also includes a selectable on-board audio & data test signal generator with built-in local and remote loop-back functions.

If greater diagnostic capability is required, he functionality of FT/FR-1U2G/2G-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-1U2G/2G-x 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

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

SPECIFICATIONS:

 Return Loss
 >30 dB

 Field Tilt
 < 0.5%</td>

Data

Data Rate (RS-232)....... Bi-Phase DC to 125 Kb/s
Data Rate (RS-422, RS-485).. DC to 250 Kb/s

Bit Error Rate 10-9*

Optical

Connectors

Power **

Card 4 Watts

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

 4 - Green
 Data Present

Physical

No. of Slots

Module See SR-500 Brochure

Enviromental

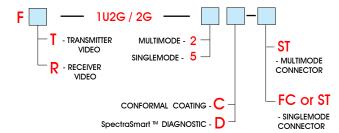
Operating Temperature -34°C to +74°C
Storage Temperature -55°C to +85°C

Relative Humidity 0 to 95% Non-condensing

Quality

33 e per mile.

Part Numbers:





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



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-5	-25	20	1300 / 850	ST	23
Singlemode (FP Laser) 9 / 125	-5	-25	20	1310 / 1550	ST, FC	23