

FM Video with "Up-The-Coax" Data



FEATURES:

- Compatible with most "Up-The-Coax" systems
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Hot Swappable Cards
- Laser Based Back-Biased Photo Detection Circuitry for Stable Optical Output Over Full Temperature Range (Singlemode)
- ST[™], FC Optical Connector
- 7 MHz Video Bandwidth
- Meets EIA RS-170, RS-343A
- Frequency Modulated (FM) Transmission
- SpectraSmart™ Compatible
- Meets NEMA TS1/TS2 and Caltrans Specifications
- Utilizes Internal Switching Power Supplies
- Meets RS-250C Transmission Requirements
- Compatible with All NTSC, PAL, or SECAM Systems
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- Wide Optical Dynamic Range: Optical Attenuators are Never Required
- BNC Video Connector

DESCRIPTION:

The Series 600iR - V / 2 A,C,D Frequency Modulated (FM) fiber optic video systems that transmit video and "up the coax" data control signals on 1 fiber. The series is available in multimode and singlemode versions and supports NTSC, PAL or SECAM formats, color or B&W. The maximum distances are determined by the control equipment manufacturer's "up the coax" specifications on coaxial cable. The Series 600i capabilities are enhanced by it's compatibility with Meridian's PC based SpectraSmart™ Network Management and Diagnostic software system. SpectraSmart™ supervises and monitors the operating parameters of the transmission system such as status on video levels, sync, FM carrier detect, power supply voltages, temperature,optical levels and more.See the SpectraSmart™ brochure for more details.

CONFIGURATIONS:

The 600iR - V / 2 A,C,D product family is available as rack mount cards that can be installed in all of 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. This product requires no user adjustments & features superior quality and performance.

APPLICATIONS:

Security and Surveillance Intelligent Transportation System (ITS) Video Teleconferencing Distance Learning

SPECIFICATIONS: ———

Video

Format ... NTSC, PAL, SECAM

Voltage/Impedance ... 1 Vp-p, 75 Ohm, 1.5 Vp-p max.

Bandwidth ... 5 Hz to 7 MHz @ -3 dB

Differential Gain ... <2% typical

Differential Phase ... <1.5° typical

Differential Phase <1.5° typical
SNR ... 64 dB weighted*
Return Loss ... >30 dB
Field Tilt ... <0.5% max.
Carrier Frequency ... 70 MHz

Data

Formats. Up-the-Coax Option A,C,D: 2A - Pelco and Video Alarm 2C - Proteus w/o VD2 2D - Proteus with VD2

Connectors

Power **

Card 4.0 W

Module 175 mA @ 24VAC Adapter for SR-500/S. Model WP-24

Indicators (LEDs)

Red Power On

Physical

Dimensions:

Weight:

Module (w/SR-500) 900 g (32 oz.) Card 450 g (16 oz.)

Number of Rack Slots One

Enviromental

Operating Temperature. . . . -40°C to +74°C Storage Temperature. . . . -55°C to +85°C

Relative Humidity. 0 to 95% Non-condensing

Quality

^{*} As per RS-250C, measured @ 1Km (multimode), @ 2Km (singlemode)
** Due to variations of drivers and diagnostic options, power shown at
maximum measurements



OPTICAL: -

Fiber Type/Size (um)	Optical Output (dBm)	Reciever Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode* (SLED) 62.5/125 62.5/125 62.5/125	-13 -16 -15/-18	-34 -34 -33/-33	21** 18** 15**	850 1300 850/1300	ST ST ST	39 39 39
Singlemode (Laser) 9/125 9/125 9/125	-7*** -10*** -10/-10	-36 -36 -34	29 26 24	1310 1550 1310/1550	ST, FC ST, FC ST, FC	41 41 41

^{*} Distance is limited to fiber loss, splices, fiber bandwidth and characteristics of the control equipment

^{**} For 50/125µm fiber, subtract 3dB

^{***} Higher output lasers available