

Digitally Encoded 1 Channel Video with 2 Channels of Audio



FEATURES:

- One slot digital module design
- 10 Bit Video Digital Encoding
- Real Time Video and Audio Transmission
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- 2 channels of one-way Audio (Balanced or Un-balanced)
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart[™] Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance 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 Connectors for Audio

DESCRIPTION:

This module in the <code>DigiSlim™</code> product family incorporates an all-digital encoding technology that transmits one real-time, simplex 10-bit video channel and two, 24-bit audio channels in one direction over one optical fiber. NTSC, PAL and SECAM video formats are all seamlessly supported. Convenient 3-pin terminal blocks are used for easy connection of the audio channel interfaces. These single fiber, laser based systems are available in both, Multimode and Singlemode modules. The <code>SC</code> series is also compatible with Meridian's <code>SpectraSmart</code> Network management and diagnostic PC based system. See the <code>SpectraSmart</code> brochure for additional details

CONFIGURATIONS:

The products from **DigiSlim™** family is available as rack mount cards and modules that can be installed in any of Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be transformed in to a standalone module by utilizing an SR-500/S (standard configuration) or an SR-1000/S.

MARKETS:

- ✓ Intelligent transportation systems (ITS)
- ✓ Security and surveillance
- Access Control

SPECIFICATIONS:

Video

Format NTSC, PAL, SECAM 1 Vp-p, 75 Ohm, 1.5 Vp-p max. Voltage/Impedance 5 Hz to 6.8 MHz @ -3 dB Bandwidth Differential Gain < 0.6% Differential Phase < 0.3° SNR >67 dB (weighted)* >30 dB Return Loss < 0.5% Field Tilt

Audio

 I/O Impedance
 600 Ohm (Bal.), 47 KOhm (Un Bal.)

 Frequency Response
 10 Hz to 20 KHz

 SNR
 >90dB (Weighted)@ 1 KHz

 In/Out Level
 -8 to +8 dBm (4V_{p-p} max.)

 (+18 dBm available on request)

 Total Harmonic Distortion
 <0.01% @ 1KHz</td>

 Resolution
 24 Bit

Optical

Connectors

 Video
 75 Ohm BNC (Gold Center Pin)

 Optical
 ST - MM(default), FC- SM(default)

 Power (module)
 See SR-500 Brochure for details

 Audio
 Screw Terminals

Power **

Card 6 Watts

Indicators (LEDs)

 1 - Green
 Power On

 1 - Bi-color
 TX Carrier/ Laser Over Current

 1 - Bi-color
 RX Carrier - Present / Error

 1 - Green
 Video Sync. Present

 1 - Bi-color
 Video Present / Overload

 2 - Bi-Color
 Audio Present / Overmodulation

Physical

 Dimensions (Card)
 20 (W) x 127 (H) x 160 (D) mm (0.8 x 5.0 x 6.3 inch)

 Weight (Card)
 450 gms (16 Oz)

 No. of Slots
 1

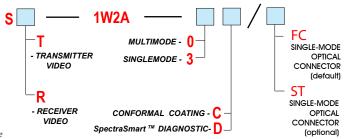
 Module
 See SR-500 Brochure

Enviromental

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

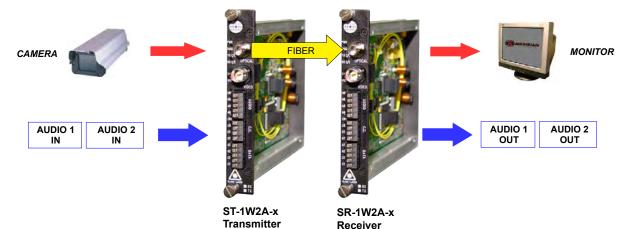
Quality

Part Numbers:



measured @ max. optical budget

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



OPTICAL:

* Meridian Optical 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)
0	Multimode (FP Laser) 62.5 / 125	-5	-26	21	850	ST	24	4
3	Singlemode (FP Laser) 9 / 125	-5	-26	21	1310	ST, FC	24	60