

Digitally Encoded One Channel Video with Full Duplex Multi-Protocol Data and Two Bi-directional 24-bit Audio

VIDEO WULTIPROTOCOL DATA OR AUDIO 1 RS 485 AUDIO 2

FEATURES:

- One Slot Digital Module Design
- 10 Bit Video Digital Encoding
- Real Time Video and DataTransmission
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Two 24-bit bi-directional Audio Channels
- Full Duplex Multiprotocol Data Channel
- 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
- DB25F connector for Audio/Data interfaces

DESCRIPTION:

This module in the ST/SR-1W2A1G/2A1G product incorporates an all-digital encoding technology that transmits one real-time, simplex 10-bit video channel, two full-duplex 24-bit audio channels and one user selectable, full duplex, multi-protocol data channel. RS-232, RS-422, RS-485 (2 or 4 wire), Manchester and Bi-Phase data protocol/formats are all supported. NTSC, PAL and SECAM video formats are all seamlessly supported. A standard DB25F connector is provided for the audio/data interface. These single fiber, laser based systems are available in both, Multimode and Singlemode modules.

The **ST/SR-1W2A1G/2A1G** system is also compatible with Meridian's *SpectraSmart* Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

CONFIGURATIONS:

The ST/SR-1W2A1G/2A1G product is available as rack mount cards that can be installed in either Meridian's desk chassis or in 19" racking frames. Shelf/surface mount modules are also available. 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, SR-1000/s, 1 or 2 slot desk / wall mount chassis (87 VAC- 264VAC)

MARKETS:

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

SPECIFICATIONS: ———

Video

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

Data

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

Connectors

 Video
 75 Ohm BNC (Gold Center Pin)

 Optical
 ST, FC

 Power (module)
 See SR-500 Brochure for details

 Data
 3-pin Screw Terminal

Optical

Power **

Card 6 Watts

- * measured @ max. optical budget
- ** Due to variations of drivers and diagnostic options, power shown @ max value

Indicators (LEDs)

Power On
TX Carrier/ Laser Over Current
RX Carrier - Present / Error
Video Present / Overload
Video Sync. Present
Tx Data Present
Rx Data Present
Audio Input Present
Audio Output 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

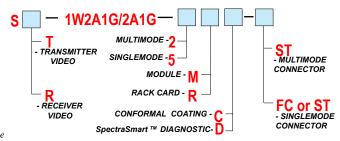
 Module
 See SR-500 Brochure

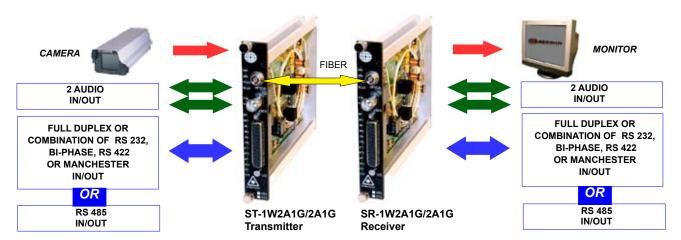
Enviromental

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

Quality

Part Numbers:





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	-26	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-5	-26	21	1310 / 1550	ST, FC	24