

Digitally Encoded 1 Channel Video with Full Duplex RS-422 Data





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
- Full Duplex RS-422 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
- Screw Terminal Connectors for Data

DESCRIPTION:

This module in the **DigiSlim** product family incorporates an all-digital encoding technology that transmits one real-time, simplex 10-bit Video channel and one full duplex, RS-422 Data channel. NTSC, PAL and SECAM video formats are all seamlessly supported.

Standard Terminal blocks are used for easy connection of the data channel interface.

These single fiber, laser based systems are available in both, Multimode and Singlemode modules.

The **DigiSlim** series is also compatible with Meridian's *SpectraSmart* Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

CONFIGURATIONS:

The **DigiSlim** product family is available as rack mount cards and modules that can be installed in either 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 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:

Field Tilt

Video

< 0.5%

Data

Optical

Connectors

 Video
 75 Ohm BNC (Gold Center Pin)

 Optical
 ST, FC

 Power (module)
 See SR-500 Brochure for details

 Data
 Screw Terminals

* measured @ max. optical budget

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 - Bi-color	Video Present / Overload
1 - Green	Video Sync. Present
1 - Green	Tx Data Present
1 - Green	Rx Data Present

Physical

 Dimensions (Card)
 160 mm (6.3") L, 127 mm (5") H

 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

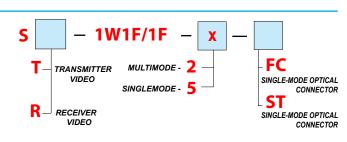
Part Numbers:

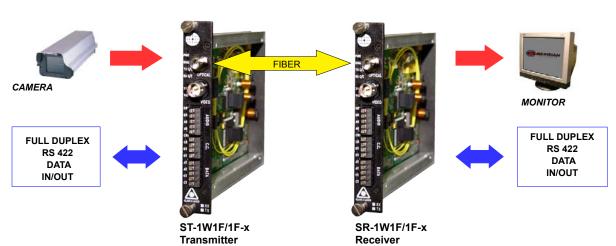
ST-1W1F/1F-2 Transmitter, card, Multimode Tx @ 1300nm, Rx @ 850nm

SR-1W1F/1F-2 Receiver, card, Multimode Rx @ 1300nm, Tx @ 850nm

ST-1W1F/1F-5 Transmitter, card, singlemode Tx @ 1310nm, Rx @ 1550nm

SR-1W1F/1F-5 Receiver, card, singlemode Tx @ 1550nm, Rx @ 1310nm





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)
2	Multimode (Laser) 62.5 / 125	-5	-26	21	1300/850	ST	24	4
5	Singlemode (FP Laser) 9 / 125	-5	-26	21	1310/1550	ST, FC	24	60

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