

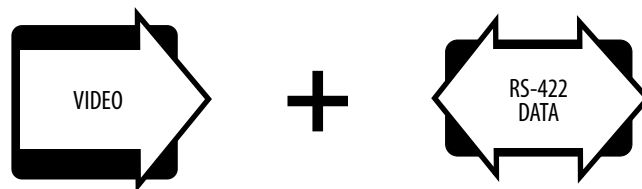
Digitally Encoded One Channel 10-Bit Video with One Full Duplex RS-422 Data



DB-25 Data
Interface

14-PIN Data
Interface

3-PIN Data
Interface



FEATURES:

- One slot digital module design
- 10-Bit Video Digital Encoding
- Real Time Video and Data Transmission
- 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
- SpectraSmart™ Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Card
- 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 or DB-25 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. 3-pin Screw Terminal is a default Data connector for RS-422 Data interface. Standard Terminal blocks are used for easy connection. Also DB-25 connector and 14-pin configuration are available. These single fiber, laser based systems are available in both, Multimode and Singlemode modes. 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,

MARKETS:

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

SPECIFICATIONS:

Video

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

Data

Formats	RS-422
Data Rate	DC to 125 Kb/s
Bit Error Rate	10 ⁻⁹ *

Optical

Fiber Data Rate	250 Mb/s
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Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST, FC
Power (module)	See SR-500 Brochure for details
Data	3-pin Screw Term, 14-pin Screw Term, DB-25 Connector

* measured @ max. optical budget

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

Power **

Card	6 Watts
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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

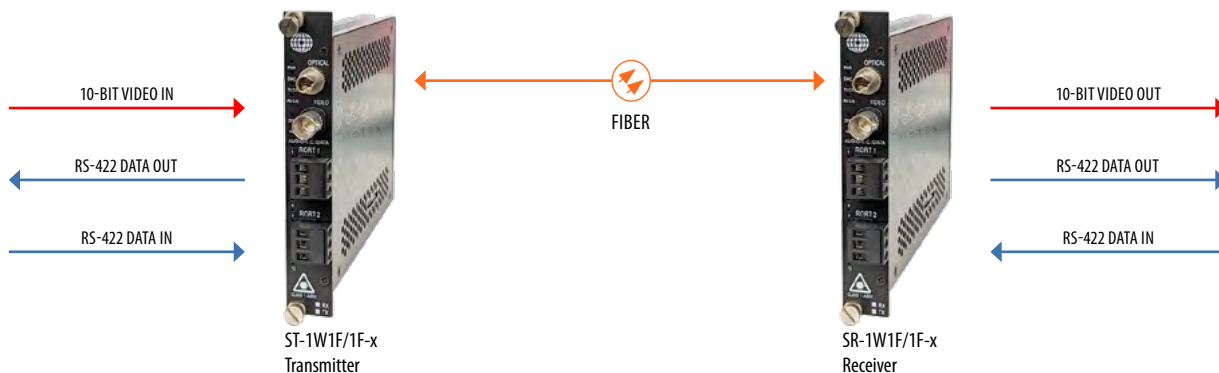
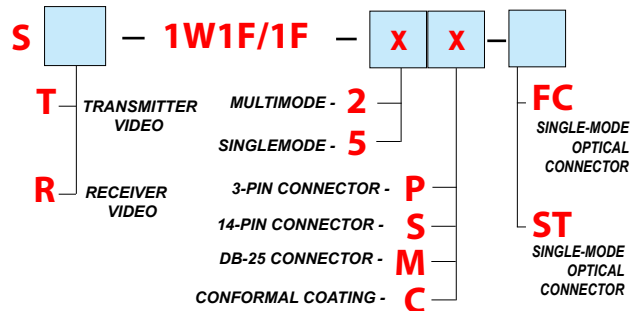
Operating Temperature ...	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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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