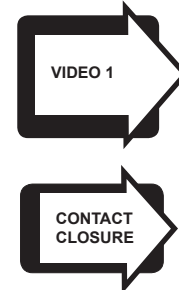


Digitally Encoded 1 Channel Video with 1 Channel of Contact Closure



FEATURES:

- One Slot Digital Module Design
- 10 Bit Composite Video (Digital Encoding)
- Real Time Video and Data Transmission
- 7 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- 1 User-selectible, Contact Mapping (N.O, N.C)
- 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
- *SpectraView*™ Fault / Setup Firmware
- Local LED Status Indicators to Monitor Critical System Diagnostics and 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
- 3-pin Screw Terminal Connector for Contact Closure

DESCRIPTION:

This module in the *DigiSlim*™ product family incorporates an all-digital encoding technology that transmits one real-time, simplex 10-bit composite video channel and one contact closure. Convenient 3-pin terminal block is used for easy connection of the contact interface. Status indicators provide visual indication of the operational status of the contact. NTSC, PAL and SECAM video formats are all seamlessly supported. These single fiber, laser based system is available in both, Multimode and Singlemode modules. The versatility of the *DigiSlim*™ series is enhanced by *SpectraView*, an On-Screen Video Diagnostic / Setup firmware system and *SpectraSmart*, an optional PC Based Network Diagnostic System. *SpectraView* monitors the integrity of the video signal and the fiber link. A break in the fiber path will cause a loss of fiber alarm to be displayed on an associated monitor while loss of video sync will generate a loss of sync alarm on the monitor. *SpectraView* is easy to use, always active and eliminates the need for additional test equipment. *SpectraView* also includes a selectable on-board contact closure test signal generator. In addition a video grey scale function is included to assist in monitor and system setup. If greater diagnostic capability is required, the *DigiSlim*™ series is also available with Meridian's *SpectraSmart* Network management and diagnostic PC based system. See the *SpectraSmart* or *SpectraView* brochures 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 stand-alone system by using the SR-500/S, SR-1000/s, 1 or 2 slot desk / wall mount chassis. See subrack brochure for additional

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%

Power **

Card 4 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	Contact Closure Present

Contact Closure

Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

Physical

Dimensions (Card)	160 mm (6.3") D, 127 mm (5") W 20mm (0.80") W
Weight (Card)	450 gms (16 Oz)
No. of Slots	1
Module	See SR-500 Brochure

Optical

Fiber Data Rate 250 Mb/s

Environmental

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

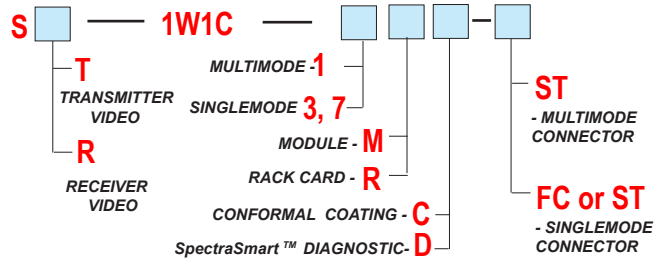
Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST, FC
Power (module)	See SR-500 Brochure for details
Contact Closure	3-pin Screw Terminal

Quality

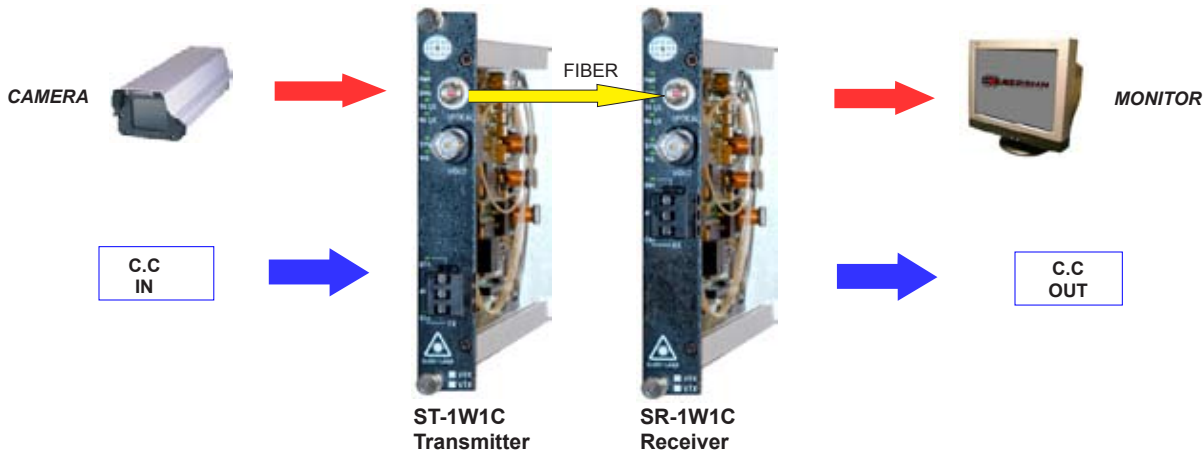
MTBF >180,000 hours @ Ground Fix
35°C per MIL217F

Part Numbers:



* measured @ max. optical budget

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



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
(1) Multimode (FP Laser) 62.5 / 125	-5	-26	21	1300	ST	24
(3) Singlemode (FP Laser) 9 / 125	-5	-26	21	1310	ST, FC	24
(7) Singlemode (DFB Laser) 9 / 125	+3	-26	29	1550	ST, FC	24

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