

Digitally Encoded One Channel 10-Bit 10MHz Video





FEATURES:

- One Slot Digital Module Design
- 10-Bit Video Digital Encoding
- Real-Time Video Transmission
- 10 MHz Video Bandwidth
- Meets RS-250C Short Haul Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Wide Optical Dynamic Range Eliminates Need For Optical Attenuators
- Laser Based System for Either Multimode or Single-mode Operation
- SpectraSmart™ Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Parameters
- ST or FC Optical Connectors
- Hot Swappable Cards
- Laser Back-Biased Photo Detector Circuitry for Stable Optical Output over Full Temperature Range
- Meets Eia Rs-170 Formats
- Meets Nema TS1/TS2 And Caltrans Specifications
- 75 Ohm BNC Video Connector (Gold Center Pin)

DESCRIPTION:

This card is part of our expanding DigiSlim $^{\rm TM}$ product family and incorporates an all-digital encoding technology.

The ST/SR-1U-x series product transmits/receives one channel of high performance 10-bit digitally-encoded video over one multimode or single-mode fiber.

This product also features a high, 10MHz video channel bandwidth for superb video quality.

NTSC, PAL and SECAM video formats are seamlessly supported. This product series has on-board SpectraView™ diagnostics built in and is also compatible with Meridian's SpectraSmart™ network management and diagnostic PC based system. See the SpectraSmart brochure for additional details.

For small standalone module version of this product see MT/MR-1U-x datasheet.

CONFIGURATIONS:

The STSR-1U-x system 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

SPECIFICATIONS:

Video

Return Loss >30 dB Field Tilt <0.5%

Optical

Connectors

Power (module) See SR-500 Brochure for details

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

Physical

Module See SR-500 Brochure

Environmental

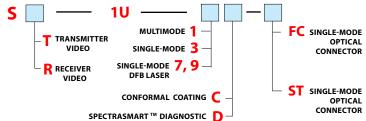
Operating Temperature -34°C to $+74^{\circ}\text{C}$ Storage Temperature -55°C to $+85^{\circ}\text{C}$

Relative Humidity 0 to 95% Non-condensing

Quality

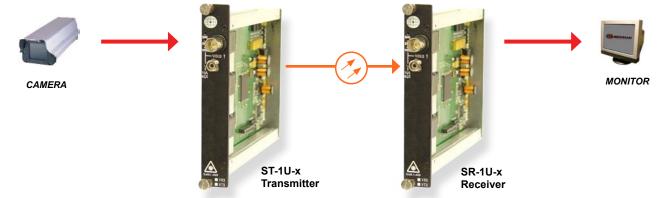
Power **

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)
1	Multimode (Laser) 62.5 / 125	-3	-22	19	1300	ST	22	3.5
3	Singlemode (FP Laser) 9 / 125	-3	-22	19	1310	ST, FC	22	50
7, 9	Singlemode (DFB Laser) 9 / 125	+3	-22	25	1550, 1310	ST, FC	22	70