





FEATURES:

- Transmission of Multi-Rate SDI & HD-SDI (19 Mbps to 2.97Gbps (3G))
- Real-Time, Uncompressed Video Transmission
- · Each channel has loop-thru input
- Supports up to 16 CWDM wavelengths on one singlemode fiber
- Supports The Following Formats :
 - 19.4 Mbps (SMPTE 310M)
 - 143 To 540 Mbps SMPTE 259M/344M
 - 1.485 Gbps SMPTE 292M HDTV
 - · DVB-ASI at 270 Mbps
 - · 2.97Gbps (3G) SMPTE 424M
 - SMPTE 305M SDTI Rates
- Error Free Pathological Pattern Performance
- · Rack Mounted Card Units
- Supports Embedded Audio and Metadata
- Distances in Excess of 30 km
- · Led Indicators for :
 - Power
 - · Laser output power
 - Laser Over Current
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Optional Small CWDM Tx Easily Mounts on the Back of Broadcast Camera
- Available with ST or FC Optical Connectors
- Requires No User Adjustments
- Compatible with 1 & 2-ch receiver cards (SR-1HD-3 & SR-2HD-3)

DESCRIPTION:

Meridian's CWDM HD-SDI fiber products are part of our expanding DigiView product family. These serial digital video transmitters & receivers provide broadcast quality transmission of the industry standard range of digital video data rates using CWDM wavelengths. This wavelength architecture allows multiplexing of up to 16 independent SDI/HDSDI channels on one singlemode fiber. All units transmit real-time video and are either one or two channel rack mount cards with 3R (Retiming, Reshaping, Regenerate) functions and dual buffered outputs (on the standard receiver card). This feature ensures maximum performance over long distances. No video compression is utilized. A loop-thru input is provided on each channel for local monitoring or additional signal routing. The standard ST/SR-2HD-x product supports two channels of SMPTE 292M, 310M, 259M, 344M and 424M compliant digital video data rates over one multimode or singlemode fiber for each channel. Using high-performance digital transmission technologies, no user adjustments are needed thus ensuring fast deployment and setup with broadcast quality results. Meridian's standard SR-1HD-3 (one channel) or SR-2HD-3 (two channels) receiver cards are used in conjunction with these transmitter cards.

CONFIGURATIONS:

The ST-1HD-A and ST-2HD-A/B products are available either as modules or rack mount cards that can be installed in either Meridian desk/shelf mount chassis or in 19", 3RU racking frames.

MARKETS:

Remote broadcast camera links Sporting events, concerts, etc. Media feeds Video production Studio to studio & head end feeds Military information displays

SPECIFICATIONS:

Video

143 To 540 Mbps SMPTE 259M/344M 1.485 Gbps SMPTE 292M HDTV DVB-ASI at 270 Mbps 2.97Gbps (3G) SMPTE 424M SMPTE 305M SDTI Rates Data Rate 19Mb/s - 1.5Gb/s Gain Unity Input Coupling AC Jitter (Pattological Data Pattern) .. < 0.2 UI Cable Equailization Automatic 0-200m @ 1.5 Gb/s Bit-Error Rate (0 to -20dBm)...... 10⁻¹²

Connectors

Power **

Card 3 W

CWDM wavelength selection							
wavelength	Pt # code (A/B)	wavelength	Pt # code (A/B)				
1270nm	27	1470nm	47 49 51 53 55 57				
1290nm	29	1490nm					
1310nm	31	1510nm					
1330nm	33	1530nm					
1350nm	35	1550nm					
1370nm	37	1570nm					
1390nm	39	1590nm	59				
1410nm	41	1610nm	61				

Indicators (LEDs)

1 - Green	Power On
2 - Red	Laser Over Current (TX)
2 - Green	Signal Present (TX)
2 - Green	Signal Lock (TX)
2 - Green	SDI Present (TX)
2 - Green	HD-SDI Present (TX)

Physical

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

 20mm (0.80") W

 Weight (Card)
 450 gms (16 Oz)

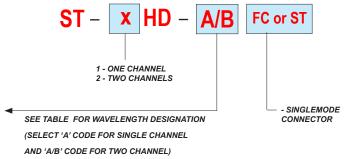
 No. of Slots
 1

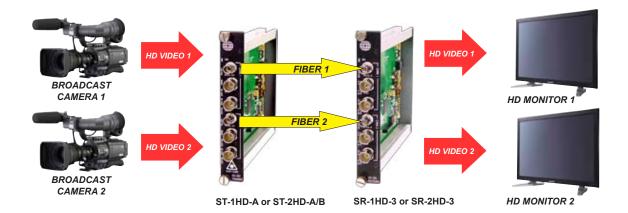
 Module
 See SR-500 Brochure

Enviromental

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)
Singlemode (Laser) 9 / 125	+3	-22	25	1550	ST, FC	20