



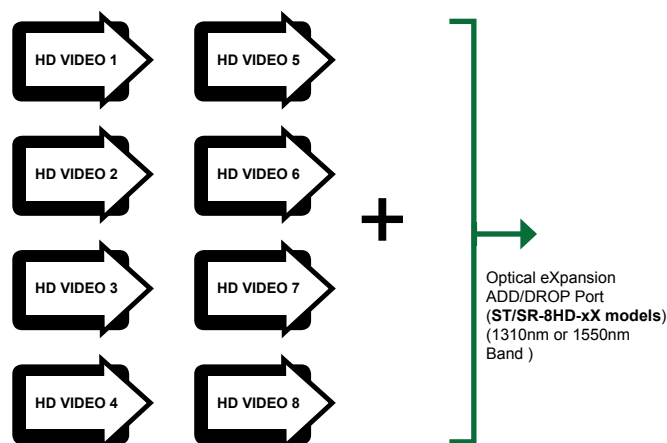
8-ch Multi-Rate
SDI & HD-SDI Video

8-ch Multi-Rate SDI & HD-SDI
Video w/Optical eXpansion
ADD/DROP Port

FEATURES:

- Transmission of 8 channels of Multi-Rate SDI & HD-SDI Video over one singlemode fiber
- Real-Time, Uncompressed Video Transmission
- 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
 - SMPTE 305M SDTI Rates
- Error Free Pathological Pattern Performance
- Add / Drop eXpansion Port option for additional Video, Audio or Data Channels
- Rack Mounted Card Units
- Supports Embedded Audio and Metadata
- Distances in Excess of 50 km
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Optional Small, single channel Tx Easily Mounts on the Back of Broadcast Camera
- Available with FC or ST Optical Connectors
- Requires No User Adjustments

8 Channels HD-SDI Multi-rate Video over One Singlemode Fiber with optional Optical ADD/DROP Expansion Port



DESCRIPTION:

This addition to Meridian's DigiView™ product family will transmit 8 channels of real-time Multi-Rate SDI/HD-SDI video over one singlemode fiber. Using Coarse Wavelength Division Multiplexing (CWDM) technology, the content details of each video channel are preserved by real-time transmission of each video channel in a compact card format. These serial digital video transmitters & receivers provide broadcast quality transmission of the industry standard range of digital video data rates. No user adjustments are needed thus ensuring fast deployment and setup with broadcast quality results. Other signal options are available such as bi-directional transmission of SDI/HDSDI as well as 3G video over one singlemode fiber. The optional eXpansion port will provide the ability to add up to 8 more CWDM 1310nm Band or 1550nm Band wavelengths on one singlemode fiber.

Note: Up-to 16 Uni-directional or Up-to 8 Bi-directional Real-time Multi-Rate SDI/HD-SDI Video are available in any combination for number of forward and return channels.

CONFIGURATIONS:

The ST/SR-8HD-x system is available in standard 2-slot 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
- ✓ Video Transport Systems

SPECIFICATIONS:

Video

Formats	19.4 Mbps (SMPTE 310M) 143 To 540 Mbps SMPTE 259M/344M 1.485 Gbps SMPTE 292M HDTV DVB-ASI at 270 Mbps SMPTE 305M SDTI Rates
Nominal Level	0.8 Vp-p, 1.0 Vp-p max.
Data Rate	19Mb/s - 1.5Gb/s per channel
Impedance	75 Ohm
Gain	Unity
Input Coupling	AC
Return Loss	>15 dB
Jitter (Pattological Data Pattern) ..	< 0.2 UI
Cable Equalization	Automatic 0-200m @ 1.5 Gb/s
Bit-Error Rate (0 to -20dBm).....	10 ⁻¹²

Optical

Wavelengths 1310 Band	1270nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1390nm, 1410nm
Wavelengths 1550 Band	1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm, 1610nm
Output power	+1 dBm per channel

Power

Card	8 W
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Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	FC (default), ST (optional)

Indicators (LEDs)

1 - Green	Power On (TX & RX)
8 - Green	Signal Present (TX)
8 - Green	Laser (TX)
8 - Green	Level 0/-10 dBm (RX)
8 - Green	Level -10/-20 dBm (RX)

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W 44mm (1.74") W
Weight (Card)	450 gms (16 Oz)
No. of Slots	2
Module	See SR-1002 Specs.

Environmental

Operating Temperature	-10°C to +50°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/SR-8HD-22 Transmitter card, SM	ch1=1270nm, ch2=1290nm, ch3=1310nm, ch4=1330nm, ch5=1350nm, ch6=1370nm, ch7=1390nm, ch8=1410nm
ST/SR-8HD-23 Transmitter card, SM	ch1=1470nm, ch2=1490nm, ch3=1510nm, ch4=1530nm, ch5=1550nm, ch6=1570nm, ch7=1590nm, ch8=1610nm
ST/SR-8HD-22X Transmitter card, SM	ch1=1270nm, ch2=1290nm, ch3=1310nm, ch4=1330nm, ch5=1350nm, ch6=1370nm, ch7=1390nm, ch8=1410nm with 1550 eXpansion Band
ST/SR-8HD-23X Transmitter card, SM	ch1=1470nm, ch2=1490nm, ch3=1510nm, ch4=1530nm, ch5=1550nm, ch6=1570nm, ch7=1590nm, ch8=1610nm with 1310 eXpansion Band

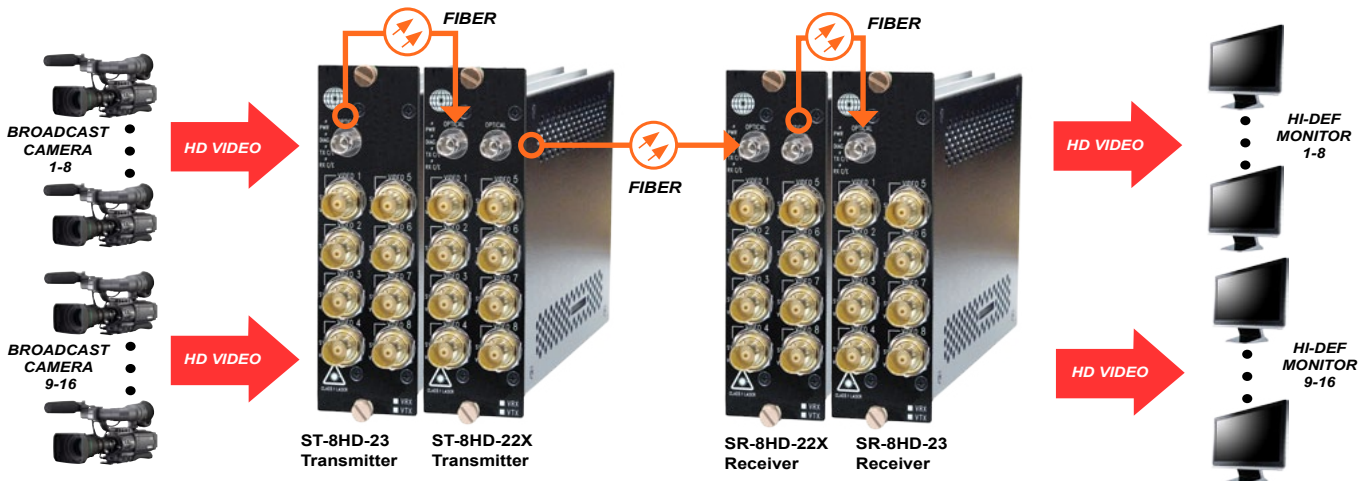
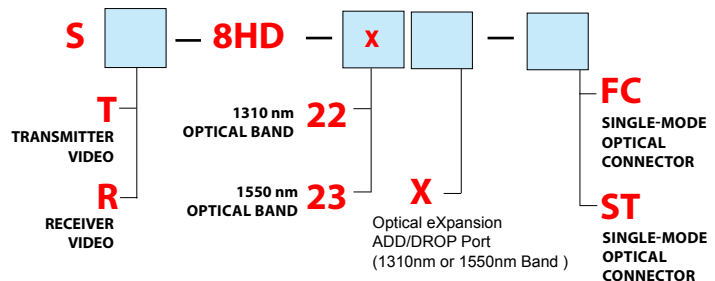


Diagram shows sample connection of unit with eXpansion port.

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)
22	Singlemode (DFB Laser) 9 / 125	+1 (per channel)	-19	20	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410	FC, ST	19	50
23	Singlemode (DFB Laser) 9 / 125	+1 (per channel)	-19	20	1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610	FC, ST	19	60

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