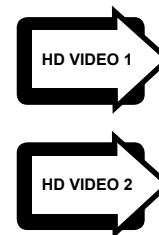




Two Uni-directional Channels of Multi-rate 3G-SDI Video



FEATURES:

- Uni-directional transmission of Multi-Rate SDI / HD-SDI / 3G-SDI (19 Mbps to 2.97Gbps (3G)) over one fiber
- Real-Time, Uncompressed Video Transmission
- Supports Both Singlemode And Multimode 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 40 km
- Led Indicators for :
 - Power
 - Rx Optical Power
 - Tx Video Signal Present
 - Laser Over Current
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Available with ST or FC Optical Connectors
- Requires No User Adjustments

DESCRIPTION:

The ST/SR-2HG-x system is a part of Meridian's DigiView product family and will transmit two uni-directional channels of real-time 3G-SDI video over one multimode or singlemode fiber.

Tx side:
ST-2HG-x

Two channels 3G-SDI Video:

1. Tx @ 1310nm
2. Tx @ 1550nm

Rx side:
SR-2HG-x

Two channels 3G-SDI Video:

1. Rx @ 1310nm
2. Rx @ 1550nm

These serial digital video transmitters & receivers provide broadcast quality transmission of the industry standard range of digital video data rates. The entire electrical and optical subsystems are housed in a standard Meridian 1-slot card design for mounting in any venue, particularly those with space constraints. No user adjustments are needed thus ensuring fast deployment and setup with broadcast quality results.

CONFIGURATIONS:

The ST/SR-2HG-x system is 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

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
Nominal Level	0.8 Vp-p, 1.0 Vp-p max.
Data Rate	19Mb/s - 3Gb/s
Impedance	75 Ohm
Gain	Unity
Input Coupling	AC
Return Loss	>15 dB
Jitter (Pattological Data Pattern)	< 0.2 UI
Cable Equailization	Automatic 0-70m @ 3 Gb/s
Bit-Error Rate (0 to -20dBm)	10 ⁻¹²

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	Singlemode - FC (default), Multimode - ST (default)

Power **

Card	4W
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Part Numbers: *

ST-2HG-11	Transmitter, card, multimode Tx @ 1310nm, Tx @ 1550nm
SR-2HG-11	Receiver, card, multimode Rx @ 1310nm, Rx @ 1550nm
ST-2HG-5	Transmitter, card, singlemode Tx @ 1310nm, Tx @ 1550nm
SR-2HG-5	Receiver, card, singlemode Rx @ 1310nm, Rx @ 1550nm

Indicators (LEDs)

1 - Green	Power On (TX & RX)
1 - Red	Laser Over Current (TX)
4 - Green	Signal Power Level (RX)
1 - Green	Signal Present (TX)
1 - Green	Signal Lock (TX)
1 - Green	SDI Present (TX)
1 - Green	HD-SDI Present (TX)

Physical

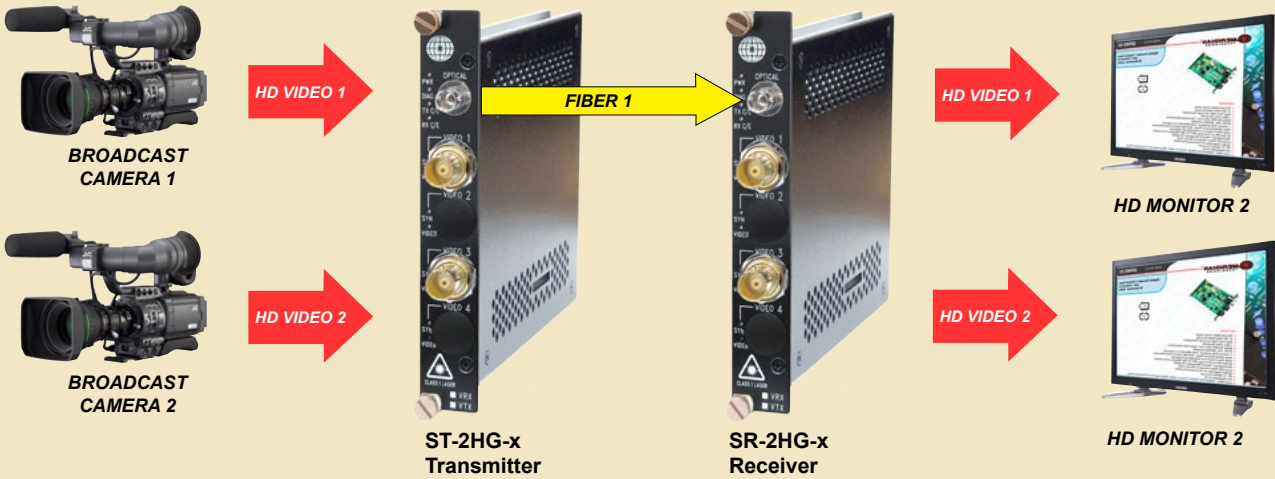
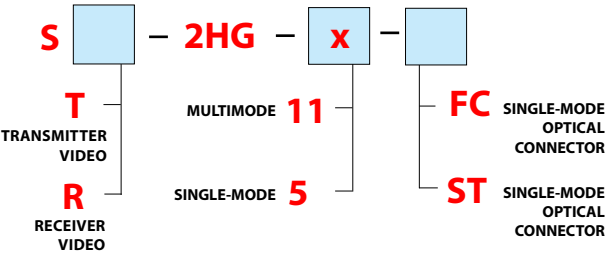
Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W 20mm (0.80") W
Weight (Card)	450 gms (16 Oz)
No. of Slots	1
Module	See SR-500 Brochure

Enviromental

Operating Temperature	-25°C to +60°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>200,000 hours @ Ground Fix on Single channel 35°C per MIL217F
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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)
11	Multimode (FP Laser) 62.5 / 125	-8	-19	11	1310, 1550	ST	19	0.65
5	Singlemode (FP Laser) 9 / 125	-3	-18	15	1310, 1550	ST, FC	18	42