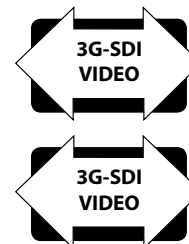


Two Bi-directional Channels of 3G-SDI / Multi-rate Video over Two Fibers



FEATURES:

- 2 Bi-directional Channels of Multi-Rate SDI / HD-SDI / 3G-SDI (19 Mbps to 2.97Gbps (3G)) Video over Two Multimode or Singlemode Fibers
- 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
 - 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
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Optional Small, single channel Tx Easily Mounts on the Back of Broadcast Camera
- Requires No User Adjustments

DESCRIPTION:

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

A side:
SXA-2HG-x

Two channels SDI / HD-SDI / 3G-SDI Video = Tx @ 1310nm & Rx @ 1550nm

B side:
SXB-2HG-x

Two channels SDI / HD-SDI / 3G-SDI Video = Tx @ 1550nm & Rx @ 1310nm

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 2-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:

This 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 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 Equalization	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)

Optical

Wavelengths	1310nm, 1550nm
Output power	-3dBm per channel

Power **

Card	5 W
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Indicators (LEDs)

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

Physical

Dimensions (Card)	44 (W) x 127 (H) x 160 (D) mm (0.8 x 5.0 x 6.3 inch)
Weight (Card)	450 gms (16 Oz)
No. of Slots	2
Module	See SR-1000 Brochure

Enviromental

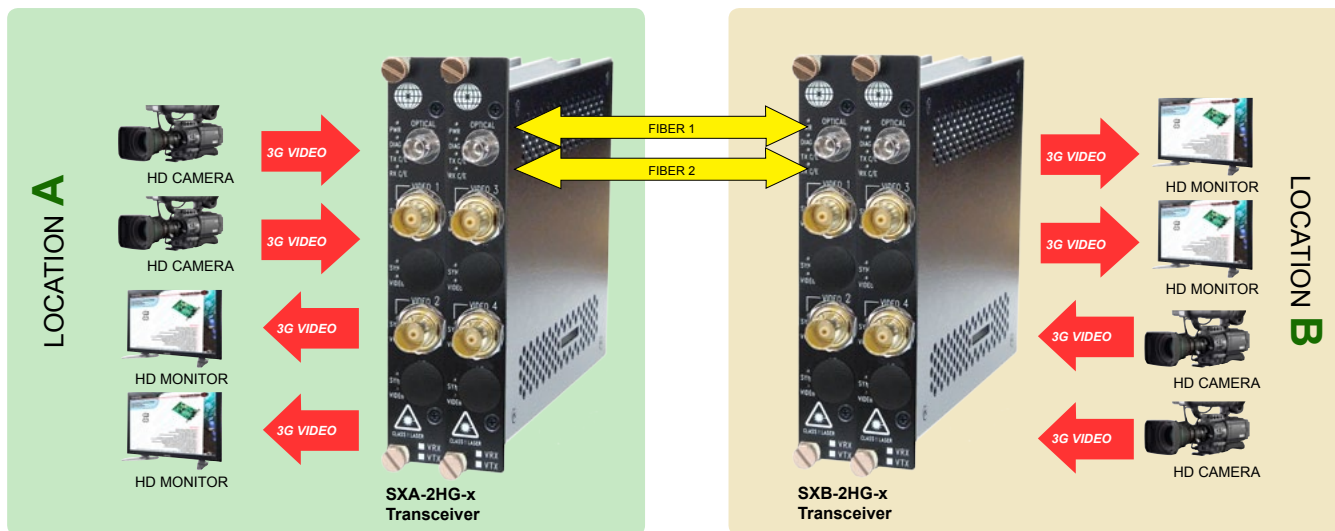
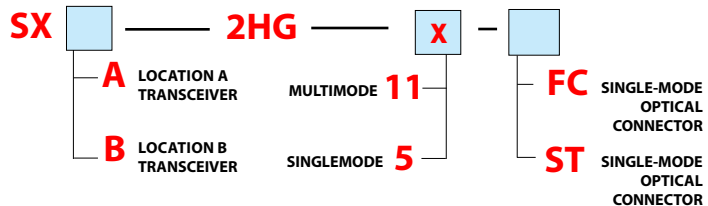
Operating Temperature	-10°C to +50°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
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Part Numbers:

SXA-2HG-11	Transceiver, card, multimode Tx @ 1310nm, Rx @ 1550nm
SXB-2HG-11	Transceiver, card, multimode Tx @ 1550nm, Rx @ 1310nm
SXA-2HG-5	Transceiver, card, singlemode Tx @ 1310nm, Rx @ 1550nm
SXB-2HG-5	Transceiver, card, singlemode Tx @ 1550nm, Rx @ 1310nm



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	-3	-18	15	1310 / 1550	ST	18	0.65
5	Singlemode (FP Laser) 9 / 125	-3	-18	15	1310 / 1550	ST, FC	18	45