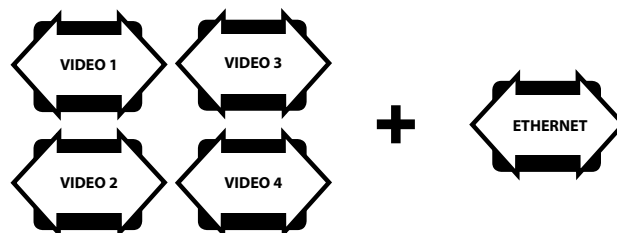


Four Bi-directional Multi-rate SDI / HDSDI Video and
 One Full Duplex Ethernet Channel
 over One Fiber, enclosed in stand-alone chassis



FEATURES:

- Multi-Rate SDI / HD-SDI (19 Mbps to 1.5Gbps) over one fiber
- Real-Time, uncompressed Video Transmission over One Single-mode Optical Fiber utilizing CWDM wavelength technology
- 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
- Supports Embedded Audio and Metadata
- 10/100 Base-T IEEE 802.3 Compliant Ethernet
- Ethernet Full Duplex or Half-duplex Supported
- Laser Based Single-mode System
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Available with ST or FC Optical Connectors
- Requires No User Adjustments

DESCRIPTION:

The MXA/MXB-4HD1R/4HD1R-24 system is a part of Meridian's DigiView product family and transmits four Bi-directional Multi-rate SDI / HDSDI Video and one Bi-directional Ethernet Channel over single-mode 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 module format. These serial digital transmitters & receivers provide broadcast quality transmission. No user adjustments are needed, ensuring fast deployment and setup with broadcast quality results. Other signal options are available, including 3G video over one single-mode fiber.

CONFIGURATIONS:

The MXA/MXB-4HD1R/4HD1R-24 system is inclosed in 3 slot stand-alone chassis (SR-1350) with AC power supply (87 VAC - 164 VAC) and can be mounted on any flat surface.

MARKETS:

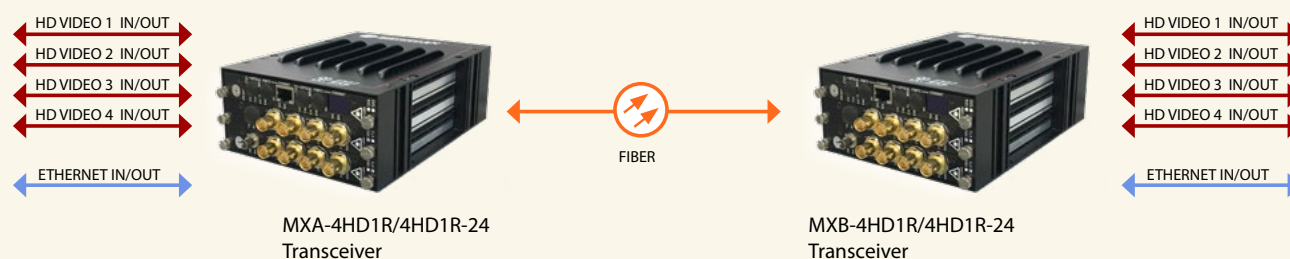
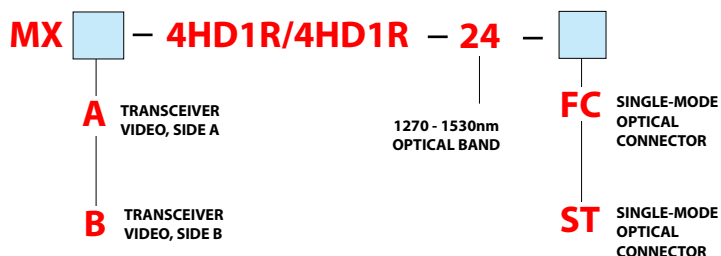
- ✓ Remote broadcast camera links
- ✓ Sporting events, concerts, etc.
- ✓ Media feeds
- ✓ Video production
- ✓ Studio to studio & head end feeds
- ✓ Military information displays

SPECIFICATIONS:

HD-SDI Video		10/100 Base-T Ethernet		Physical	
Formats	19.4 Mbps (SMPTE 310M) 143 To 540 Mbps SMPTE 259M/344M1.485 Gbps SMPTE 292M HDTV DVB-ASI at 270 Mbps SMPTE 305M SDTI Rates	Ethernet Standards	IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T	Dimensions	186 (L) x 74 (H) x 135 (W) mm (7.31 x 2.8 x 5.31 inch)
Nominal Level	0.8 Vp-p, 1.0 Vp-p max.	Data Rate	10/100 Mb/s	Weight	1950 gms (4.3 lb.)
Data Rate	19Mb/s - 1.5Gb/s	Bit Error	10 ⁻⁹ *	Environmental	
Impedance	75 Ohm	Optical		Operating Temperature	-40°C to +74°C
Gain	Unity	Wavelength Band	1270nm - 1530nm	Storage Temperature	-55°C to +85°C
Input Coupling	AC	Output power	+1 dBm per channel	Relative Humidity	0 to 95% Non-condensing
Return Loss	>15 dB	Connectors		Quality	
Jitter (Pathological Data Pattern)	< 0.2 UI	HD-SDI Video	75 Ohm BNC (Gold Center Pin)	MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
Cable Equalisation	Automatic 0-70m @ 1.5Gb/s	Optical	FC, ST (Single-mode)		
Bit-Error Rate (0 to -20dBm)	10 ⁻¹²	Ethernet	Shielded RJ-45		
		Power (module)	2-pin Screw Terminal		
		Power			
		Input Power	24VAC/DC		
		Power Consumption	16 W		

Part Numbers:

Unit	Description	Wavelength
MXA-4HD1R/4HD1R-24	Video Transceiver, Ethernet Transceiver, Single-mode	Tx/Rx @ 1270nm - 1530nm
MXB-4HD1R/4HD1R-24	Video Transceiver, Ethernet Transceiver, Single-mode	Tx/Rx @ 1270nm - 1530nm



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)
24	Singlemode (DFB Laser) 9 / 125	+1 (per channel)	-20	21	1270 - 1530 nm Band	FC, ST	21	50