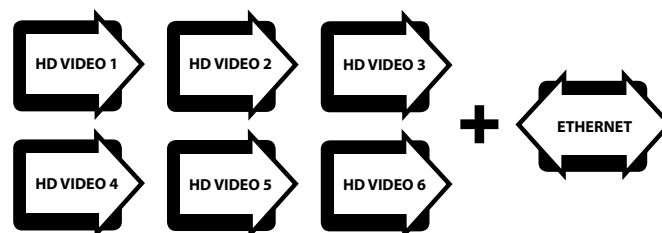


Six Simplex Multi-rate SDI / HDSDI Video and
 One Full Duplex Ethernet Channel
 over One Fiber



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 MT/MR-6HD1R/1R-x system is a part of Meridian's DigiView product family and transmits six Simplex 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 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, including 3G video over one single-mode fiber.

CONFIGURATIONS:

The MT/MR-6HD1R/1R-x 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:

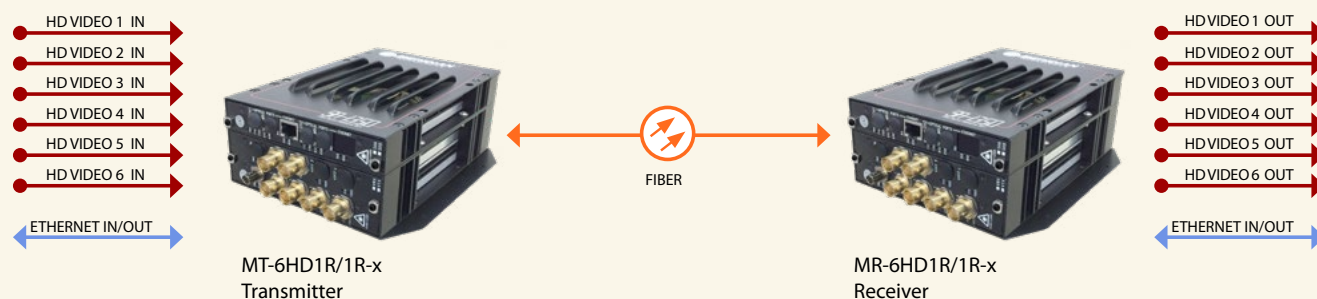
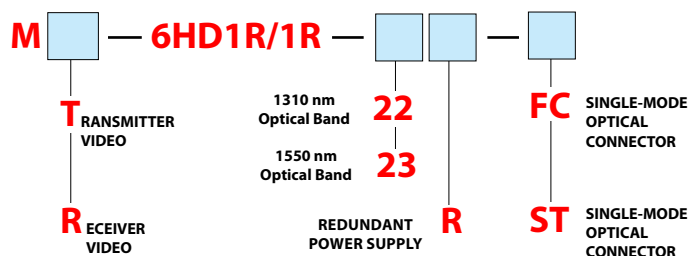
- ✓ Remote broadcast camera links
- ✓ Sporting events, concerts, etc.
- ✓ Media feeds
- ✓ Video production
- ✓ Studio to studio & head end feeds
- ✓ Military information displays

SPECIFICATIONS:

HD-SDI Video		10/100/1000 Base-T Ethernet		Power	
Formats	19.4 Mbps (SMPTE 310M)	Ethernet Standards	IEEE 802.3 CSMA/CD	Input Power	9-36VDC
	143 To 540 Mbps SMPTE		IEEE 802.3i 10Base-T	Power Consumption	16 W
Nominal Level	259M/344M1.485 Gbps SMPTE	Data Rate	IEEE 802.3u 100Base-T	Physical	
	292M HDTV DVB-ASI at 270 Mbps SMPTE 305M SDTI Rates		10/100 Mb/s	Dimensions	182 (L) x 132 (H) x 132 (W) mm (7.16 x 5.15 x 5.15 inch)
Data Rate	19Mb/s - 1.5Gb/s	Bit Error	10 ⁻⁹ *	Weight	4064 gms (8.96 lb.)
Impedance	75 Ohm			Environmental	
Gain	Unity	Optical		Operating Temperature	-40°C to +74°C
Input Coupling	AC	Wavelengths 1310 Band	1270nm - 1410nm	Storage Temperature	-55°C to +85°C
Return Loss	>15 dB	Wavelengths 1550 Band	1470nm - 1610nm	Relative Humidity	0 to 95% Non-condensing
Jitter (Pathological Data Pattern)	< 0.2 UI	Output power	+1 dBm per channel	Quality	
Cable Equalisation	Automatic 0-70m @ 1.5Gb/s	Connectors		MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
Bit-Error Rate (0 to -20dBm)	10 ⁻¹²	3G-SDI Video	75 Ohm BNC (Gold Center Pin)		
		Optical	FC, ST (Single-mode)		
		Ethernet	Shielded RJ-45		
		Power (module)	2-pin Screw Terminal		

Part Numbers:

Unit	Description	Wavelength
MT-6HD1R/1R-22	Video Transmitter, Ethernet Transceiver, Single-mode, 1310nm Optical Band	Tx @ 1270nm - 1390nm Rx @ 1410nm
MR-6HD1R/1R-22	Video Receiver, Ethernet Transceiver, Single-mode, 1310nm Optical Band	Tx @ 1410nm Rx @ 1270nm - 1390nm
MT-6HD1R/1R-23	Video Transmitter, Ethernet Transceiver, Single-mode, 1550nm Optical Band	Tx @ 1470nm - 1590nm Rx @ 1610nm
MR-6HD1R/1R-23	Video Receiver, Ethernet Transceiver, Single-mode, 1550nm Optical Band	Tx @ 1610nm Rx @ 1470nm - 1590nm



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)	-20	21	1310 nm Band	FC, ST	21	50
23	Singlemode (DFB Laser) 9 / 125	+1 (per channel)	-20	21	1550 nm Band	FC, ST	21	80