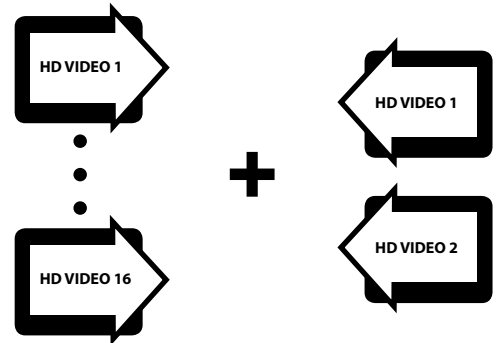


Sixteen Unidirectional and Two
Return Channels of Multi-rate
SDI / HDSDI Video over One Fiber



FEATURES:

- Transmission of 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
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Available with ST or FC Optical Connectors
- Requires No User Adjustments

DESCRIPTION:

The MT/MR-16HD/2HD-26 system is a part of Meridian's DigiView product family and will transmit sixteen unidirectional channels and two return channels of real-time SDI/HDSDI video over one 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 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, including 3G video over one single-mode fiber.

CONFIGURATIONS:

The MT/MR-16HD/2HD-26 system is inclosed in 5-slot stand-alone chassis (SR-1550) 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:

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	19 Mb/s - 1.5 Gb/s
Impedance	75 Ohm
Gain	Unity
Input Coupling	AC
Return Loss	>15 dB
Jitter (Pattological Data Pattern)	< 0.2 UI
Cable Equalization	Automatic 0-70 m @ 1.5 Gb/s
Bit-Error Rate (0 to -20dBm)	10 ⁻¹²

Optical

Wavelengths	1270nm - 1610nm
Output power	+1 dBm per channel

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	Single-mode - FC, ST

Power

Power Consumption	20W
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Indicators (LEDs)

1 - Green (per card)	Power On
2 - Green (per channel)	Signal Power Level (RX)
1 - Green (per channel)	Signal Present (TX)
1 - Green (per channel)	Laser ON (TX)

Physical

Dimensions (Module)	182 mm (7.16") L, 132 mm (5.15") H, 132 mm (5.20") W
Weight (Module)	4064 gms (8.96 lb.)

Enviromental

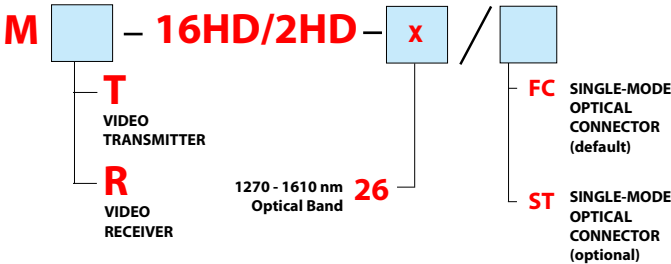
Operating Temperature	-25°C to +60°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>200,000 hours @ Ground Fix on Single channel 35°C per MIL217F
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Part Numbers:

Unit	Description	Wavelength
MT-16HD/2HD-26	Video Transceiver, Single-mode	Video: Tx @ 1270nm - 1570nm Video: Rx @ 1590nm - 1610nm
MR-16HD/2HD-26	Video Transceiver, Single-mode	Video: Rx @ 1270nm - 1570nm Video: Tx @ 1590nm - 1610nm



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)
26	Singlemode (DFB Laser) 9 / 125	+1 (per channel)	-17	18	1270 nm - 1610 nm	FC, ST	17	50