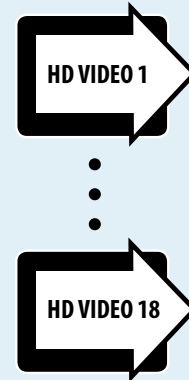


Eighteen Unidirectional Channels
 of Multi-rate SDI / HDSDI Video
 over One Fiber



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-18HD-26 system is a part of Meridian's DigiView™ product family. This module will transmit Eighteen unidirectional channels of real-time SDI/HDSDI video over one single-mode fiber. Using Coarse Wavelength Division Multiplexing (CWDM) technology, the content of each video channel is preserved and transmitted over single optical fiber in real-time. 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-18HD-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 |
|-------------------|-----|

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) | 135(W)x188(D)x112(H) mm (5.31 x 7.31 x 4.40 inch) |
| Weight (Module) | 4064 gms (8.96 lb.) |

Enviromental

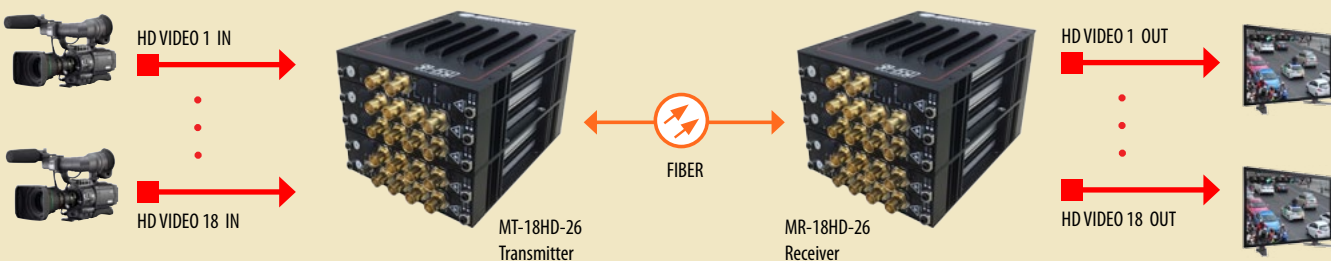
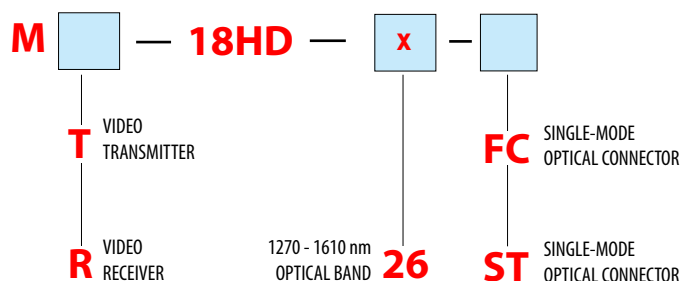
| | |
|-----------------------|-------------------------|
| Operating Temperature | -25°C to +60°C |
| Storage Temperature | -55°C to +85°C |
| Relative Humidity | 0 to 95% Non-condensing |

Quality

| | |
|------|--|
| MTBF | >200,000 hours @ Ground Fix on Single channel 35°C per MIL217F |
|------|--|

Part Numbers:

| Unit | Description | Wavelength |
|------------|-----------------------------------|-----------------------------|
| MT-18HD-26 | Video Transmitter, Single-mode | Video: Tx @ 1270nm - 1610nm |
| MR-18HD-26 | Video Receiver, Single-mode | Video: Rx @ 1270nm - 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 |