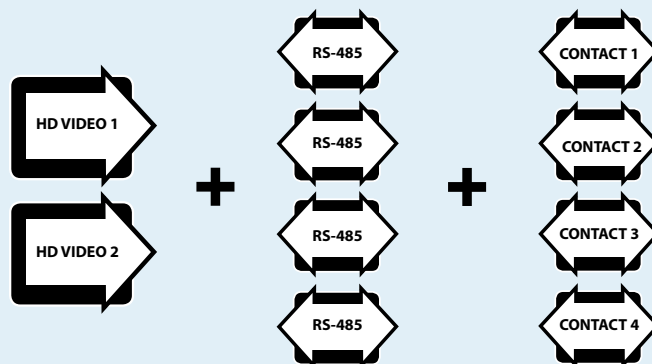


Two Simplex Multi-rate SDI / HDSDI Video plus
 Four Bidirectional RS-485 (2-wire) Data and
 Four Bidirectional Contact Closure
 over One Single-mode Fiber



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
- User-selectible, Contact Mapping (N.O., N.C.)
- Laser Based Single-mode System
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Available with ST or FC Optical Connectors
- Requires No User Adjustments
- DB 15 Type Connectors for Contact Closure
- DB 9 Type Connectors for Data

DESCRIPTION:

The MT/MR-2HD4C4J/4C4J-x system is a part of Meridian's DigiView product family and will transmit two simplex Multi-rate SDI / HDSDI Video, four Bi-directional RS-485(2-wire) Data and four Full-Duplex Contact Closure 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 module format.

The Contact Closure channels can be configured as either Normally Open (N.O.) or Normally Closed (N.C.).

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-2HD4C4J/4C4J-x system is included 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:

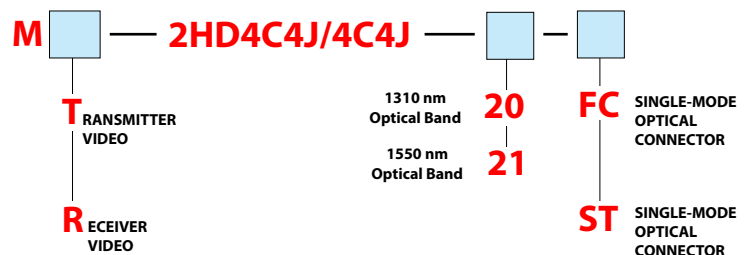
HD-SDI Video	
Formats	19.4 Mbps (SMPTE 310M) 143 To 540 Mbps SMPTE 259M/344M 1.485 Gbps SMPTE 292M HDTV DVB/ASI at 270 Mbps SMPTE 305M SDTI Rates
Nominal Level	0.8 Vp-p, 1.0 Vp-p max.
Data Rate	19Mb/s - 1.5Gb/s
Impedance	75 Ohm
Gain	Unity
Input Coupling	AC
Return Loss	>15 dB
Jitter (Pathological Data Pattern)	< 0.2 UI
Cable Equalisation	Automatic 0-200m @ 1.5Gb/s
Bit-Error Rate (0 to -20dBm)	10 ⁻¹²

Data	
Formats	RS-485 (2-wire)
Data Rate	DC to 250 Kb/s
Bit Error Rate	10 ⁻⁹
Contact	
Formats	Contact Normally Open (N.O.) or Normally Closed (N.C.) - jumper selectable
Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms
Optical	
Wavelengths 1310 Band	1270nm - 1330nm
Wavelengths 1550 Band	1510nm - 1570nm
Output power	+1 dBm per channel

Connectors	
HD-SDI Video	75 Ohm BNC (Gold Center Pin)
Data	DB-9, DB-15
Optical	FC, ST (Single-mode)
Power (module)	2-pin Screw Terminal
Power	
Input Power	9-36VDC
Power Consumption	16 W
Physical	
Dimensions	186 (L) x 74 (H) x 135 (W) mm (7.31 x 2.8 x 5.31 inch)
Weight	3700 gms (8.10 lb.)
Environmental	
Operating Temperature	-40°C to +74°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

Part Numbers:

Unit	Description	Wavelength
MT-2HD4C4J/4C4J-20	Video, Data Transceiver, Single-mode, 1310nm Optical Band	Video: Tx @ 1270nm - 1290nm Data: Tx@1310nm Rx@1330nm
MR-2HD4C4J/4C4J-20	Video, Data Transceiver, Single-mode, 1310nm Optical Band	Video: Rx @ 1270nm - 1290nm Data: Tx@1330nm Rx@1310nm
MT-2HD4C4J/4C4J-21	Video, Data Transceiver, Single-mode, 1550nm Optical Band	Video: Tx @ 1510nm - 1530nm Data: Tx@1550nm Rx@1570nm
MR-2HD4C4J/4C4J-21	Video, Data Transceiver, Single-mode, 1550nm Optical Band	Video: Rx @ 1510nm - 1530nm Data: Tx@1570nm Rx@1550nm



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)
20	Singlemode (DFB Laser) 9 / 125	+1 (per channel)	-20	21	1310 nm Band	FC, ST	21	60
21	Singlemode (DFB Laser) 9 / 125	+1 (per channel)	-20	21	1550 nm Band	FC, ST	21	80