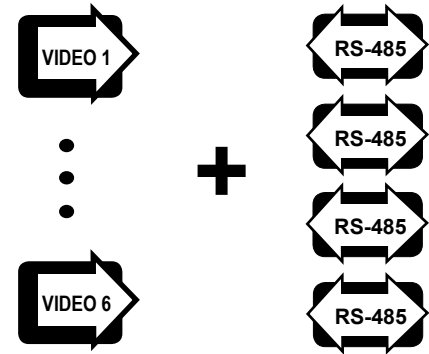


Digital 6 Channel Video Multiplexer with 4 Full Duplex Channels of RS 485



FEATURES:

- 6 Channel Digital Video Encoding
- 4 Full Duplex Channels of RS 485 Data
- 7 MHz Video Bandwidth
- Meets RS-250C Transmission Specifications
- NTSC, PAL, SECAM Compatible
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart™ Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Cards
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range.
- Meets NEMA TS1 / TS2 & CALTRANS Specs.
- 75 Ohm BNC Video Connector (Gold Center Pin)
- Meets EIA RS-170, RS-343A Formats
- DB 9 Type Connector for Data
- DC to 1 Mb/s Data Rate

DESCRIPTION:

The Meridian DT/DR-6V4J/4J series is a reliable, cost effective, state-of-the-art, one fiber, Bi-directional Digital Video and Data transmission system. This fiber optic system transmits 6 channels of real-time Video with 4 Full Duplex channels of RS 485 data on one Singlemode or Multimode fiber. DT/DR-6V4J/4J accepts PAL, SECAM, or NTSC formats. The functionality of DT/DR-6V4J/4J series are further enhanced by their compatibility with Meridian's PC based SpectraSmart, Network Management and Remote Diagnostic Software System. SpectraSmart supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, data activity etc. See the SpectraSmart brochure for more details.

CONFIGURATIONS:

The DT/DR-6V4J/4J product family is available as rack mount cards and modules that can be installed in all of Meridian's card chassis, desk chassis and 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be made a standalone system by using the SR-1000/s, 2 slot desk / wall mount chassis (87VAC-264VAC)

MARKETS:

- ✓ Security and Surveillance
- ✓ Intelligent Transportation System (ITS)
- ✓ Access Control Systems
- ✓ Campus Lecture Networks
- ✓ Pro. Video / Audio

SPECIFICATIONS:

Video

| | |
|--------------------|-------------------------------|
| Format | NTSC, PAL, SECAM |
| Voltage/Impedance | 1 Vp-p, 75 Ohm, 1.5 Vp-p max. |
| Bandwidth | 5 Hz to 6.8 MHz @ -3 dB |
| Differential Gain | <0.6% |
| Differential Phase | <0.3° |
| SNR | >62 dB (weighted) |
| Return Loss | >30 dB |
| Field Tilt | <0.5% |

Data

| | |
|----------------|-------------------|
| Formats | RS-485 |
| Rate | DC to 1Mb/s |
| Bit Error Rate | 10 ^{-9*} |

Optical

| | |
|-----------------|-------|
| Fiber Data Rate | 1Gb/s |
|-----------------|-------|

Connectors

| | |
|---------|----------------------------------|
| Video | 75 Ohm BNC (Gold Center Pin) |
| Optical | ST, FC |
| Power | See SR-1000 Brochure for details |
| Data | DB9 Female |

Power**

| | |
|------|----------|
| Card | 10 Watts |
|------|----------|

Quality

| | |
|------|---|
| MTBF | >180,000 hours @ Ground Fix 35°C per MIL217F |
|------|---|

* measured @ max. optical budget

** Due to variations of drivers and diagnostic options, power shown @ max. value

Indicators (LEDs)

| | |
|--------------|--------------------------------------|
| 1 - Green | Power On |
| 1 - Bi-color | TX Carrier/ Laser Over Current |
| 1 - Bi-color | RX Carrier - Present / Error |
| 1 - Bi-color | RX optical signal - Present / Absent |
| 6 - Green | Sync. Present |
| 6 - Bi-color | Video Present / Overload |
| 8 - Green | Data Present |

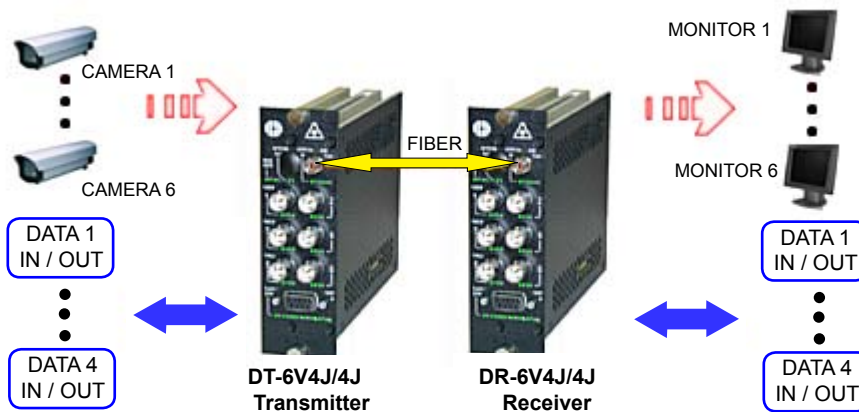
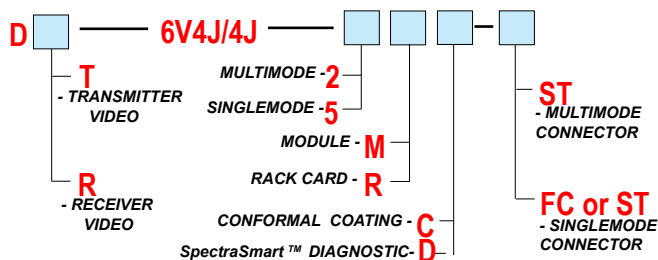
Physical

| | |
|--------------|--|
| Dimensions: | |
| Card | 160 mm (6.3") L, 100 mm (4") W 44 mm (1.7") H |
| Weight: | |
| Card | 450 gms (16 Oz) |
| No. of Slots | 2 |

Enviromental

| | |
|-----------------------|-------------------------|
| Operating Temperature | -34°C to +74°C |
| Storage Temperature | -55°C to +85°C |
| Relative Humidity | 0 to 95% Non-condensing |

Part Numbers:



OPTICAL:

| Fiber Type/Size (um) | Optical Output (dBm) | Receiver Sensitivity (dBm) | Optical Budget (dB) | Wavelength (nm) | Optical Connector | Optical Dynamic Range (dB) |
|------------------------------------|----------------------|----------------------------|---------------------|-----------------|-------------------|----------------------------|
| Multimode (FP Laser) 62.5 / 125 | -3 | -23 | 20 | 1300 / 850 | ST | 23 |
| Singlemode (FP Laser) 9 / 125 | -3 | -23 | 20 | 1310 / 1550 | ST, FC | 23 |
| Singlemode (DFB Laser) 9 / 125 | +3 | -23 | 26 | 1310 / 1550 | ST, FC | 23 |

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