Overview

Vi-Link HD SDI Video equipment: The DL815 is a fiber optic digital multiplexer that designed to transmit up to 8 channels of high quality uncompressed digital 3G HD SDI video signals and bi-directional EIA-RS232 or RS-422 Data over one single mode cable. It is a cost effective selection for transporting high quality SDI camera pictures and Ethernet network link from the remote location to the operation center via long fiber optic cable.

The DL815 is compatible with all SMPTE rates: SMPT259M SDI from 143 to 360 Mbps, SMPT2344M 540Mbps, SMPT292M HD-SDI 1.485 Gbps, SMPT272M Dual Link HD-SDI 2.97 Gbps, SMPT424M Dual Speed 3G-SDI 2.97 Gbps.

The DL815 offers a fully serial digital video encoding/decoding of real time high quality digital video providing adjustment free operation over a wide operational range. Using automatic gain control and state-of-the-art multiplexing, combining with CWDM technologies for distances from back-to-back to 50 Kilometers, our digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

The extended temperature capability of the DL815 satisfies very critical applications requiring high quality video performance with high reliability.


Features

- 8 Channels Digital Broadcast Video Transmission
- 8 Channels Bi-Directional Data
- Single Mode Fiber With CWDM Technology
- Real Time High Quality 3G-HD-SDI Video
- Compatible with all SMPTE3G SDI Rates
  - SMPT259M SDI from 143 to 360 Mbps, SMPT2344M 540Mbps, SMPT292M HD-SDI 1.485 Gbps, SMPT272M Dual Link HD-SDI 2.97 Gbps, SMPT424M Dual Speed 3G-SDI 2.97 Gbps
- Fully Compliant with EIA RS-232/RS-422 standard
- Asynchronous Data Speed Up to 115 Kbps
- 90~240 VAC or +24 VDC, +28 VDC, -48 VDC
- NEMA Temperature

Applications

- Broadcasting Video Transmission
- High Quality HD-SDI Video Monitoring in Traffic Control System
- METRO Security System
- Unmanned Aircraft Video System
- Oil & Gas Perimeter Intruder Detection
- Military Applications
- Premise Networks
- Any High Quality Video Requirement

Order Information

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<tr>
<th>Model</th>
<th>Descriptions</th>
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<tr>
<td>DL815T23ST05</td>
<td>8 Channels 3G HD SDI Video (Tx) and Bi-Directional Data Over Fiber, CWDM, SM ST, 50km, 90~240 VAC</td>
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<tr>
<td>DL815R23ST05</td>
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*** Replace T with R for RS-422 Interface ***

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### Specifications

**System:**
- **Error Rate**: 1 in 10¹² or Better
- **Indicators**: Pwr, Video, Data

**Optical:**
- **Transmitter**: CWDM Lasers
- **Tx**: 1430nm~1610nm
- **Rx**: 1450nm
- **Receiver**: PIN
- **Tx**: 1450nm
- **Rx**: 1430nm~1610nm
- **Power Budget**: 20 dB @ SM
- **Connector**: ST

**Environment:**
- **Operating**: -34°F to +74°F
- **Storage**: -40°C to + 95°C
- **Humidity**: 98% Non-Condensing

**Physical:**
- **Dimensions**: 19" x 10" x 1.75"
- **Weight**: 7 lbs

### 3G HD-SDI Video Interface:
- **Channel**: 8 x 3G HD-SDI
- **Format**: SMPTE 259M, 292M and 424M
- **Speed**: 143M~540M, 1.485GHz~2.97 GHz
- **Full HD Revolution**: 1280 x 720P @ 50/60fps
  - 1920 x 1080P @ 50/60fps
- **Signal Level**: 800mVp-p +/-10%
- **Connector**: BNC
- **Impedance**: 75 Ohms

### Bi-Directional Data:
- **Channel**: 8
- **Data Type**: Asynchronous
- **Speed**: DC to 115 Kbps
- **Connector**: RJ45

### Power:
- **AC**: 90~240 VAC @ 0.5Amp 50/60Hz
- **DC**: +24 VDC, +28VDC, -48 VDC

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**Application**

- **3G HD SDI Cameras**
- **Up to 50 Km SM**
- **RS-232 or RS-422 Data**
- **3G HD SDI Monitors**

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