Overview

Vi-Link HD SDI Video equipment: The DL115 is a fiber optic digital multiplexer that is designed to transmit high quality digital broadcast 3G HD SDI video signal and Bi-directional EIA-RS232 or RS-422 Data (switchable) over one single mode cable. It is a cost effective selection for transporting high quality SDI camera pictures and control data from remote location to the operation center via long fiber optic cable.

The DL115 is compatible with all SMPTE rates: SMPTE259M SDI from 143 to 360 Mbps, SMPTE344M 540Mbps, SMPTE292M HD-SDI 1.485 Gbps, SMPTE372M Dual Link HD-SDI 2.97 Gbps, SMPTE424M Dual Speed 3G-SDI 2.97 Gbps.

The DL115 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 DL115 satisfies very critical applications requiring high quality video performance with high reliability.


Features

- Digital Broadcast Video Transmission
- Bi-Directional Data
- Single Mode Fiber With CWDM Technology
- Real Time High Quality 3G-HD-SDI Video
- Compatible with all SMPTE3G SDI Rates
  - SMPTE259M SDI from 143 to 360 Mbps,
  - SMPTE344M 540Mbps,
  - SMPTE292M HD-SDI 1.485 Gbps, SMPTE372M Dual Link HD-SDI 2.97 Gbps,
  - SMPTE424M Dual Speed 3G-SDI 2.97 Gbps
- Fully Compliant with EIA RS-232/RS-422 standard Switchable Selection
- Asynchronous Data Speed Up to 115 Kbps
- +12 VDC or 90–240 VAC (rack card)
- NEMA Temperature

Applications

- Broadcasting Video Transmission
- High Quality HD-SDI Video Monitoring in Traffic Control Center
- 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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<th>Model</th>
<th>Descriptions</th>
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<tr>
<td>DL115ST03T</td>
<td>One Channel 3G HD SDI Video (Tx) and Switchable Bi-Directional Data Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC</td>
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<tr>
<td>DL115ST03R</td>
<td>One Channel 3G HD SDI Video (Rx) and Switchable Bi-Directional Data Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC</td>
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Specifications

**System:**
- Error Rate: 1 in $10^{12}$ or Better
- Indicators: Pwr, Video, Data

**Optical:**
- Transmitter: CWDM Lasers
- Tx: 1490nm & 1550nm
- Rx: 1310nm
- Receiver: PIN
- Tx: 1310nm
- Rx: 1490nm & 1550nm
- 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:**
- Standalone: 1” x 6” x 4”
- Rackcard: 19” x 12” x 5.5”

**3G HD-SDI Video Interface:**
- Channel: 1 x 3G HD-SDI
- Format: SMPTE 259M, 292M and 424M
- Speed: 143M~540M, 1.485GB~2.97 GB
- Full HD Revolution: 1280 x 720P @ 50/60fps
- Signal Level: 800mVp-p +/-10%
- Connector: BNC
- Impedance: 75 Ohms

**Bi-Directional Data:**
- Channel: 1
- Speed: DC to 115 Kbps
- Format: EIA RS-232 / RS-422
- Interface Setting: Switch Selectable
- Connector: RJ45
- Power:
  - Standalone: +12 VDC @ 1 Amp
  - Rackcard: 90~240 VAC

Application

High Quality Video Images
3G HD SDI Traffic Monitoring Cameras

Bi-Directional RS-232/422 Data for Traffic Control Unit (RTU)

Bi-Directional RS-232/422 Data for Traffic Control Unit (RTU) and PTZ Data for Controlling Cameras

3G HD SDI Monitor

Up to 50 Km SM Fibers

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