Overview

Vi-LINK new generation HD SDI Video equipment; The Vi-LINK DL430 is a fiber optic digital multiplexer that designed to transmit/receive up to 4 channels of High Quality Uncompressed Digital 3G HD SDI video, 4 channels of Stereo Audio, 4 channels Bi-directional RS-232/-422 Data and 10/100/1000M Ethernet Link over one single mode cable. It is the most effective selection for transporting high quality Broadcasting Video signals with its Stereo Audio, along with Control Data signals and Gigabit Ethernet segment to the remote location via long fiber optic cable. The DL430 Series 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 Stereo Audio channel is low noise 600 Ohms line impedance input/output. The Control Data compliances with EIA-RS232 or IEA-RS422 interfaces with asynchronous data speeds up to 115 Kbps. The 10/100/1000M Ethernet channel supports store and data forwarding with extremely low latency. It is high-performance, cost effective and flexible solutions for a wide range of applications in the field of LAN campus network.

The DL430 series 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 40 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 DL430 satisfies very critical applications requiring high quality video performance with high reliability.


Features

- 4 Channels Uncompressed High Quality Digital Video Transmission
- 4 Channels Stereo Audio
- 4 Channels Bi-Directional RS-232/422 Data
- 1 Channel 10/100/1000M Ethernet
- 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
- 600 Ohms Line Audio Input/Output
- Asynchronous RS-232/422 Interface
- Data Speed Up To 115 Kbps
- Fully Compliant with IEEE802.3, IEEE802.3u, IEEE802.3ab standard
- Auto-negotiation of 10/100/1000 Mbps rate and Auto-MDI/MDIX for TX port
- AGC Single mode Transmission of 0 to 40 Km
- 90–240 VAC or +24 VDC, +28 VDC, –48 VDC Power Supplies
- NEMA Temperature

Applications

- Broadcasting HD Video & Audio Transmission
- High Quality HD-SDI Video Monitoring in Traffic Control Center
- METRO Security System
- Unmanned Aircraft Video System
- Oil & Gas Perimeter Intruder Detection
- Schools & Campus Security
- Hotels & Public Security Applications
- Military Application
- Any High Quality Video Requirement

Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL430T</td>
<td>4 CH 3G HD SDI Video, Stereo Audio (TX), Bi-Directional RS-232 Data and GB Ethernet Link, CWDM, SM ST, 40Km, 90–240 VAC</td>
</tr>
<tr>
<td>DL430R</td>
<td>4 CH 3G HD SDI Video, Stereo Audio (RX), Bi-Directional RS-232 Data and GB Ethernet Link, CWDM, SM ST, 40Km, 90–240 VAC</td>
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*Please Consult Factory for Additional Model numbers***

5160 Ave De Despacio, Yorba Linda, California 92887 – Tel: 714-712-0654
Email: sales@vi-link.net – Web: www.vi-link.net
Technical Specifications

CCTV Equipment Series

Model DL430

System:
- Error Rate: 1 in 10^12 or Better
- Indicators: Pwr, Video, Audio, Data, Ethernet

Optical:
- Transmitter: CWDM Lasers
  - Tx: 1470nm-1570nm
  - Rx: 1590nm-1610nm
- Receiver: PIN
  - Tx: 1470nm-1610nm
  - Rx: 1470nm-1610nm
- Power Budget: 20 dB @ SM
- Connector: ST, SC, LC

10/100/1000M Ethernet Interface:
- Channel: 1
- Network Standard: IEEE802.3u 100Base TX/FX
  IEEE802.3ab 1000Base TX
- Build-in Buffer: 128 Kbytes
- Auto Re-connect: 512 bits collision-free packet
- Support: VLAN, Tag VLAN, MTU, MPLS, PPPOE

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

Power:
- AC: 90~240 VAC @ 0.5Amp 50/60Hz

3G HD-SDI Video Interface:
- Channel: 4 x 3G HD-SDI
- Format: SMPTE 259M, 292M and 424M
- Speed: 143Mps~540Mps, 1.485~2.97 Gbps
- Full HD Revolution: 1280 x 720P @ 50/60fps
  1920 x 1080P @ 50/60fps
- Signal Level: 800mVp-p +/-10%
- Connector: BNC
- Impedance: 75 Ohms

Stereo Audio Interface:
- Channel: 4 Stereo / 8 Mono
- Audio Input: Unbalanced
- Signal Level: 1 Vp-p
- Impedance: 600 Ohms
- Freq. Response: 10 Hz to 20 Khz
- Signal/Noise Ratio: > 70 dB (Weighted)
- Connector: Banana Jack

Data Interface:
- Channel: 4
- Speed: DC to 115 Kbps per Channel
- Format: RS-232 / RS-422
- Connector: RJ45 (Block of 4)

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

Application

Typical DL430 Application

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