

Overview

Vi-Link HD SDI Video equipment: The DL1600 is a fiber optic digital multiplexer that designed to transmit up to 16 channels of high quality uncompressed digital 3G HD SDI video signals over one single mode cable. It is a cost effective selection for transporting high quality SDI camera pictures from the remote location to the operation center via long fiber optic cable.

The DL1600 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 DL1600 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 DL1600 satisfies very critical applications requiring high quality video performance with high reliability.

Applications include Broadcast Video Production, Video Editing, Unmanned Aircraft Vehicle Days & Nights Monitoring Systems, ITS Intelligent Traffic System, Metro & Railroad Monitoring System, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring HD quality video performance.



Features

- 16 Channels High Quality Digital Broadcast Video Transmission System
- Single Mode Fiber With CWDM Technology
- Real Time High 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
- AGC Single mode Transmission of 0 to 50 Km
- 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 Center
- METRO Security System
- Unmanned Aircraft Video System
- Oil & Gas Perimeter Intruder Detection
- Military Applications
- Premise Networks
- Any High Quality Video Requirement

Order Information

| Model | Descriptions |
|-------------|--|
| DL1600TST05 | 16 Channels 3G HD SDI Video (Tx) Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC |
| DL1600RST05 | 16 Channels 3G HD SDI Video (Rx) Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC |

*** add -422 for RS-422 Interfaces***

Specifications

System:

| | |
|------------|---------------------------------|
| Error Rate | 1 in 10 ¹² or Better |
| Indicators | PWR, CH1 .. CH16 |

Optical:

| | |
|--------------|---------------|
| Transmitter | CWDM Lasers |
| Tx | 1310nm~1610nm |
| Receiver | PIN |
| Rx | 1310nm~1610nm |
| Power Budget | 20 dB @ SM |
| Connector | ST |

Environment:

| | |
|-----------|---|
| Operating | -34 ^o C to +74 ^o C |
| Storage | -40 ^o C to + 95 ^o C |
| Humidity | 98% Non-Condensing |

3G HD-SDI Video Interface:

| | |
|--------------------|---|
| Channel | 16 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 1920 x 1080P @ 50/60fps |
| Signal Level | 800mVp-p +/-10% |
| Connector | BNC |
| Impedance | 75 Ohms |

Physical:

| | |
|------------|-------------------|
| Dimensions | 19" x 10" x 1.75" |
| Weight | 10 lbs |

Power:

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

Application

