



# Vi-Link

Fiber Optic Communications

## 16 Channels High Quality 3G HD-SDI Broadcast Video and 10GB Ethernet Link Over One Single Mode Fiber

HDTV Equipment Series

Model DL1625



### Product Description

**Vi-Link HD SDI Video equipment:** The DL1625 is a fiber optic digital multiplexer that designed to transmit up to 16 channels of high quality uncompressed digital 3G HD SDI video signals and 10GB Ethernet 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 DL1625 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 10GB 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 DL1625 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 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 DL1625 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 Digital Broadcast Video Transmission
- 10GB Ethernet Link
- 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 IEEE802.3, IEEE802.3u, IEEE802.3ab standard
- Auto-detection of half/full duplex transfer mode
- Auto-negotiation of 10/100/1000 Mbps rate and Auto-MDI/MDIX for TX
- 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

### Ordering Information

Model	Descriptions
DL1625TST05	16 Channels 3G HD SDI Video (Tx) and 1 x 10GB Ethernet Link Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC
DL1625RST05	16 Channels 3G HD SDI Video (Rx) and 1 x 10GB Ethernet Link Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC

\*\*\* Please Consult Factory for Additional Model Numbers\*\*\*



## HDTV Equipment Series

Model DL1625

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	Power, Video, Ethernet
<b>Optical:</b>	
Transmitter	CWDM Lasers
Tx	1290nm~1610nm
Rx	1270nm
Receiver	PIN
Tx	1270nm
Rx	1290nm~1610nm
Power Budget	20 dB @ SM
Connector	ST
<b>Environment:</b>	
Operating	-34 <sup>0</sup> C to +74 <sup>0</sup> C
Storage	-40 <sup>0</sup> C to + 95 <sup>0</sup> C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Dimensions	19" x 10" x 1.75"
Weight	7 lbs
<b>Power:</b>	
AC	90~240 VAC @ 0.5Amp 50/60Hz
DC	+24 VDC, +28VDC, -48 VDC

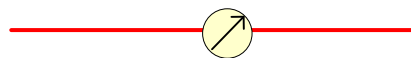
<b>3G HD-SDI Video Interface:</b>	
Channel	16 x 3G HD-SDI
Format	SMPTE 259M, 292M and 424M
Speed	143M~540M, 1.485GB~2.97 GB
Full HD Revolution	1280 x 720P @ 50/60fps 1920 x 1080P @ 50/60fps
Signal Level	800mVp-p +/-10%
Connector	BNC
Impedance	75 Ohms
<b>10/100/1000M Ethernet Interface:</b>	
Channel	1
Data Rate	100/1000/10000 Mbps
TX Port	Auto Negotiation MDI/MDIX
Network Standard	IEEE802.3 10BaseT IEEE802.3u 100Base TX/FX IEEE802.3ab 1000Base TX IEEE802.3z FX
Support	Cut Through Frame and Data forwarding with low latency. Flow control half/full duplex operation.
Build-in Buffer	128 Kbytes
Support	512 bits collision-free packet
	VLAN, Tag VLAN, MTU. MPLS, PPPOE
Indicators	100M, Link, Act, SD, FXD, Pwr

# Application

## Remote Traffic Intersection



Up to 50 Km SM



## Traffic Control Center



**Typical DL1625T & DL1625R  
In Traffic Control Application**