

8 Channels High Quality 3G HD-SDI Broadcast Video and 10 Gigabits Ethernet Link **Over One Single Mode Fiber**

HDTV Equipment Series

Model DL825



Product Description

Vi-Link HD SDI Video equipment: The DL825 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 10 GB 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 DL825 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 10 GB 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 DL825 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 DL825 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

- 8 Channels Digital Broadcast Video Transmission
- 1 x 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 100/1000/10000 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	l Descriptions
DL825TST05	8 Channels 3G HD SDI Video (Tx) and 1 x 10GB Ethernet Link Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC
DL825RST05	8 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***



Technical Specifications

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System:				
Error Rate	1 in 10 ¹² or Better			
Indicators	Pwr, Video, Ethernet			
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° C to +74°C			
Storage	-40° C to + 95°C			
Humidity	98% Non-Condensing			
Physical:				
Dimensions	19" x 10" x 1.75"			
Weight	7 lbs			
Power:				
AC	90~240 VAC @ 0.5Amp 50/60Hz			
DC	+24 VDC, +28VDC, -48 VDC			

3G HD-SDI Video Interface:			
Channel	8 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		
10/100/1000M Ethernet Interface:			
Channel	1		
TX Port	Auto Negotiation MDI/MDIX		
Data Rate	100/1000/10000 Mbps		
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



Typical DL825T & DL820R **In Traffic Control Application**

Traffic Control Center

