



Overview

The VILINK DL840 is a Fiber Optic Digital Multiplexer for transmitting 8 channels of 3G HD/SD SDI digital video, stereo audio and bi-directional data over one fiber optic cable. This product allows the users the ability to encode these signals, multiplex, and transmit bi-directionally via one single mode fiber optic cable.

The DL840 Series is compatible with SMPTE-424M, SMPTE-344M, SMPTE-292M HD-SDI and SMPTE-259M SDI serial digital signal with up to 2.97 Gbps data rate over long distance single mode fiber optic cable. It also supports DVB—ASI at 270 Mbps and many other video formats.

The DL840 series offers a fully serial digital video encoding/decoding of uncompressed real time video providing adjustment free operation over a wide operational range. Using AGC and 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. Digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

Applications include broadcast video production, video editing, ITS Intelligent Traffic System, Metro System, Railroad System, Oil & Gas Monitoring, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring HD quality video performance.

Features

- 8 3G HD/SD SDI Digital Video
- 8 Stereo Audio or 8 Mono Audio Channels
- 8 Bi-directional RS-232/RS-422 Control Data
- Real Time Digital Video Transmission
- Data Rate up to 2.97 Mbps
- Full HD 1080p Revolution
- Supports SMPTE 259M, 292M, 344M and 424M
- Optical CWDM Technology
- AGC Single mode Transmission of 0 to 50 Km
- 1 RU Rack Mountable
- NEMA Temperature

Applications

- Studio Video Broadcasting
- ITS Traffic HD Video Applications
- Long Distance HD CCTV application
- Metro and Railroads
- Utility System
- Military Applications
- Premise Networks
- Any High Quality HD Video Requirement

Ordering Information

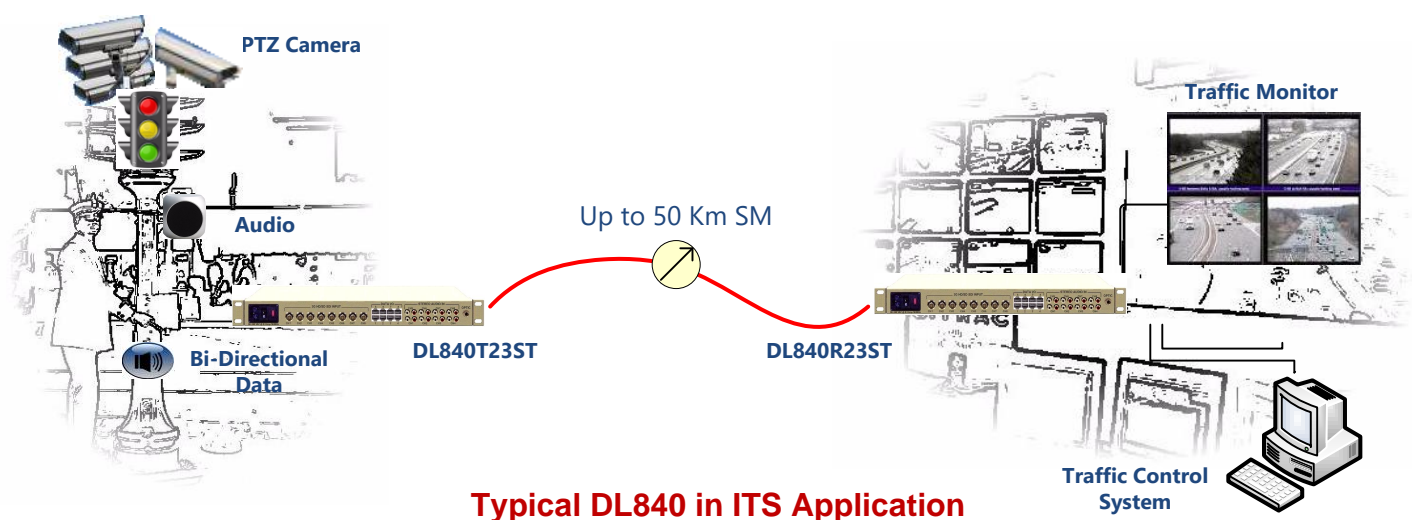
Model	Descriptions
DL840T23ST	FO 4-Ch 3G HD/SD SDI Digital Video, Stereo Audio Transmitter, Bi-Directional RS-232, SM ST, 50Km, 90~240 VAC
DL840R23ST	FO 4-Ch 3G HD/SD SDI Digital Video, Stereo Audio Receiver, Bi-Directional RS-232, SM ST, 50Km, 90~240 VAC

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

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR. Links
Optical:	
Transmitter	CWDM Lasers
Tx	1470/1490/1510/1530/1550nm
Rx	1310nm
Receiver	PIN
Tx	1310nm
Rx	1470nm~1550nm
Power Budget	20 dB @ SM
Connector	ST, FC, SC
Environment:	
Operating	-34 ⁰ C to +74 ⁰ C
Storage	-40 ⁰ C to + 95 ⁰ C
Humidity	98% Non-Condensing
Physical:	
Dimensions	19" x 10" x 1.75"
Weight	5 lbs
Power:	
Rackmountable	90~240 VAC

HD-SDI Video Interface:	
Channel	8 x 3G HD-SDI
Format	SMPTE 259M, 292M, 344M, 424M
Speed	Up to 2.97 Gbps
Full HD Revolution	1280 x 720P @ 50/60fps 1920 x 1080P @ 50/60fps
Signal Level	800mVp-p +/-10%
Connectors	BNC
Impedance	75 Ohms
Indicators	Video TX1, TX2, TX3, TX4
Audio Interface:	
Channel	8 Stereo audio / 8 Mono Audio
Audio Input	Unbalanced
Signal Level	1 Vp-p
Impedance	600 Ohms
Freq. Response	10 Hz to 20 KHz
Signal/Noise Ratio	> 70 dB (Weighted)
Connectors	Banana Jacks
Data Interface:	
Channel	8
Speed	DC to 19.2 Kbps per Channel
Format	RS-232 / RS-422
Connector	RJ45

Application



Typical DL840 in ITS Application