

16 Channels 36 HD-SDI Broadcast Video with 10/100/1000M Ethernet Link Over One Fiber

DL1620

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DL Series

Overview

Vi-Link HD SDI Video equipment: The DL1620 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 10/100/1000M 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 DL1620 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 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 DL1620 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 backto-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 DL1620 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 Video Transmission
- 1 x 10/100/1000M Ethernet Link
- Single Mode Fiber With CWDM Technology
- Real Time 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
 - 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 port
- 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
DL1620TST05	16 Channels 3G HD SDI Video (Tx) and 10/100/1000M Ethernet Link Over FiberCWDM, SM ST, 50Km, 90~240 VAC
DL1620RST05	16 Channels 3G HD SDI Video (Rx) and 10/100/1000M Ethernet Link Over Fiber CWDM, SM ST, 50Km, 90~240 VAC

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Technical Specifications



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Specifications

System:		3G HD-SDI Video Interface:	
Error Rate	1 in 10 ¹² or Better	Channel	16 x 3G HD-SDI
Indicators	Power, Video, Ethernet	Format	SMPTE 259M, 292M and 424M
Optical:		Speed	143M~540M, 1.485GB~2.97 GB
Transmitter	CWDM Lasers	Full HD Revolution	1280 x 720P @ 50/60fps
Tx	1290nm~1610nm		1920 x 1080P @ 50/60fps
Rx	1270nm	Signal Level	800mVp-p +/-10%
Receiver	PIN	Connector	BNC
Tx	1270nm	Impedance	75 Ohms
Rx	1290nm~1610nm	10/100/1000M Ethernet Interface:	
Power Budget	20 dB @ SM	Channel	1
Connector	ST	Data Rate	10/100/1000 Mbps
Environment:		TX Port	Auto Negotiation MDI/MDIX
Operating	-34° C to +74°C	Network Standard	IEEE802.3 10BaseT IEEE802.3u 100Base TX/FX IEEE802.3ab 1000Base TX IEEE802.3z FX
Storage	-40°C to + 95°C		
Humidity	98% Non-Condensing		
Physical:		Support	Cut Through Frame and Data
Dimensions	19" x 10" x 1.75"		forwarding with low latency. Flow control half/full duplex operation.
Weight	7 lbs		
Power:		Build-in Buffer	128 Kbytes
AC	90~240 VAC @ 0.5Amp 50/60Hz	Support	512 bits collision-free packet
DC	+24 VDC, +28VDC, -48 VDC		VLAN, Tag VLAN, MTU. MPLS, PPPOE
	· 24 VDC, · 20VDC, 40 VDC	Indicators	100M, Link, Act, SD. FXD, Pwr

Application

