ML32D SERIES

32 Channel Uncompressed Digital Video with Stereo Audio and Bi-directional Data Fiber Optic Multiplexer Plus+ NMS

Overview

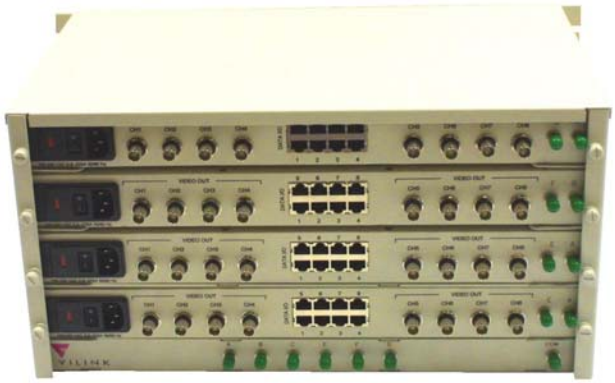
The VILINK ML32D is a Fiber Optic Digital Multiplexer for transmitting 32 channels of video, 32 channels of stereo audio, and/or 32 channels of data over a fiber optic cable. It allows the users the ability to encode these signals, multiplex, and transmit bi-directionally over one single mode fiber optic cable. This robust transmission platform additionally offers a full (NMS) monitoring capability at each node.

The ML32D Series is compatible with NTSC (medium haul), PAL and CCIR video and standard data interfaces such as RS-232 and RS-422. The VILINK 2/4/8/16/24/32/40/64 channel multiplexers may functionally be cascaded to bring together and deliver, as many as 8 individual source locations. Long transmission distances are easily accommodated because each node becomes a repeater point for the digital signal, allowing for vast overall transmission considerations.

The ML32D series use of uncompressed analog to digital modulation techniques and CWDM technology provide for adjustment free operation over a wide dynamic range. Digital signal offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

The ML32D series may be further maintained with the optional VILINK *Plus+ (NMS) Network Management & (GUI) Interface Software* Package. This permits any users the ability of monitoring the entire system for status alarms, such as loss of signal or optical signal, on any one of the system channels.

Applications for the ML Series include video conferencing, long haul CCTV, campus fiber networks, traffic surveillance, SCADA systems, and military applications.



Features

- *Multiplex Video, Audio, and Data*
- *Compatible with NTSC, RS-170. PAL, and CCIR Video-Formats*
- *Adjustment Free Uncompressed Digital Transmission up to 50 Km*
- *100% Protocol Independent I/O*
- *NMS (GUI) Monitor Package*
- *TCP/IP and SNMP Software Package Option*

Applications

- *Long Distance CCTV*
- *Video Conferencing*
- *Traffic Surveillance*
- *Railway System Surveillance*
- *Leased Fiber Network*
- *Utility SCADA Network*

Ordering Information:

Model	Description
ML32DVTST55	32-Channel Video Transmitter, 1350nm SM, ST.
ML32DVRST55	32-Channel Video, Receiver, 1550nm SM, ST.
ML32DVATST55	32-Channel Video, Stereo Audio Transmitter, 1550nm SM, ST.
ML32DVARST55	32-Channel Video, Stereo Audio Receiver, 1550nm SM, ST.
ML32DVTB2353	32-Channel Video Transmitter and 32 Bi-directional RS-232 1550/1310nm SM, ST.
ML32DVRB2335	32-Channel Video Receiver and 32 Bi-directional RS-232 1310/1550nm SM, ST.

** Please consult factory for additional models and specifications*

VILINK

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Specifications

System:

Error Rate	1 in 10^9 or Better
NMS (Option)	GUI RS-232 ports
Indicators	PWR, LINK
NMS Connector	RJ12

Optical:

Transmitter	Laser: 1510/1530/1550/1570nm 1300/1325/1350/1375nm
Receiver	PIN
Power Budget	20 dB SM
Connectors	ST, FC, SC

Environment:

Operating	-34^0C to 74^0 C
Storage	-40^0C to 95^0 C
Humidity	98% Non-Condensing

Physical:

Dimensions	19” x 8.75” x 10”

Power:

Stand alone	90-240 VAC / 47-63 Hz

Video:

Channel	32
Format	NTSC, RS-250C, PAL, CCIR
Signal Level	1 Vp-p
Video Digitization	8 bits, 13 Mega Samples
Bandwidth	6.5 MHz
Differential Gain	<2 %
Differential Phase	$<1.3^0$
SNR	> 60 dB (weighted)
Connector	BNC

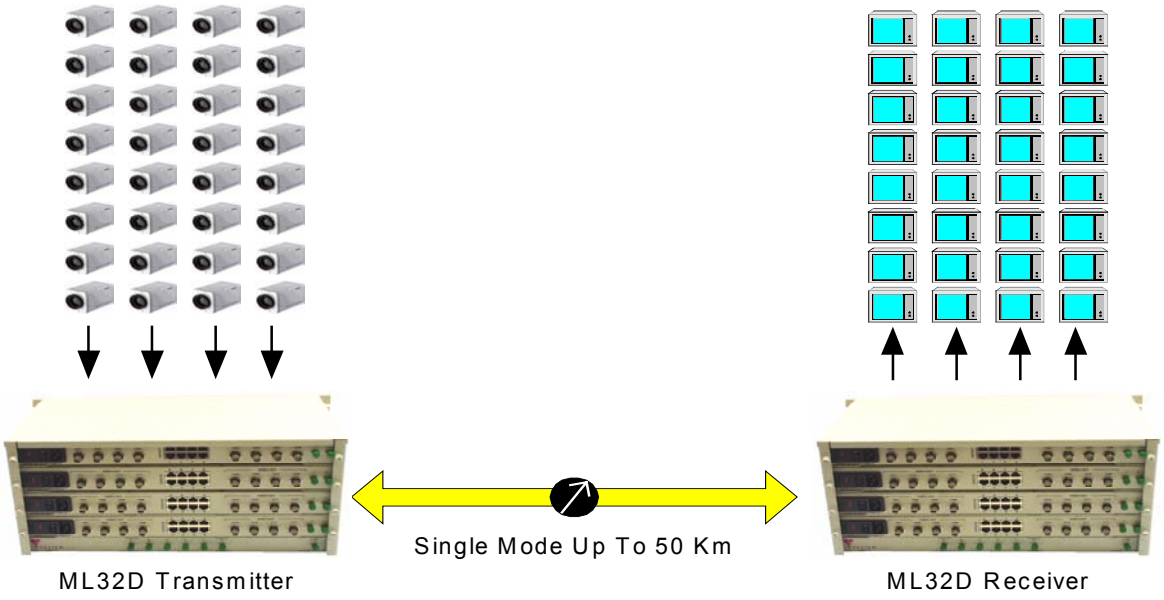
Audio:

Channel	32 Stereo
Audio Input	Unbalanced
Impedance	600 Ohms
Freq. Response	10 Hz to 20 Khz
SNR	>70 dB Weight
Connectors	Terminal Blocks

Data:

Channel	32
Rate	19.2 Kbps per Channel
Format	RS-232, RS-422
Connector	RJ45

Example Applications



Typical ML32D Video/Audio Bi-directional Data Transmitter/Receiver Pair Application