

## Overview

The VILINK ML8E is a Fiber Optic Digital Multiplexer for transmitting 8 channels of video, 8 channels of stereo audio, 8 channels of data and 1 channel of 10/100M Ethernet over 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 ML8E Series is compatible with NTSC (medium haul), PAL and CCIR video and standard data interfaces such as RS-232 and RS-422. Ethernet channel supports 10/100M auto sensing MDI/MDIX, half/full duplex 10/100 Mbps.

The ML8E series use of uncompressed analog to digital modulation techniques and CWDM lasers technology provides for adjustment free operation over a wide dynamic range. Digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

The ML8E 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 conference, long haul CCTV, campus fiber networks, traffic surveillance, homeland security, SCADA systems, and military applications.



## Features

- Multiplex Video, Audio, Data and Ethernet
- Compatible with NTSC, RS-170, RS-250C, PAL, and CCIR Video-Formats
- Fully Compliant with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX standard
- Adjustment Free Uncompressed
- Digital Transmission up to 50 Km
- 100% Protocol Independent I/O

## Applications

- Long Distance CCTV
- ITS Traffic Network
- Homeland Security
- Metro Transportation
- Utility SCADA

## Ordering Information

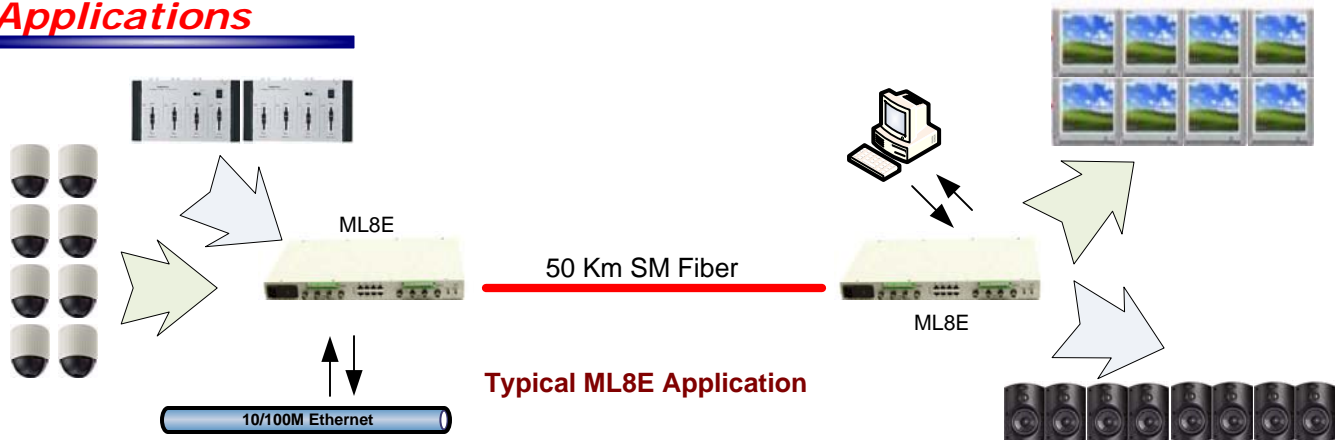
Model	Descriptions
ML8EVATB22ST35	8-Ch Video Tx, Stereo Audio, Bi-dir RS-422 Data, 10/100M Ethernet, CWDM SM, ST, 90-240 VAC
ML8EVARB22ST53	8-Ch Video Tx, Stereo Audio, Bi-dir RS-422 Data, 10/100M Ethernet, CWDM SM, ST, 90-240 VAC
<small>*** Please Consult Factory for Additional Model Numbers***</small>	

### Specifications

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
NMS (Option)	GUI RS-232 Ports
Indicators	PWR, Link, Data
<b>Optical:</b>	
Transmitter	CWDM Laser
Receiver	PIN
Wavelength	1310/1490/1550 nm
Power Budget	20 dB @ SM
Connector	ST, FC, SC
<b>Environment:</b>	
Operating	-34° C to +74° C
Storage	-40° C to + 95° C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Dimensions	19" x 1.75" x 10" (1RU)
Weight	5 lbs.
<b>Power:</b>	
Tx/Rx	90-240 VAC / 47-63 Hz
<b>Ethernet Interface:</b>	
Channel	1
Speed	10/100M
Format	IEEE 802.3
Connector	RJ45

<b>Video Interface:</b>	
Channel	8
Format	NTSC, PAL, RS-250C, CCIR
Signal Level	1 Vp-p
Impedance	75 Ohms
Video Digitization	8 Bits, 14 Mega Samples
Bandwidth	6.5 Mhz
Differential Gain	< 2%
Differential Phase	< 1.3°
Signal/Noise Ratio	> 65 dB (Weighted)
Connector	BNC
<b>Audio Interface:</b>	
Channel	8 Stereo / 16 Mono
Audio Input	Unbalanced
Signal Level	1 Vp-p
Impedance	600 Ohms
Freq. Response	10 Hz to 20 Khz
Signal/Noise Ratio	> 70 dB (Weighted)
Connector	Terminal Blocks
<b>Data Interface:</b>	
Channel	8
Speed	DC to 19.2 Kbps per Channel
Format	RS-232 / RS-422
Connector	RJ45 (Block of 8)

### Applications



Typical ML8E Application

