



Overview

The VILINK ML1E is a Fiber Optic Digital Multiplexer for transmitting 1 channel of video, stereo audio, bi-directional data and 10/100M Ethernet over 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 ML1E 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 10/00M auto sensing MDI/MDIX, haft/full duplex 10/100 Mbps.

The ML1E 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 ML1E 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

- Uncompressed Video, Stereo Audio
- Real Time Digital Video Transmission
- Bi-Directional RS-232/RS422
- 10/100M Ethernet Channel
- Fully Compliant with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX standard
- Auto-negotiation of 10/100 Mbps rate and Auto-MDI/MDIX for TX port
- AGC Single mode Transmission of 0 to 50 Km
- 1 RU Rack Mountable
- NEMA Temperature

Applications

- ITS Traffic Applications
- Long Distance CCTV/PTZ
- Homeland Security
- Utility System
- Military Applications
- Premise Networks
- Any High Quality Video Requirement

Ordering Information

Model	Descriptions
ML1EVATB23ST35	FO 1-Ch Uncompressed Video, Stereo Audio Transmitter, Bi-Directional RS-232, 10/100M Ethernet, SM ST, 50Km, 90~240 VAC
ML1EVARB23ST53	FO 1-Ch Uncompressed Video, Stereo Audio Receiver, Bi-Directional RS-232, 10/100M Ethernet, SM ST, 50Km, 90~240 VAC

Please Consult Factory for Additional Model Numbers

CCTV Equipment Series

Model ML1E

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

Video Interface:	
Channel	1
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 ^o
Signal/Noise Ratio	> 65 dB (Weighted)
Connector	BNC
Audio Interface:	
Channel	1 Stereo / 2 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
Data Interface:	
Channel	1
Speed	DC to 19.2 Kbps per Channel
Format	RS-232 / RS-422
Connector	RJ45

Application

