



1 Channel Uncompressed Analog Video with Stereo Audio, Bi-Directional Data And 10/100/1000M Ethernet Link

ML1E

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ML Series

Overview

The ML1E is a Fiber Optic Digital Multiplexer for transmitting 1 channels of video, 1 channels of stereo audio, 1 channels of bi-directional data and 1 channel of 10/100/1000M 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.

The ML1E Series is compatible with NTSC (medium haul), PAL and CCIR video, stereo audio and standard data interfaces RS-232 or RS-422. Ethernet channel supports 10/100/1000M auto sensing MDI/MDIX, half/full duplex 10/100/1000 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.

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*
- *NEMA Temperature*

Applications

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

Order Information

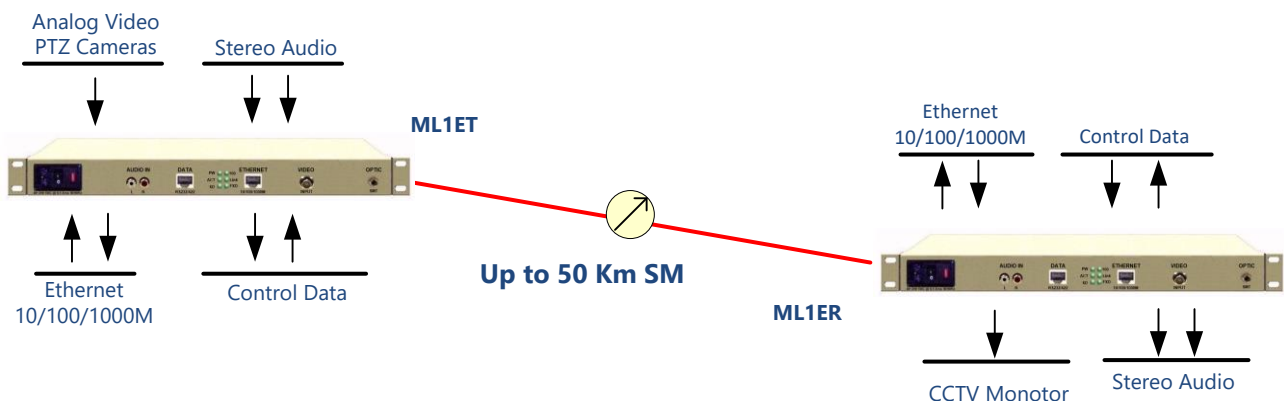
Model	Descriptions
ML1ETVAB22ST35	1 Channel Analog Video (Tx), St-Audio, Bi-Direct Data and GB Ethernet Link Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC
ML1EVATB22ST53	1 Channel Analog Video (Rx), St-Audio, Bi-Direct Data and GB Ethernet Link Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC

Specifications

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	Pwr, Video, Audio, Data, Ethernet
Optical:	
Transmitter	CWDM Lasers
Tx	1470nm~1530nm
Rx	1470nm
Receiver	PIN
Tx	1470nm
Rx	1470nm~1530nm
Power Budget	20 dB @ SM
Connector	ST
10/100/1000M Ethernet Interface:	
Channel	1
Network Standard	IEEE802.3u 100Base TX/FX IEEE802.3ab 1000Base TX
Build-in Buffer	128 Kbytes
Auto Re-connect	512 bits collision-free packet
Support	VLAN, Tag VLAN, MTU, MPLS, PPPOE
Environment:	
Operating	-34 ^o C to +74 ^o C
Storage	-40 ^o C to + 95 ^o C
Humidity	98% Non-Condensing
Power:	
AC	90~240 VAC @ 0.5Amp 50/60Hz

Analog 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
Stereo Audio Interface:	
Channel	1
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	Banana Jack
Data Interface:	
Channel	1
Speed	DC to 115 Kbps per Channel
Format	RS-232 / RS-422
Connector	RJ45
Physical:	
Dimensions	19" x 10" x 1.75"
Weight	7 lbs

Application



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