



POINT-TO-POINT MULTICHANNEL VIDEO LINK

- **Point-to-Point Link for Multichannel Video**
- **Distances of up to 30 miles (50 Kms)**
- **Transports From One to thirty one TV channels**
- **Standard in the 2.5-2.7 GHz Band**
- **Other Frequencies available on request**

PRODUCT APPLICATION:

The MULTILINK family of products is a family of multichannel video links designed to transport from one to thirty one high quality video channels modulated as adjacent channels in the VHF frequency range of 222 to 408 MHz.

The standard band of operation is in the 2,500 to 2,686 MHz band, but other bands up to 28 GHz are available. At the standard band the system can be used at line-of-sight distances of up to 30 miles (50 Kilometers), depending on options such as output power and antenna size.

Each point-to-point link includes two parabolic dish antennas, one at the transmitter site and one at the receiver site, which provide a directional link with maximum rejection of external interference.

It is also possible to feed two receive sites from only one transmitter. This is done by splitting the transmitter power in two so that it can feed two different transmit antennas.

The MULTILINK transmitter accepts NTSC or PAL modulated video inputs in the range of 222 to 408 MHz and delivers the same frequency range at the other end. Other input/output frequencies are available on request.

A typical Multilink configuration, Model number ML2.5-304II includes two antennas of 4 feet (1.2meter) diameter, an indoor 30 Watt transmitter, an indoor receiver and 30 meters of interconnecting cables at each end. For longer paths, higher power transmitters and higher gain antennas are available.

The transmitter and receiver are powered by 100 to 240 VAC, 50/60 Hz. Other powering options are available.

Product Specification¹

CABLE AML

MULTILINK Model ML2.5-XXYZZ

Link Specifications	
Distance:	1 to 30 Miles (1 to 50 Kms), Depending on Options
Carrier to Noise Ratio:	48 dB
Carrier to CTB Ratio:	57 dB for 31 Channels
Antenna Diameter:	From 1.2 to 2.4 Meters Depending on Options
Interconnecting Cable:	33 Meters of Foam Dielectric 7/8" Cable
Transmitter Specification ¹	
Frequency Range ² :	2500 to 2686 MHz
Frequency Stability:	± 10 kHz
Video Input Frequency ² :	222 to 408 MHz
Transmitter Power:	P 1dB of 10, 30, 50 and 100 Watt
Local Oscillator Frequency:	2278 MHz
Receiver Specifications ¹	
Receiver Noise Figure:	3 dB
Receiver RF/IF Gain:	27 dB
Local Oscillator Frequency:	2278 MHz
Frequency Stability:	± 10 kHz
IF Output Frequency ² :	222 to 408 MHz

¹ Specifications subject to change without prior notice.

² Other Frequencies available on Request

Multilink Model	Antennas' Size	Pout/Channel (dBm/Channel)	Link Length (Km)
ML2.5-10-4II	4'	7.2	4.4
ML2.5-10-4IE	4'	7.2	5.6
ML2.5-10-6II	6'	7.2	9.8
ML2.5-10-6IE	6'	7.2	12.5
ML2.5-30-4II	4'	12.0	7.6
ML2.5-30-4IE	4'	12.0	9.8
ML2.5-30-6II	6'	12.0	16.9
ML2.5-30-6IE	6'	12.0	21.5
ML2.5-50-4II	4'	14.2	9.8
ML2.5-50-4IE	4'	14.2	12.5
ML2.5-50-6II	6'	14.2	21.6
ML2.5-50-6IE	6'	14.2	27.5
ML2.5-50-8II	8'	14.2	37.7
ML2.5-50-8IE	8'	14.2	47.8
ML2.5-100-4II	4'	17.2	13.8
ML2.5-100-4IE	4'	17.2	17.6
ML2.5-100-6II	6'	17.2	30.2
ML2.5-100-6IE	6'	17.2	38.4
ML2.5-100-8II	8'	17.2	52.4
ML2.5-100-8IE	8	17.2	66.2