

Ogier Electronics Two Channel ML500-2-60 Links

The Two Channel ML500-2-60 can transmit 2 video channels together with 2 channels of data or audio. The designator 60 indicates the antenna size in cm

Number of video channels	2 in one direction
Number of data or audio channels	2 in both directions as standard
Frequency band	4.4 to 5.0 GHz
Frequency stability	Phase locked to 30 ppm
Range - all weathers	60 km
Availability	99.95% (UK conditions)
Antenna type (both ends)	High performance Parabola
Antenna size (both ends)	60 cm diameter
Antenna gain (both ends)	26 dBi
Transmit power	24 dBm shared between the channels
Transmit EIRP	50 dBm typical
Polarisation	Vertical
Receiver Noise Figure	4 dB
Carrier to Noise	18 dB
Signal to Noise	50 dB
Carrier to Interference	30 dB
Modulation	Wideband FM, 10.5 MHz deviation
Pre-emphasis	Compliant with CCIR Rec 405-1
Tuner bandwidth	27 MHz
Video inputs/outputs	PAL or NTSC 5.6 MHz 1Volt 75 ohm
Video Quality	6% Differential Gain 6 Deg Differential Phase 6% Bar Amplitude Error 6% C/L Gain Inequality 6% C/L Intermodulation 75 nS C/L Delay 6% Bar Tilt 2% 2T K 6% 2T P/B
Video Encryption option	Line cut and rotate
Data inputs/outputs	Either, RS 485, 422 or 232 at 19.2 kbps Simplex, half duplex or full duplex. Other options available
Audio option (instead of data)	0 dBm in 600 Ohms balanced or unbalanced
Audio frequency response	50 to 10,000 Hz +/-3dB
Audio Signal to Noise	50 dB
Audio harmonic distortion	5% at 1 kHz and 0 dBm
Input voltage	12 or 24 Volts DC
Input power	25 Watts each end
Temperature Range	-20 to +60 C
Wind	Up to 200 kph
Equipment	Antenna, Transmit Transceiver and Modulator at video transmit end. Antenna, Receive Transceiver and Demodulator at video receive end
Dimensions	Antenna 60cm x 60cm x 60 cm Transceiver 26 x 26 x 23 cm Modulator/Demodulator 50 x 40 x 22 cm
Connections	Power and Data/Audio Terminal connectors in Modulator and Demodulator Units Video BNC connectors in Modulator and Demodulator Units 2 CT100 cables from each Modulator or Demodulator to its corresponding Transceiver N Type from each Transceiver to the Antenna
Life	15 Years
Routine maintenance	None required
Weight	Antenna 16 kg Transceiver 8 kg Modulator / Demodulator Up to 25 kg
Mounting	Antenna and Transceiver 75 to 110 mm dia vertical pole Modulator / Demodulator Wall
RF Hazard	None (< 0.4 mW/sqcm average at antenna)