

Ogier Electronics Multichannel ML500-120 Links

The Multichannel ML500-120 can transmit up to 16 video channels together with data or audio. The designator 120 indicates the antenna size in cm

Number of video channels	Up to 16 in one direction
Number of data or audio channels	1 in both directions as standard. Others can be added as options
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)	120 cm diameter
Antenna gain (both ends)	32 dBi
Transmit power	24 dBm shared between the channels
Transmit EIRP	56 dBm typical
Polarisation	Up to 8 chs Vertical or horizontal Up to 16 chs Vertical and horizontal
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	100 - 250 Volts AC, 50 - 60 Hz
Input power	80 Watts each end
Temperature Range	-20 to +60 C
Wind	Up to 200 kph
Equipment	Up to 8 chs Antenna, Transmit Transceiver and Modulator at video transmit end. Antenna, Receive Transceiver and Demodulator at video receive end Up to 16 chs Duplication of 8 channel build except for Antennas
Dimensions	Antenna 120x 120 x 120 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 60 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)