

Ogier Electronics Two Channel Split Configuration ML500-2-30 Links

The Split configuration ML500-2-30 is a two video channel link comprising two units at either end. The designator 30 indicates the antenna size in cm

Number of video channels	2 in one direction
Number of data or audio channels	1 in both directions with 1 optional extra channel
Frequency band	4.4 to 5.0 GHz
Frequency stability	Phase locked to 30 ppm
Range - all weathers	15 km
Availability	99.95% (UK conditions)
Antenna type (both ends)	High gain Lens Horn
Antenna size (both ends)	30 cm diameter
Antenna gain (both ends)	21 dBi
Transmit power	24 dBm shared between 2 channels
Transmit EIRP	45 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	100 - 250 Volts AC, 50 - 60 Hz
Input power	30 Watts each end
Temperature Range	-20 to +60 C
Wind	Up to 200 kph
Equipment	Transmit Transceiver and Modulator Base Unit at video transmit end. Receive Transceiver and Demodulator Base Unit at video receive end
Dimensions	Transceiver 44 x 36 x 33 cm Base Unit 29 x 26 x 14 cm
Connections	Power Terminal connectors in Base Units Video BNC connectors in Base Units Data/Audio Terminal connectors in Base Units 2 CT100 cables from Base Units to Transceivers
Life	15 Years
Routine maintenance	None required
Weight	Transceiver 14 kg Base Unit 8 kg
Mounting	Transceiver Horizontal plate with M10 stud and M8 locking nut and bolt Base Unit Wall
RF Hazard	None (< 0.4 mW/sqcm average at antenna)