

Ogier Electronics Two Channel Split Configuration ML3100-HP-2 Links

The Split configuration ML3100-HP-2 is a two video channel link comprising two units at either end. The designators 30 or 60 indicate the antenna size in cm and HP indicates that high power transmitters are included to increase the range

Regulatory compliance	ETSI EN 300 632 and MPT 1425
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	31.0 to 31.8 GHz
Frequency stability	Phase locked to 30 ppm
Range - all weathers	ML3100-HP-2-30 10 km ML3100-HP-2-60 20 km
Availability	99.95% (UK conditions)
Antenna type (both ends)	Low sidelobe high performance Parabola
Antenna size (both ends)	ML3100-HP-2-30 30 cm diameter ML3100-HP-2-60 60 cm diameter
Antenna gain (both ends)	ML3100-HP-2-30 36 dBi ML3100-HP-2-60 42 dBi
Transmit power	0 to +15 dBm shared between 2 channels
Transmit EIRP	ML3100-HP-2-30 51 dBm typical ML3100-HP-2-60 57 dBm typical
Polarisation	Vertical or horizontal
Receiver Noise Figure	6 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
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	ML3100-HP-2-30 Transceiver 30 cm dia x 41 cm ML3100-HP-2-60 Transceiver 66 cm dia x 80 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
Life	2 CT100 cables from Base Units to Transceivers 15 Years
Routine maintenance	None required
Weight	ML3100-HP-2-30 Transceiver 16 kg ML3100-HP-2-60 Transceiver 42 kg Base Unit 9 kg
Mounting	Transceiver 75 to 110 mm dia vertical pole Base Unit Wall
RF Hazard	None (< 0.05 mW/sqcm average at antenna)