

Ogier Electronics Two Channel Compact ML3100-C2 Links

The ML3100-C2 is a compact two video channel link with a number of data and audio options. The designator 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-C2	2.4 km
	ML3100-HP-C2	4.0 km
Availability	99.95% (UK conditions)	
Antenna type (both ends)	High gain Lens Horn	
Antenna size (both ends)	15 cm diameter	
Antenna gain (both ends)	32 dBi	
Transmit power	0 to +15 dBm dBm shared between 2 channels	
Transmit EIRP	ML3100-C2	32 dBm typical
	ML3100-HP-C2	47 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	35 Watts each end	
Temperature Range	-20 to +60 C	
Wind	Up to 200 kph	
Dimensions	20 x 20 x 40 cm	
Connections	Power	Terminal connectors
	Video	BNC connectors
	Data or audio	Terminal connectors
Life	15 Years	
Routine maintenance	None required	
Weight	9.5 kg	
Mounting	Horizontal plate with M10 stud and M8 locking	
RF Hazard	None (< 0.2 mW/sqcm average at antenna)	

January 2003 - Ogier Electronics reserve the right to alter this Specification without notification