

## Ogier Electronics Multichannel ML3100-SEC Links

The Multichannel ML3100-SEC can receive up to 15 video channels together with data or audio from transmitters located over a 90 degree sector. It can transmit data and audio in the reverse direction.

Regulatory compliance	ETSI EN 300 632 and MPT 1425	
Number of video channels	Up to 15	
Number of data or audio channels	1 in both directions as standard. Others can be added as options	
Frequency band	31.0 to 31.8 GHz	
Frequency stability	Phase locked to 30 ppm	
Range - all weathers	2 km North West Europe with SL3100-HP-SC transmitters 4 km Middle East with SL3100-HP-SC transmitters	
Availability	99.95%	
Antenna type	16 patch planar array	
Antenna size	15 x 5 cm active area	
Antenna gain	19 dBi	
Transmit power	0 to +15 dBm	
Transmit EIRP	Up to 34 dBi	
Polarisation	Up to 8 channels	Vertical
	Up to 15 channels	Vertical and 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	
Temperature Range	-20 to +60 C	
Wind	Up to 200 kph	
Equipment	Up to 8 chs	Receive Transceiver and Demodulator at video receive end
	Up to 15 chs	As above with additional Demodulator
Dimensions	Transceiver	40 x 40 x 41 cm
	Demodulator	50 x 40 x 22 cm
	Connections	Power and Data/Audio Terminal connectors in Demodulator Unit
	Video	BNC connectors in Demodulator Unit 2 CT100 cables from Transceiver to Demodulator
Life	15 Years	
Routine maintenance	None required	
Weight	Transceiver	15.5 kg
	Demodulator	Up to 25 kg
Mounting	Transceivers	75 to 110 mm dia vertical pole
	Modulator/Demodulator	Wall
RF Hazard	None (< 0.05 mW/sqcm average at antenna)	