

Ogier Electronics Single Channel Split Configuration SL500 Links

The Split configuration SL500 is a single video channel link comprising two units at either end. The designators 30 or 120 indicate the antenna size in cm

Number of video channels	1 in one direction	
Number of data or audio channels	1 in both directions	
Frequency band	4.4 to 5.0 GHz	
Frequency stability	Phase locked to 30 ppm	
Range - all weathers	SL500-30	20 km
	SL500-120	80 km
	Availability	99.95% (UK conditions)
Antenna type (both ends)	SL500-30	High gain Lens Horn
	SL500-120	High performance Parabola
Antenna size (both ends)	SL500-30	30 cm diameter
	SL500-120	120 cm diameter
Antenna gain (both ends)	SL500-30	21 dBi
	SL500-120	32 dBi
Transmit power	24 dBm	
Transmit EIRP	SL500-30	45 dBm typical
	SL500-120	56 dBm typical
Polarisation	Vertical or 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	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	SL500-30 Transceiver	44 x 36 x 33 cm
	SL500-120 Transceiver	Antenna 120 x 120 x 120 cm + Electronics Unit 26 x 26 23 cm
Connections	Base Unit	29 x 26 x 14 cm
	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	
	SL500-120 only	N Type from Electronics Unit to Antenna
Life	15 Years	
Routine maintenance	None required	
Weight	SL500-30 Transceiver	14 kg
	SL500-120 Transceiver	60 kg Antenna + 8 kg Electronics Unit
	Base Unit	8 kg
Mounting	SL500-30 Transceiver	Horizontal plate with M10 stud and M8 locking nut and bolt
	SL500-120 Transceiver	75 to 110 mm dia vertical pole
	Base Unit	Wall
RF Hazard	None (< 0.4 mW/sqcm average at antenna)	