

Ogier Electronics Single Channel SL5800 Links

The SL5800 is a compact, short range single video channel link with a number of data and audio options. The designators S, L and XL indicate whether the equipment has a short range, long range or extra long range respectively

Regulatory compliance	MPT 1415
Number of video channels	1 in one direction
Number of data or audio channels	1 in both directions
Frequency band	57.2 to 58.2 GHz
Frequency stability	Phase locked to 30 ppm
Range - all weathers	SL5800-S 600 metres SL5800-L 1 km SL5800-XL 1.2 km
Availability	99.95% (UK conditions)
Antenna type (both ends)	High gain Lens Horn
Antenna size (both ends)	SL5800-S 15 cm diameter SL5800-L 15 cm diameter SL5800-XL 25 cm diameter
Antenna gain (both ends)	SL5800-S 38 dBi SL5800-L 38 dBi SL5800-XL 42 dBi
Transmit power	-5 to +5 dBm
Transmit EIRP	SL5800-S 33 dBm typical SL5800-L 41 dBm typical SL5800-XL 45 dBm typical
Polarisation	Vertical
Receiver Noise Figure	10 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	20 Watts each end
Temperature Range	-20 to +60 C
Wind	Up to 200 kph
Dimensions	SL5800-S 20 x 20 x 40 cm SL5800-L 20 x 20 x 40 cm SL5800-XL 28 x 24 x 41 cm
Connections	Power Terminal connectors Video BNC connectors Data or audio Terminal connectors
Life	15 Years
Routine maintenance	None required
Weight	SL5800-S 7.5 kg SL5800-L 7.5 kg SL5800-XL 9.5 kg
Mounting	Horizontal plate with M10 stud and M8 locking
RF Hazard	None (< 0.01 mW/sqcm average at antenna)