

Ogier Electronics Single Channel SuperCompact SL3100-SC Links

The SL3100-SC and SL3100-HP-SC are extremely small, single video channel links with one data or audio channel. The designator HP indicates that high power transmitters are included to increase the range. Despite their small size, these units have the same high performance as the larger SL series of links and provide the same broadcast levels of quality. They include in-built power measurement to avoid the need for external power meters and have comprehensive built in test facilities with a single pass / fail indication.

Please note that the equipment is powered from 24 Volts DC. Separate power supply modules or weatherproof units can be supplied if required

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| Regulatory compliance | ETSI EN 300 632 in Europe using optional filters |
| Number of video channels | 1 in one direction (1 in both directions as an option) |
| Number of data or audio channels | 1 in both directions |
| Frequency band | 31.0 to 31.8 GHz |
| Frequency stability | Phase locked to 30 ppm |
| Range - all weathers | SL3100-SC 5 km SL3100-HP-SC 8 km |
| Availability | 99.95% |
| Antenna type (both ends) | 2 flat plates. One for transmit, the other for receive |
| Antenna size (both ends) | 15 cm square |
| Antenna gain (both ends) | 28 dBi |
| Transmit power | SL3100-SC 17 dBm SL3100-HP-SC 26 dBm |
| Transmit EIRP | SL3100-SC 45 dBm SL3100-HP-SC 54 dBm |
| Polarisation | Vertical as standard, Horizontal as an option |
| Receiver Noise Figure | 3 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 | 24 Volts +/- 10% |
| Input power | 20 Watts each end |
| Temperature Range | -20 to +60 °C |
| Solar Radiation | 1 kW per square metre at 50°C ambient |
| Wind | Up to 200 kph |
| Dimensions without sun shield | Width 30 cm, height 18 cm, depth 9 cm |
| Dimensions with sun shield | Width 32 cm, height 20 cm, depth 12 cm |
| Connections | 24 Volt DC Power Terminal connectors Video BNC connectors Data or audio Terminal connectors Failure alarm Terminal connectors to solid state relay Short circuit - pass, Open circuit - fail |
| Life | Power Meter 0 to 3 volts over 20 dB dynamic range |
| Routine maintenance | 15 Years |
| Weight | None required |
| Mounting | 6.75 kg with sunshield and swivel bracket Horizontal plate with M10 stud and M8 locking |
| RF Hazard | SL3100-SC Below 0.2 mW/sqcm at radome surface SL3100-HP-SC Safe at all distances outside main beam Below 1 mW/sqcm 2 metres from radome |