

## ESL3100-SC Link SuperCompact Ethernet Wireless Bridge

### High Performance Ethernet Link

The SuperCompact Ethernet point-to-point Wireless Bridge/Repeater is one of a range of Ethernet based radio's from Ogier Electronics.

Operating in the 31 GHz band, with a field selectable choice of 16 separate operating channels, the links provide guaranteed interference free operation with high performance over ranges in excess of 8 km using built-in antennas.

The equipment is particularly suited to use in professional, high-end IP CCTV networks where guaranteed operation is demanded.

Based on the proven and rugged video links sold by Ogier all over the world, this compact equipment features IP66 sealing, heatsinks and optional sunshields to allow long-life operation even in the harshest environments.

### Technology

The Ogier SuperCompact Ethernet Link is based on 802.11g radio but operates in the interference free and uncluttered 31 GHz band. The equipment features data-rates up to 54 Mbps in standard mode and incorporates configurable features such as real-time data compression, superpacketisation and packet bursting for enhanced throughput. A range of encryption features for transmission security is also provided

Utilising built-in, flat-plate, narrow beamwidth antennas and with 16 user selectable frequencies to choose from, it allows for a high density of installation.

The link is fitted with a built in LCD alignment meter and it includes a 100 Mbps full-duplex auto cross-over Ethernet interface.

Two versions are available, a standard link and a high power link which is fitted with a Power Amplifier where extended range operation is required.



### Technical Specification

Frequency Band: 31.0 – 31.3 GHz paired with 31.5 – 31.8 GHz

Transmit Power: To +12 dBm without P.A  
To +18 dBm with P.A

Operating Channels: 1 of 16 field selectable

Frequency Stability: <1ppm

Antenna: Flat plate, 4 deg beam

Range vs data-rate based on UK rain-fade:

	No P.A	With P.A
48 Mbps	min 1.5 km	min 2.1 km
24 Mbps	min 3.0 km	min 4.0 km
12 Mbps	min 4.2 km	min 5.5 km
6 Mbps	min 5 km	min 6.9 km

Security: WEP, AES, TKIP, WPA

Power: 24 Vdc nominal, 20 Watts

Temperature Range: -20 to +60 deg C

Connections: Buccaneer Ethernet  
Buccaneer 4-way DC connector

Dimensions: 326x185x120mm inc sunshield

Weight: 6.75 kg with sunshield

**About Ogier:** Ogier Electronics Ltd is a UK based company that has designed and made high end Radio and Microwave equipment for CCTV, Broadband and Military users for over 15 Years. Selling into markets all over the world, Ogier also now acts as a system integrator for large and complex surveillance and telecom projects

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## EXSL3100 Long Range 31 GHz Wireless Bridge

### High Performance long-range 31 GHz Ethernet Link

The Long Range 31 GHz Ethernet point-to-point Wireless Bridge/Repeater is one of a range of Ethernet based radio's from Ogier Electronics.

Operating in the 31 GHz band, with a field selectable choice of 16 separate operating channels, the links provide guaranteed interference free operation over ranges up to in excess of 15 km using narrow beam, high discrimination dish antennas.

The equipment is particularly suited to use in professional, high-end IP CCTV networks where guaranteed operation is demanded.

Based on the proven and rugged video links sold by Ogier all over the world, this compact all-outdoor equipment features IP66 sealing, heatsinks and optional sunshields to allow long-life operation even in the harshest environments.

### Technology

The Ogier point-to-point Long Range Ethernet Link is based on 802.11g radio but operates in the interference free and uncluttered 31 GHz band. The equipment features data-rates up to 54 Mbps in standard mode and incorporates configurable features such as real-time data compression, superpacketisation and packet bursting for enhanced throughput.

Utilising narrow beamwidth 30 or 60 cm dish antennas and with 16 user selectable frequencies to choose from, it allows for very a high density of installation.

The link is fitted with built in LCD alignment meters and includes a 100Mbps full-duplex auto cross-over Ethernet interface.

Two versions are available, a standard link or a high power (HP) link which is fitted with a Power Amplifier for extended range operation. Either version can be fitted with 30 or 60cm dish antennas again depending in the range required.



### Preliminary Technical Specification

Frequency Band:	31.0 – 31.3 GHz paired with 31.5 – 31.8 GHz
Transmit Power:	To +12 dBm without P.A To +18 dBm with P.A
Operating Channels:	1 of 16 field selectable
Frequency Stability:	<1ppm
Antennas:	30 or 60 cm dish
Beamwidths:	2 or 1 deg (to 3 dB points)
Typical range vs selected data-rate based on UK rain-fade for HP links using 60cm dishes:	
48 Mbps	up to 8 km
24 Mbps	up to 11 km
12 Mbps	up to 14 km
6 Mbps	up to 16 km
Security:	WEP, AES, TKIP, WPA
Power:	24 Vdc nominal, 20 Watts
Temperature Range:	-20 to +60 deg C
Connections:	Buccaneer Ethernet Buccaneer 4-way DC connector
Weight:	<25 kg including pole mount brackets and sunshields

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