

## ILA Series

### L-Band Line Amplifier, Rack Mounted.



#### High Grade Line Amplifier Products;

<b>ILA1450</b>	950-1450MHz
<b>ILA1750</b>	950-1750MHz
<b>ILA2150</b>	950-2150MHz

For other 'non-standard' frequency requirements, please contact the factory.

For multiple-channel units in a single chassis (Dual, Triple, Quad), please consult the factory.

For equivalent units with full user interface, remote control and digital attenuation, please see ILAH series datasheet.

For equivalent remote mount units, please see PLA series datasheet.

The 19 inch, 1U rack mounted, **ILA series** of L-Band Line Amplifier units from Peak Communications are designed to provide high quality signal amplification, primarily for satellite Earth station cross-site applications.

The **ILA series** units are mains powered and are constructed of high grade components to give the ultimate Gain flatness and stability performance.

For redundancy the **ILA series** units are fully compatible with the Peak **RCU100** (1+1), **RCU200** (2+1) and **RCU1001** (N+1) systems.

#### Peak Features

- High gain flatness and stability performance.
- Amplifier low current alarm monitoring
- Manually Variable Attenuator options for local control of Gain
- Integral 1+1 & 2+1 CANBUS® redundancy control & N+1 switch systems available
- L-Band monitor and Fibre Optic L-Band interface options available
- Fully compatible with **RCU100/ RCU200 series** 1+1/ 2+1 redundancy controllers and **RCU1001 series** for N+1 redundancy units



## ILA series - Typical Specification

### Input

Frequency	ILA1450; 950-1450MHz ILA1750; 950-1750MHz ILA2150; 950-2150MHz
Connector	50Ω, SMA, female
Return loss	Option 1a; N-Type, Option 1c; BNC 16dB typical

### Output

Connector	50Ω, SMA, female
Return loss	Option 1b; N-Type, Option 1d; BNC 18 to 22dB typ. (frequency dependent)

### RF Performance

Gain	20dB minimum For higher Gain options please contact the factory.
Gain flatness	±0.25dB (bandwidths <500MHz) ±0.5dB (bandwidths <800MHz) ±1dB (bandwidths <1200MHz)
Active Directivity	22dB typical 20dB minimum
RF Input power	-10dBm max. (no load, no damage)
TOIP	+25dBm typical
1dB Output GCP	+13dBm typical For higher GCP options please contact the factory.
Noise Figure	7 to 9dB typ. (frequency dependent)

### L-Band Monitor (Input Option 2a, Output Option 2b)

Connector	50Ω, SMA (f) on rear panel For other connection types please contact the factory
Level	-20dBc ±3dB

### Variable L-Band Attenuation (Option 10)

Attenuation range	30dB nominal
Control	Local, continuously variable from front panel

### Mechanical

Width	19" standard rack mount
Height	1U (1.75")
Depth	400mm (15.7"), plus connectors
Construction	Aluminium chassis
Weight	5.5kgs (12lbs)

### Environmental

Operating temp.	0°C to +50°C
EMC	EN 55022 part B & EN 50082-1
Safety	EN 60950

### Power Supply

Voltage	115/230VAC±10%, selectable, linear power supply
Frequency	50/60Hz
Total power	50 Watts max.

### Control System Interface

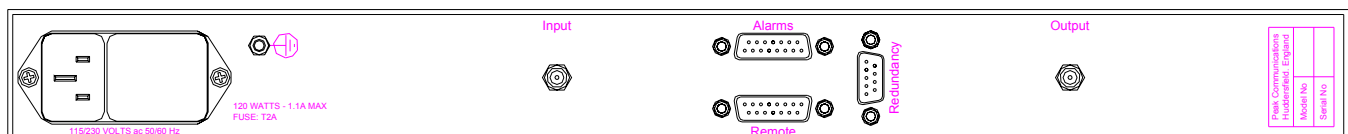
Discrete 'alarms interface'	PSU fail Amplifier current detection
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### Options

- 1a) N-Type (f) input interface connection
- 1b) N-Type (f) output interface connection
- 1c) BNC (f) input interface connection
- 1d) BNC (f) output interface connection
- 2a) -20dBc L-band input monitor on rear panel
- 2b) -20dBc L-band output monitor on rear panel
- 6a) Fibre optic L-band output interface connection
- 6b) Fibre optic L-band input interface connection
- 10) Manual Variable Attenuator, 30dB

Notes; The addition of Options can modify the typical specification, for details please consult the factory.

## Rear panel view



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. ILASeries-060710.

Peak Communications Ltd, 22 West Park Street, Brighouse, HD6 1DU, England

Tel; +44 (0)1484 714200 Sales; +44 (0)1484 714229 Fax; +44 (0)1484 723666 Email; [sales@peakcom.co.uk](mailto:sales@peakcom.co.uk) Web; [www.peakcom.co.uk](http://www.peakcom.co.uk)