

ILAH Series

IF (70/ 140MHz), L-Band & SHF Line Amplifiers, Rack Mounted with user interface.



High Grade Line Amplifier Products;

ILAH70	IF 70±20MHz & 140±40MHz frequencies
ILAHU240	UHF 240-323MHz frequencies
ILAHL1450	L-Band 950-1450MHz frequencies
ILAHL1750	L-Band 950-1750MHz frequencies
ILAHL2150	L-Band 950-2150MHz frequencies
ILAHL2450	Extended L-Band 950-2450MHz frequencies
ILAHS2400	S-Band 2.0-2.4GHz frequencies
ILAHC4200	C-Band 3.4-4.2GHz receive frequencies
ILAHC6725	C-Band 5.85-6.725GHz transmit frequencies
ILAHKu1275	Ku-Band 10.7-12.75GHz receive frequencies
ILAHKu1450	Ku-Band 13.75-14.5GHz transmit frequencies
ILAHKu1450B	Ku-Band 12.75-14.5GHz transmit frequencies
ILAHKu1480	Ku-Band 13.75-14.8GHz transmit frequencies
ILAHD1840	DBS-Band 17.3-18.4GHz transmit frequencies

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 lower cost units without the full user interface please see ILA series datasheet.

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

The 19-inch, 1U rack mounted, **ILAH series** of IF to SHF line amplifier units from Peak Communications are designed to provide high quality signal amplification, primarily for satellite earth station cross-site applications.

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

For redundancy the **ILAH series** units use a simple CANBUS® interface and have an integral redundancy controller for 1+1 & 2+1 operation (for use with external **A1000L**, **A2000L** switch units), for N+1 system a separate external control and switch unit is provided (**RCU1002 series**).

The unit incorporates a graphics display module, membrane keyboard and features a clear and intuitive control and configuration menu, fully utilising the unique graphics display.

Peak Features

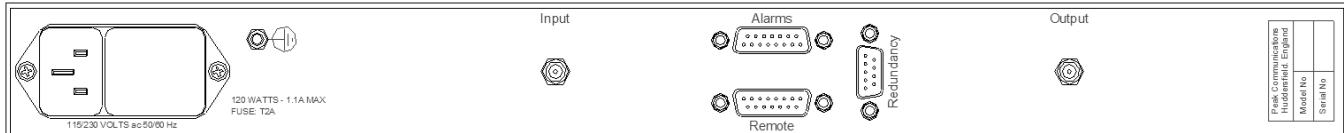
- High gain flatness and stability performance.
- Optional input signal power detector with user settable input & 'compression alarm' threshold level
- Electronically variable attenuator options for both local & remote control of gain
- Active & passive slope compensation options
- Integral 1+1 & 2+1 CANBUS® redundancy control, N+1 switch system available
- Monitor, mute and fibre optic L-Band interface options available
- Amplifier low current alarm monitoring

Options

- 1a) N-Type (f), 50Ω input interface connection
- 1b) N-Type (f), 50Ω output interface connection
- 1c) BNC (f), 50Ω input interface connection
- 1d) BNC (f), 50Ω output interface connection
- 1e) BNC (f), 75Ω input interface connection
- 1f) BNC (f), 75Ω output interface connection
- 1g) F-Type (f), 75Ω input interface connection
- 1h) F-Type (f), 75Ω output interface connection
- 2a) -20dBc input L-Band monitor on rear panel
- 2b) -20dBc output L-Band monitor on rear panel
- 2c) -20dBc input SHF monitor on rear panel
- 2d) -20dBc output SHF monitor on rear panel
- 4a) Increased gain to 30dB nom.
- 4b) Increased gain to 40dB nom.
- 4c) Increased gain to 50dB nom.
- 5) 10MHz reference pass-through on L-Band interface
- 5b) DC feed for BUC/LNB powering on L-Band interface
- 6a) Fibre optic L-band output interface connection
- 6b) Fibre optic L-band input interface connection
- 7) Redundant power supplies
- 9) Ethernet interface with embedded web server & SNMP
- 10a) Electronic attenuator, 0-30dB (0.5dB steps), at L-Band
- 10b) Electronic attenuator, 0-30dB (0.1dB steps), at L-Band
- 10c) Electronic attenuator, 0-30dB (0.1dB steps), at Ku-Band
- 10d) Electronic attenuator, 0-30dB (0.1dB steps), at C-Band
- 13) RF mute option
- 14) Input signal power detector and alarms
- 14b) Output signal power detector and alarms
- 15) 5dB passive, fixed, slope compensation (L-Band only)
- 15b) 0-8dB active, user settable, slope compensation (L-Band only)
- 16a) Passive input combiner or output splitter, 2-way
- 16b) Passive input combiner or output splitter, 4-way

Note: The addition of options can modify the typical specification, for details please consult the factory.

Rear panel view (sample)



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. ILAHseries-021222.

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