

## RCUH100 series

1 for 1 Redundancy Switch Units with full User Interface and Remote Control.



**RCUH100** for use with;

**L500 series** Block DownConverters

**IBU/ IBD/ IBUH/ IBDH series** Block Converters

**RCUH101** for use with;

**F1201, F1202** Fixed Frequency L-Band Converters

**RCUH102** for use with;








**F1200** Fixed frequency L-Band Up & DownConverter

The **RCUH100 series** 1+1 Redundancy switch units are designed to provide redundancy for single-feed systems, maintaining maximum availability whilst allowing routine maintenance and repair work to be carried out on the standby converter without the normally associated down-time.

The **RCUH100 series** maintains one converter on-line whilst the other is held in hot standby, allowing the user to select the on-line converter. The redundancy unit can be controlled from the front panel user interface (Local mode) or remotely via the RS232/ 485 or optional Ethernet link to a host computer (Remote mode). In remote mode, the on-line converter can be selected and monitored whilst keeping switch-over automatic in case of failure.

In AUTO mode, the unit monitors the converter alarm signals via the interface connecting cables and if a fault condition develops within the on-line converter, the **RCUH100 series** automatically switches traffic to the standby unit.

### Peak Features

-  Standard 5MHz to 18GHz operation
-  Dual mains input & redundant power supplies fitted as standard
-  Fully compatible with Peak **L500**, **IBU/IBUH/IBD/IBDH** & **F1200 series** Converters
-  Full user interface and Remote control fitted as standard
-  Dual switching arrangement (L-Band and RF) minimises insertion loss
-  Peak Converter alarm interface cables provided as standard
-  Optional, high quality matched cable sets to interface to the Peak converter range

## RCUH100 series - Typical Specification

The following gives the performance of the RCUH units in isolation;

### L-Band & RF Interfaces

Frequency	5MHz to 18GHz
Connections	50Ω, SMA (Option 6a; N-Type 'system input' connection, Option 6b; N-Type 'system output' connection)

### Switch Element Parameters

Switching speed	<15ms
Type	Co-axial, latching
Main path	2 off
Standby path	2 off

Frequency Dependent Parameters		Single Switch Insertion Loss (maximum)	Switch Return Loss (typical)	Switch Isolation (typical)
L-Band Section	L-band	0.15dB	23dB	80dB
RF Section	C-band	0.2dB	21dB	70dB
	X-band	0.3dB	18dB	65dB
	Ku-band	0.35dB	16dB	60dB
	DBS-band	0.4dB	15dB	60dB

### Typical System Performance

The following gives the typical performance that can be expected from a system comprising Peak Converters & using the high quality matched IF, L-Band & RF cable set (option 1);

Gain Flatness	±1dB full band (C-band, with IBU/IBUH600 converters)
Insertion loss	3dB (not including converter gain)
Switching speed	<150ms (from fault to switch completion)

### RCUH100 Unit General

#### Mechanical

Width	19", standard rack mount
Height	1U (1.75")
Depth	420mm (16.5"), plus connectors
Weight	4.0kgs (8.8 lbs)
Construction	Aluminium chassis

#### Environmental

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

### Power Supply (dual, redundant)

Connection	IEC (dual feed cables provided)
Voltage	115/230VAC ±10%, switch selectable
Frequency	50/60Hz
Power	50Watts max.

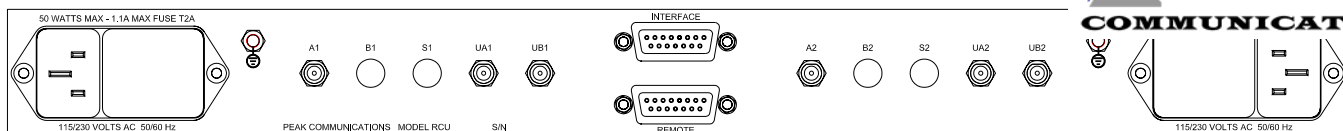
### Control System

Remote control	RS232/ 485 port Ethernet option; Embedded web server & SNMP network management support (option 9).
Converter alarms	PSU fail, LO lock fail & Amplifier fail.
Connector	15-way, D-type.

### Options

- 1a) High quality, matched L-Band & RF cables (to interface to the Peak IBU, IBD, IBUH, IBDH or L500 series converter products, when mounted adjacent to the RCUH100 unit).
- 1b) High quality, matched IF & L-Band cables (to interface to the Peak F1201 or F1202 converter product, when mounted adjacent to the RCUH101 unit).
- 1c) High quality, matched IF & L-Band cables (to interface to the Peak F1200 converter product, when mounted adjacent to the RCUH102 unit). Custom front panel overlay.
- 6a) N-Type (f), 50Ohm 'system input' interface.
- 6b) N-Type (f), 50Ohm 'system output' interface.
- 9) Ethernet interface with embedded web server & SNMP.

### Rear Panel



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. RCUH100series-291209.

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)