

RCUH200 series

1 for 2 Redundancy Switch Unit with full User Interface and Remote Control.



RCUH200 for use with;

L500 series Block DownConverters

IBU/ IBD/ IBUH/ IBDH series Block Converters

RCUH201 for use with;

F1201, F1202 Fixed Frequency L-Band Converters

RCUH202 for use with;








F1200 Fixed frequency L-Band Up & DownConverter

The **RCUH200 series** 2+1 Redundancy switch units are designed to provide redundancy for dual-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 **RCUH200 series** maintains two converters on-line whilst the other is held in hot standby, allowing the user to select the on-line converter in either chain. 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 either of the on-line converters, the **RCUH200 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 & 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

RCUH200 series - Typical Specification

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

IF, 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 4 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 ±1.5dB full band (C-band, with IBU600/ IBUH600 converters)
 Insertion loss 4dB (not including converter gain)
 Switching speed <150ms (from fault to switch completion)

RCUH200 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 50 Watts max.

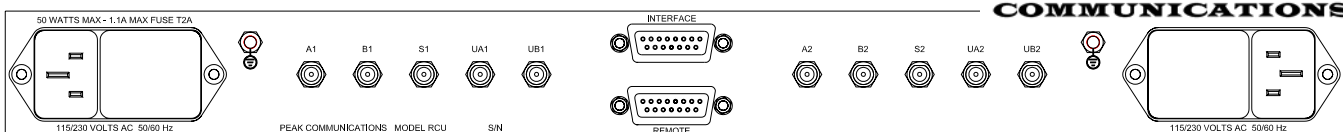
Control System

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, L500 series converter products, when mounted adjacent to the RCUH200 unit).
- 1b) High quality, matched IF & L-Band cables (to interface to the Peak F1201 or F1202 converter products, when mounted adjacent to the RCUH201 unit).
- 1c) High quality, matched IF & L-Band cables (to interface to the Peak F1200 converter product, when mounted adjacent to the RCUH202 unit).
- 2) 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. RCUH200series-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 Web; www.peakcom.co.uk