RCUH100 series
1 for 1 Redundancy Switch Units with full User Interface and Remote Control

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 unit without the normally associated down-time.

The RCUH100 series maintains one converter/amplifier on-line whilst the other is held in hot standby, allowing the user to select the on-line unit. 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 unit can be selected and monitored whilst keeping switch-over automatic in case of failure.

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

Factory alignment for the complete 1+1 system including Peak supplied high quality cables is recommended for this product to optimise gain flatness and other parameters. If bought as a complete set of equipment, factory alignment is automatically undertaken.

Peak Features
- Standard 5MHz to 18GHz operation
- Dual mains input & redundant power supplies fitted as standard
- Full user interface and remote control fitted as standard (Ethernet optional)
- Dual switching arrangement (IF/L-Band and RF) minimises insertion loss
- Transfer switching option for convenient off-line unit monitoring/test
- Optional, high quality matched cable sets to interface to the Peak converter/amplifier range
**RCUH100 series - Typical Specification**

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

<table>
<thead>
<tr>
<th>IF, L-Band &amp; RF Interfaces</th>
<th>Switch Element Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td></td>
</tr>
<tr>
<td>5MHz to 18GHz</td>
<td></td>
</tr>
<tr>
<td>Ka-band;</td>
<td></td>
</tr>
<tr>
<td>to 31GHz</td>
<td></td>
</tr>
<tr>
<td>Connections</td>
<td></td>
</tr>
<tr>
<td>50Ω, SMA (f)</td>
<td></td>
</tr>
<tr>
<td>Option 6a;</td>
<td></td>
</tr>
<tr>
<td>50Ω, N-Type (f) 'system input'</td>
<td></td>
</tr>
<tr>
<td>Option 6b;</td>
<td></td>
</tr>
<tr>
<td>50Ω, N-Type (f) 'system output'</td>
<td></td>
</tr>
<tr>
<td>Ka-Band;</td>
<td></td>
</tr>
<tr>
<td>50Ω, K-Type (f) or 2.92mm (f)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Dependent Parameters</strong></td>
<td><strong>Single Switch Insertion Loss (maximum)</strong></td>
</tr>
<tr>
<td>L-Band Section</td>
<td>L-band</td>
</tr>
<tr>
<td>RF Section</td>
<td>S-band</td>
</tr>
<tr>
<td></td>
<td>C-band</td>
</tr>
<tr>
<td></td>
<td>X-band</td>
</tr>
<tr>
<td></td>
<td>Ku-band</td>
</tr>
<tr>
<td></td>
<td>DBS-band</td>
</tr>
<tr>
<td></td>
<td>Ka-band</td>
</tr>
</tbody>
</table>

**Typical System Performance**

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

Gain flatness: ±0.5dB full band, ±0.25dB across any 40MHz in-band (C-band, with IBU600/ IBUH600 converters)

Insertion loss: 3dB (not including converter gain)

Switching speed: <150ms (from fault to switch completion)

**RCUH100series 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

**Options**

1a) High quality, matched L-Band, RF (C, X or Ku-Band) and control cables to interface to the IBU/ IBD/ IBUH/ IBDH/ L500 series converter products, when mounted adjacent to the RCUH100 unit

1b) See option 1a above but includes DBS-Band SHF cables

1c) See option 1a above but includes Ka-Band SHF cables

1d) Cable set for F1201/ F1202 & RCUH101 unit

1e) Cable set for F1200 & RCUH102 unit

1f) Cable set for ILA & RCUH103 unit

1g) Cable set for P7xxx series & RCUH104 unit

1h) Cable set for P7000 & RCUH105 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

13) Transfer switching for offline unit monitoring

**Power Supply (dual, redundant)**

Connection: IEC (dual feed cables provided)

Voltage: 90-264VAC

Frequency: 47-63Hz

Power: 50 Watts max

**Control System**

Remote control: RS232/ 485 port

Option 9; Ethernet; embedded web server & SNMP

Converter alarms: PSU fail, LO lock fail & Amplifier fail

Connector: 15-way, D-type

Peak Communications reserves the right to alter the specifications of this equipment without prior notice. RCUH100series-140716.

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