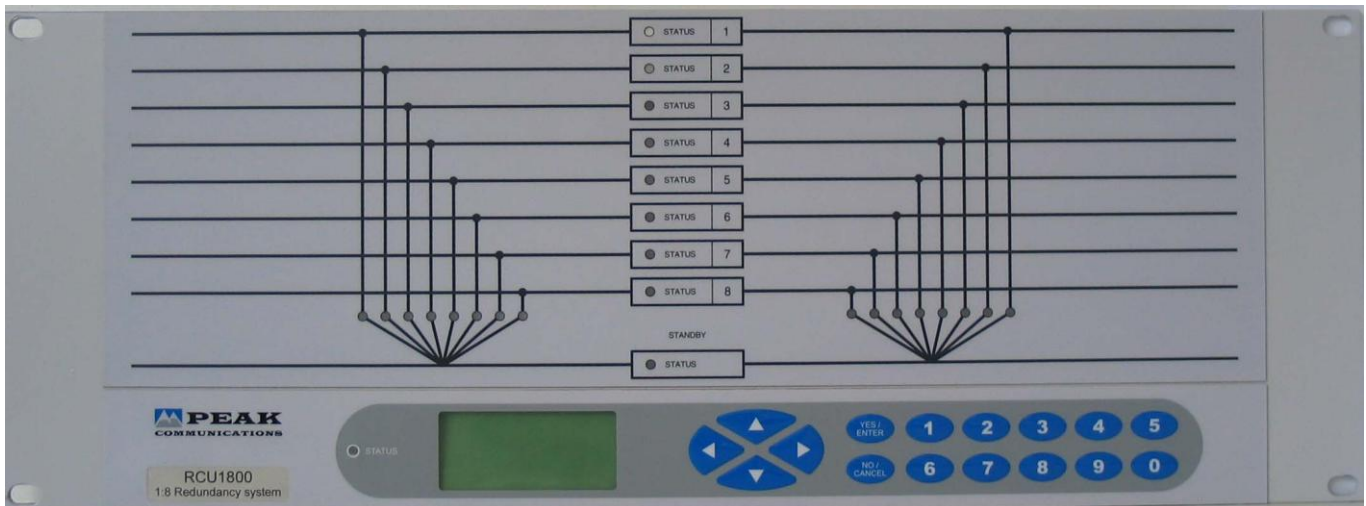


## RCU1002 Series



**3+1 to 8+1 Redundancy Switching Units for the IBUH/ IBDH series of Block Converters.**






**RCU1002** for use with;  
**IBU/ IBD series** Block Converters

**RCU1002(Ka)** for use with;  
**IBUH(Ka)/ IBDH(Ka) series** Block Converters

The redundancy switch unit can monitor and control up to 8 **IBUH/ IBDH series** converters plus 1 standby unit, to provide full system redundancy. Channel priority can be preset to ensure that high priority traffic is maintained. The **RCU1002 series** also incorporate input and output switching to fully isolate individual channels to ensure that any defective converter can be replaced without any disruption to signal transmission.

The **RCU1002 series** are 4U high 19" rack mount units with a full front panel system mimic, graphics display module and membrane keyboard which provide clear, intuitive controls and monitoring. The **RCU** unit can be controlled from the front panel or by the RS232/RS485 link to a host computer (Ethernet interface option available).

### Peak Features

-  L-Band and RF switching for isolation of individual channels
-  Full remote control
-  Expandable up to 8+1 configuration
-  Full mimic monitoring of system status
-  Dual redundant power supplies



## RCU1002 Series - Typical Specification

### L-Band Interface

|                         |                         |
|-------------------------|-------------------------|
| Frequency range         | 950 to 2150MHz          |
| Connectors              | SMA (f), 50Ω            |
| Return loss             | 16dB min                |
| Isolation               | 100dB min               |
| L-Band insertion loss   | 0.6dB nominal           |
| Standby in to stby out; | 0.6dB+0.3dB per channel |

### RF Interface

|                         |                                    |
|-------------------------|------------------------------------|
| Frequency range         | to 18GHz (to 31GHz for Ka-Band)    |
| Connectors              | SMA (f), 50Ω                       |
| Ka-Band;                | 50Ω, K-Type (f) or 2.92mm (f)      |
| Return loss             | >13dB, band specific               |
| Isolation               | 70dB min (Ka-Band 50dB typ)        |
| SHF insertion loss      | <3dB, band specific                |
| Standby in to stby out; | 3dB+1dB per channel, band specific |

### Performance

|                 |        |
|-----------------|--------|
| Switchover time | <500ms |
|-----------------|--------|

### Mechanical

|              |                                |
|--------------|--------------------------------|
| Width        | 19", standard rack mount       |
| Height       | 4U (7")                        |
| Depth        | 420mm (16.5"), plus connectors |
| Construction | Aluminium chassis              |
| Weight       | 8kgs (17.6lbs) max.            |

### 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    | 110 to 220VAC ±10%, auto-switching |
| Frequency  | 50/60Hz                            |
| Power      | 50W max.                           |

### Control System Interfaces

|                  |   |
|------------------|---|
| Remote control   | RS232/485 serial interface,<br>15 way, D-type.                      |
| Option 9;        | Ethernet; Embedded web server &<br>SNMP network management support. |
| Converter Alarms | Summary alarm (form C)  |
| Alarm Outputs    | RCU1002 alarm (form C).<br>IBUH/IBDH summary alarm (form C).        |

### Options

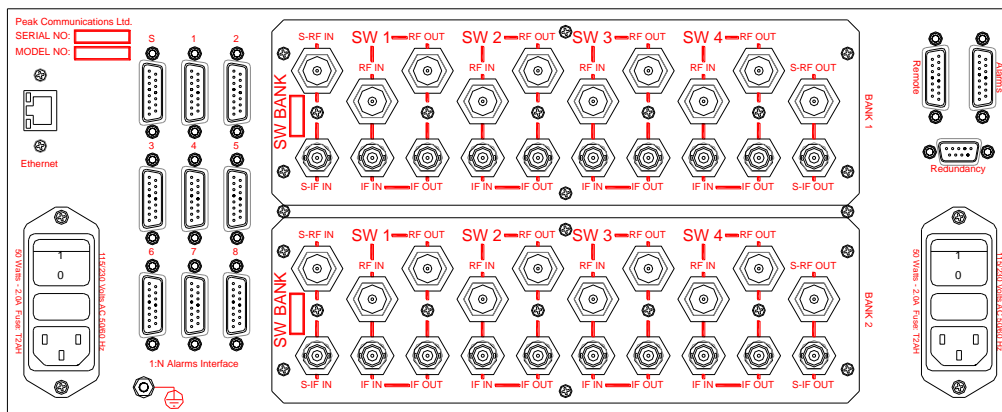
- 2d) High quality, matched L-band, RF (C, X or Ku-Band) and control cable set (to interface to the Peak IBUH/ IBDHseries Block converter range, when mounted adjacent to the RCU – typically on-line Converters above and redundant unit below the RCU).
- 2e) As option 2d above but includes DBS-Band SHF cables.
- 2f) As option 2d above but includes Ka-Band SHF cables.
- 9) Ethernet interface with embedded web server & SNMP.

Note; Some of the above options have an impact on the general performance specification, factory guidance should be sought if this is thought to be critical.

## Ordering information

RCU units can be configured for switching of up to 8 channels. The RCU can be populated with any number of switches and can be expanded at a later date. To order a fully populated 1 for 8 RCU unit use type number RCU1802, for a 1 for 4 use RCU1402 etc.

## Rear panel view (RCU1802)



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. RCU1002-230511.

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