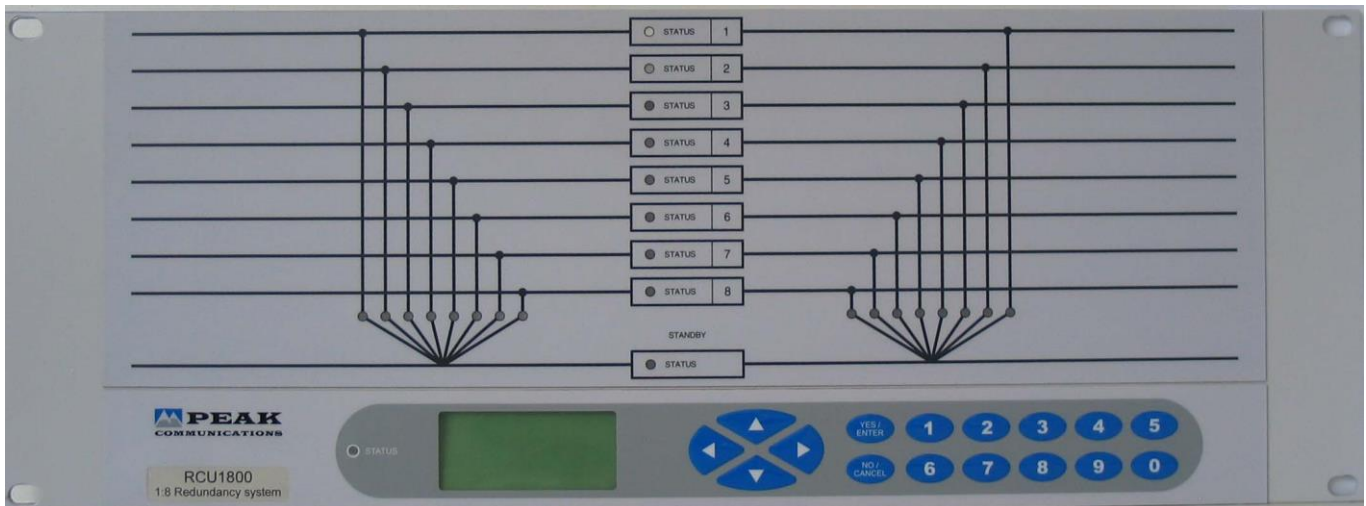


RCU1002 Series

1+1 to 8+1 Redundancy Switching Units for the IBUH/ IBDH series of Block Converters & ILAH



series of Line Amplifiers

RCU1002 for use with;

IBUH/ IBDH series Block Converters

ILAH series Line Amplifiers






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/ ILAH series** converters/ amplifiers 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-inch 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

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.



RCU1002 Series - Typical Specification

IF Interface (for ILA series IF amplifiers)

Frequency range	50 to 180MHz
Connectors	BNC (f), 50Ω
Option 1;	BNC (f), 75Ω
Return loss	15dB min
Isolation	70dB min
IF insertion loss	0.3dB nominal
Standby in to stby out;	0.3dB+0.3dB per channel

L-Band Interface

Frequency range	950-2150MHz
Connectors	SMA (f), 50Ω
Option 1b;	N-Type (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)
Option 1c;	N-Type (f), 50Ω
Return loss	>13dB, band specific
Isolation	70dB min (Ka-Band; 50dB typical)
SHF insertion loss	<3dB, band specific
Standby in to stby out;	3dB+1dB per channel, band specific

Performance

Switchover time	<500ms
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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	90-264VAC
Frequency	47-63Hz
Power	50W max

Control System Interfaces

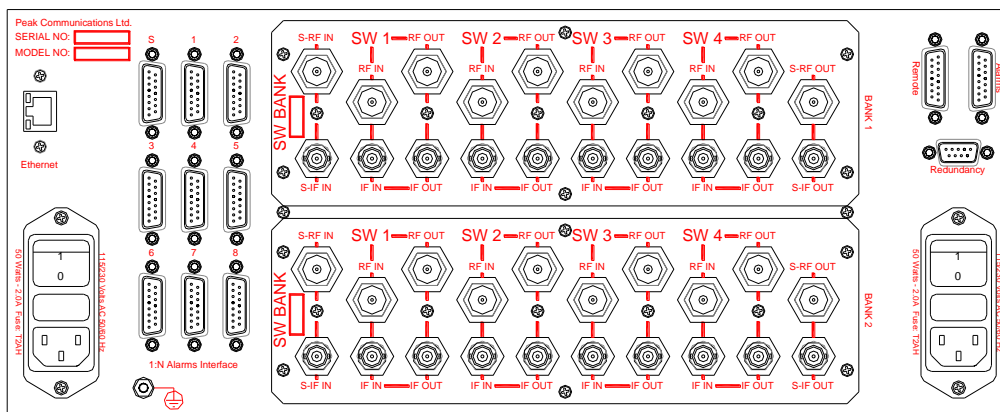
Remote control	RS232/485 serial interface, 15-Way, D-Type
Option 9;	Ethernet; embedded web server & SNMP network management support.
Converter alarms	Summary alarm (form C)
Alarm outputs	RCU1002 alarm (form C) IBUH/IBDH/ILAH summary alarm (form C)

Options

- 1) 75Ω IF interfaces for ILAH series (IF version)
- 1b) N-Type, 50Ω L-Band interfaces.
- 1c) N-Type, 50Ω SHF interfaces.
- 2d) High quality, matched L-band, RF (C, X or Ku-Band) and control cable set (to interface to the Peak IBUH/ IBDH/ ILAH series converter/ amplifier range, when mounted adjacent to the RCU (with typically on-line units above and standby unit below the RCU).
- 2e) See option 2d above, but includes DBS-Band SHF cables.
- 2f) See 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.

Rear panel view (RCU1802)



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. RCU1002-050218.

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