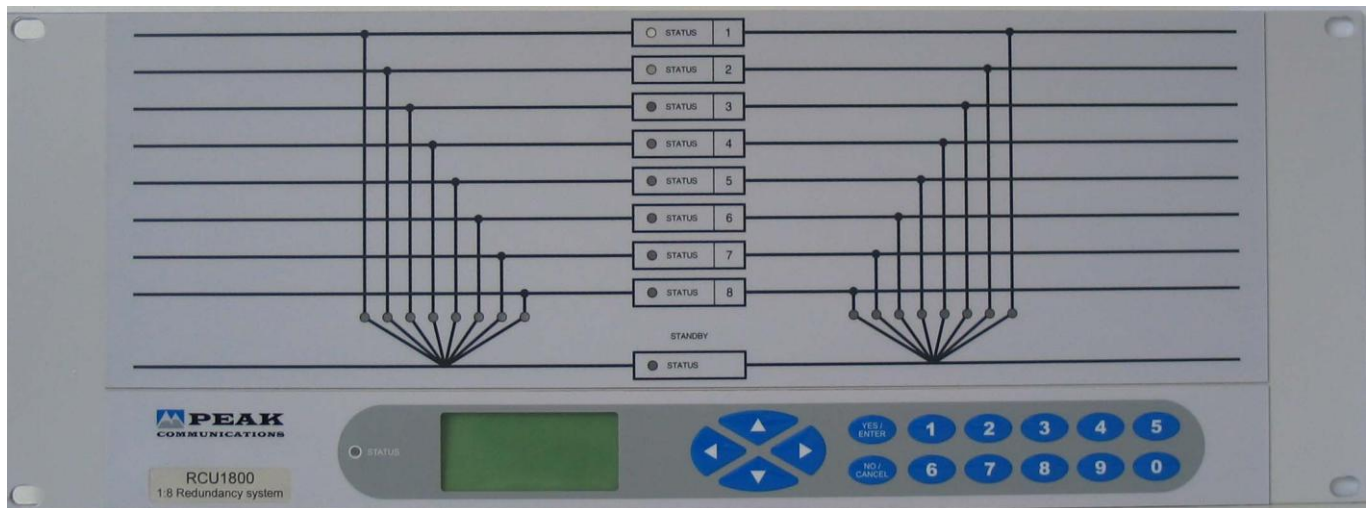


RCU1001 Series

3+1 to 8+1 Redundancy Switching Units for the IBU/ IBD series of Block Converters.








RCU1001 for use with;
IBU/ IBD series Block Converters

RCU1001(Ka) for use with;
IBU(Ka)/ IBD(Ka) series Block Converters

The redundancy switch unit can monitor and control up to 8 **IBU/ IBD 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 **RCU1001 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 **RCU1001 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/ 485 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



RCU1001 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
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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	110 to 220VAC ±10%, auto-switching
Frequency	50/60Hz
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	RCU1001 alarm (form C). IBU/IBD summary alarm (form C).

Options

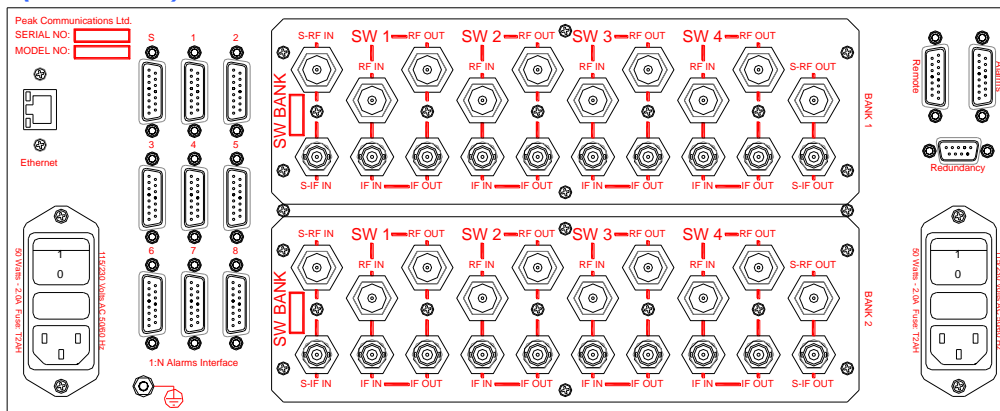
- 2d) High quality, matched L-band, RF (C, X or Ku-Band) and control cable set (to interface to the Peak IBU/ IBDseries Block converter range, when mounted adjacent to the RCU – typically on-line Converters above and redundant unit below the RCU).
- 2e) As option 2d above but includes DBS-Band SHF cables.
- 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 RCU1801, for a 1 for 4 use RCU1401 etc.

Rear panel View (RCU1801)



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. RCU1001-230511.

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