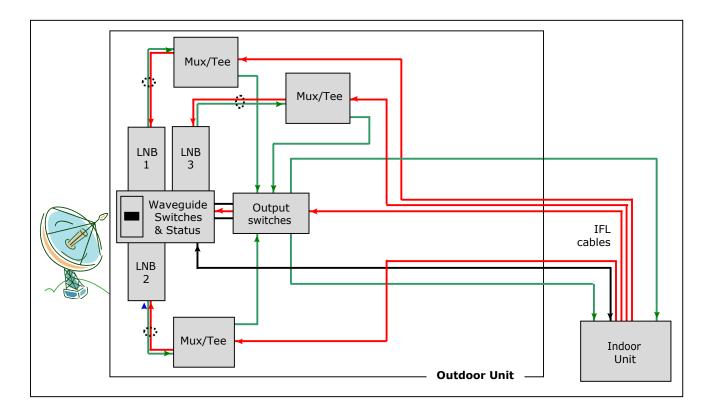
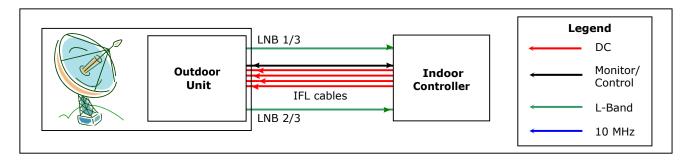
RSSL1:2-KuP Ku PLL LNB Redundancy System

Redundant Ku Band 1:2 LNB System - ODU



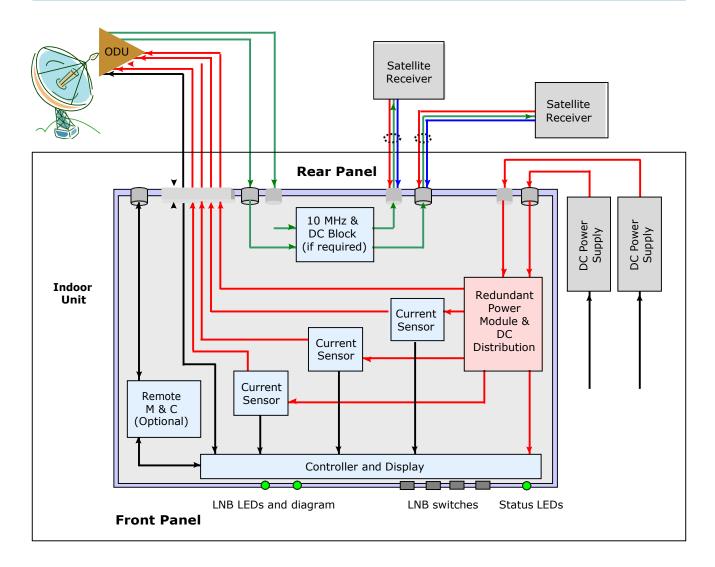


Orbital ODU Features:

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- Industry standard IFL with two coax cables and one control cable.
- Uses standard LNBs from any manufacturer. LNBs are included and tested in the system
- The Outdoor Unit is compact on one rail which is rack-mountable on a 19" rack
 - ODU is pre-assembled on a 2 RU 19" plate and fully wired and tested for plug and play installation.
- The IDU is a 1RU chassis. Just connect the cables, plug the redundant power supply in and you are ready to go.

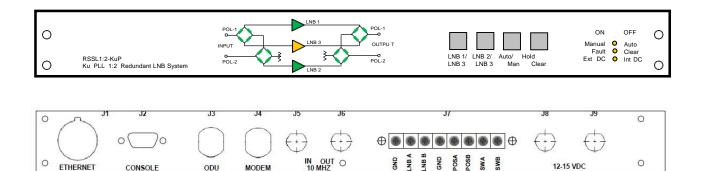
Redundant Ku Band 1:2 LNB System - IDU



Orbital IDU Features:

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- The coax cables can go directly to the modems if the DC and 10 MHz can be shut off. Or the indoor controller can have DC & 10 MHz blocks in place if the modems can't shut them off.
- 1 unit high chassis. Simple LED display for monitoring. No cumbersome LCD menu to work through
- Redundant Power Supply that is outside of chassis for easy service and replacement. Global power supplies to use anywhere in the world
- Manual or automatic switching between LNBs.



RSSL1:2-KuP: Ku Redundant LNB system - Specifications

ELECTRICAL

INPUT (Outdoor un Interface:	<u>it)</u> WR-75	
Frequency:	10.95 to 11.70 GHz, 11.70 to 12.20 GHz, 12.25 to 12.75 GHz – customer specified. Non-standard frequencies available as well.	
Noise Figure:	0.7 dB typical @ 23°C 0.8 dB typical with input waveguide isolator	
VSWR:	2.2 : 1 typical	
	F, N or SMA 1.5 : 1 typical 60 dB typical	
POWER (Indoor cor Voltage: Frequency: External PS conn.: Filtering:	90 - 264 VAC 47 - 63 Hz	
*More detailed specs available on Orbital 5300 LNB brochure.		

MONITOR AND CONTROL

Push Buttons LNB 1 / LNB 3 LNB 2 / LNB 3 Automatic/Manual Alarm reset LEDs LNB 1, LNB 2, LNB 3 Automatic / Manual Fault / Clear Ext DC1 / Ext DC2

Indoor Unit

0 to +55°C

<95% non-condensing

MECHANICAL			
	Outdoor Unit	Indoor Unit	
Weight:	TBD	TBD	
Overall Dimensions:	TBD	19" x 1.75" x 20" max	
Input Connector:	WR-75	F, N or SMA	
Output Connector:	F, N or SMA	F, N or SMA	

ENVIRONMENTAL

Operating Temp: Relative Humidity:

Outdoor Unit -40 to +60°C <100%

General Description:

The Orbital LNB redundant switch features a slim, streamline outdoor unit mounted on a 19" rail for easy installation. Mounted LNBs allow easy swap out using industry standard LNBs. The IFL is industry standard with two coax cables for the L-Band signal, and one control cable which carries the DC, 10 MHz and monitor/control signals.

The indoor unit is 1RU-19" with a simple LED display to quickly observe the LNB status, and control buttons to make any required changes to the system quickly and efficiently. LNB redundancy is automatic (current sensing) or manually selected. Power supply redundancy is automatic. Remote M&C is optional.

Orbital Design:

As always, Orbital products are simple, market focused designs of an open architecture type to allow for custom requirements. The redundant switch uses Orbital modules to allow for custom features required by the customer. The indoor controller's front panel is a universal design that allows for customer feature changes.

External Power supplies:

Power supplies, historically, have the lowest MTBF of the components in a system. The Orbital External power supply configuration was designed to provide inexpensive and rapid power supply replacement. A secondary benefit is the lower operating temperature of the external power supplies thus extending their lives.

The external power supplies need to be 18VDC, with a minimum current rating of 1.2 Amps. It is the main power supply. If it fails, the system switches to the other external power supply. This gives the customer time to replace the defective power supply without any down time or without having to take the entire rack mounted chassis in forrepair.

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