

Orbital Research manufactures and supports a variety of redundant systems for Satcom systems. These include 1:1 and 1:2 systems in L, S, C, X, Ku, Ka and Q bands. Protected equipment includes LNA's, LNB's, BDC's and BUC's.

# Advantages include:

- Automatic or manual switching between devices
- Intuitive Indoor Unit operation
- Local or Remote Operation (SNMP)
- Increased availability for increased network reliability
- Mounting flexibility Antenna Hubs, Boom arms or pole mounts.
- Various value-added options input and output couplers, transmit reject filters, 10 MHz reference backup, remote band switching, off-line device testing, shrouds for weather protection.
- Standardized cable lengths of up to 100M long runs available
- Customized Systems

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. Each system comes with coax cable for the L-Band signals, and control cables 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. Device redundancy is automatic (current sensing) or manually selected. Power supply redundancy is automatic.

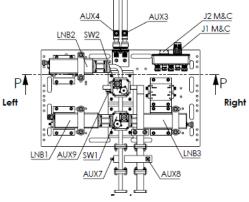
# **Orbital Design:**

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.



1:2 Indoor Unit with Band Switching

1:2 Ku Outdoor unit c/w coupler and TRF's





# **MODEL NUMBER: Redundant Systems**



#### SYSTEMS

1:1 Redundancy – Automatic fail-over to stand-by unit in the event of the failure of the primary

1:2 Redundancy – One Stand-by unit backing up either Primary 1 or Primary 2 units. Perfect for systems with two polarizations.

#### BANDS

L, S, C, X, Ku, Ka and Q – other bands available

#### **PROTECTED EQUIPMENT**

Low Noise Amplifiers – LNA's Low Noise Block Converters – LNB's Block Down Converters – BDC's Block Up Converters – BUC's

## MOUNTS

Hub Mount – rear of antenna Boom Mount Pole Mount Rack Mount

#### OPTIONS

Input Cross Guide Couplers Output Coax Couplers Transmit Reject Filters Isolators Off-line device access – for non-interruptible testing 10 MHz Reference automatic back-up Remote Band Switching – TTL or Voltage controlled devices Outdoor Unit Shrouds – for enhanced weather protection Internal or external Reference Referenced devices Modem DC and/or 10 MHz Blocking

## ENVIRONMENTAL

Operating Temp	-40
Humidity - Outdoor Unit	<10
Humidity - Indoor Unit	<9
Standards	Rol

-40C to +60C <100% condensing <95% non-condensing RoHS and REACH

#### POWER

Redundant External Power supplies with automatic failover and alarm

#### MECHANICAL

Indoor Unit

19″ x 1.75″ x 20″

# **Specifications subject to change**

Please contact Orbital Research for ordering information:

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