Redundancy Control Unit 1+1/2+1
LNA/LNB C and Ku Band

Key Features
- Provides power supply and reference signal to redundant LNB units
- Supports C LNA units and Ku-Band LNB, LNA units
- Built-in 1:1 extremely stable 10MHz OCXO (Optional)
- 10MHz reference available in 1:1 redundant mode
- Redundant 90-260 VAC power supply input
- Manual or automatic operations
- Monitors LNB/LNA bias currents to detect faults
- Fault indication by LED display
- Plate assembly design
- RS232/RS485 serial and Ethernet for remote monitoring & control.
- Form C contact closure outputs
- Field programmable firmware
- Indoor rack mount version available

Reliability
Field proven with system deployed worldwide, The RCU can withstand temperature from -40ºC to +60ºC up to 100% humidity. This IDU can withstand temperature from 0ºC to +50ºC up to 95% non-condensing humidity.

Order Examples: RRCU-C-LNA-2+1-ODU-g11
Description: (Redundancy Control Unit, C-Band (3.4-4.2GHz) LNA, 2+1 Redundancy Rack mount System Indoor Unit)
Additional Options: Down Converter, Ku Band (LNB) (1+1)
Note; This Redundancy Control Unit Used for LNA LNB
# Redundancy Control Unit 1+1/2+1

## LNA/LNB C and Ku Band

### Specifications

<table>
<thead>
<tr>
<th>Input Characteristics</th>
<th>C Band</th>
<th>Ku Band</th>
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<tbody>
<tr>
<td><strong>Frequency Range</strong></td>
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<td>10.70 ~10.95GHz (for Ku-Band LNB)</td>
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<td><strong>Frequency Range</strong></td>
<td>950-1700MHz (For LNB)</td>
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| Impedance              | 50 Ohm N Type Female (for C-Band LNB/LNA & Ku-band LNB) |
| VSWR                   | 1.5:1 max |

**Receive Transfer Parameters for LNA/LNB**

- Insertion loss: 3dB Max
- Full band Gain Flatness: 1.5dB Max
- 36MHz Gain Flatness: 0.5dB Max
- Isolation between path A, path B and path C: 30dB Min
- 10MHz Output Power Level: 0dBm Typical

**DC Voltage Supply to LNA/LNB**

- 18V // 24V (optional)
- 13V / 18V / 22KHz (for Quad-Band LNB)

**DC Current Supply to LNA/LNB**

- 500A max

**Monitor & Control Features**

- Interfaces: RS232- RS 485 and Ethernet SNMP (Optional)
- Monitoring Parameters: LNB/LNA Power Supply Alarms
- Control Parameters: Units Online / Offline
- Switch over time Form "C" Relay Contacts: 100mS

**Power Supply Requirement**

- AC Input Voltage: 110 / 220 ±10% VAC 47/63Hz
- Power Consumption: 30W typ

**Environmental**

- Operating temperature: -40 to 60° C Outdoor Unit
- Relative Humidity: up to 95% (non-condensing)
- Relative Humidity: up to 100% (non-condensing)

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**Specifications may be subject to change**

03/07/17
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System Block Diagram for RCU-Receive

System Block Diagram for RCU-Transmit