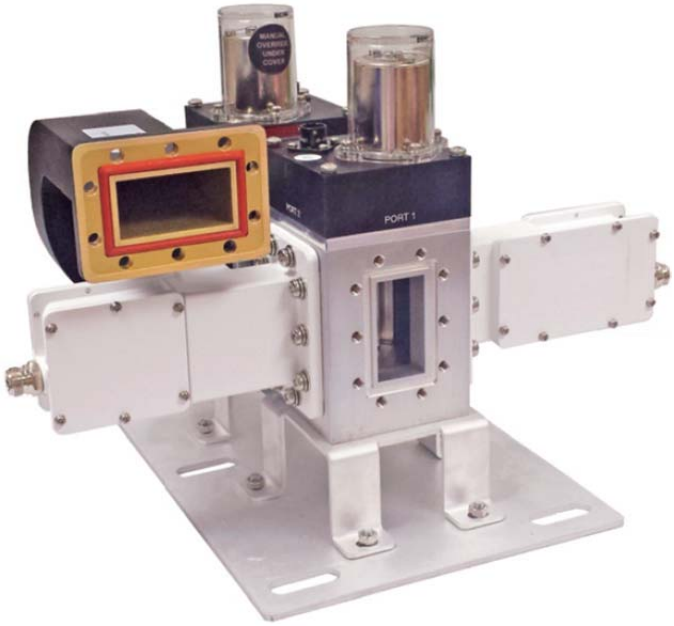
Redundancy Control Unit 1+1/2+1

LNA/LNB C and Ku Band

RoHS COMPLIANT



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

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Specifications			
Input Characteristics	C Band		Ku Band
Frequency Range	3.4-4.2GHz (for Std C Band LNA/LNB) 4.5-4.8GHz (for Insat C Band LNA/LNB)		10.70 ~10.95GHz(for Ku-Band LNB) 10.95 ~11.70GHz(for Ku-Band LNB) 11.70 ~12.20GHz(for Ku-Band LNB) 12.20 ~12.75GHz(for Ku-Band LNB) 10.70 ~12.75GHz(for Quad-Band LNB/LNA)
VSWR	1.5:1 max		
Output Characteristics	L Band	C Band	Ku Band
Frequency Range	950-1700MHz (For LNB)	3.4-4.2GHz(Std C LNA) 4.2-4.8GHz(Ins C LNA)	10.70 ~12.75GHz (for Ku-Band LNA)
Impedance	50 Ohm N Type Female(C-Band LNB/LNA & Ku-band LNB)		
VSWR	1.5:1 mac		
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 0 to 50°.C Indoor Unit	
	Relative Humidity	up to 95% (non-condensing) up to 100% (non-condensing)	

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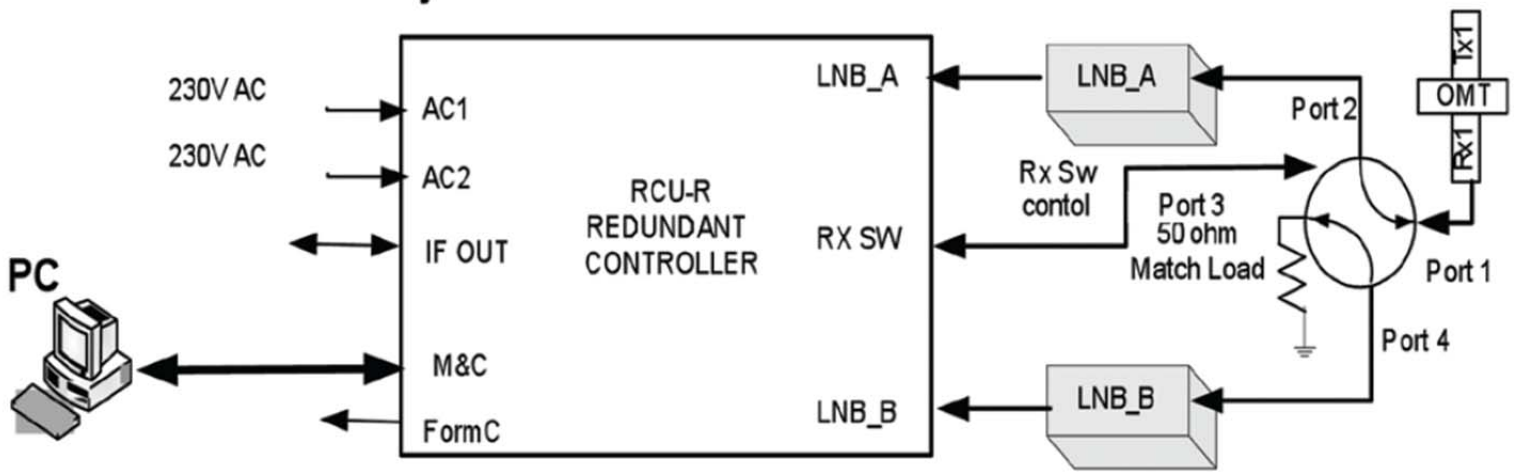
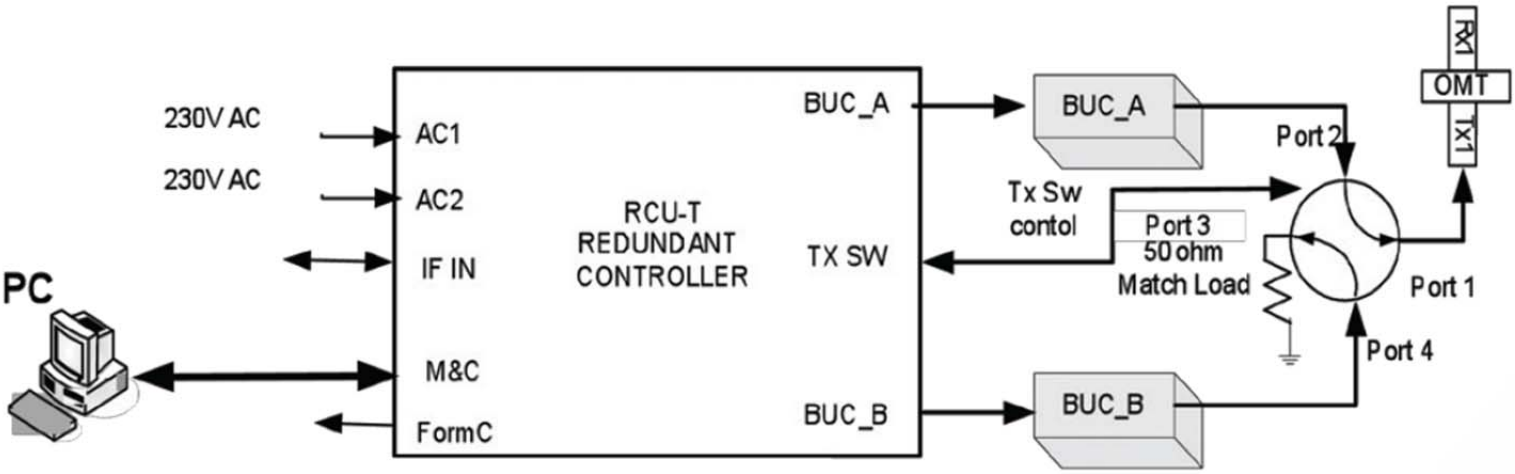
System Block Diagram for RCU-Receive

1:1 Redundant system for LNB units with RCU -R controller



System Block Diagram for RCU-Transmit

1:1 Redundant system for BUC units with RCU -T controller



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