



Redundancy Control Unit 1+1

BUC <70W and LNA/LNB

C, X and Ku Band



IDU model



ODU model

For LNB redundancy and Buc Redundancy <70W (BUC's above 80W have redundancy built in)

Key Features

- Provides power supply and reference signal to redundant LNB units
- Power supply in 1:1 redundant mode is available
- Supports C, X and Ku-Band LNB, LNA and BUC units
- Programmable attenuation on each path to equalize the path gains for reliable and out-standing operation performance
- Built-in 1:1 extremely stable 10MHz OCXO (Optional)
- 10MHz reference available in 1:1 redundant mode
- Redundant 90-260 VAC power supply input
- Fault indication by LED display
- King post / pole mount outdoor unit with IP65 rated
- RS232/RS485 serial and SNMP for remote monitoring & control
- Form C contact closure outputs
- Field programmable firmware
- Indoor rack mount version available
- 48VDC isolated power supply optional

Reliability

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

Order Examples: RRCU-L-BUC-1+1-IDU-g11

Description: (Redundancy Control Unit, L-Band (950-1700MHz) BUC, 1+1 Redundancy Rack mount System Indoor Unit)

Additional Options: Down Converter, C, X, Ku Band (LNA/LNB) (outdoor)

Note; This Redundancy Control Unit Used for LNA LNB and BUCs under 80Watts

Redundancy Control Unit 1+1 BUC <70W and LNA/LNB C, X and Ku Band

Specifications					
Input Characteristics		L Band	C Band	X Band	Ku Band
Frequency Range		950-1700MHz (For LNB & BUC	3.4-4.2GHz (for C Band LNA)	7.25 ~ 7.75GHz (for X-Band LNA)	10.70 ~12.75GHz (for Ku-Band LNA)
Impedance		50 Ohm N Type Female			
VSWR		1.5:1 max			
Output Characteristics		L Band	C Band	X Band	Ku Band
Frequency Range		950-1700MHz (For LNB & BUC	3.4-4.2GHz (for C Band LNA)	7.25 ~ 7.75GHz (for X-Band LNA)	10.70 ~12.75GHz (for Ku-Band LNA)
Impedance		50 Ohm N Type Female			
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 LNA/LNB-A to LNA/LNB-B		30dB Min			
10MHz Output Power Level		0dBm Typical			
DC Voltage Supply to LNA/LNB		24V // 48V (optional)			
DC Current Supply to LNA/LNB		8A max			
Transmit Transfer Parameters for BUC					
Insertion loss		6dB Max			
Full band Gain Flatness		1.5dB Max			
36MHz Gain Flatness		0.5dB Max			
Isolation LNA/LNB-A to LNA/LNB-B		30dB Min			
10MHz Output Power Level		0dBm Typical			
DC Voltage Supply to LNA/LNB		14-16V // 24V (optional)			
DC Current Supply to LNA/LNB		8A@24V max 4A@48V max			
Monitor & Control Features					
Interfaces		RS232- RS 485 and Ethernet SNMP (Optional)			
Monitoring Parameters		LNB/LNA/BUC Alarms; Power Supply Alarms			
Control Parameters		Units Online / Offline Gain adjustment			
Switch over time		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)		
Mechanical		Dimension			Weight
	In door	19" Rack 480L x 330W x 44H mm			3.5Kg
	Out door	280L x 215W x 95H mm (outdoor)			4.0Kg

RRCU-(C-X-Ku)-BUC-LNA-LNB-IDU-1+1-Generic-g11

Specifications may be subject to change

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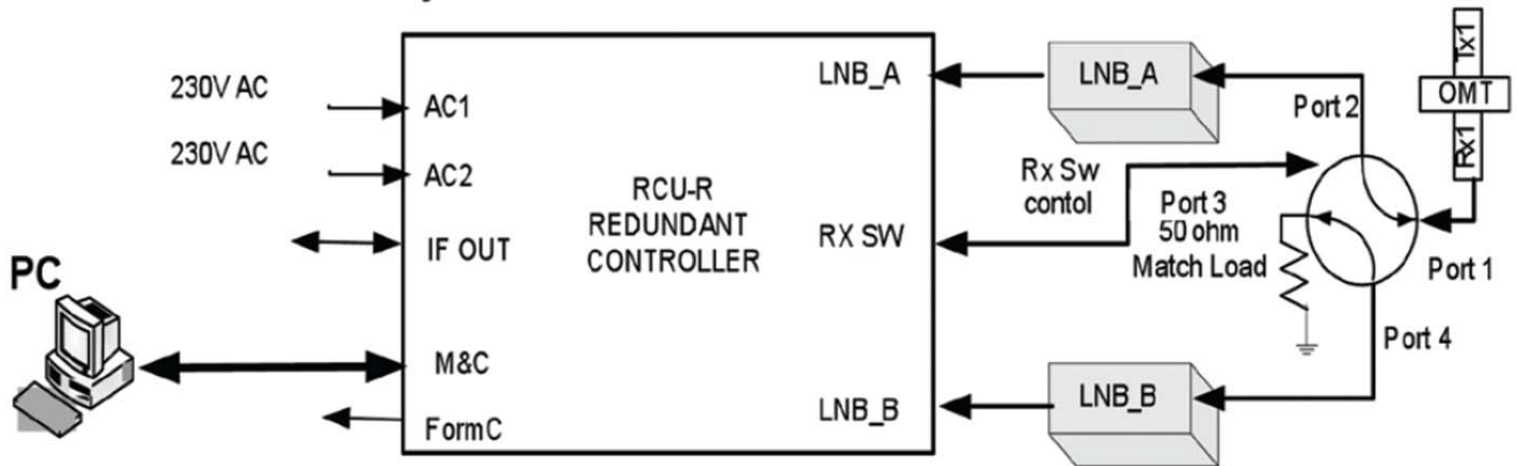
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System Block Diagram for RCU-Receive

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

