

# Low Noise Amplifiers & LNA Systems



PARADISE  
DATACOM

AN INTELLEX GROUP COMPANY

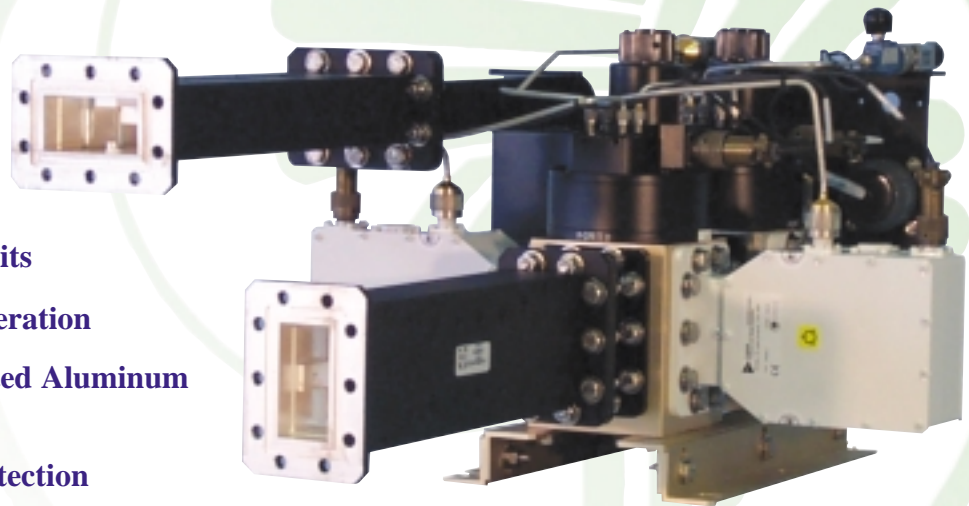
## Overview

Paradise Datacom LNAs offer premium performance and reliability in the most versatile package available for Low Noise Amplifiers. The latest technology in GaAs HEMT devices produces the lowest possible noise temperatures in an uncooled LNA. System performance is enhanced by outstanding gain stability and gain flatness. In addition, the LNA is backed by a 36-month warranty and by more than 30 years experience in the design of high performance communications amplifiers.

The performance of our LNAs is matched by a full range of features chosen with the communication system designer in mind. From the compact weatherproof housing to the standard combination of RF cable and circular connector DC input, Paradise Datacom's LNAs are ready for integration into your system.

## Features:

- ❖ Outstanding Gain Flatness and Gain Stability
- ❖ Input and Output Isolators on most units
- ❖ +12 to +28 VDC Operation
- ❖ Weatherproof, Painted Aluminum Housing
- ❖ Reverse Voltage Protection
- ❖ Pressurizable Input



## Options:

- ❖ 1:1 Redundancy
- ❖ 1:2 Redundancy
- ❖ Dual 1:1 Redundancy
- ❖ Custom Configurations

Contact your *Paradise Datacom* Sales Representative for more information!

## SATCOM LNAs

Frequency (GHz)	Noise Temperature (K)	Gain (dB)	Input Voltage	Weight		Dimensions	
				(lb)	(kg)	(inches)	(millimeters)

### C-Band (RF-3000 Series)

3.7 to 4.2	30, 35, 40, 45	50, 60, 65, 70	+12 to +28 VDC or A1 = 85 - 265 VAC, 47-440 Hz or A3 = -18 to -64 VDC	2.5	1.1	4 X 6.11 X 2.75	102 X 155 X 70
3.625 to 4.2 = B3	30, 35, 40, 45						
3.6 to 4.2 = B2	30, 35, 40, 45						
3.4 to 4.2 = B1	35, 40, 45						
4.5 to 4.8 = B4	40, 45						

### X-Band (RF-7500 Series)

7.250 to 7.750	45, 50, 55, 60, 65, 70	50, 60	+12 to +28 VDC or A1 = 100 - 240 VAC, 47-440 Hz or A3 = -18 to -64 VDC	2.5	1.1	3.38 X 10.70 X 1.93	86 X 272 X 49
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### Ku-Band (RF-2130 Series)

10.70 to 11.70	65, 70, 75, 80, 85, 90, 95, 100	50, 60	+12 to +28 VDC or A1 = 85 - 265 VAC, 47-440 Hz or A3 = -18 to -64 VDC	2	1	2.57 X 9.64 X 2.12	70 X 245 X 54
10.70 to 12.75							
11.70 to 12.20							
11.80 to 13.00							
12.20 to 12.75							

## Redundancy Systems

### System Configurations

1:1 Redundancy	1:2 Redundancy	Dual 1:1 Redundancy	Custom
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Available System Options		Notes
-1	Transmit Reject Filter	>55 dB rejection above 5.85 GHz
-2	Test Inject Coupler	Customer specified 30 or 40 dB coupling
-3	Off-line I/O	
-4	Output Coaxial Coupler	Customer specified 30 or 40 dB coupling
-5	Variable Attenuator (on-line output(s))	30 dB manual attenuation range
-6	Remote Control Panel	
-7	Chassis Slides	For use with redundant control panel
-8	-48 vdc Operation	Line input voltage for redundant control panel

**NOTE:** Specifications are subject to change without notice. Individual specifications available upon request.