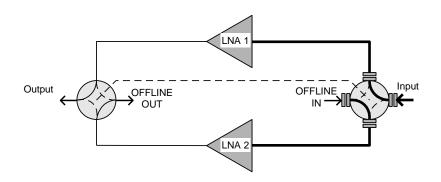
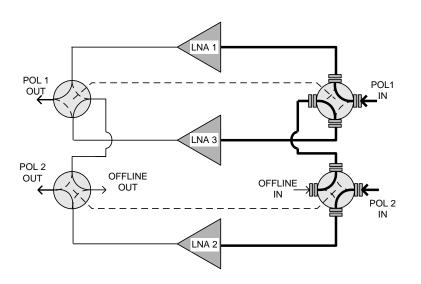
INTRODUCTION

- Redundant LNA/LNB systems minimize system downtime due to LNA or LNB failure by providing a hot spare LNA/LNB and an automatic means of switching to the hot spare once a primary link is failed.
- At the heart of all Advantech Wireless AWLA series redundant LNA/LNB systems are field-proven LNA (Low Noise Amplifier) product lines. All common C, Ku and X-band frequencies are available, and have state-of-the-art noise temperature performance. These LNAs can be used in 1:1 and 1:2 redundant systems. Typically, the systems consist of an outdoor redundant controller that is mounted in the antenna hub and an indoor control panel (option).





1:1 REDUNDANT LNA SYSTEM





1:2 REDUNDANT LNA SYSTEM

LNA/LNB REDUNDANT CONTROLLER FEATURES

- Compact plate mounted monitor & control system with RS-485 & RS-232 interfaces
- · Dual power supplies
- High quality waveguide/coaxial switches
- · LNA current monitoring to detect faults
- Automatically switching to standby LNA /LNB upon failure of a primary link
- Offline LNA I/O for test (optional)
- · Advantech Wireless Low Noise Amplifiers, or third party LNBs

CONTROL PANEL FEATURES (Optional)

- Standard 19" rack panel, 31/2" high
- User-friendly M&C provided locally as well as through a standard RS-485 serial interface
- · Manual redundant operation
- Auto-ranging AC power supplies 85- 264 VAC @47 to 63 HZ

I NA/I NR	REDUNDANT	CONTROLLER	SPECIFICATIONS
	REDUNDAN	CONTROLLER	SELGIFICATIONS

Status Monitor Method

The plate controller monitors LNA/ LNB bias current. Alarm is

generated if current is out of defined window size

Window Size 5% to ⊕25% of nominal

Switchover Time 100 ms

Serial I/O Interface

RS-232 MS3116F10-6S; 9600, N, 8,1, Terminal mode

4-wires RS-485 MS3116F10-6S; Advantech protocol

AC Power Input MS3106F10-3S; $220 \text{ VAC} \pm 15\% \text{ or } 110 \text{ VAC} \pm 10\%$.

Temperature: Operating -40°C to +55°C

Storage -55°C to +85°C

Relative Humidity: 100% max., condensing

Altitude: 10,000 feet AMSL, de-rated 2°C/1,000 feet from AMSL

ORDERING INFORMATION

A complete model number for ordering consists of a basic number followed by a four-field option code, as follows:

AWLA - C1 C-band 1:1 redundant LNA system
AWLA - C2 C-band 1:2 redundant LNA system
AWLA - Ku1 Ku-band 1:1 redundant LNA system
AWLA - Ku2 Ku-band 1:2 redundant LNA system
AWLA - X1 X-band 1:1 redundant LNA system
AWLA - X2 X-band 1:2 redundant LNA system

Note: For redundant LNB systems, add the suffix-B. For example:

AWLA-Ku2-B is a 1:2 redundant Ku-band LNB system

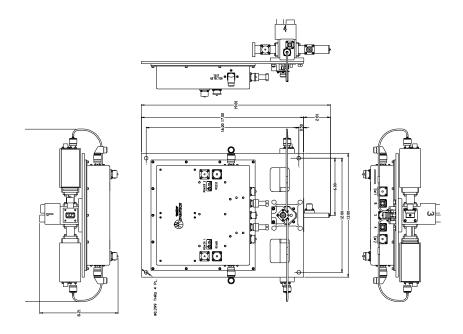


Figure A. Outline drawing of 1:1 Ku-band redundant system

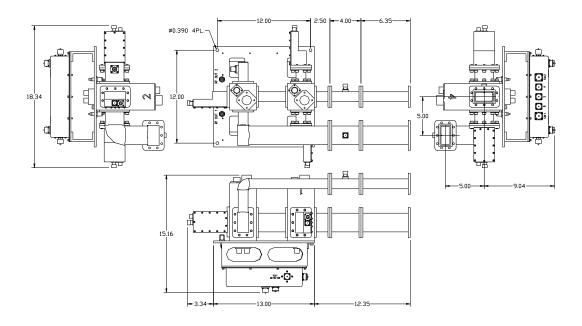


Figure B. Outline drawing of 1:2 C-band redundant system

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