



**“HOT SWAPPABLE” RF TRAYS, 1:1 REDUNDANT MODEL**

This RF Amplifier Line Driver System offers gain and gain adjustment at RF frequencies. This system is designed to compensate for long cable run loss and to provide system redundancy. The 1:1 Redundant System provides automatic and manual switchover modes of operation.

**STANDARD FEATURES**

- RS422, RS485 and 10/100 Base-T Ethernet
- Fault tolerant design
- Fully redundant, hot swappable RF trays with power supplies (1:1 redundant models)
- Remote status
- Module current fault detection
- Front panel module current alarm
- Auto/manual mode
- Off-line input/output access (1:1 redundant units)
- Output power detector (-5 to +30 dBm)

Frequency (GHz)	Dual Channel Model Number	1:1 Redundant Model Number
5.825-6.425	ALD-582642	ALR-582642
13.75-14.5	ALD-137145	ALR-137145

## SPECIFICATIONS

Gain	33 ±3 dB at center frequency
Amplitude Response	±0.25 dB/40 MHz, ±1 dB/output frequency band
Gain Adjust	20 dB minimum
Power Output (1 dB Compression)	30 dBm minimum
Third Order Intercept Point	40 typical, 35 dBm minimum
Channel-to-channel Match	0.5 dB maximum
Noise Figure	10 dB maximum
Spurious (Signal Independent)	Below thermal noise
Isolation	50 dB minimum
Input Return Loss	18 dB/50 ohm minimum
Output Return Loss	18 dB/50 ohm minimum
Input Level (Non-damage)	+10 dBm maximum
Temperature Stability	± 0.25 dB over any 20°C ±0.75 dB over 0°C to 50°C
Output Power Detector	-5 to +30 dBm

## PRIMARY POWER REQUIREMENTS

Voltage.....	90-250 VAC
Frequency.....	47-63 Hz
Consumption .....	25W typical
Fuse.....	T1.25A

## SUMMARY ALARM

Contact closure/open for DC voltage and/or amplifier alarm.  
Status alarm readout on remote control bus

## PHYSICAL

Weight .....	10 pounds (4.5 kg) nominal without rack slides 14 pounds (6.4 kg) nominal with rack slides
Chassis Dimensions .....	19" x 1.75" panel height x 20" maximum
Connectors -	
RF.....	SMA female
Summary Alarm .....	DE-9P
Remote Interface.....	DE-9S for RS422, RS485 RJ-45 female for Ethernet
Primary Power.....	IEC-320

## ENVIRONMENTAL

Operating -	
Ambient Temperature .....	0 to 50°C
Relative Humidity .....	Up to 95% at 30°C
Altitude .....	Up to 10,000 feet
Non-operating -	
Ambient Temperature .....	-50 to +70°C
Relative Humidity .....	Up to 95% at 40°C
Altitude .....	Up to 40,000 feet
Shock and Vibration .....	Normal handling by commercial carriers