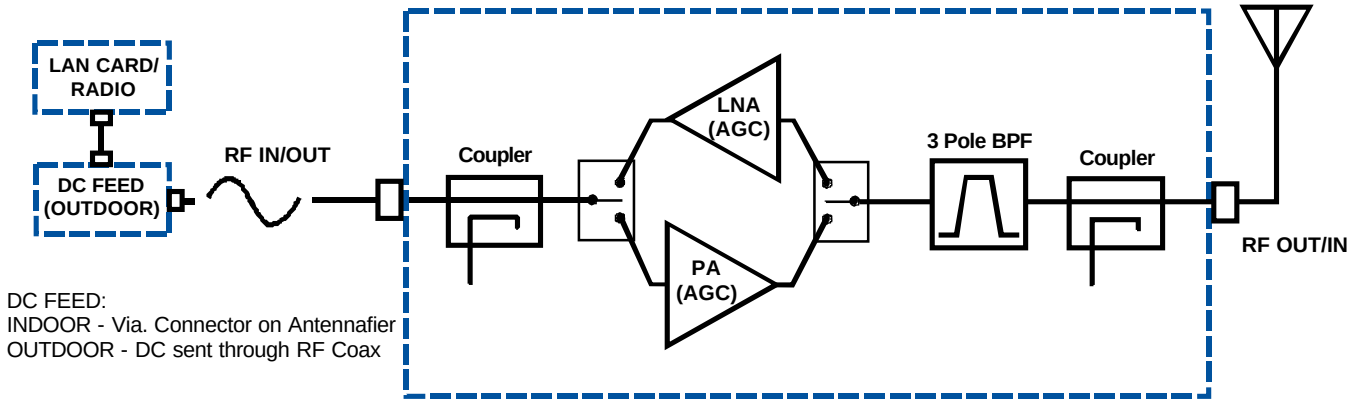
ANTENNAFIER™ 2400 L SERIES

The Antennafier™ 2400 LX and LE series are AGC compensated for constant Power Output Bi-directional Amplification. This provides constant maximum output power at the antenna over a wide RF input range. An antenna amplifier significantly improves the link reliability and operating range by Low Noise Amplification in Receive Mode, and Spectrally Clean Power Amplification in Transmit Mode. This amplifier has unique internal 3-Pole filtering and AGC in both the TX and RX paths. This combination provides exceptional cosite performance in high traffic areas.

Featured Highlights:

- High Dynamic Range
- 3 Poles of High Q filtering in both TX/RX paths
- Extremely low transmit harmonics
- Transmit AGC (Automatic Gain Control)
- Low Receive Noise Figure
- Internal Lightning Protection
- RX High Level AGC (preserves Noise Figure while providing maximum input dynamic range even with high inband RF levels.
- TX/RX LED Indicator
- Automatically switches between TX/RX
- Rugged Weatherproof Housing

ANTENNAFIER™ 2400 L SERIES BLOCK DIAGRAM



DC FEED:
INDOOR - Via. Connector on Antennafier
OUTDOOR - DC sent through RF Coax

This amplification device is an RF subassembly. Its use in an RF system is subject to FCC approval.

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RF LINX CORPORATION

Typical Performance Parameters

Frequency Coverage:	2.44 GHz +/- 50MHz	
Supply Voltage:	+12 to 15VDC	
	Indoor Unit Connector	2.1mm I.D. (+), 5.5mm O.D. (-)
Receive:	Gain:	20 dB +/- 2 dB (Pin < -12dBm)
	High Level AGC Gain:	Maintains Rcv Chain linearity when Rcv Pin > -12dBm by automatically reducing gain. High Level Rcv Gain = 4 dB +/- 2 dB
	Noise Figure:	5 dB
	Supply Current:	< 200mA
	TX to RX Switching:	2 µSec
	IP_3 (Input):	+13dBm
Transmit:	AGC Gain :	Automatically adjusts to specified Power Output Loop 3dB Bandwidth = 150 KHz
	RF Input Pwr for Turn-On:	> +2dBm to +20 dBm
	Harmonic Rejection:	> 70dBc @ Power Out
	Supply Current:	< 900mA
	RX to TX Switching:	2 µSec
Maximum Ratings:	Pin (Radio Port)	+30 dBm
	Pin (Antenna Port)	+27 dBm
System Filtering:	An internal 3-Pole Filter in both RX and TX Paths provides superior cosite performance achieving Maximum Dynamic Range and Low Harmonic Distortion.	
Size / RF Conn:	2.53” x 5.90”x 1.45” (“N” type Female Connectors)	
Weight:	< 15 oz	
Chassis:	Watertight Diecast Aluminum with tough black powder paint. Internal PCB is sealed via conformal coating to enhance weather protection.	
Indicator LED:	Green LED -Receive Mode, Red LED-Transmit Mode	
Lightning Suppression:	1/4 wavelength short	

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ANTENNAFIER™ Ordering Guide

Series	-	Power	Description
2400 LX		2 W (+33dBm) 1 W (+30dBm) 0.5 W (+27dBm) 0.25 W (+24dBm) 0.10 W (+20dBm)	Outdoor Rated Amplifier with mounting bracket and stainless steel hardware included. The Kit version includes a 2.4 GHz DC FEED and 15VDC Wall Mount Power Supply.
2400 LE		2 W (+33dBm) 1 W (+30dBm) 0.5 W (+27dBm) 0.25 W (+24dBm) 0.10 W (+20dBm)	Indoor Rated Amplifier, with 15VDC Wall Mount Power Supply, mounting bracket and stainless steel hardware included
2400 LU		Up to 2 Watts	Custom "Built to Order", Specify RX Gain, TX Gain. Indoor or Outdoor model available. Kit includes 15VDC Wall Transformer, stainless steel hardware and 2.4 GHz DC FEED & mounting bracket where applicable.

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