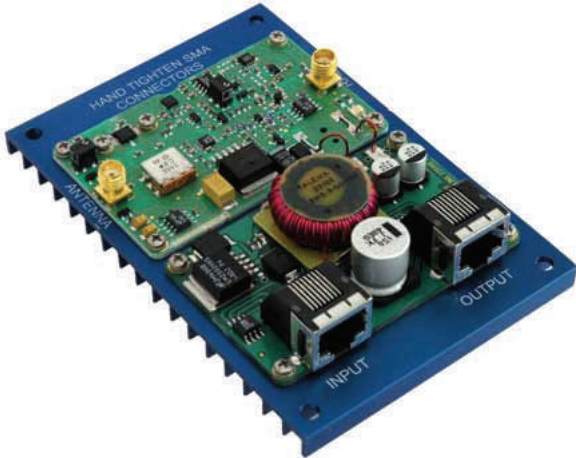


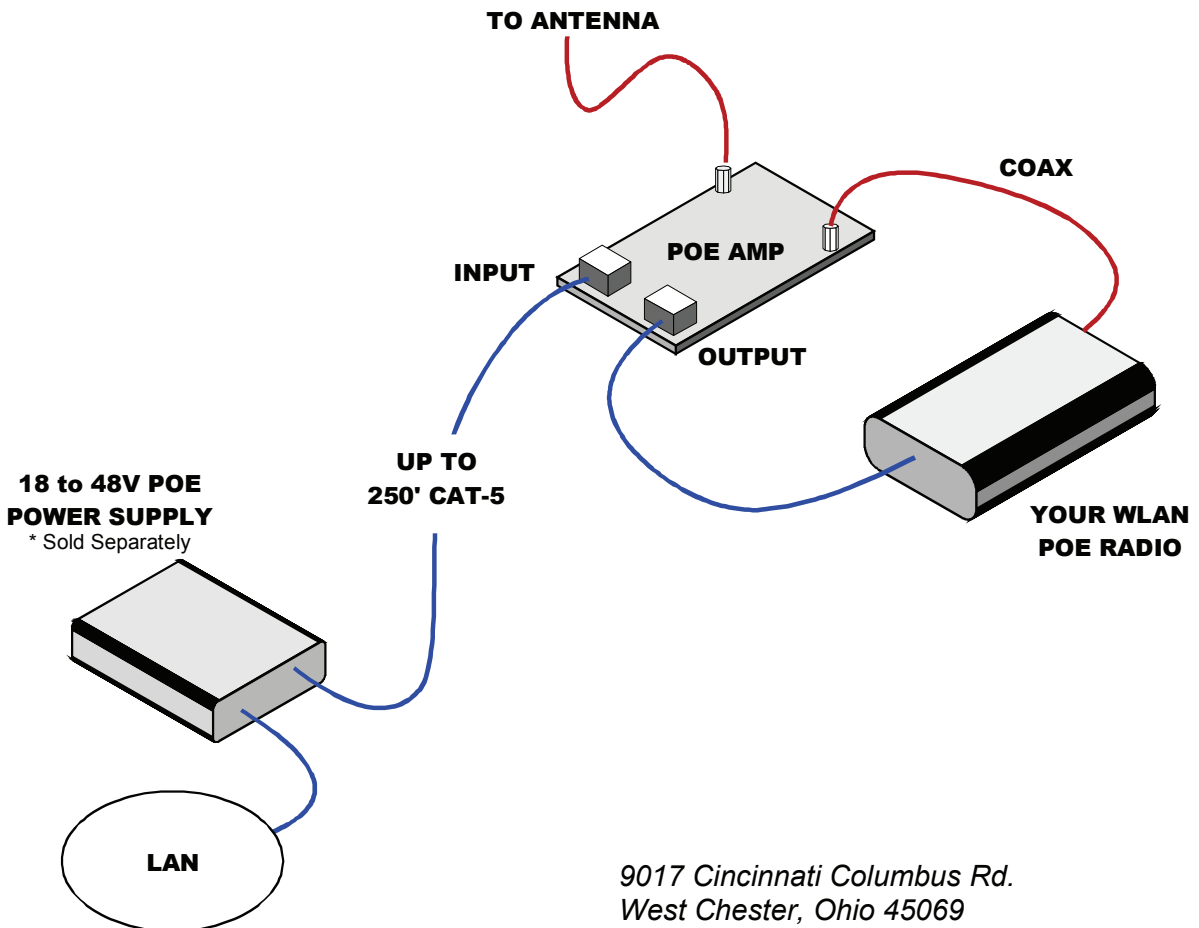
ANTENNAFIER™ 2400 CAE-POE SERIES



Get the high performance of our 2400CA series Antennafier™ with POE. This Bi-Directional Amplifier provides a system integrator a cost effective OEM solution. Now you can power your amplifier and radio using a single CAT-5 line and eliminate the high RF losses associated with coaxial cable. Using this Antennafier™ in front of your radio will improve link reliability and operating range by providing Low Noise Amplification in RX and Spectrally Clean Power Amplification during TX. These amplifiers are our newest line of 802.11g/b compatible smart Bi-Directional RF amplifiers for use with POE WLAN applications.

Featured Highlights:

- TX power up to 1W (+30dBm) in 802.11g/b
- One CAT-5 powers both Amp and Radio
- Surge protection on CAT-5 data and Pwr Lines
- OEM maximum performance-minimum cost
- 3 Poles of High Q filtering in both TX/RX paths
- Low noise high dynamic range AGC Amplifier
- Extremely low transmit harmonics



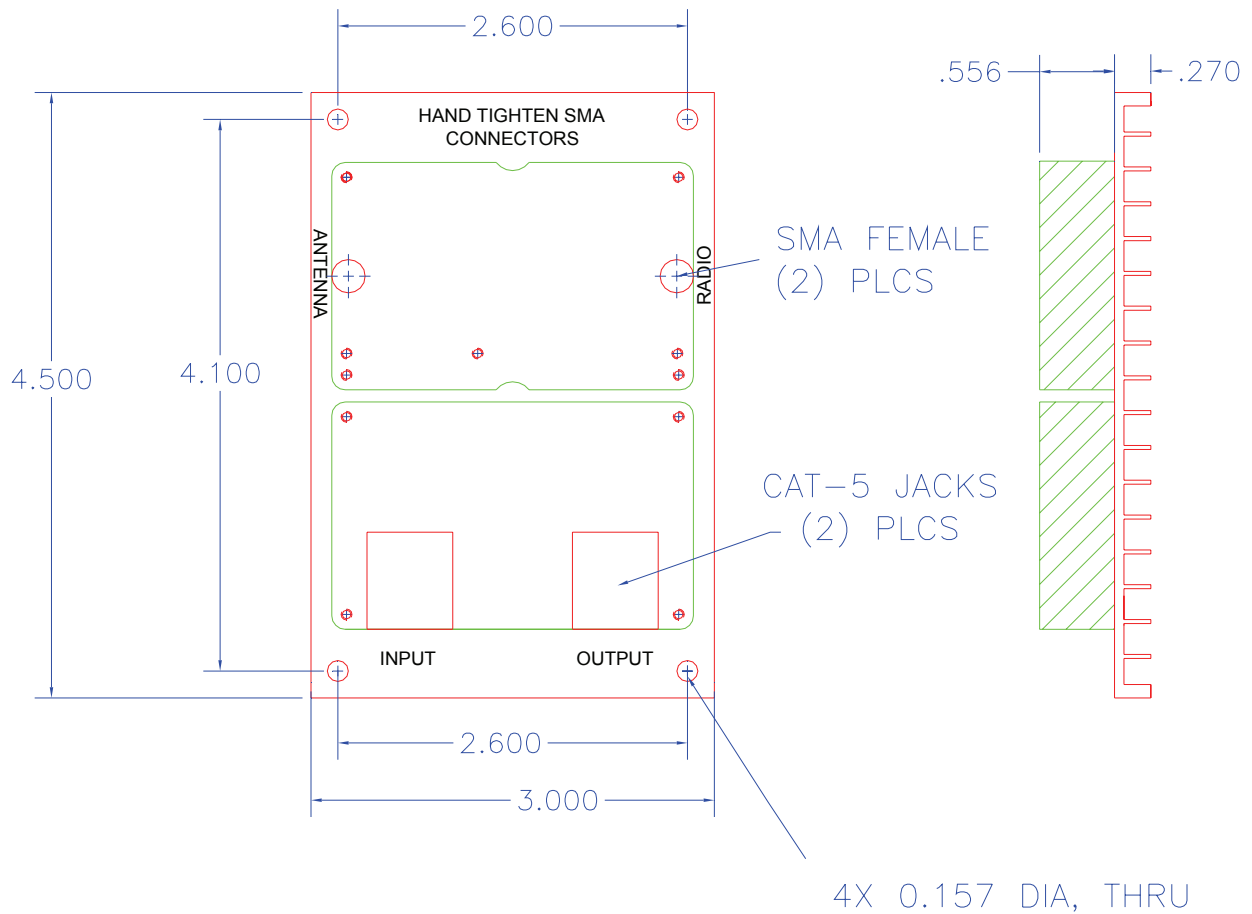
9017 Cincinnati Columbus Rd.
West Chester, Ohio 45069
PH: 513-777-2774

Typical Performance Parameters

Amp POE Input Voltage:	+18 to 50 VDC	V+ (Pins 4,5 on CAT-5 In/Output Jack) V- (Pins 7,8 on CAT-5 In/Output Jack) DC Power Passes thru to Radio 500W surge protection on Data Lines
Frequency Coverage:	2.442 GHz +/- 50MHz	
Receive:	Gain: 'g' Modulation Data Rates: Noise Figure: Linear Operation: Supply Current: TX to RX Switching:	20 dB +/- 2 dB (Custom gain from 0 to +23dB upon request) 54Mbps 2.5 dB Pin < -9dBm <150mA 2 µSec Typ.
Transmit:	AGC Gain : Max Rated Power Output: 'g' Modulation Data Rates: P1dBm: RF Input Power for Turn-On: Harmonic Rejection: Supply Current: RX to TX Switching:	Automatically adjusts to specified Power Output 1W (+30) dBm 1W yields 36 to 48Mbps 0.5W yields 54Mbps +32.5dBm > 1 dBm > 75dBc @ 2fo > 56 dBc @ 3fo 1W Power Output < 800 mA Max @ 1W Power Output 2 µSec Typ.
Maximum Ratings:	Pin (Radio Port) Pin (Antenna Port)	+30 dBm +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:	4.50" x 3.00"x 0.826" (w/heatsink and "SMA" Female Connectors)	
Weight:	< 5 oz	
Indicator LED:	Green LED -Receive Mode, Red LED-Transmit Mode	
Lightning Suppression:	1/4 wavelength short on Antenna side	
Temperature:	-40 to +70Deg C	

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Mechanical Outline:



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