



## 2.4GHz 1 Watt Indoor Amplifier

A highly linear bi-directional amplifier designed to work with wide range of 2.4GHz radios. Ideal for extending the range of WiFi radio equipment. The unit provides Transmit and Receive signal amplification while keeping the noise at minimum.

Also available in outdoor housing and "PCB module" format for OEM customers.

Available for sale to OEM, military and overseas customers.



Item # 24001

### Salient Features:

- Transmit Gain:** Utilizing the latest PHEMPT MMIC technology, the unit provides highly linear gain. The standard unit comes with 18dB gain. Up to 24 dB gain is available upon request.
- LNA:** The built-in Low Noise Amplifier with signal gain of 18 dB improves the receive sensitivity of remote equipment, while keeping noise level very low.
- Receive Filtering:** All radio equipment contain filter for receive path. The band pass filter on this amplifier gives added protection against out of band noise.
- Enclosure:** The unit is housed in machined, Anodized Aluminum enclosure, designed according to the location of critical components. With appropriate cavities and contacts the PCB performs optimally.
- Warranty:** All Shireen's products come with 2-year warranty.

### The complete set includes:

- The Amplifier, an indoor unit, and
- Universal power supply (110~240VAC to 9 V DC)

## Specifications

### Electrical:

Operating Range	2400 - 2500 MHz
Operating Mode	TDD, Time Division duplex,
Transmit Power	30 dBm, 1 Watt
Transmit Gain	18 dB (factory adjustable up to 24dB)
Transmit input Power	3 dBm min 20 dBm max
Receive Gain	18 dB
Noise Figure	3.5 dB
LED indicators	Red for Receive (Default mode) Green for Transmit
Power Consumption	90mA Rx, 850mA Tx @ 9 VDC
Operating Temp	-40 °C to + 70 °C

### Mechanical:

Dimension:	1.8" x 4.1" x 1.0" (45.7mm x 104.2mm x 25.4)
Enclosure:	Machined aluminum housing with Anodized finish
Connectors:	Type N female (Also available with SMA or TNC connectors)
Weight:	6.4 Oz. (183 g)