



## 2.4GHz 1 Watt Amplifier USB Powered

**With 2"x 1.4", this is the smallest and most efficient 1 watt indoor unit available in the market.**

This unit consumes so little power, that it can be powered via USB \* cable, (optional). For all laptop users on the go, simply power it via USB port and connect with the wireless LAN card.

It delivers full 1 watt output with 20dB of Tx gain and 22dB Rx gain



Item # 24251

### Salient Features:

1. **Transmit Gain:** Utilizing the latest Gallium Arsenide Hetero-junction Bipolar Transistor (HBT), the unit provides highly linear gain with high efficiency.
2. **LNA:** The built-in Low Noise Amplifier with signal gain of 22 dB improves the receive sensitivity of remote equipment, while keeping noise level very low.
3. **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.
4. **Enclosure:** CNC machined AL housing
5. **Power consumption:** The most efficient 1 watt product available anywhere.
6. **Warranty:** All Shireen's products come with 2-year warranty.

### The complete set includes:

1. 1 watt amplifier unit
2. Universal power supply (110~240VAC to 6 V DC)
3. Optional USB cable



## Specifications:

### Electrical:

Operating Range	2400 - 2500 MHz
Operating Mode	TDD, Time Division duplex,
Transmit Power	30 dBm, 1 Watt
Transmit Gain	20 dB
Transmit input Power	3 dBm min 15 dBm max
Receive Gain	22 dB
Noise Figure	2.5 dB
LED indicators	Red for Receive, Green for Transmit (visible only when cover removed)
Power Consumption	40mA Rx, 800mA Tx @ 6 VDC
Operating Temp	-40 °C to + 70 °C

### Mechanical:

Dimension:	2.55" x 1.35 (including connectors)
Enclosure:	CNC machined , anodized Aluminum
Weight:	10 Oz. (283 g)
Connectors:	SMA female for radio side SMA RP Female for antenna side
Weight:	2.0 Oz. (134 g)

\* USB power only for data applications only. For video use, the power must be from the AC adapter supplied with the unit