2.4GHz 1 Watt Amplifier
USB Powered

With 2"x 1.4", this is the smallest and most efficient 1 watt amplifier 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

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 dBm
- **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
- **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.
** Maximum input power for OFDM may vary.