



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



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 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 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.

** Maximum input power for OFDM may vary.