

Circuit Description

Operation: The EUT is a Wireless 150M wireless USB adapter. This device is backward compatible with 802.11n and 802.11b/g standards. It supports higher data throughput than the IEEE802.11g standard (up to 150Mbps). It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) radio transmission, the Wireless usb adapter Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g network.

XTAL1 the 40 MHz crystal oscillator provides the base clock source of U4 Wireless LAN network interface controller's operating. U4 drives reference differential clock for modulator and demodulator of embedded RF transceiver. U4 combines a MAC and 1T1R capable baseband and includes a USB interface for host connection. Embedded RF transceiver consists of one receivers and one transmitters used to form a complete 2.4GHz ISM band Wireless LAN application.

Antenna, Ground, and Power Source

There is one external 2.4GHz band on-board antenna. Besides Print circuit board provides copper plane ground, host provides a reference grounding connecting by USB interface. Whole system power source is fed with DC 5Volt by USB interface.

Tx frequency range: 2412~2462MHz

Modulation: CCK, OFDM, QPSK, BPSK, 16-QAM, 64-QAM