LM006 802.11n 150Mbps WLAN USB Adapter

1 Overview

The LM006 802.11n 150Mbps WLAN USB adapter is a convenient Plug & Play USB 2.0 solution that brings wireless networking to your laptop or desktop PC. With transfer rates of up to 150 Mbps you can connect to a wireless network at home, at the office or in any wireless hotspot.
Now you can stay connected wherever you are and wherever you go. Its small form factor (2.3cm long) means you can leave it connected to your laptop even when stored away.

The adapter supports the features and functional compliance of IEEE 802.11n, e and i standards. The adapter is designed to provide good performance with minimum power consumption and enhance the advantages of a robust system while being cost effective.

The LM006 is compatible with other 802.11b / 802.11g or 802.11n Wi-Fi compliant devices such as wireless router, access point or adapter.

2 Features

• Operates in 2.4 GHz frequency bands

• 1x1 SISO technology improves effective throughput and range over existing 802.11 b/g products

• Data rates up to 150Mbps

• 802.11e-compatible bursting and I standards

• BPSK, QPSK, 16 QAM, 64 QAM modulation schemes

• WEP, TKIP, AES, WPA and WPA2 hardware encryption schemes

• Friendly user configuration and diagnostic utility

• Can be setup as a ad-hoc network via peer to peer communications

• Profiles allows mobile users to save settings for different connections

• Supported on Windows XP/VISTA/7, Linux and MAC operating system

3 Packaging Options

RP - Retail Pack

1x WLAN USB Adapter - Part no 006-1004
1x CD ROM with drivers and documentation
1x Quick Install Guide

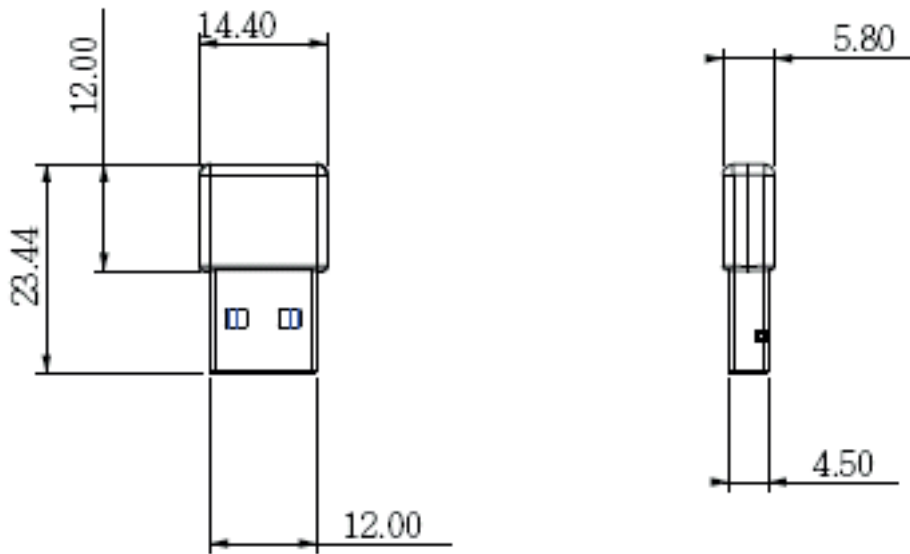# 4 General Specification

Specification	Description
Product Name	LM006 802.11n 150Mbps WLAN USB Adapter
Chipset	RTL 8188CUS
Standard	802.11 b/g/n, 802.3, 802.3u
Data Transfer Rate	1,2,5.5,6,11,12 18,22,24,30,36,48,54,60,90,120 and maximum of 150 Mbps
Modulation Method	BPSK/QPSK/16-QAM/64-QAM
Frequency Band	2.4 GHz ISM Band
Spread Spectrum	IEEE 802.11b: DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing)
RF Output Power	<14 dBm @ 11n, <17 dBm @ 11b, <14 dBm @ 11g
Operation Mode	Ad Hoc, Infrastructure
Receiver Sensitivity	11 Mbps -80dBm@8%, 54 Mbps -70dBm@10%, 130 Mbps -64dBm@10%
Operation Range	Up to 180 m in open space
LED	Power
Security	64 bit/ 128 bit WEP,TKIP, AES, WPA, WPA2
OS Support	Win XP/ Win VISTA/ Win 7/ Linux (kernel 2.6.18 ~ 2.6.38 and kernel 3.0.2)/ Mac OS v10.4-v10.7
Interface	USB 2.0
Power Consumption	Transmit: average 305 mA Receive: average 190 mA
Operating Temperature	0°C - 50°C ambient temperature
Storage Temperature	-10°C ~ 70°C ambient temperature
Humidity	5 to 90% maximum (non-condensing)
Dimension	23.44 x 14.40 x 5.80 mm (LxWxH)

Specifications are subject to change without notice

3 Dimensions

4 Revision History

Revision	Date	Comments
v1.0	21/09/2009	First Version
v1.1	13/04/2012	1. WLAN Chip changed from RTL8188SU to RTL8188CUS 2. Adapter dimensions smaller than 1st version 3. Linux kernel 2.6.38 and 3.02 support 4. Housing changed