



LM005 WLAN n USB Adapter 300Mbps

With Built-in WPS Button 802.11 b/g/n/e/i

Product LM005
Part No 005-1005
Revised 24/FEB/2016



Features

- Operates in 2.4 GHz band.
- Frequency 2.312 -2.472 GHz, 2.484 GHz.
- Data Rates of up to 300 Mbps.
- WPS button (Wi-Fi Protected Setup) for easy and secure establishment in a wireless network.
- 802.11e-compatible bursting and I standards.
- BPSK, QPSK, 16 QAM, 64 QAM, DBPSK, DQPSK, and CCK modulation schemes.
- WEP, TKIP, and AES, WPA, WPA2 hardware encryption schemes.
- Supports Soft AP for Windows XP, Vista, 7, Linux and Mac OSX 10.5-10.11 El Capitan
- Supports infrastructure networks via access point and ad-hoc network via peer to peer connections
- Up to 280m range in open space.

Overview

The LM005 is a powerful 300Mbps dongle that also fully supports the functional compliance of IEEE 802.11 e and i standards and therefore can be used across IEEE 802.11 bands g n e and i.

LM005 is supplied with a comprehensive driver package and its own software program which is compatible with Windows XP, Vista, Windows 7 and Windows 8 and Windows 10.

In addition, the WiFi a, b, g, n USB Adapter also supports Linux and Mac OSX.

It is compatible with Linux Kernel 2.6.18~2.6.38, 3.0.2 Android 1.6~2.3 & 4.0. and Mac OSX 10.5 - 10.11 (Tested with El Capitan)

The LM005 is available as Adapter only, or as a retail package with manuals.

The WiFi USB Adapter uses a Realtek RTL8192CU IC alongside an LM qualified list of components. It has been tested for temperature in a barometric chamber at -40°C and sustained a continuous working environment, enabling the WiFi dongle to work in very cold surroundings. The WiFi adapter also works comfortably in temperatures up to +70°C and able to withstand -40°C storage.

LM005 has a maximum distance of 280m outdoors and 100m indoors. In order to obtain 300Mbps bandwidth, the dongle broadcasts on 5GHz when using maximum bandwidth. The dongle also incorporates 2x2 MIMO technology which improves the effectiveness of throughput and range over existing 802.11 g. It is designed to provide excellent performance with minimum power consumption.

This WiFi adapter has competitive and superior performance, better power management applications and is very cost effective, giving it robust advantages.





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Packaging Options

SRP - Single Retail Pack
Part No 005-1001

AO - Adapter Only
Part No 005-1007

1 x WLAN USB Adapter.

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- User Guides, Manuals and configuration Software for our products are available to download via our website - <http://www.lm-technologies.com/downloads>

General Specification

Product Name	LM005
Chipset	RTL8192CU
Standard	802.11 b/g/n, 802.3, 802.3uD_SUB 9 pin female
Data Transfer Rate	1,2,5.5,6,11,12,18,22,24,30,36,48,54,60,90,120,180,240,270 and maximum of 300 Mbps
Modulation Method	BPSK/QPSK/16-QAM/64-QAM/DBPSK/DQPSK/CCK
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%, 300 Mbps -64dBm@10%
Operation Range	Indoor up to 100m, Outdoor up to 280m Max
LED	Power
Security	64 bit/ 128 bit WEP, TKIP, AES, WPA, WPA2 WPS button for easy and secure establishment of a wireless network
OS Support	Win XP/ Vista / 7/ 8 / 10, Linux (kernel 2.6.18 ~ 2.6.29) / Mac OS v10.5 to 10.11 El Capitan
Interface	USB 2.0
Power Consumption	Transmit: around 380 mA Receive: around 250 mA
Operating Temperature	-40°C to +70°C ambient temperature
Storage Temperature	-40°C to +70°C ambient temperature
Humidity	5 to 90% maximum (non-condensing)
Dimension	37mm (L) x 24.3mm (W) x 9.8mm (H)



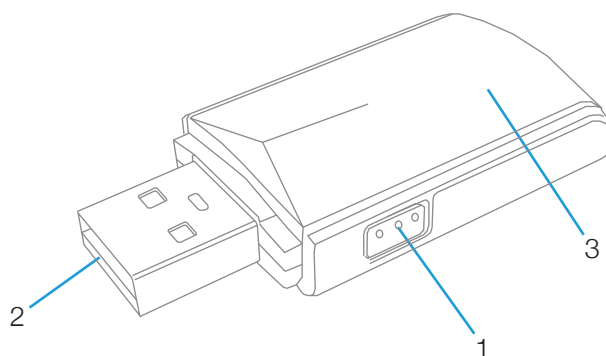
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Hardware Structure

- 1 Push Switch.
- 2 USB Connector.
- 3 Compact Casing.



Switch Functions

Reset Button

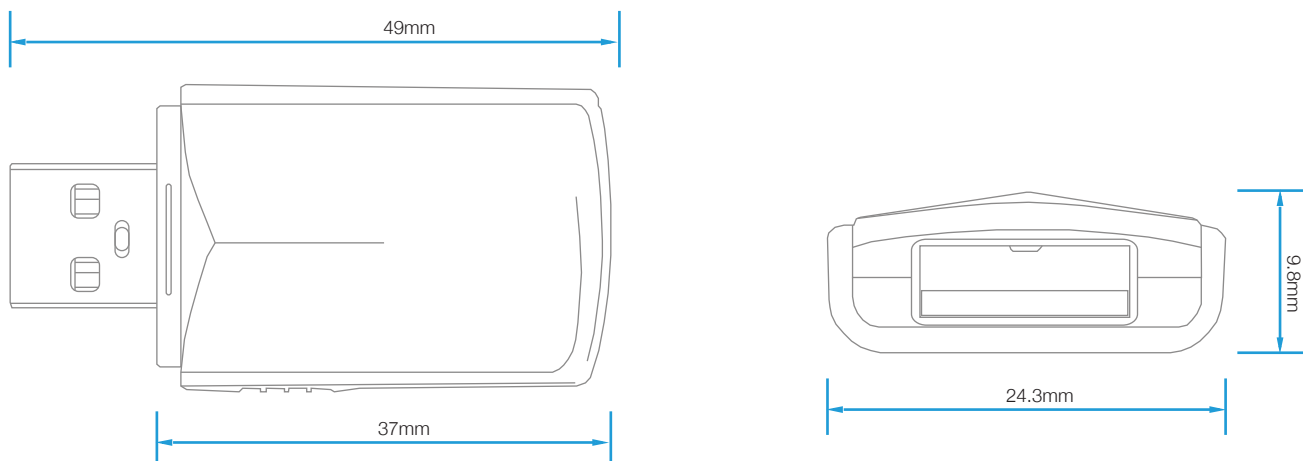
By pressing the Reset Button you can:

- Disconnect a wireless connection (after a short press).
- Restore the factory settings (after over 3 seconds press).

Slide Switch

The slide switch can swap TxD/RxD, RTS/CTS and DTR/DSR Signals. By switching, you can set the adapter as a DTE (towards antenna connector) or a DCE (towards RS232 connector).

Additional Dimensions





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Additional Information

