



User's Guide

TEW-646UBH
1.01

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INTRODUCTION

The High Power 150Mbps Wireless N USB Adapter (model TEW-646UBH) connects a laptop or desktop computer to a high speed wireless n network.

An adjustable external antenna and a 200% increase** in power output maximizes wireless throughput and coverage.

Setup is a breeze with one-touch Wi-Fi Protected Setup (WPS) technology. Advanced wireless encryption protects your valuable data. Wi-Fi Multimedia (WMM) Quality of Service prioritizes important video, audio and gaming traffic. Stream video, download files, play games, and talk online with this high power adapter.

Package Contents

This section provides unpacking and setup information for the Micro Wireless N USB Adapter.

Unpacking

The box should contain the following items:

- TEW-646UBH Micro Wireless N USB Adapter
- CD-ROM (Utility & User's Guide)
- Multi-Language Quick Installation Guide

If any item is found missing or damaged, please contact your local reseller for replacement.

System Requirements

Before installation, check the following:

- Make sure your computer is running at least a 300MHz or above processor with 256MB RAM or above
- Make sure the USB ports are is USB 2.0 port
- The operating system on your computer must be the following: XP (Service Pack 2), Windows Vista, Windows 7
- 802.11n or 802.11b/g access point or router.
- Make sure the environment has minimal interference and obstructions.

WIRELESS PERFORMANCE CONSIDERATIONS

There are a number of factors that can impact the range of wireless devices.

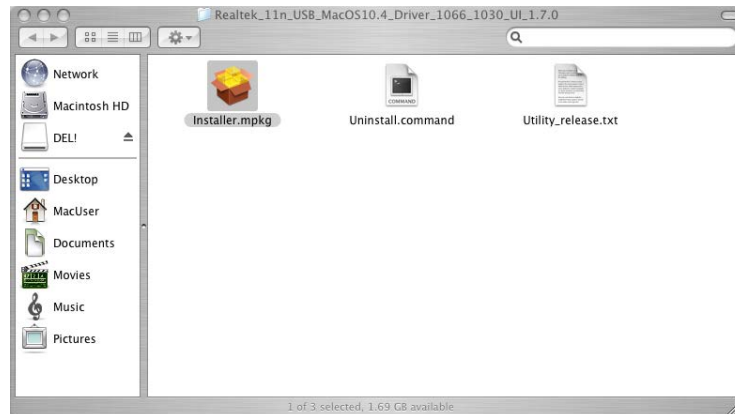
1. Adjust your wireless devices so that the signal is traveling in a straight path, rather than at an angle. The more material the signal has to pass through the more signal you will lose.
2. Keep the number of obstructions to a minimum. Each obstruction can reduce the range of a wireless device. Position the wireless devices in a manner that will minimize the amount of obstructions between them.
3. Building materials can have a large impact on your wireless signal. In an indoor environment, try to position the wireless devices so that the signal passes through less dense material such as dry wall. Dense materials like metal, solid wood, glass or even furniture may block or degrade the signal.
4. Antenna orientation can also have a large impact on your wireless signal. Use the wireless adapter's site survey tool to determine the best antenna orientation for your wireless devices.
5. Interference from devices that produce RF (radio frequency) noise can also impact your signal. Position your wireless devices away from anything that generates RF noise, such as microwaves, radios and baby monitors.
6. Any device operating on the 2.4GHz frequency will cause interference. Devices such as 2.4GHz cordless phones or other wireless remotes operating on the 2.4GHz frequency can potentially drop the wireless signal. Although the phone may not be in use, the base can still transmit wireless signal. Move the phone's base station as far away as possible from your wireless devices.

If you are still experiencing low or no signal consider repositioning the wireless devices or installing additional access points. The use of higher gain antennas may also provide the necessary coverage depending on the environment.

MAC OS X SOFTWARE INSTALLATION

This section describes how to install the driver and utility for the High Power 150Mbps Wireless N USB Adapter with MAC OS X operating system

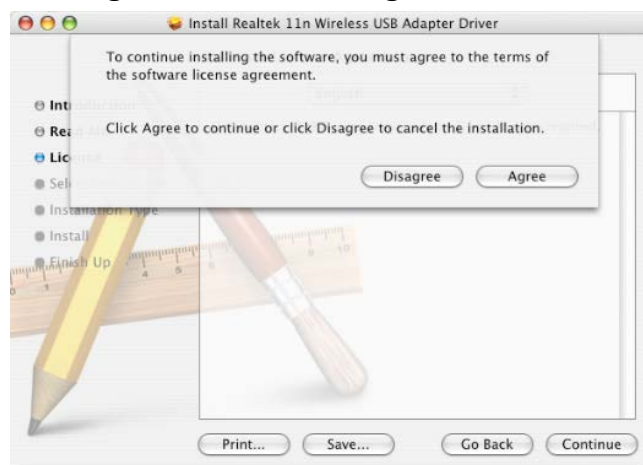
- 1) Insert the Utility and Driver CD-ROM into your computer's CD-ROM.
- 2) Browse the TEW-646UBH CD-ROM and go to MAC OS X folder
- 3) Select the correct Mac OS X version drivers to install and click "Installer.mpkg"



- 4) Click on "Continue" to continue with the installation



- 5) When prompted for license agreement, click "Agree" to continue



- 6) If prompted, select the destination volume to install the utility and click "Continue".



7) Click "Install" or "Upgrade to continue.



8) Input your password then click "OK" password.



9) Click "Continue Installation"



10) When installation is complete click on “Restart”



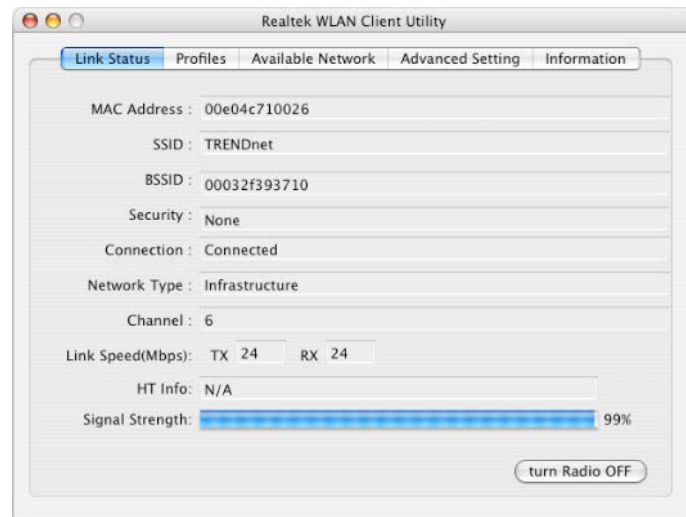
11) Once restart is completed insert the TEW-646UBH on your Mac. The wireless utility will automatically appear. IF the utility does not appear you will find the utility icon in the Dock menu. Click on the icon to start the TEW-646UBH configuration.



MAC OS X UTILITY

This section describes how to install the driver and utility for the High Power 150Mbps Wireless N USB Adapter with MAC OS X operating system

Link Status



MAC Address: Shows the MAC address of the wireless USB adapter

SSID/BSSID: Shows the SSID that USB wireless adapter is connected to

Security: Shows the type of security used

Connection: Shows the connection status of the wireless USB adapter

Network Type: Shows the type of network the wireless USB adapter is set on

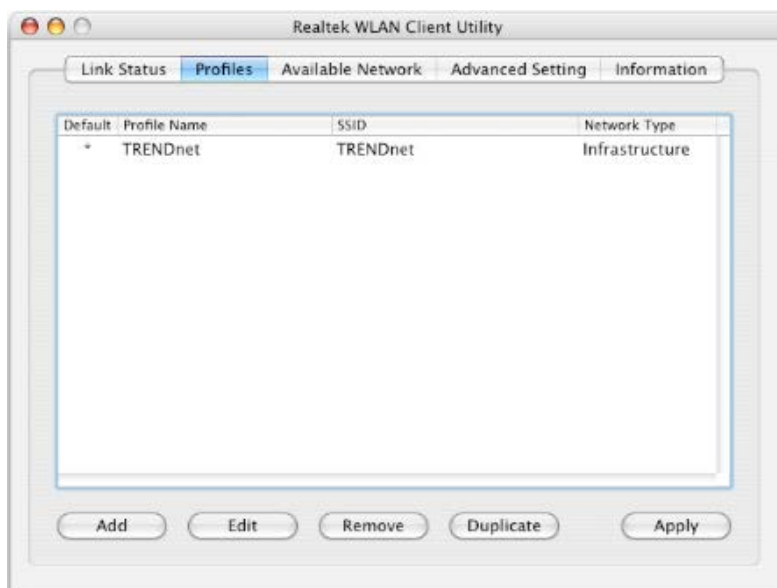
Channel: Shows the current channel being used on the connection

Link Speed: Shows the current linking speed both transmission and receive

HT Info: Shows the HT information including bandwidth 20 or 40MHz, GI (Grand Interval) short of long, MCS index when connected in 802.11n mode

Signal Strength: Shows the current wireless signal strength

Profiles



Add: Select this option to add a new profile, user can enter the necessary information required for access the access point or wireless router

Edit: View and edit the selected profile

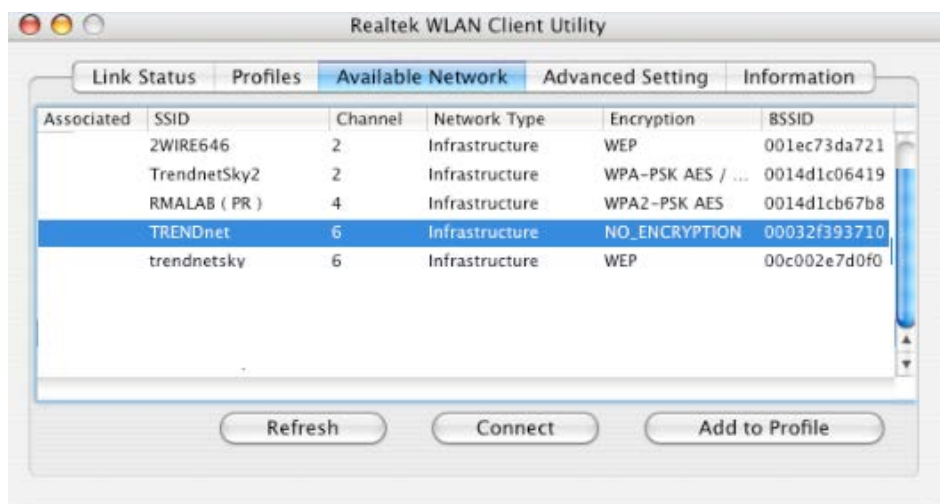
Remove: Select this option to delete the selected profile

Duplicate: Select this option to copy the selected profile

Apply: Click this option to apply/activate the selected profile

Available Network

This tab allows users to scan for available wireless networks .

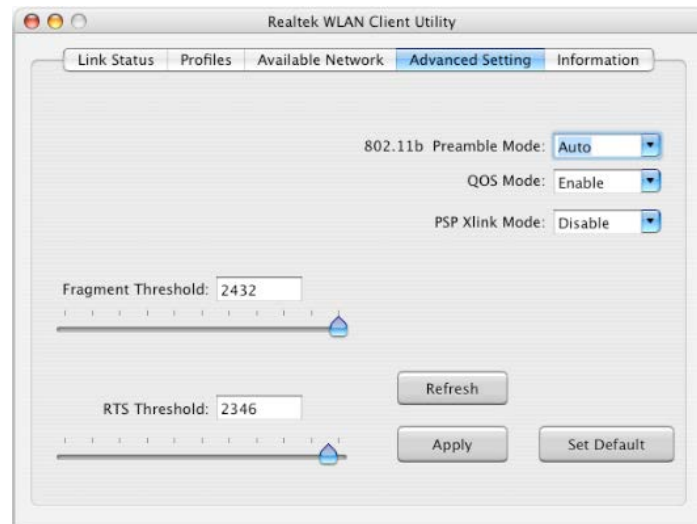


Refresh: Click this option to refresh the available network list

Connect: Click this option to establish connection to a select available network.

Add to Profile: Select an available network and click this option to save the network as a profile.

Advance Setting



802.11b preamble mode: To set the preamble mode

QOS Mode: This option allows users to enable or disable QoS feature

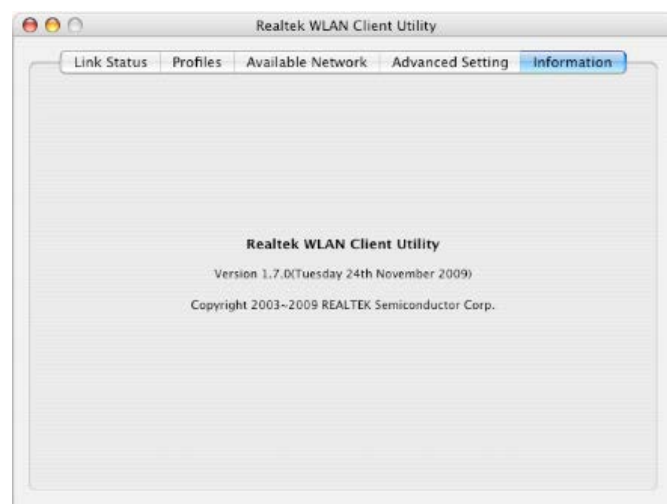
PSP Xlink Mode: This option allows users to enable or disable PSP mode

Fragment Threshold: This option allows users to set the fragment threshold of the wireless adapter:

RTS Threshold: This option allows users to set the RTS threshold of the wireless adapter:

About

This tab shows the wireless adapter's utility information



SPECIFICATIONS

Hardware	
Interface	USB 2.0
Standards	IEEE 802.11b, IEEE 802.11g, based on IEEE 802.11n draft 2.0 technology
LED Indicator	Power, Link
WPS Button	Enables WPS connection
Power Consumption	2.5 W
Antenna Connector	SMA
Supported OS	Windows: 7 (32/64-bit), Vista (32/64-bit), XP(32/64-bit) Mac: OS 10.4-10.6
Dimensions (LxWxH)	60 x 16 x 8 mm (2.3 x 0.6 x 0.3 in.)
Weight	5.7 g (0.2 oz)
Temperature	Operating: 0° ~ 55° C (32° ~ 131° F); Storage: -20° ~ 70° C (-4 ~ 158° F)
Humidity	Max. 90% (non-condensing)
Certifications	CE, FCC
Wireless	
Modulation	OFDM, DSSS
Antenna	1 x 2dBi omni-directional detachable antenna (Reverse SMA)
Frequency	2.4 ~ 2.497 GHz
Quality of Service	802.11e, WMM
Date Rate (auto fallback)	802.11b: 11Mbps 802.11g: 54Mbps 802.11n: 150Mbps
Output Power	802.11b: 15dBm 802.11g: 14dBm 802.11n: 12dBm
Receiving Sensitivity	802.11b: -78dBm at 11mpbs 802.11g: -65dBm at 54Mbps 802.11n: -93dBm at 150Mbps
Encryption	64/128-bit WEP, WPA/WPA2-RADIUS, WPA /WPA2-PSK
Channels	1~11 (FCC), 1~13 (ETSI)

LIMITED WARRANTY

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TEW-646UBH – 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of-purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet within the applicable warranty period and providing a copy of the dated proof of the purchase. Upon proper submission of required documentation a Return Material Authorization (RMA) number will be issued. An RMA number is required in order to initiate warranty service support for all TRENDnet products. Products that are sent to TRENDnet for RMA service must have the RMA number marked on the outside of return packages and sent to TRENDnet prepaid, insured and packaged appropriately for safe shipment. Customers shipping from outside of the USA and Canada are responsible for return shipping fees. Customers shipping from outside of the USA are responsible for custom charges, including but not limited to, duty, tax, and other fees.

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