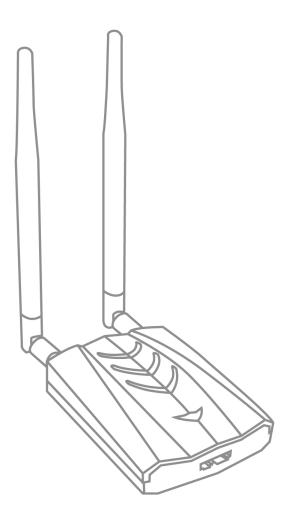
AWUS036ACH IEEE 802.11ac AC1200 USB Wireless Adapter

User's Guide



Federal Communication Commission Interference Statement



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance, (Example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions:

- (1) This device may not cause harmful interference.
- (2) This Device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

CE mark Warning

This is a class B device, in a domestic environment; this product may cause radio interference, in which case the user may be required to take adequate measures.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria Belgium, Denmark, Finland, and France (with Frequency channel restrictions). Germany, Greece, Ireland, Italy, Luxembourg .The Netherlands, Portugal, Spain, Sweden and United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states Iceland, Liechtenstein, Norway and Switzerland.

WEEE regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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1. Introduction

Thank you for your purchase of the wireless adapter. Featuring wireless technology, this wireless networking solution has been designed for both large and small businesses, and it is scalable so that you can easily add more users and new network features depending on your business scale.

SYSTEM REQUIREMENTS

Windows System: XP 32/64, Vista 32/64, Win7 32/64, Win 8 32/64

PCs must have a device driver installed. It allows you to communicate with wireless adapter.

BEFORE YOU START

1. Contents confirmation

USB AC1200 wireless adapter 2x dual-band, high-sensitivity antennas Warning card Driver CD

2. Connect your wireless adapter to your PC after the driver installation.

3. LED

LED turns on when the wireless adapter linking normally.

LED is blinking when WLAN Adapter is active.

2. Driver Installation

2.1 Windows 7

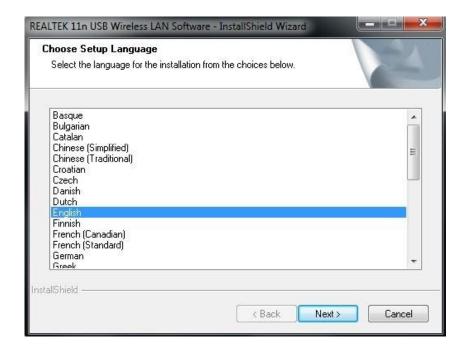
Notes: The following installation was operated under Windows 7. (Procedures are similar for Windows XP /vista)

Step 1:

Insert the installation CD into your CD-ROM.

Installation program will prompt language setup.

Choose the Setup Language you would like to use and click Next button



Step 2:

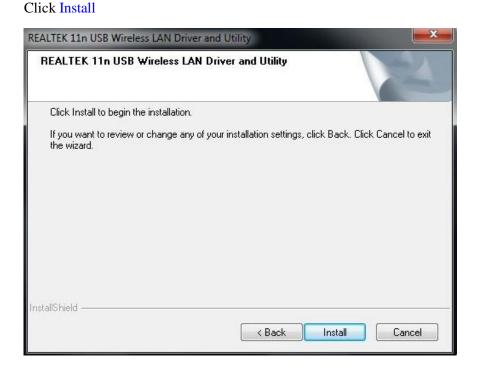
Welcome Installation dialog prompt shown.

Click Next to continue.

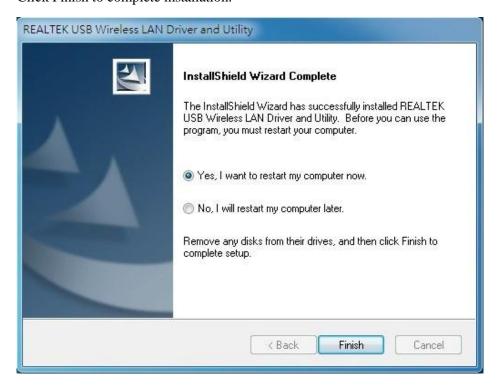
Click Cancel to close installation. Installing and configuring WLAN utility.



Step 3:



Step 4:
Click Finish to complete installation.



3. Wireless Network Configuration

The management software is provided for the wireless adapter.

When you insert the WLAN Adapter into your laptop or desktop, an icon should appear in the Windows System Tray automatically.

3.1 Utility Icon

Client mode utility running but no WLAN Adapter plugged.



Client mode utility running and WLAN Adapter scan available network.



Client mode utility running and WLAN Adapter can not scan any AP.



3.2 Client Mode

3.2.1 Wireless Device Control



Show Tray Icon – Show icon or not show icon in stray.

Radio Off – Stop wireless signal.

Disable Adapter – Stop wireless device.

Virtual WiFi allowed Windows operating system control switch

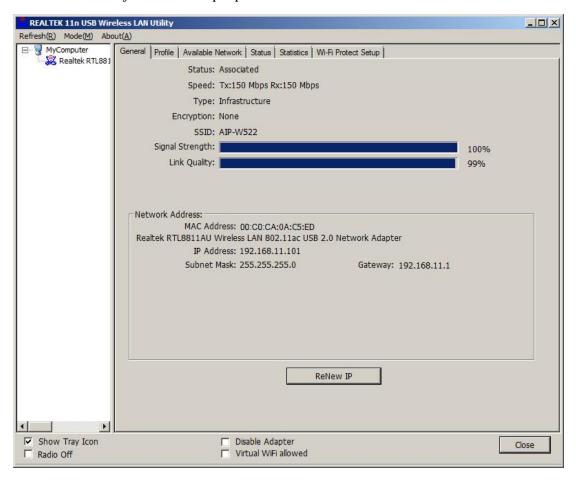
3.2.2 General Setting

Once device is set, double click on that icon and the configuration window will pop up as shown. It shows the current connected network. The signal strength and link quality are displayed also. The bar graph displays the quality and strength of the link between the node and its Access Point. Link Quality is a measurement of receiving and transmitting performances over the radio.

Network Address displays current MAC Address, IP Address, and Subnet, and Gateway.

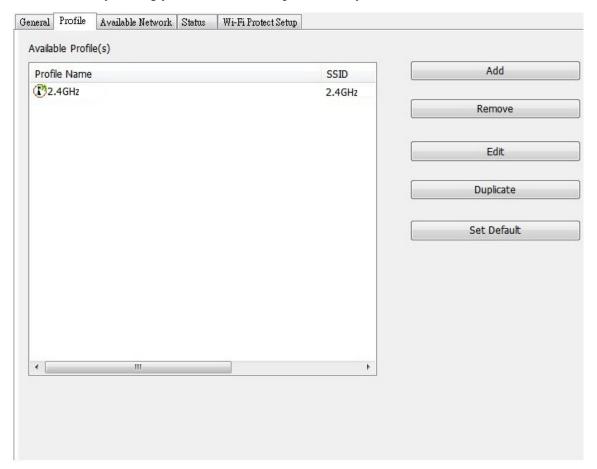
Click Renew IP button to refresh IP address leased from wireless AP.

TX the POWER adjustable RF output power



3.2.3 Profile Setting

In profile tab, you can Add, Remove, Edit, Duplicate and Set Default to manipulate profile content manually. Strongly recommend to use profile after you do Available Network.

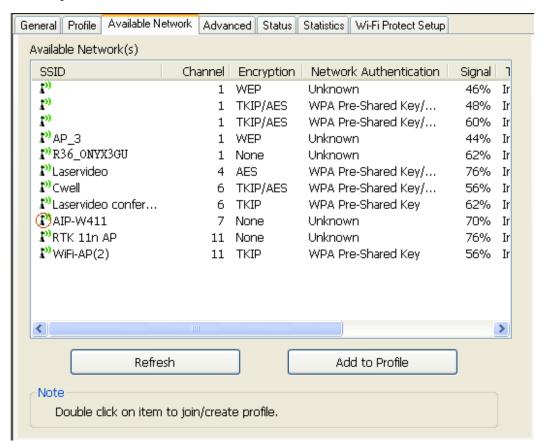


3.2.4 Available Network Setting

Click Available Network tab and it will show all available networks that radio can reaches. Select proper SSID & BSSID you want to connect.

Click Refresh button to force and rescan available networks currently.

Select one of SSIDs, and click Add to Profile to create profile that can be configured more wireless parameters.

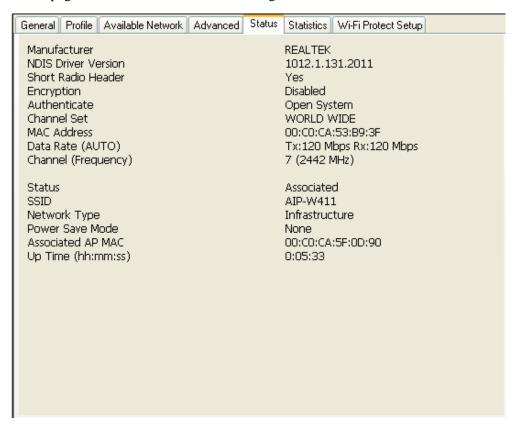


In this page, you can edit your profile name; configure wireless security like WEP, WPA, WPA2, 802.1x ...etc. After finishing setup, click OK button to save configuration.



3.2.5 Status

In this page, it shows all wireless, networking and device driver version in details.



3.2.6 Wi-Fi Protected Setup

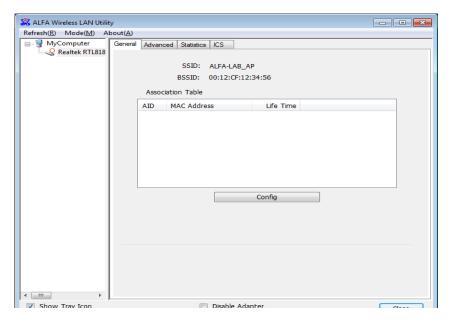
There is an easy and secure setup solution for Wi-Fi network. You can choose PIN Code or Push Button method to connect to an AP.



4. Access Point Mode

4.1 General Page

This page provides general information of this AP, including name, MAC address and list of joined stations.



- 1. SSID: The name of this AP.
- 2. BSSID: Six two-digital numbers of the MAC address of this AP.
- 3. Association Table: It is the list of joined stations to this AP.
- 4. AID (Association ID):

The AID field is a value assigned by an AP during association that represents 16-bit ID of a station. It is a unique value assigned by AP.

5. MAC address:

It is the six two-digit numbers that assemble the MAC address of respected joined station.

6. Life Time:

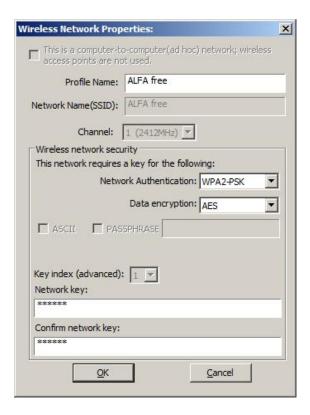
It is the timer that counts down from 10 minutes whenever the AP connects the station successfully. If an STA associated to SW AP does not have any interaction with the AP in 10 minutes, it will be disassociated from the Infra-structure BSS.

7. Config: A dialog of this AP is shown for configuration modification.

8. ICS:

Internet Connection Sharing.

It enables this AP to create the domain to share this internet/intranet network connection.



a. Network Name (SSID):

The name of the AP is searchable by other wireless nodes. The length of SSID should be shorter than 32 characters.

- b. Channel: Select the wireless channel within current channel plan.
- c. Network Authentication & Data Encryption:
 - Open System:

It is combined with data encryption type to be WEP or to be disabled. Disabled: you decide to open this AP to every one without network authentication. WEP: you decide to setup the basic data encryption with a defined network key.

• Shared Key + WEP:

You decide to apply both authentication and data encryption to prevent unauthorized login.

• WPA-PSK + TKIP & WPA2-PSK + TKIP:

The most advanced authentication and data encryption that provide the best security protection.

- d. ASCII / PASSPHRASE:
 - ASCII:

You should provide either 5 or 13 ASCII characters on Network key edit box.

- PASSPHRASE: You could input words on Network
- Key edit box:

64 bits: The generated pass key is 64-bit to be complied with data packets. 128 bits: The generated pass key is 128-bit to be complied with data packets.

• Hexadecimal:

While both ASCII and PASSPHRASE are not checked, you should input hexadecimal number in the network key box. For example, 10 digits hex number for 64-bit WEP or 26 digits hex number for 128-bit WEP.

e. Key index (advanced) $(1 \sim 4)$:

At most four key index to represent the opposite network key.

4.2 Advanced Page

Users could setup the advanced characteristics of network packet for transmission on this page.



1. Beacon Interval:

This filed indicates the interval between each beacon that this AP sends out in unit of TU (1024 micro-seconds).

2. DTIM Period:

The DTIM Period field is the number of Beacon intervals between successive DTIMs.

3. Preamble Mode:

- Long: higher quality but with lower performance than preamble short mode.
- Short: Normal quality but with higher performance then preamble long mode.
- Auto: select the proper preamble mode by current signal frame information.

4.3 Statistics Page

The Tx/Rx status of current wireless connection is shown. A statistic analysis of packet transition is listed.

