

TP-LINK®

User Guide

Archer T2UH

AC600 High Gain Wireless Dual Band USB Adapter



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FCC STATEMENT



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the 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:

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

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment has been SAR-evaluated for use in hand. SAR measurements are based on a 5mm spacing from the body and that compliance is achieved at that distance.

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference,

in which case the user may be required to take adequate measures.

SAR measurements are based on a 1 cm spacing from the body and the compliance is achieved at that distance.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

Note: Please don't use the product outdoors in France.

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Cautious :

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit;
- (iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate;
- (iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.
- (v) SAR measurements are based on a 5mm spacing from the body and that compliance is achieved at that distance

Avertissement :

Le guide d' utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;

(iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

(iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650 - 5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement:

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations:

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions

RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur

ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible. SAR measurements are based on a 5 mm spacing from the body and the compliance is achieved at that distance.

DETACHABLE ANTENNA USAGE

This device has been designed to operate with a **dipole** antenna have a maximum gain of **3** dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (**IC: 8853A-T2UH / Model: T2UH**) has been approved by Industry Canada to operate with the antenna type, maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this user's manual, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de **dipole** antenne avec dB **3**. Une antenne à gain plus élevé est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (**IC: 8853A-T2UH / Model: T2UH**) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

於 5.25GHz 至 5.35GHz 區域內操作之無線設備的警告聲明

工作頻率 5.250~5.350GHz 該頻段限於室內使用。

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。



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Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.
- This product can be used in the following countries:

AT	BG	BY	CA	CZ	DE	DK	EE
ES	FI	FR	GB	GR	HU	IE	IT
LT	LV	MT	NL	NO	PL	PT	RO
RU	SE	SK	TR	UA			

DECLARATION OF CONFORMITY

For the following equipment:

Archer T2UH

AC600 High Gain Wireless Dual Band USB Adapter

Product Description: AC600 High Gain Wireless Dual Band USB Adapter

Model No.: Archer T2UH

Trademark: TP-LINK

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 1999/5/EC, Directives 2006/95/EC, Directives 1999/519/EC, Directives 2011/65/EU

The above product is in conformity with the following standards or other normative documents:

EN 300 328 V1.8.1: 2012-06

EN 301 489-1 V1.9.2:2011 & ETSI EN 301 489-17 V2.2.1:2012

EN 60950-1:2006+A11 : 2009+A1:2010+A12:2011+A2:2013

EN55022:2010+AC:2011 ☐ **CLASS B** EN55024:2010

EN 301 893 V1.7.1:2012-06

EN 50566:2013/IEC 62209-2:2010/EN62209-2:2010

The product carries the CE Mark:

CE 1588 

Person responsible for making this declaration:



Yang Hongliang

Product Manager of International Business

Date of issue: 2014

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Package Contents

Please verify that all the package contents below are available.

- One Archer T2UH AC600 High Gain Wireless Dual Band USB Adapter
- Quick Installation Guide
- USB Cable
- One Resource CD for Archer T2UH, including:
 - TP-LINK Wireless Configuration Utility (TWCU) and Drivers
 - User Guide
 - Other helpful information

Make sure that the above items are contained in the package. If any of the above items is damaged or missing, please contact your distributor.

 Note:

The 'adapter' mentioned in this User Guide stands for Archer T2UH AC600 High Gain Wireless Dual Band USB Adapter without any explanation.

Chapter 1 Product Overview

1.1 Introduction

The adapter is a dual band 802.11ac client device designed to deliver a high-speed wireless performance for your desktop. With a faster wireless connection, you can get a better Internet experience, such as downloading, gaming, and video streaming.

With the 802.11ac technology, higher throughput improvements using 1T1R, the Archer T2UH's auto-sensing capability allows high packet transfer rate of up to 433Mbps for maximum throughput. It has good capability on anti-jamming, and it can also interoperate with other wireless (802.11a/b/g/n/ac) products. The adapter supports WEP, WPA-PSK/WPA2-PSK and WPA/WPA2 encryption to prevent outside intrusion and protect your personal information from being exposed.

The adapter is easy to install and manage. The Quick Setup Wizard will guide you step-by-step through the installation process and the TP-LINK Wireless Configuration Utility (TWCU) will instruct you to quickly set up a wireless connection.

With unmatched wireless performance, reception, and security protection, the Archer T2UH is the best choice for easily adding or upgrading wireless connectivity to your desktop.

1.2 Features

- Complies with IEEE 802.11ac.
- Provides USB 2.0 interface
- Supports dual-band, 2.4GHz or 5GHz
- Seamlessly compatible with 802.11a/b/g/n/ac products
- Experience smoother video streaming and online gaming by choosing the clearer 5GHz band for wireless connections
- Supports 64/128 WEP, WPA/WPA2, WPA-PSK/WPA2-PSK(TKIP/AES), supports IEEE 802.1x
- Supports Windows XP 32/64bit, Windows 7 32/64bit, Windows 8 32/64bit
- Supports ad-hoc and infrastructure mode
- Bundled utility provides quick & hassle-free installation

1.3 Hardware Overview

LED status:

Status	Working Status
Off	The driver has not been installed; The adapter's radio has been disabled.
Flashing Slowly	The driver has been installed but no data is being transmitted or received.
Flashing Quickly	Data is being transmitted or received.

Chapter 2 Installation

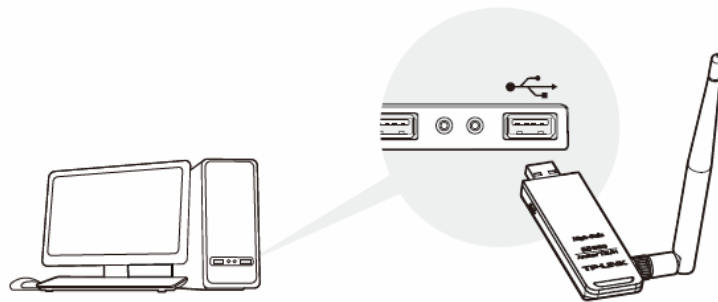
Please install the adapter into your computer before installing the driver and utility software from the Resource CD.

2.1 Hardware Installation

There are two methods:

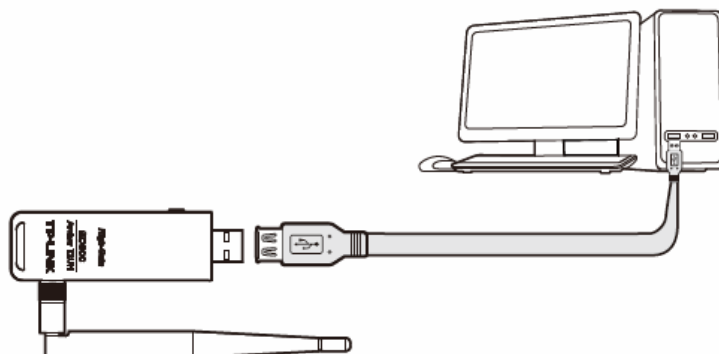
Method One:

Plug the adapter into an available USB interface on your computer directly.



Method Two:

Connect the adapter and your computer with the provided USB cable.



Note:

When the hardware has been successfully installed on your computer, you may be prompted 'Found New Hardware Wizard' (as shown in Figure 2-1); please click **Cancel**, and then follow the **Software Installation** steps to install driver and utility for your adapter.



Figure 2-1 Found New Hardware Wizard in Windows XP

2.2 Software Installation

The adapter's Setup Wizard will guide you through the installation procedures for Windows XP, Windows 7 and Windows 8. The procedures in different systems are quite similar, therefore here we use the procedures in Windows 7 as an example.

1. Insert the Resource CD into your CD-ROM drive and then select model **Archer T2UH** on the window that pops up (as shown in the below Figure 2-2). There will be a menu including: **Install Driver&Utility** and **User Guide**. Click **Install Driver&Utility** to begin.



Figure 2-2

2. The **InstallShield Wizard** window will appear. Click **Next** to continue.

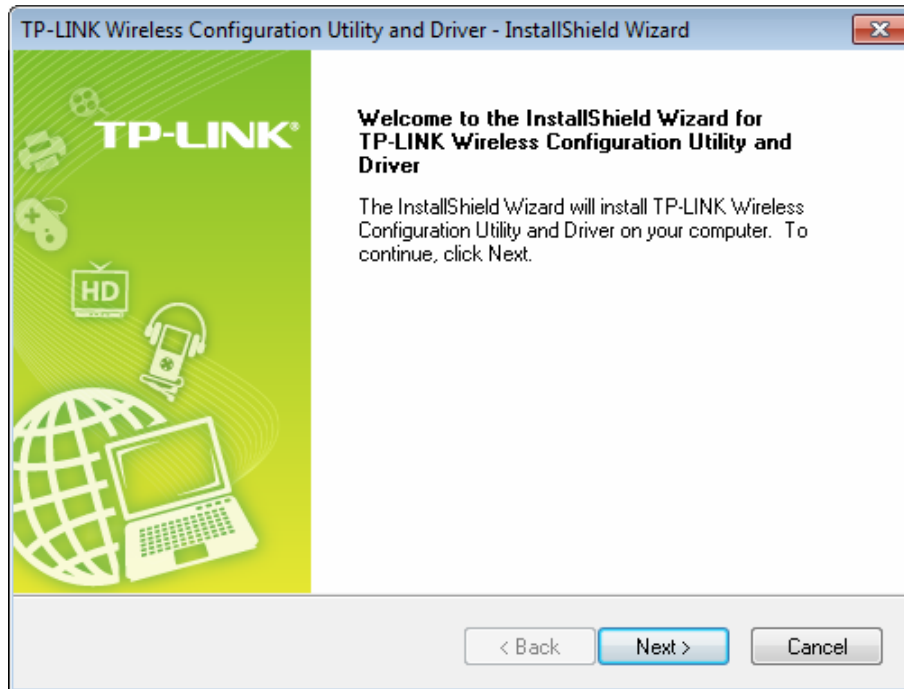


Figure 2-3

3. Choose a setup type. It is recommended to select **Install TP-LINK Wireless Configuration Utility and Driver**. Selecting **Install Driver Only** can only install driver. Click **Next** to continue.

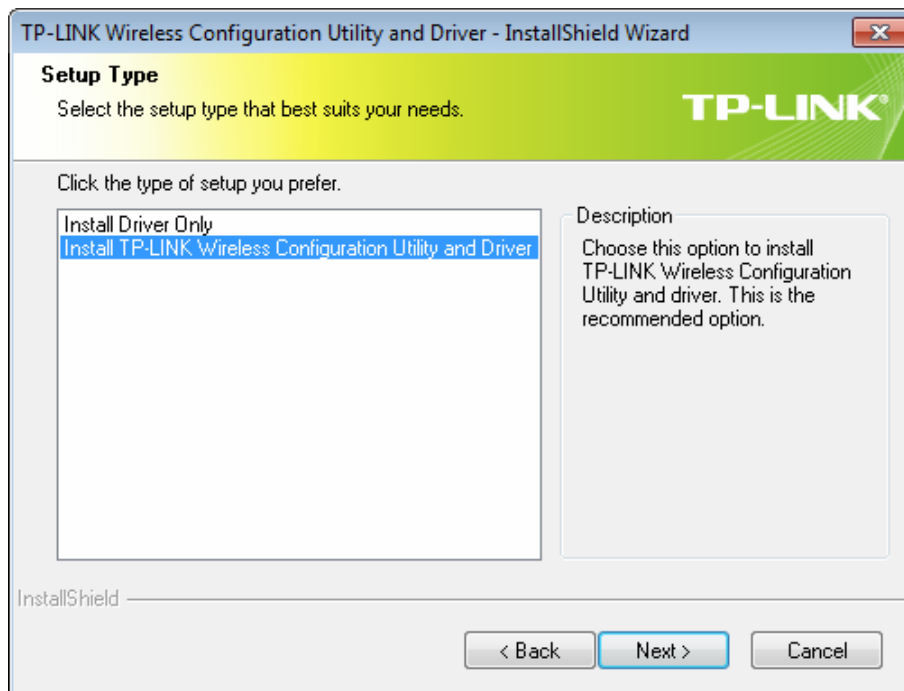


Figure 2-4

- Click **Change** to specify the destination location for the software or you can leave it default.
Click **Next** in the screen below to continue.

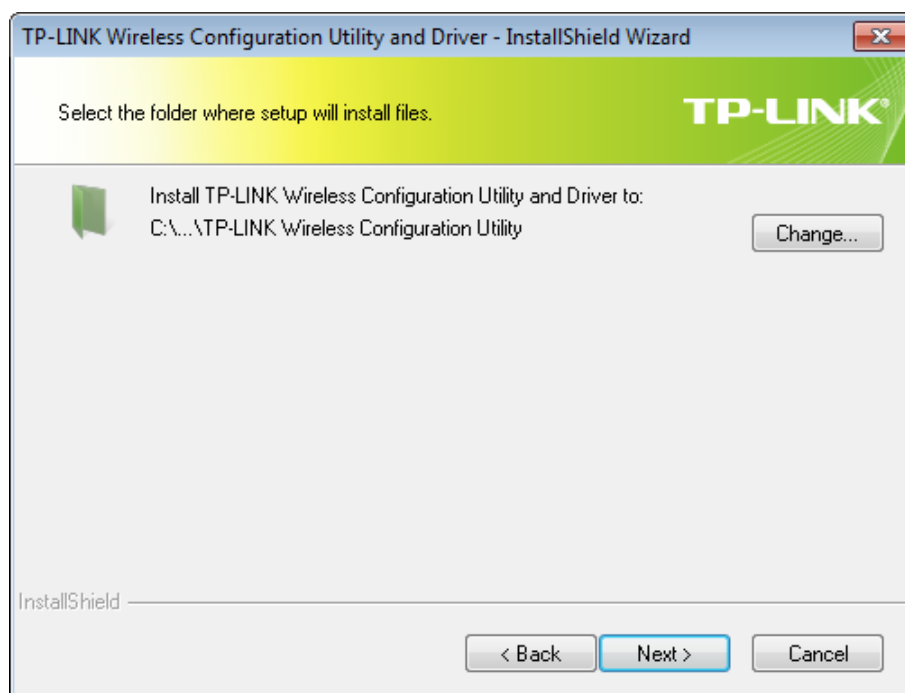


Figure 2-5

- Click **Install** to continue the setup.

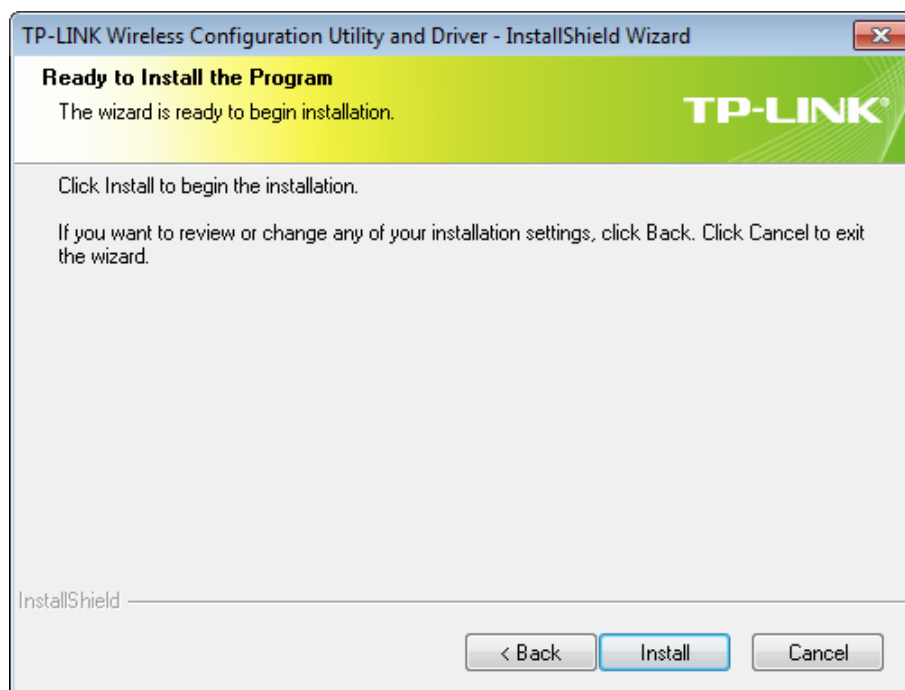


Figure 2-6

6. The utility and drivers will install. It may take 1~2 minutes.

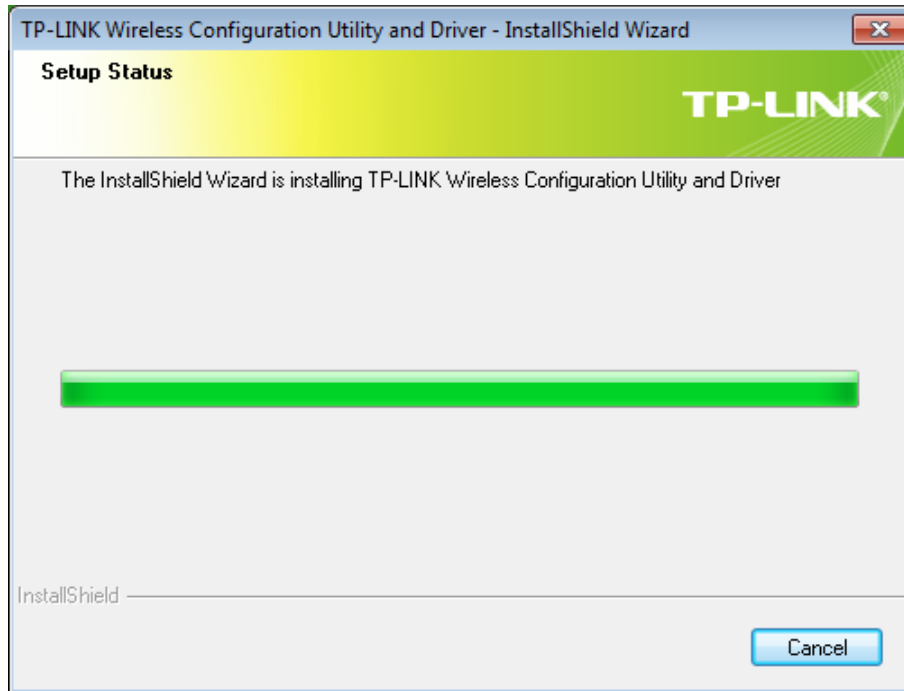


Figure 2-7

7. After all the steps above, you will see the screen below. Click **Finish** to complete the setup.

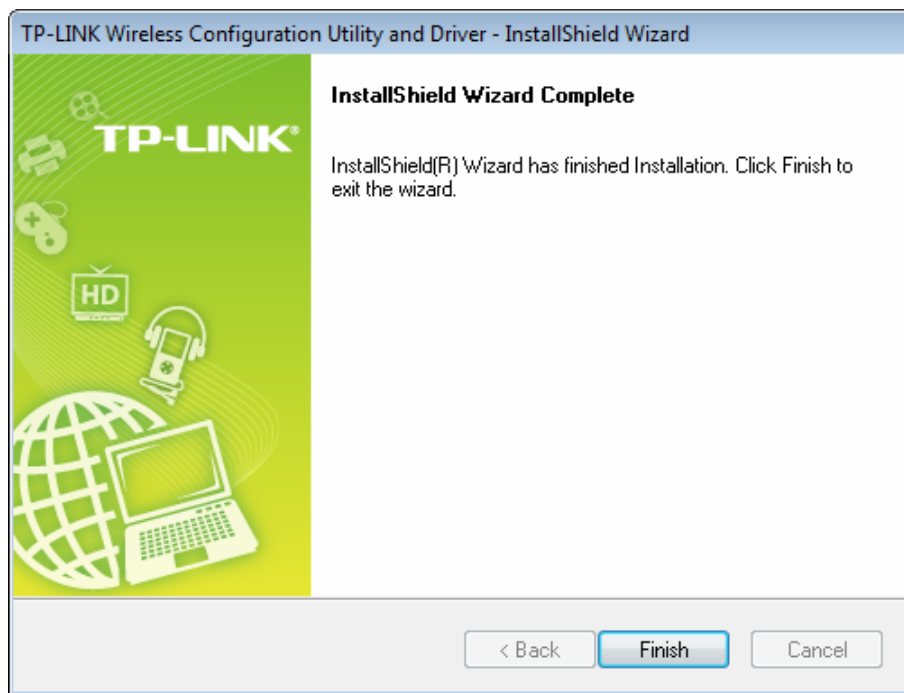


Figure 2-8

8. After installation, the utility configuration page will automatically pop up as shown in the following figure and the icon  will appear in your system tray. To connect to a network, please refer to [Chapter 3 Connect to a Wireless Network](#).

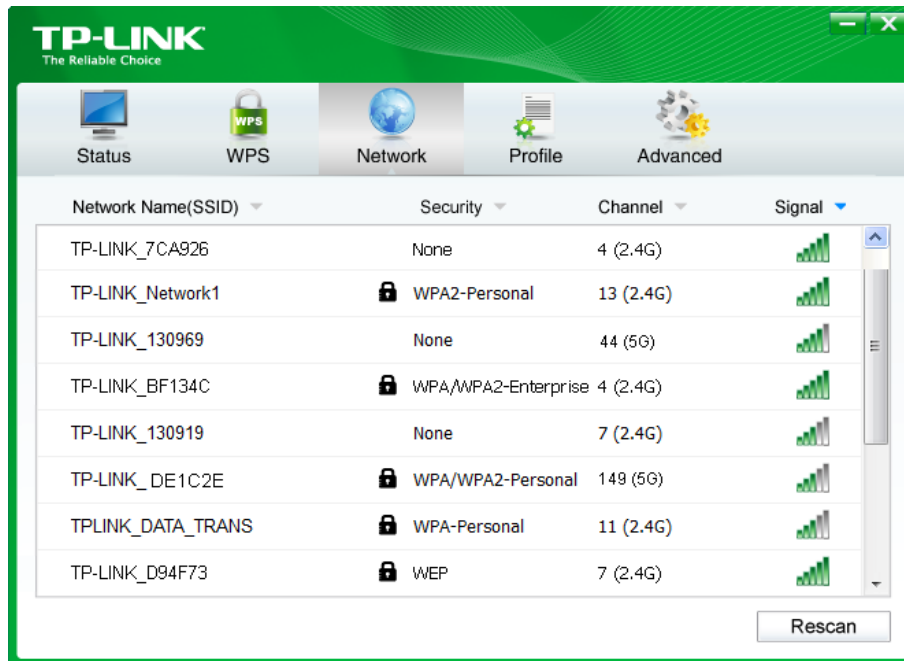


Figure 2-9

Chapter 3 Connect to a Wireless Network

With both the hardware and software successfully installed into your computer, you can quickly connect to a wireless network using one of the following methods.

➤ **Method One: To connect using TWCU (TP-LINK Wireless Configuration Utility)**

Archer T2UH uses the TWCU as the management software. The utility provides you an easy interface to connect to a network and to change any settings related to the wireless adapter.

➤ **Method Two: To connect using WPS**

By this method, you can connect to your network quickly on the condition that your Router or access point supports WPS or QSS as is called by some other products.

➤ **Method Three: To connect using Windows built-in wireless utility**

Windows users may use the built-in wireless utility to connect to a wireless network. For specific operations, please go to [Section 3.3 To connect using Windows built-in wireless utility](#).

3.1 To connect using TWCU

1. After installation, the utility configuration page will automatically pop up on the screen. If the utility page does not pop up, you can also launch the utility by double-clicking the  icon on your desktop.

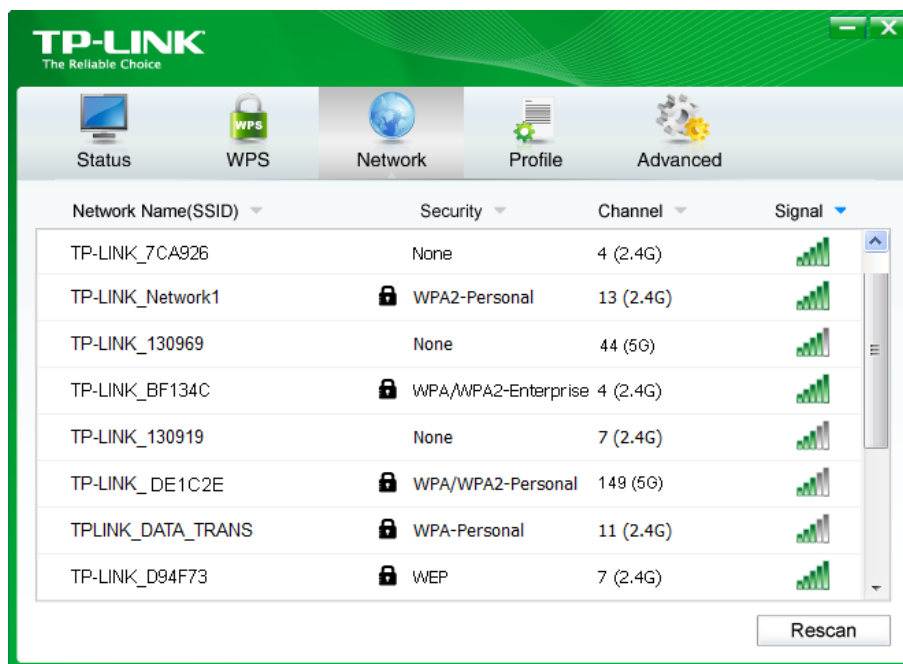


Figure 3-1

2. The **Network** page will display all wireless networks that are available in your area. To connect to a network, simply highlight the wireless network name (SSID) and click **Connect**. If you tick **Connect automatically**, the adapter will automatically connect to your target network next time.

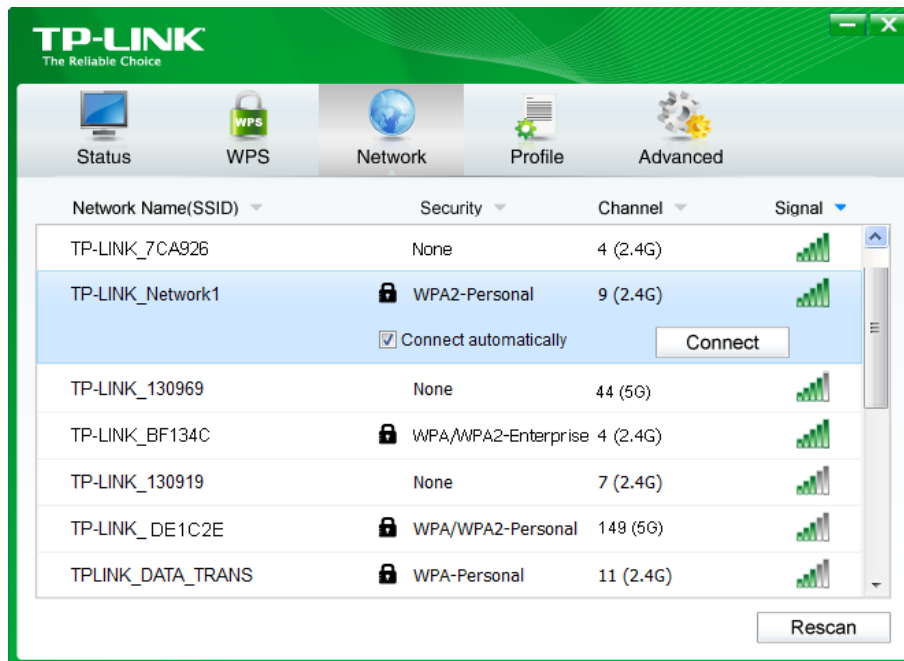


Figure 3-2

3. You will be prompted different windows when you choose wireless network of different security types.

1) Wireless network of **WPA/WPA2-Personal**

If you selected a wireless network of the security type WPA/WPA2-Personal, you will be prompted to enter the password in the security key field, as shown in Figure 3-3. Or you can push the **WPS/QSS** button on your Router (if it features the WPS/QSS function) to quickly build a connection without entering the security key (password).



Figure 3-3

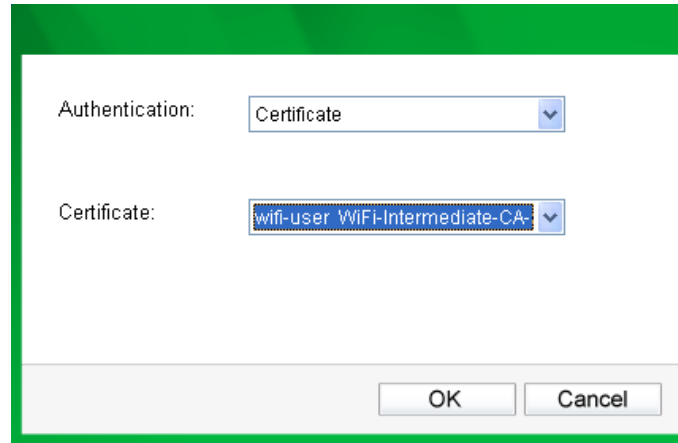


Note:

The security key (password) can be found on the configuration page of your Router or Access Point.

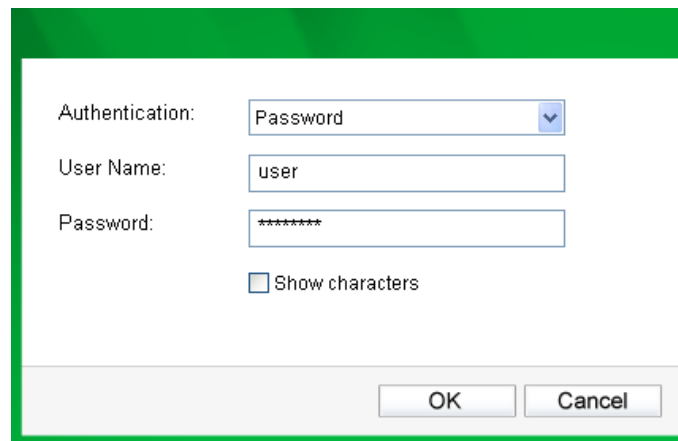
2) Wireless network of **WPA/WPA2-Enterprise**

If you selected a wireless network of the security type WPA/WPA2-Enterprise, you will be prompted to choose a type of authentication, either **Certificate** or **Password**. With **Certificate** as your authentication, you need to select one specific certificate from the drop-down list, as shown in Figure 3-4. With **Password** as your authentication, you should enter the right user name and password in the corresponding field, as shown in Figure 3-5.



A dialog box with a green title bar. It contains two labels: 'Authentication:' and 'Certificate:'. The 'Authentication:' label is followed by a dropdown menu showing 'Certificate'. The 'Certificate:' label is followed by a dropdown menu showing 'wifi-user WIFI-Intermediate-CA-'. At the bottom right, there are 'OK' and 'Cancel' buttons.

Figure 3-4



A dialog box with a green title bar. It contains three labels: 'Authentication:', 'User Name:', and 'Password:'. The 'Authentication:' label is followed by a dropdown menu showing 'Password'. The 'User Name:' label is followed by a text box containing 'user'. The 'Password:' label is followed by a text box containing '*****'. Below the password field is a checkbox labeled 'Show characters'. At the bottom right, there are 'OK' and 'Cancel' buttons.

Figure 3-5

3) Wireless network of **None**

If you selected a wireless network of **None** (that is, no security is set.), you can get directly connected to this network without any further configuration.

- Please wait a few minutes for the connection process.

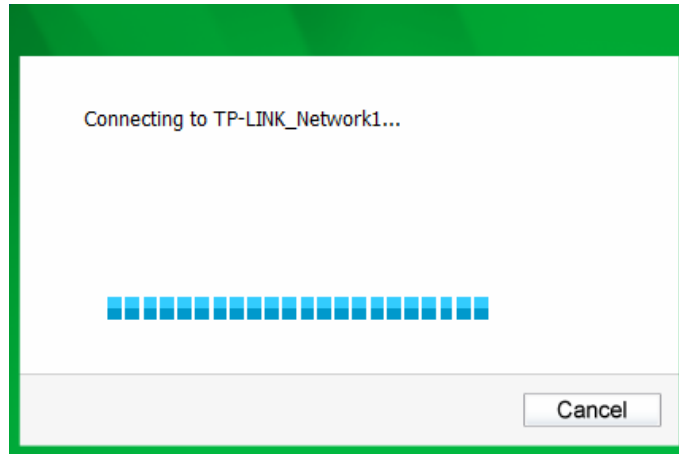


Figure 3-6

- You have now successfully connected to your network. Click **Close** to enjoy the Internet.

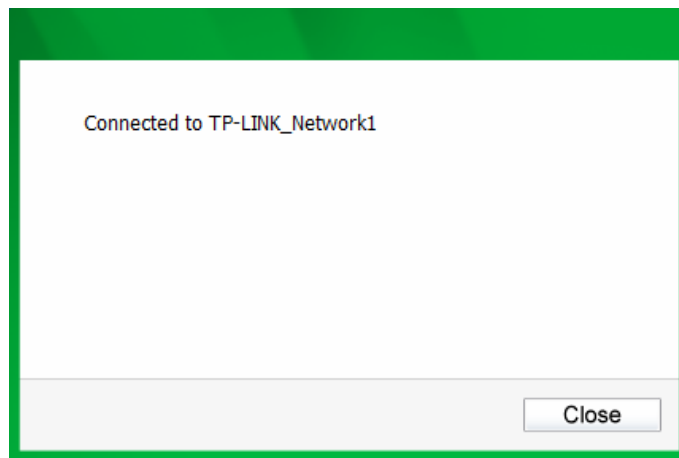


Figure 3-7

- To view more information about the network currently connected, click **Status** in the tools section and the page will display information such as the network type, channel, rate, etc.

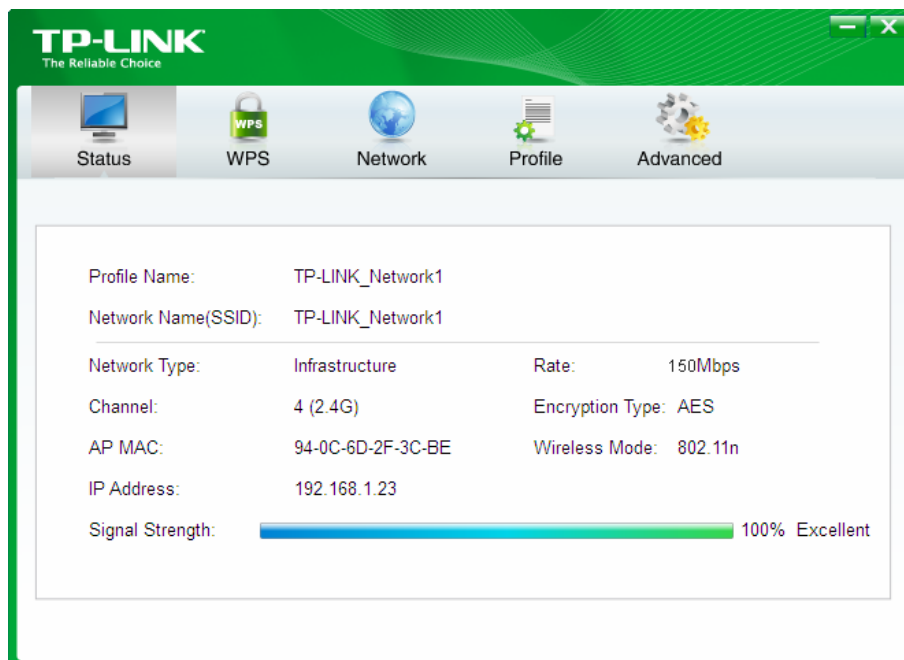


Figure 3-8

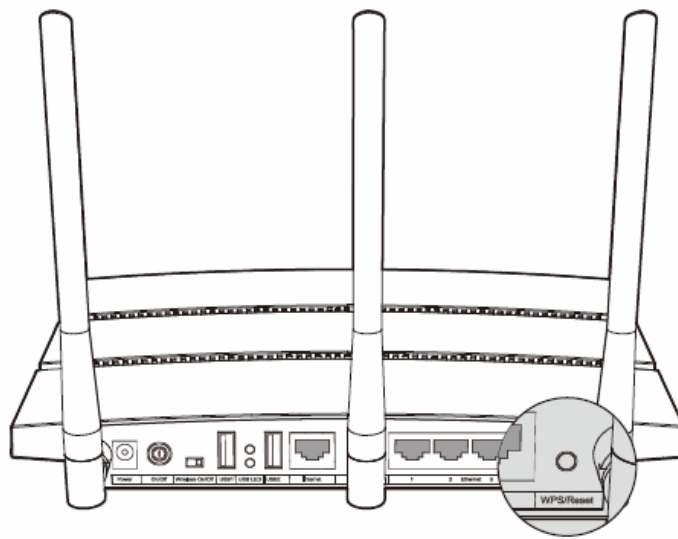
3.2 To connect using WPS

WPS (Wi-Fi Protected Setup) function allows you to add a new wireless device to an existing network quickly.

If your wireless Router supports WPS or QSS (Quick Security Setup), you can establish a wireless connection between wireless card and Router using either Push Button Configuration (**PBC**) method or **PIN** method. Three WPS connection methods are listed in the following parts.

3.2.1 PBC (Push Button Configuration) method

1. Press the WPS or QSS button on the Router. Here we use Router Archer C7 as an example. Press the **WPS/Reset** button for 2~3 seconds.



2. Press the WPS button on the adapter. There are two ways:

➤ Method One:

Press and hold the WPS button on the adapter directly for 3 seconds until Figure 3-9 appears.

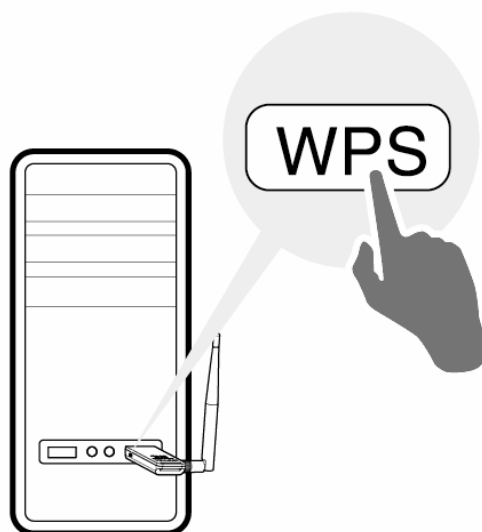


Figure 3-9

➤ Method Two:

Open TWCU and click **WPS** tab. Select **Push the button on my access point or wireless router** and then click **Connect**.

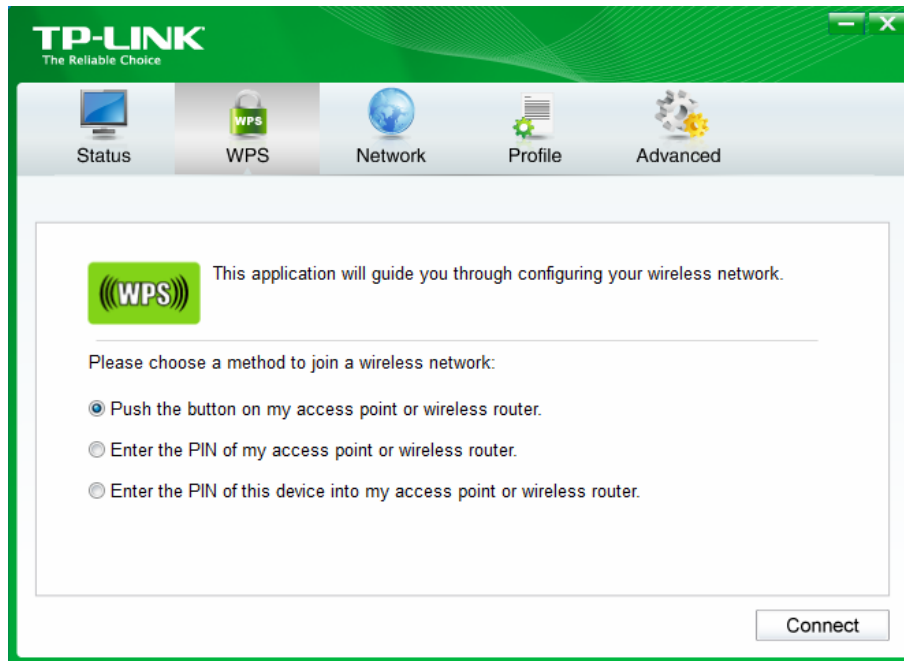


Figure 3-10

3. The adapter will be connecting to the target network.

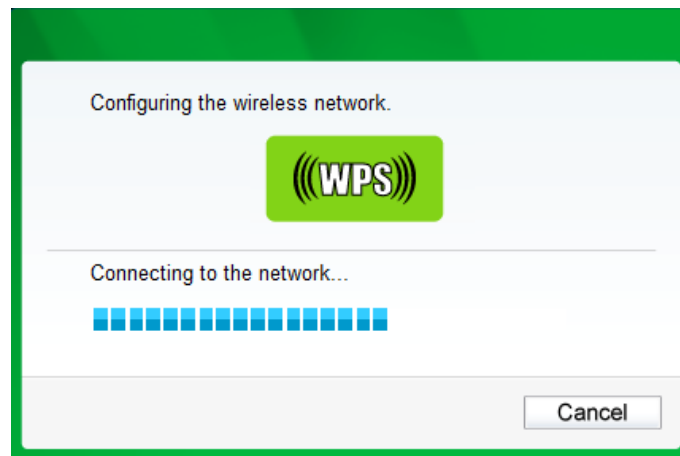


Figure 3-11

4. When the following window appears, you have successfully connected to the network.



Figure 3-12

3.2.2 PIN method

There are two ways to configure the WPS by PIN method:

- 1) Enter the PIN from your Router or AP device.
- 2) Enter a PIN into your Router or AP device.

Following are the detailed configuration procedures of each way.

3.2.2.1. Enter the PIN from your Router or AP device

1. Open TWCU and click **WPS** tab. Select **Enter the PIN of my access point or wireless Router**. In the empty field beside PIN, enter the PIN labeled on the bottom of the Router (here we use 13492564 as an example). If you have generated a new PIN code for your Router, please enter the new one instead. Click **Connect** to continue.

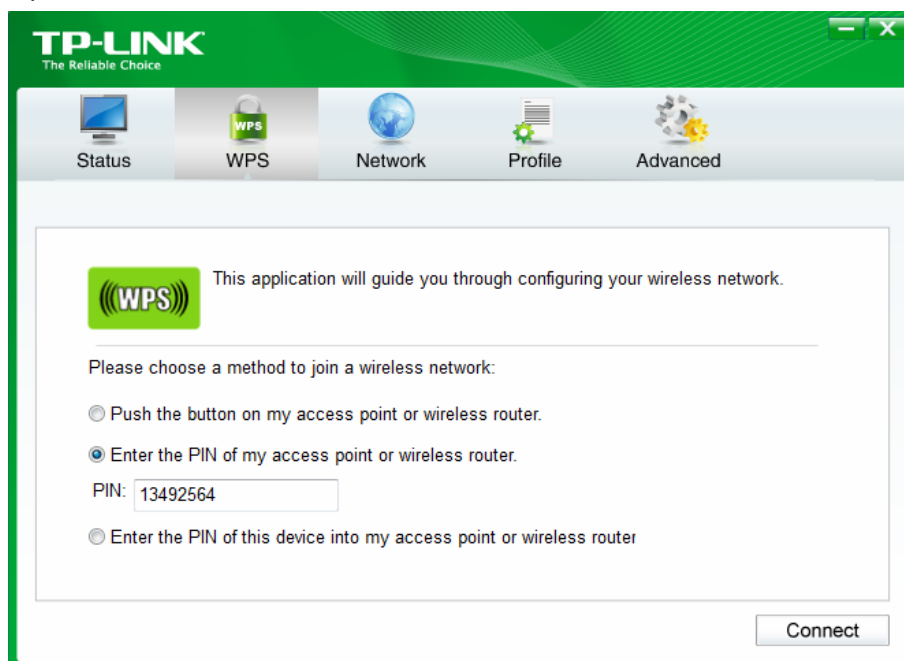


Figure 3-13

- The adapter will be connecting to the target network.

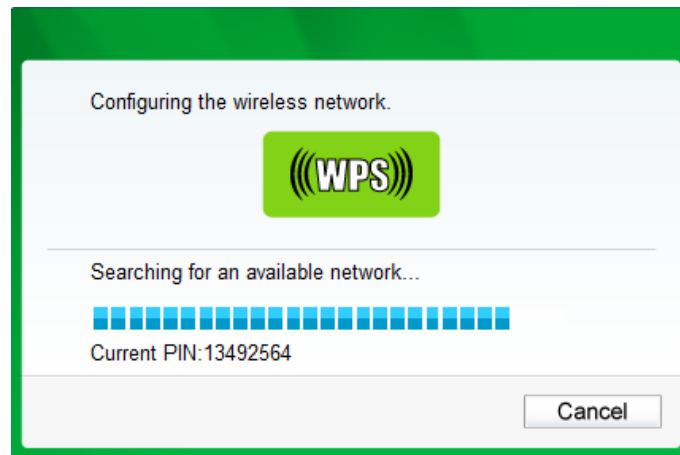


Figure 3-14

- When Figure 3-12 appears, you have successfully connected to the network.

3.2.2.2. Enter a PIN into your AP device

- Open TWCU and click **WPS** tab. Select **Enter the PIN of this device into my access point or wireless Router**. In the field beside PIN, you will see the PIN value of the adapter which is randomly generated. Click **Connect** to continue.

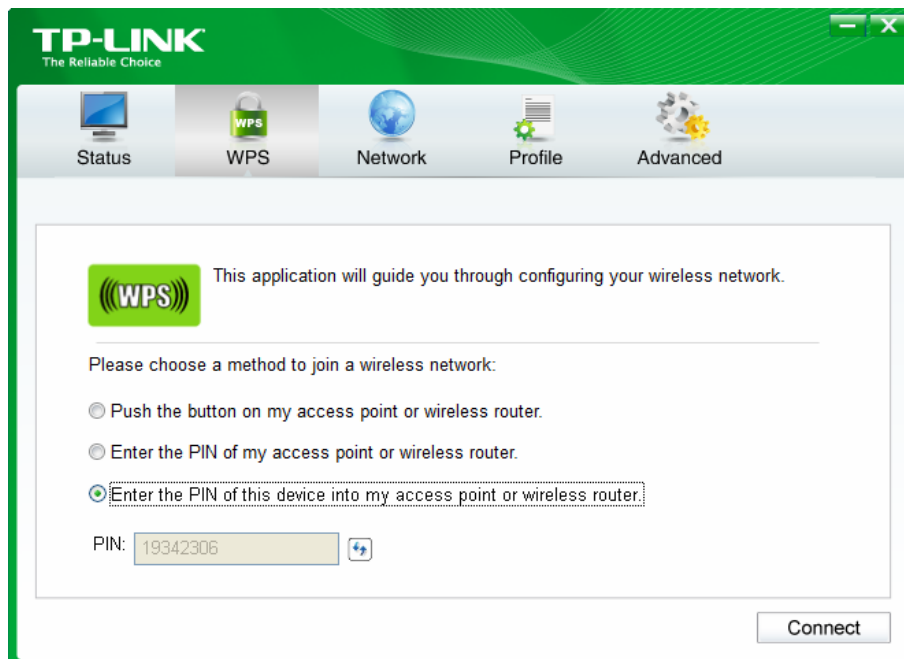


Figure 3-15

2. Open your Router's Web-based Utility and click WPS link on the left of the main menu. Then click **Add device** and the following figure will appear. Enter the PIN value of the adapter in the empty field beside PIN and then click **Connect**.

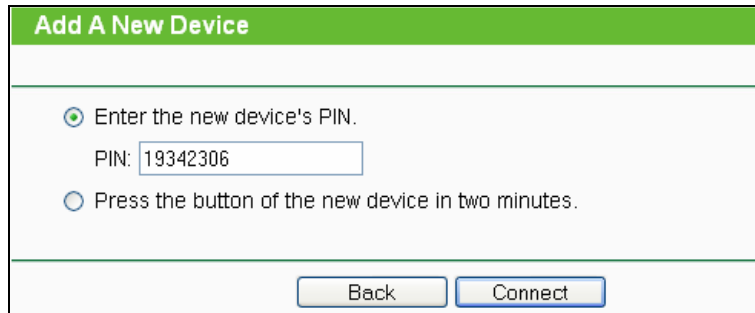


Figure 3-16

3. When **Connect successfully** appears on the screen (as shown in Figure 3-17), the WPS configuration is completed. Or you can view the adapter's utility page to see whether the connection has been successful (as shown in Figure 3-18).



Figure 3-17



Figure 3-18

3.3 To connect using Windows built-in wireless utility

3.3.1 In Windows XP

Windows XP users may use the built-in wireless utility. Follow the steps below.

1. Right-click on the utility icon in your system tray (lower-right corner). Select **Switch to Windows wireless configuration tool**.

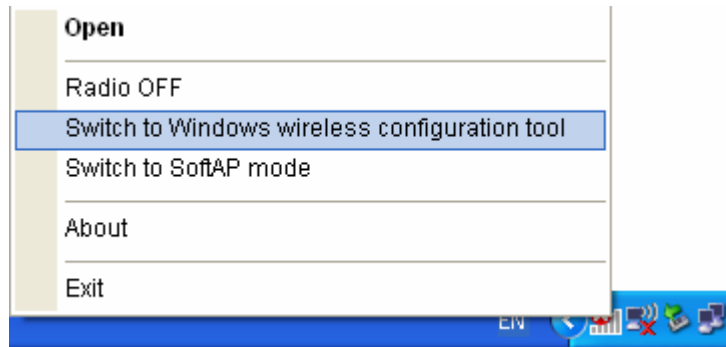


Figure 3-19

Or double-click the utility icon to load the utility configuration page. Click **Advanced** in the tools section and then select **Use Windows wireless configuration tool** in the figure shown below. Click **OK** when Figure 3-21 appears to continue.

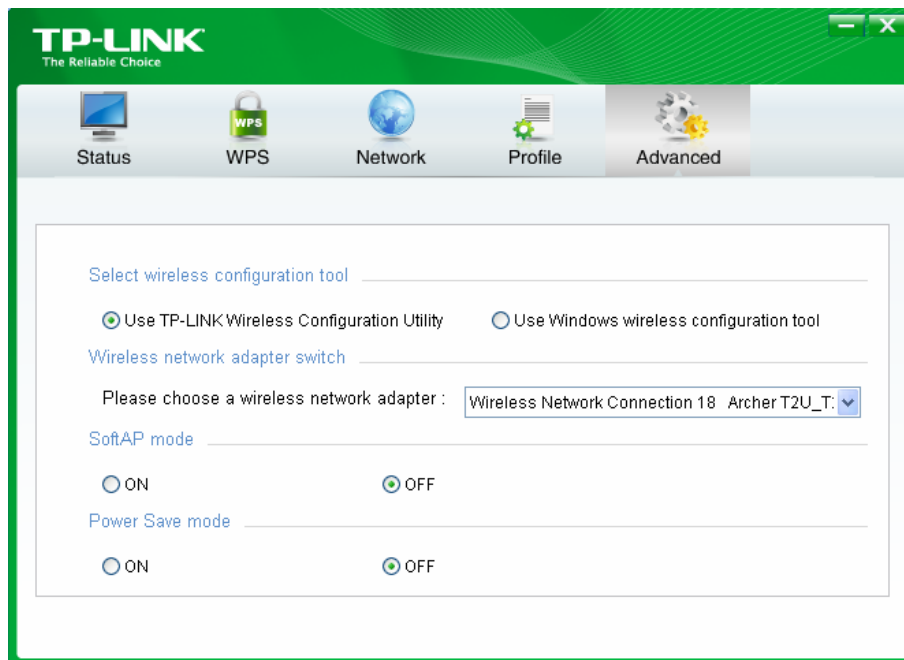


Figure 3-20

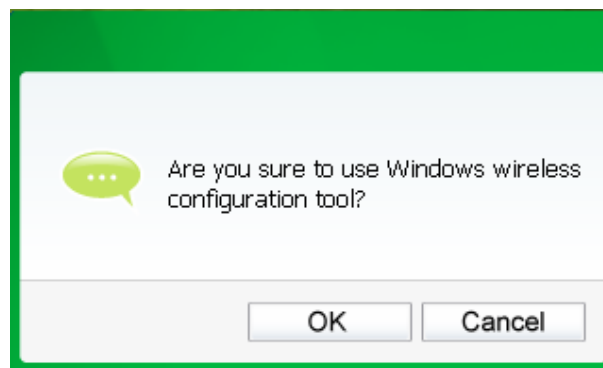


Figure 3-21

- Right-click on the wireless computer icon in your system tray (lower-right corner). Select **View Available Wireless Networks**.

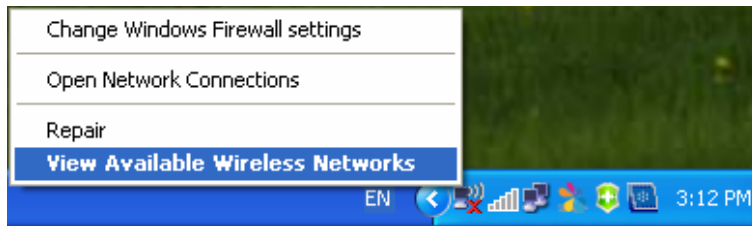


Figure 3-22

- The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

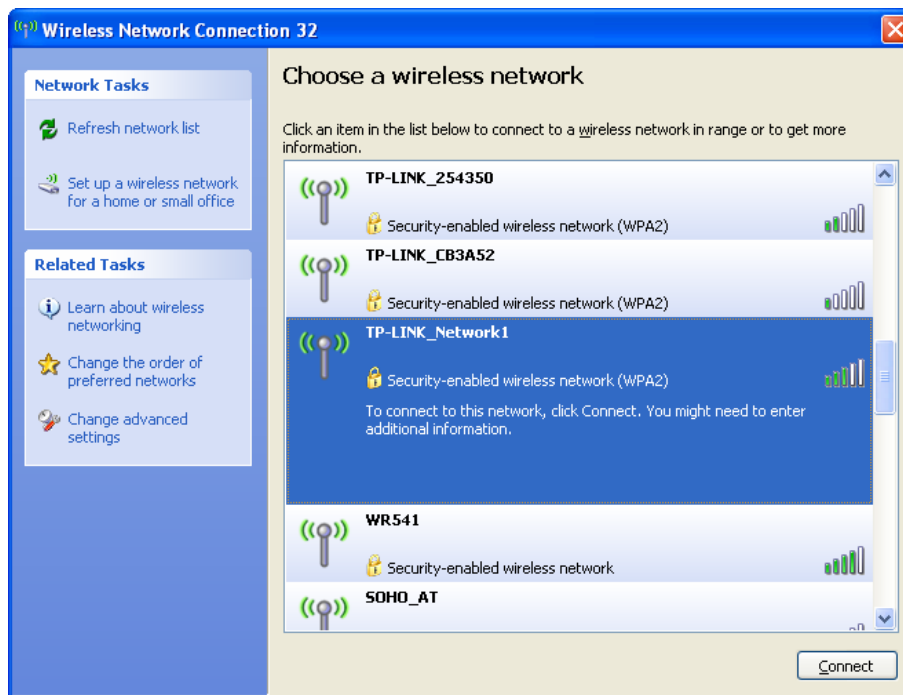


Figure 3-23

- If the network is security-enabled, you will be prompted to enter the key as shown below. If not, you will connect to the network directly without entering a key.

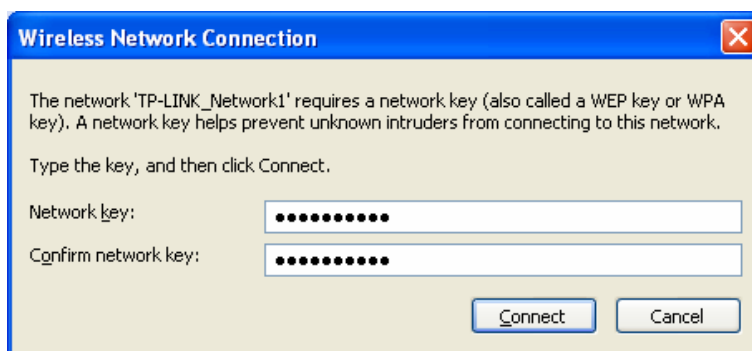


Figure 3-24

3.3.2 In Windows 7

Windows 7 users may use the built-in wireless utility. Follow the steps below.

1. Left-click the wireless icon  in your system tray (lower-right corner). The utility will display any available wireless networks in your area. Highlight the wireless network (displayed using the SSID) to be connected and then click **Connect**.

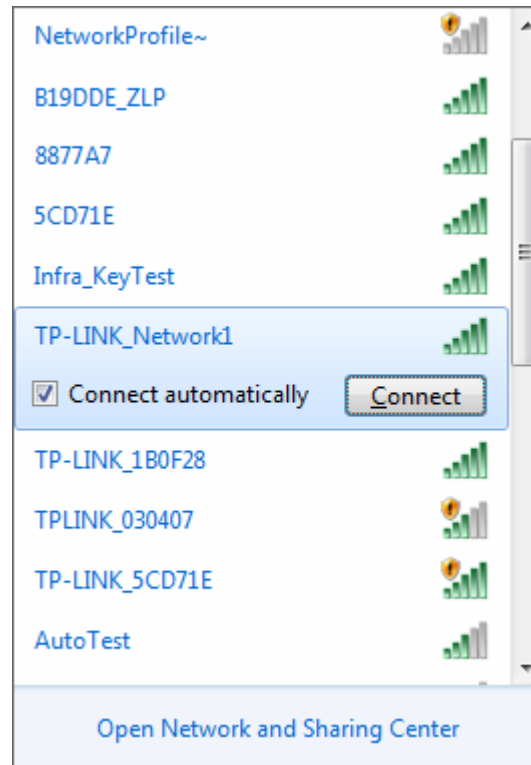


Figure 3-25

2. If the network you would like to connect is encrypted, enter the same security key or passphrase that is on your Router. Or push the WPS/QSS button on the Router or access point (You will be prompted to push the button on the window if WPS function is supported as shown in the figure below). If the network to be connected is not secure, the connection will be built without entering a key.

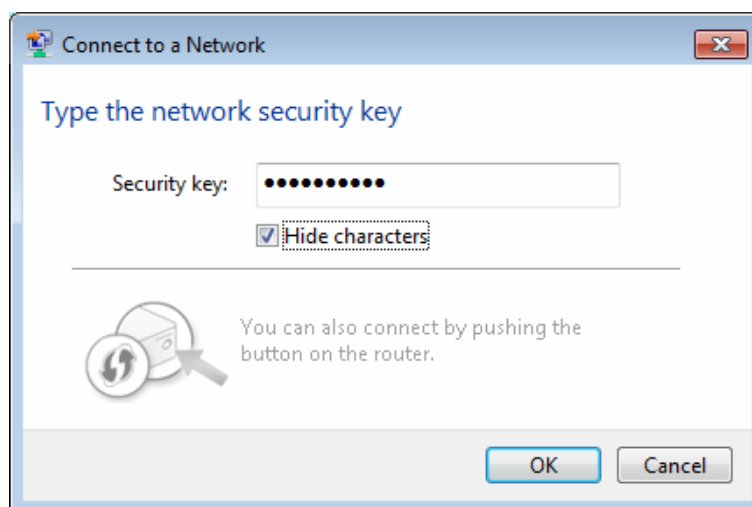


Figure 3-26

3. You have now successfully connected to the network.



Figure 3-27

3.3.3 In Windows 8

Windows 8 users may use the built-in wireless utility. Follow the steps below.

1. Click the icon  at the bottom of your screen, and a network list will appear at the right side of your screen. Select your target network, and then click **Connect**.

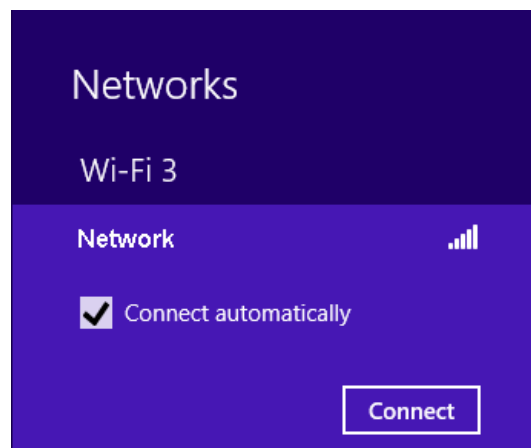


Figure 3-28

2. If the network is unencrypted, you will directly connect to it.
If the network is encrypted, enter the password (network security key) and then click **Next** to continue.

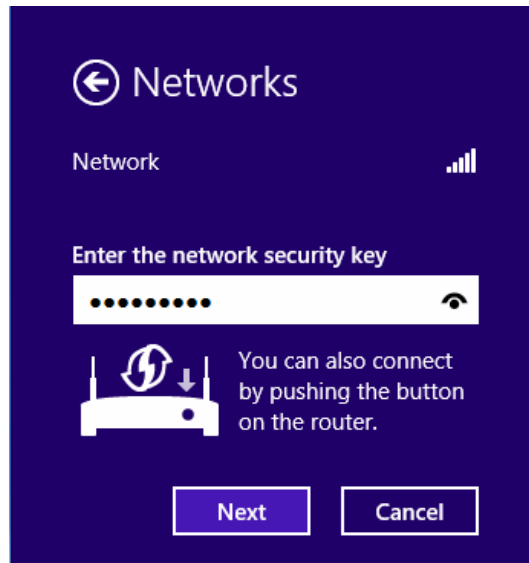


Figure 3-29

 Note:

You can also push the WPS/QSS button on your router as hinted “You can also connect by pushing the button on the router”. Then click **Next** to continue.

3. When Connected appears behind the SSID (as shown below), you have successfully connected to the target network.

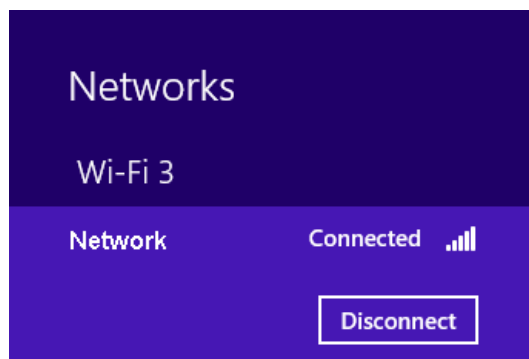


Figure 3-30

 Note:

If the adapter is connected to the network for the first time, you will be asked whether to turn on sharing or connect to devices. Please select “Yes, ...” or “No, ...” according to your Internet environment.

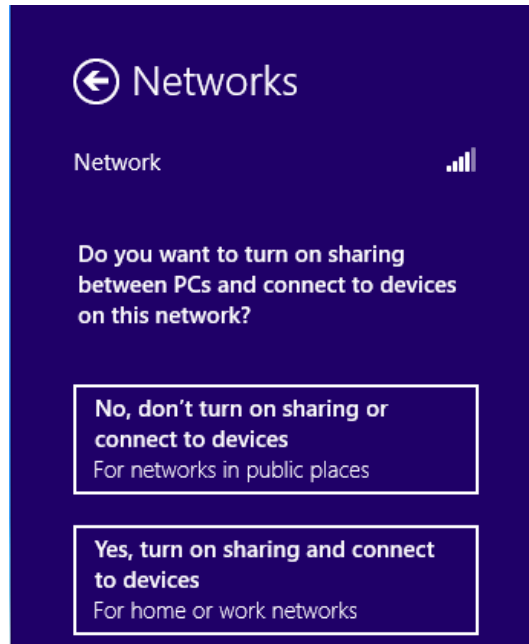


Figure 3-31

Chapter 4 Management

This section will show you how to configure your Archer T2UH adapter using the TP-LINK Wireless Configuration Utility (TWCU).

The Archer T2UH adapter uses the TP-LINK Wireless Configuration Utility as the management software. The utility provides users with an easy interface to change any settings related to the adapter. Double-clicking on the  icon on your desktop will start the utility.

4.1 Profile

Your wireless networks may vary in different places like home, office or coffee shop. With **Profile** management, you can easily save and manage various networks to be connected, saving you the trouble of having to repeat the same configurations. Click **Profile** in the tools section, the following page will appear.

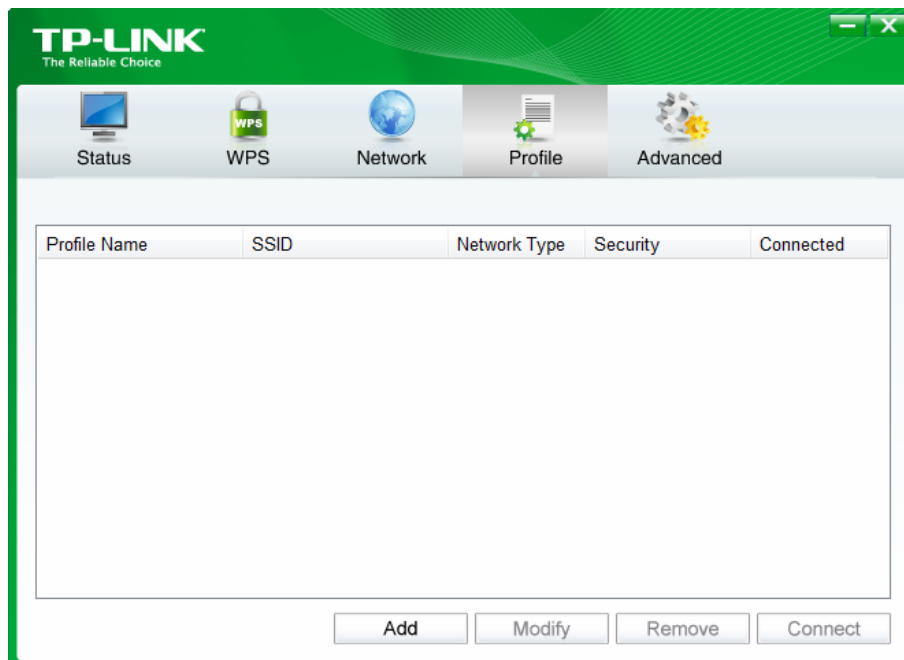


Figure 4-1

4.1.1 Add a profile

To add a profile, click the **Add** button on the bottom of the screen. Then the configuration window will appear.

4.1.1.1. Add a profile in Infrastructure mode

If you are connecting to a wireless router or access point, select **Infrastructure** as the Network Type in the screen that appears and follow the instructions below to finish the setting.

Figure 4-2 shows a network configuration window with a green header. The fields are as follows:

- Profile Name:** Home
- SSID:** TP-LINK_Network1
- Network Type:** Infrastructure (selected), ad hoc
- Security Type:** WPA-PSK/WPA2-PSK
- Encryption Type:** TKIP/AES
- Security Key:** A field with asterisks, followed by a "Show characters" checkbox.
- Start this connection automatically:** An unchecked checkbox.
- Buttons:** Save and Cancel.

Figure 4-2

Figure 4-3 shows a network configuration window with a green header. The fields are as follows:

- Profile Name:** Office
- SSID:** TP-LINK_BF503A
- Network Type:** Infrastructure (selected), ad hoc
- Security Type:** WPA/WPA2
- Encryption Type:** TKIP/AES
- Authentication:** Certificate
- Certificate:** wifi-user\WiFi-Intermediate-CA-
- Start this connection automatically:** A checked checkbox.
- Buttons:** Save and Cancel.

Figure 4-3

The following items can be found on the screen.

- **Profile Name:** Enter a name for your profile (e.g. Home, Office, Coffee Shop). The same name is not allowed. Please also note that no space is allowed between words.
- **SSID:** Select the target network from the drop-down list.
- **Network Type:** Select the network type. If you are connecting to a wireless Router or access point, select **Infrastructure**. If you are connecting to another wireless client such as an adapter, select **ad-hoc**.
- **Security Type:** Select the security type from the list. Four options are available: **WPA-PSK/WPA2-PSK**, **WPA/WPA2**, **WEP** and **None**. The security type should be the same as on your Router or access point, otherwise, you will not be able to build a successful connection. **WPA-PSK/WPA2-PSK** uses a passphrase or key to authenticate your wireless connection. The key must be the exact same key entered on your wireless Router or access point. **None** stands for no security. It's recommended to enable WPA-PSK/WPA2-PSK on your wireless Router or access point before configuring your wireless adapter.

 Note:

You will see Figure 4-2 if you selected the security type **WPA-PSK/WPA2-PSK**; while, if you selected the security type **WPA/WPA2**, Figure 4-3 will be displayed.

- **Encryption Type:** From the drop-down menu, select the encryption type that is the same as on your Router or access point.
- **Security Key:** Enter the passphrase exactly as it is on your wireless Router or access point. Click the **Show characters** box to see the passphrase, or uncheck this box to hide it.
- **Authentication:** Select a type of authentication, either **certificate** or **password**.
- **Certificate:** If you select **certificate** as your **Authentication**, then you need to specify your certificate from the drop-down list here.
- **Start this connection automatically:** Check this box to automatically connect to this network next time.
- **Save:** Click **Save** to save your settings.

Having completed the above settings, the Profile page should look like the following figure. To connect to a desired network, just highlight the network you would like to connect to and click the **Connect** button on the bottom of the window. Then click **OK** in Figure 4-5 to activate the profile.

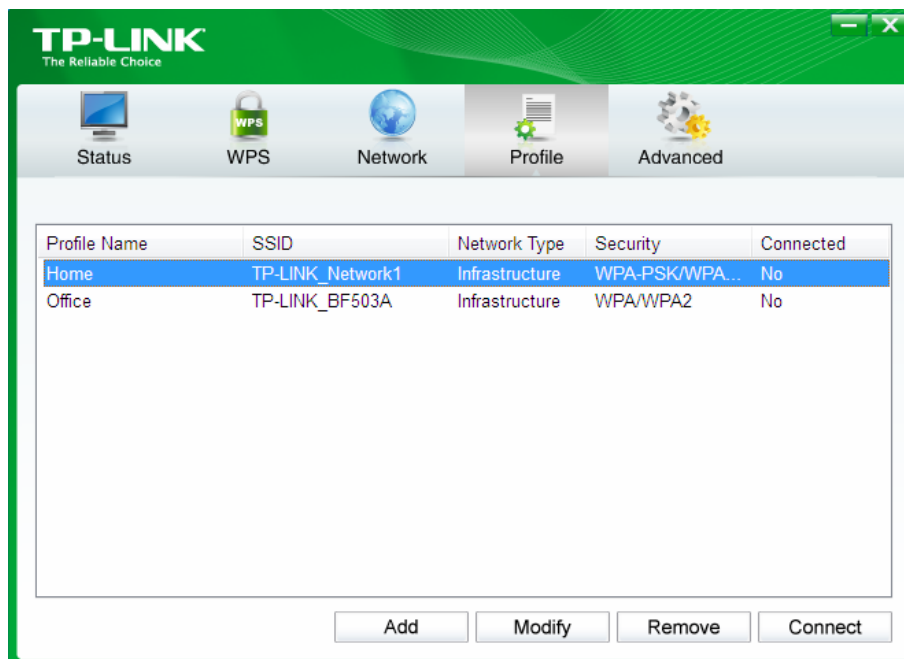


Figure 4-4

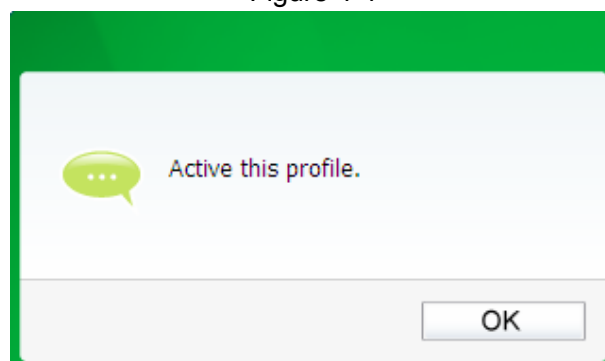


Figure 4-5

4.1.1.2. Add a profile in ad hoc mode

 Note:

Ad hoc mode is not suitable in Windows 8.

If you are connecting to another wireless client such as an adapter, select **ad hoc** as the Network Type in the screen that appears and follow the instructions below to finish the setting.

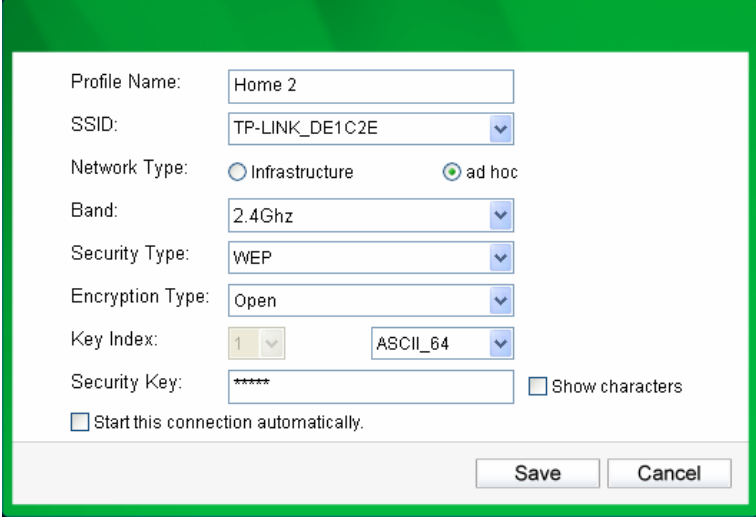


Figure 4-6

The following items can be found on the screen.

- **Profile Name:** Enter a name for your profile e.g. Home, Office, Coffee Shop. The same name is not allowed. Please also note that no space is allowed between words.
- **SSID:** Select the target network from the drop-down list.
- **Network Type:** Select the network type. If you are connecting to a wireless router or access point, select **Infrastructure**. If you are connecting to another wireless client such as an adapter, select **ad hoc**.
- **Band:** This item determines which operating frequency will be used. Two options are available: 2.4GHz and 5GHz. It is recommended that your computers and devices running video and voice applications use the 5GHz band, while your guest access and computers that are only browsing the web use the 2.4GHz band.
 - **2.4GHz** - You can use the 2.4GHz band to connect to many classic wireless devices like gaming consoles, laptops, DVRs, ect.
 - **5GHz** - This band is less crowded and is used for time-sensitive music, video streaming or gaming. Using this band can avoid interference with 2.4GHz networks or noisy devices like cordless phones and microwave ovens.

 Note:

The choice for **Band** is only available in Windows XP; while in Windows 7, by default it only supports 2.4 G network in Ad-hoc mode.

- **Security Type:** Select the security type from the list. Two options are available: **WEP** and **None**. **None** stands for no security. It is recommended that you select WEP to secure your wireless network.

- **Encryption Type:** If you select **None** as the Security Type, the Encryption Type will be **None** accordingly. If you select **WEP** as the Security Type, the Encryption Type will be **Open**.
- **Key Index:** You can select **ASCII** or **Hexadecimal** format on the right. ASCII format stands for any combination of keyboard characters in the specified length. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length.
 - For **64-bit** encryption - You can enter 10 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not permitted) or 5 ASCII characters.
 - For **128-bit** encryption - You can enter 26 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not permitted) or 13 ASCII characters.
- **Security Key:** Enter the passphrase. Click the **Show characters** box to see the passphrase. Unchecking it will hide it.
- **Start this connection automatically:** Check this box to automatically connect to this network next time.
- **Save:** Click **Save** to save your settings.

Having completed the above settings, the Profile page should look like the following figure. To connect to a desired network, just highlight the network you would like to connect to and click the **Connect** button on the bottom of the window. Then click **OK** in Figure 4-8 to activate the profile.

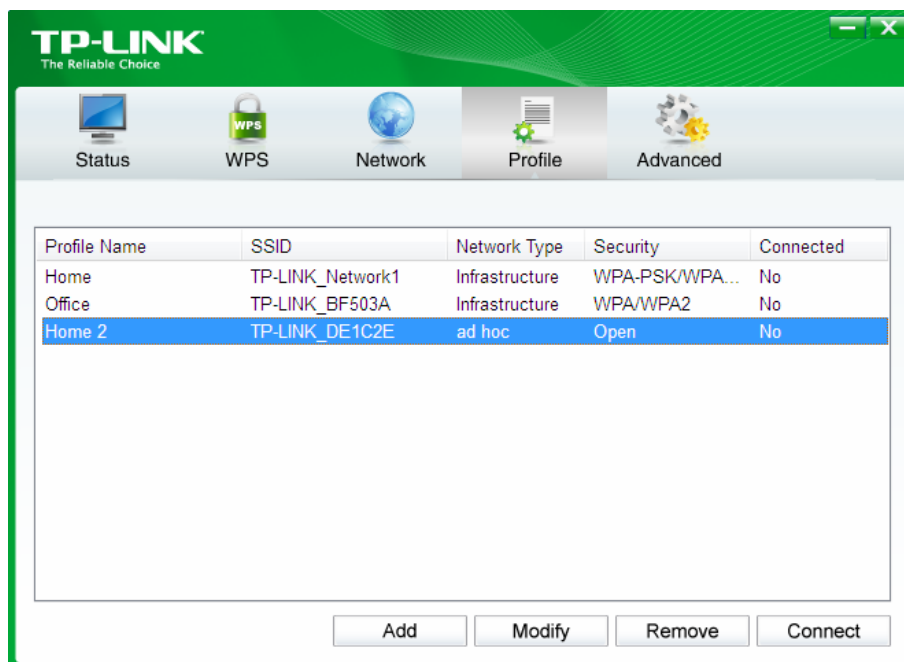


Figure 4-7

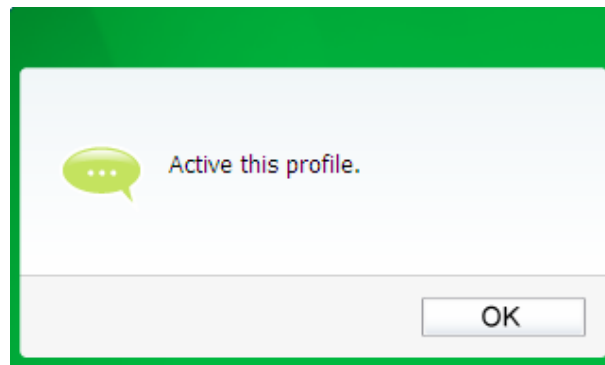


Figure 4-8

4.1.2 Modify a profile

You may edit an existing profile by clicking the **Modify** button from the Profile page. For instance, you may like to change the profile name from Home to Home1 or you may want to specify another SSID for profile Home. After all the changes, click **Save** to make the changes take effect.

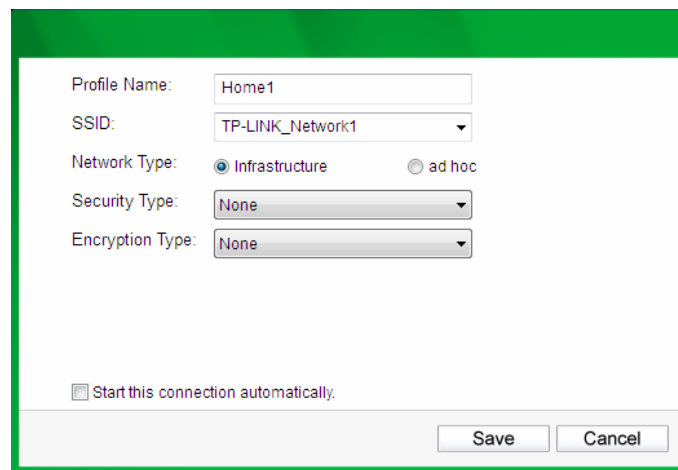


Figure 4-9

4.1.3 Delete a profile

To delete an existing profile, highlight the profile name and click **Remove** on the bottom of the screen or press the Delete button on your keyboard. When the following figure appears, click **OK** to continue.

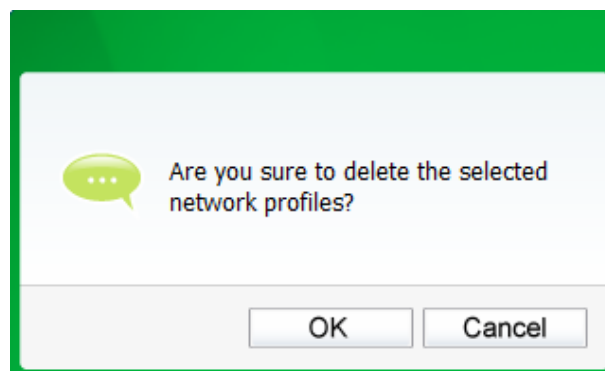


Figure 4-10

4.2 Advanced

The following configurations can be made on the **Advanced** page:

- 1) To select wireless configuration tool.

Here you can decide which tool to use, either the TP-LINK Configuration Utility or the Windows wireless configuration tool. (This option is available only in Windows XP.)

- 2) To switch to another wireless network adapter.

Here you can switch to another adapter installed in your computer. The adapters successfully installed in your computer will be listed in the drop-down list if the adapters are supported by this utility.

- 3) To switch to SoftAP mode.

Once enabled, the adapter will be able to work as an AP.

- 4) To change the power save mode. The default option is OFF.

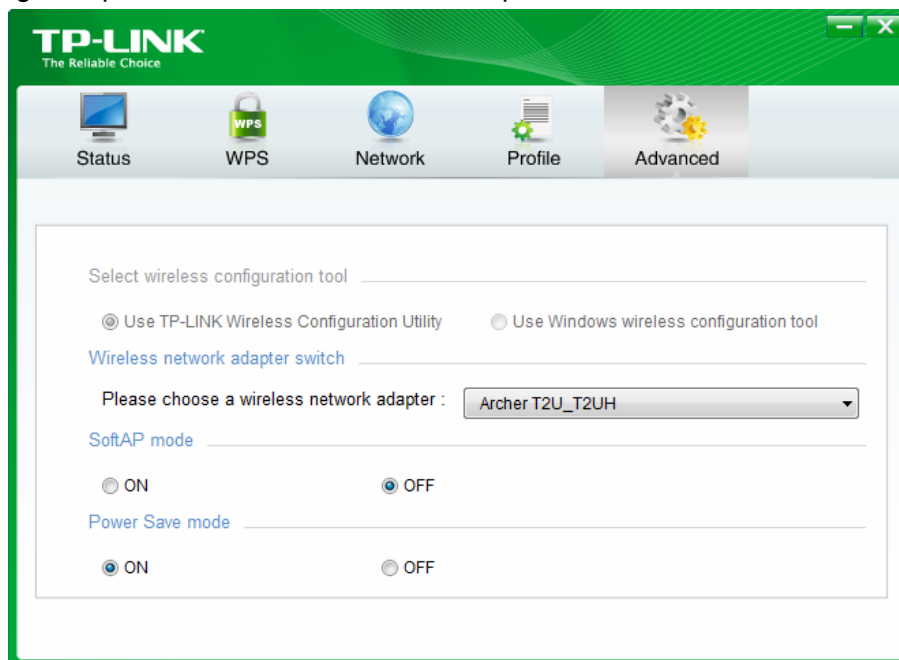


Figure 4-11

4.3 About

The About screen gives you some information about the Driver and Utility versions of the adapter. Right-click the  icon in your system tray and select **About** from the list.

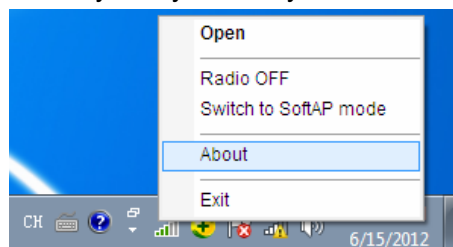


Figure 4-12

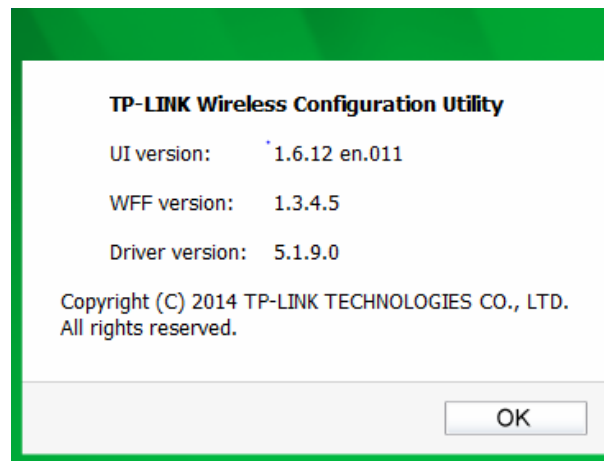


Figure 4-13

Chapter 5 AP Mode

In Soft AP mode, the adapter will work as an AP.

Suppose that only one computer in your house can access the Internet for various reasons like only one WLAN port is available on your wired broadband Router, however, other wireless-capable devices also want to share the Internet. Then the adapter can be configured as an AP under the Soft AP mode, saving you the trouble of having to get a separate access point or a Router.

With this feature, a computer can use a single physical wireless adapter to connect as a client to a hardware access point while at the same time acting as a software AP allowing other wireless-capable devices to connect to it.

To switch to this mode, right-click on the utility icon in your system tray and select **Switch to SoftAP mode**.

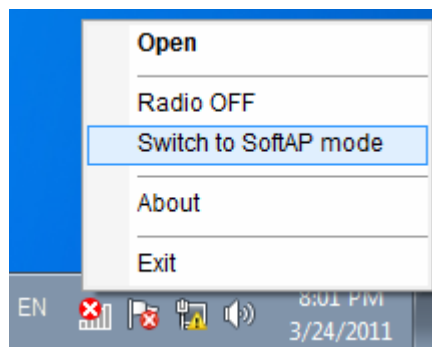


Figure 5-1

Or from the **Advanced** page of the utility, tick **ON** under the **SoftAP mode** as shown in the following figure. Click **OK** when prompted to confirm the setting.

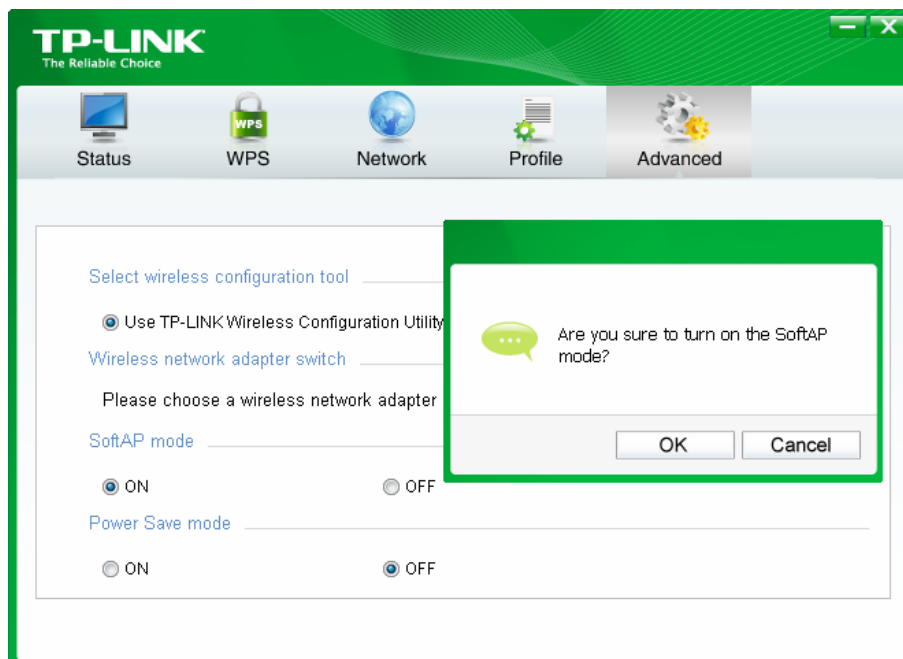


Figure 5-2

The **Soft AP** icon then will appear beside **Advanced** icon in the utility.



Figure 5-3

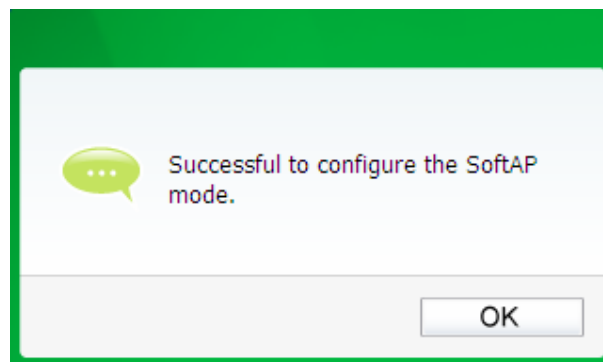


Figure 5-4

- **SoftAP mode:** Select to enable or disable the function.
- **Internet Connecting Share (ICS):** Specify a connection through which devices connected to your AP can access the Internet.
- **SSID:** Enter the name for your soft AP (for example, Jone) so that others can know which AP is yours when trying to connect to it.
- **Band:** This item determines which operating frequency will be used. Two options are available: 2.4GHz and 5Ghz. It is recommended that your computers and devices running video and voice applications use the 5GHz band, while your guest access and computers that are only browsing the web use the 2.4Ghz band.
 - **2.4GHz** - You can use the 2.4GHz band to connect to many classic wireless devices like gaming consoles, laptops, DVRs, ect.
 - **5GHz** - This band is less crowded and is used for time-sensitive music, video streaming or gaming. Using this band can avoid interference with 2.4GHz networks or noisy devices like cordless phones and microwave ovens.

 Note:

The choice for **Band** is only available in Windows XP; while in Windows 7 and Windows 8, by default it only supports 2.4 GHz network.

- **Security Type:** The security type here is set to be WPA2-PSK which is based on 802.11i and uses AES (Advanced Encryption Standard) instead of TKIP. It was designed to improve the security features of WEP. WPA2-PSK uses a passphrase or key to authenticate your wireless connection. You needn't make any configuration here.
- **Encryption Type:** The encryption type here is set to be AES.
- **Security Key:** Enter the Key in the field to make your AP security enabled. It is recommended that you specify another key instead of the default key 12345678. Only by entering the corresponding key can other computers establish a successful connection with your AP.
- **IP Address:** Here displays the IP address of the SoftAP.

Having completed the above settings, click **Apply**; then Figure 5-4 will pop up, where you click **OK** to make Soft AP mode take effect.

Chapter 6 Uninstall Software

6.1 In Windows XP/7

The software uninstall steps are similar in Windows XP, and Windows 7, here we just use Windows 7 as an example.

6.1.1 Uninstall the utility software from your PC

1. On the Windows taskbar, click the **Start** button, click **All programs**→**TP-LINK**, and then click **Uninstall-TP-LINK Wireless Configuration Utility**.

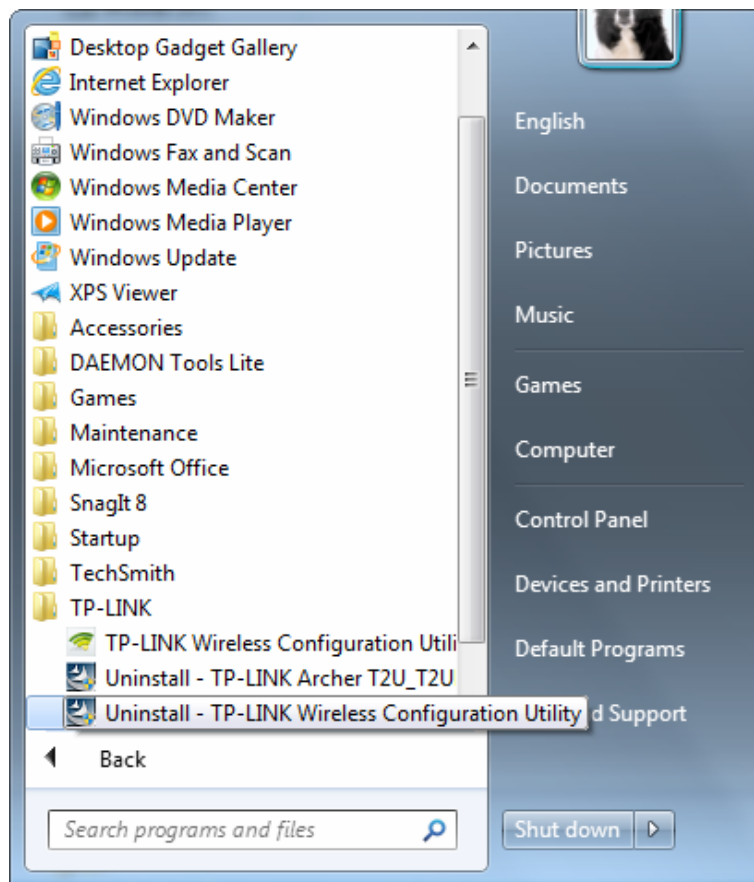


Figure 6-1 Uninstall Utility

2. Click **Yes** to start uninstalling the utility software from your PC.

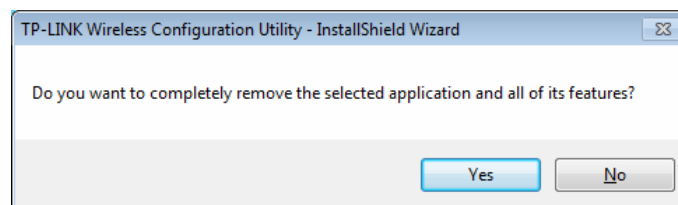


Figure 6-2

- It may take a few minutes to undergo the whole un-installation process.

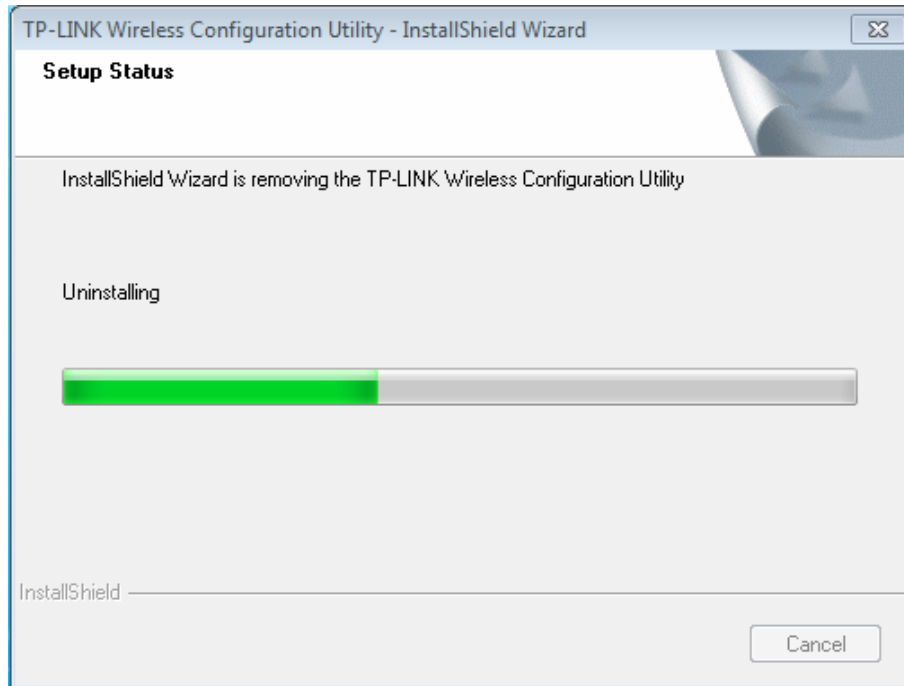


Figure 6-3

- Click **Finish** when the figure below appears.

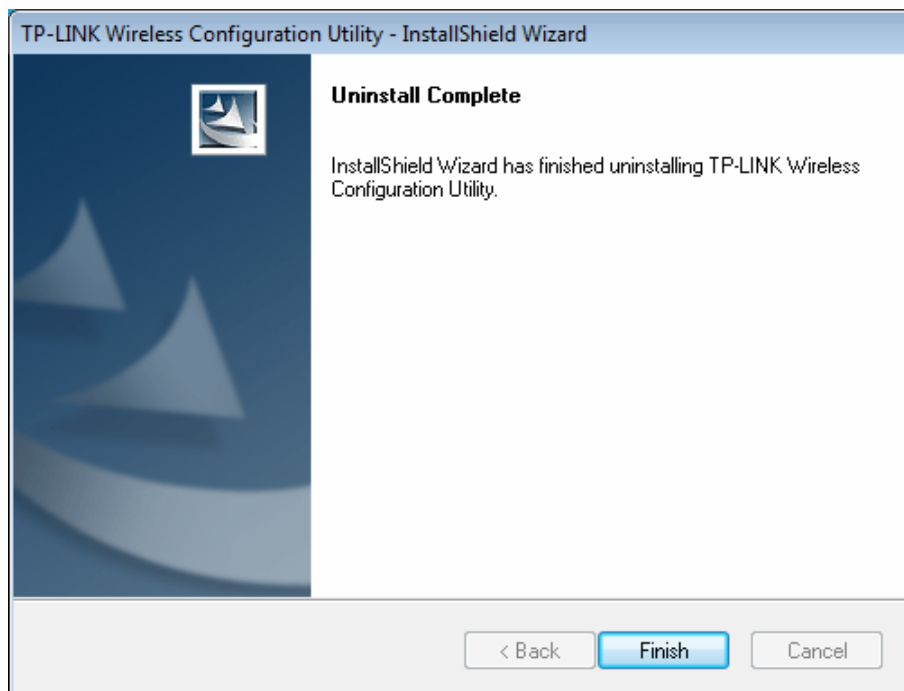


Figure 6-4

6.1.2 Uninstall the driver software from your PC

1. On the Windows taskbar, click the **Start** button, click **All programs**→**TP-LINK**, and then click **Uninstall-TP-LINK Archer T2U_T2UH Driver**.

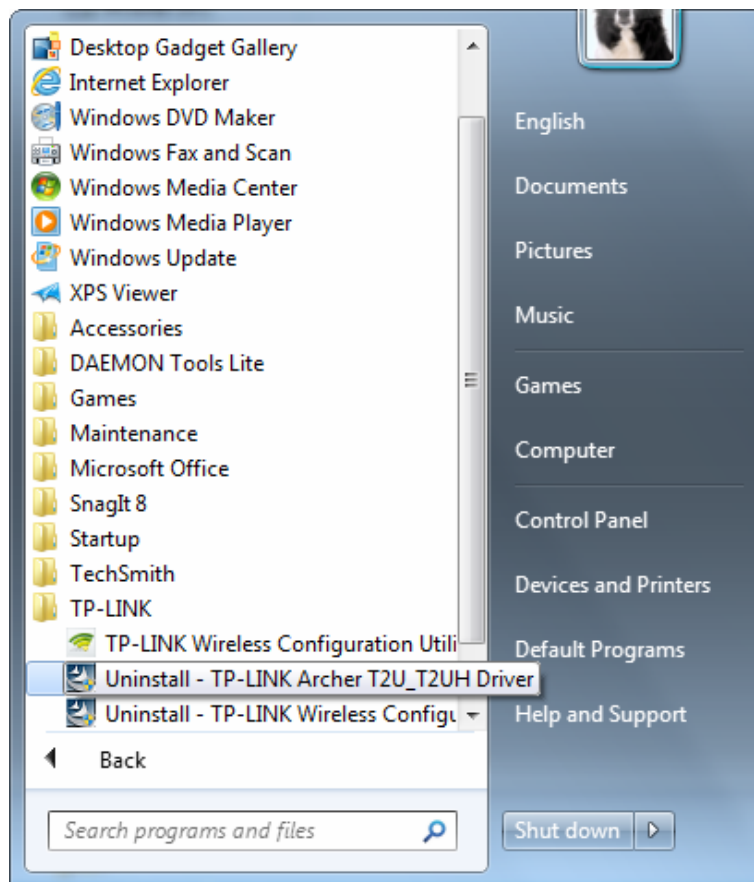


Figure 6-5 Uninstall Driver

2. Click **Yes** to start uninstalling the driver software from your PC.

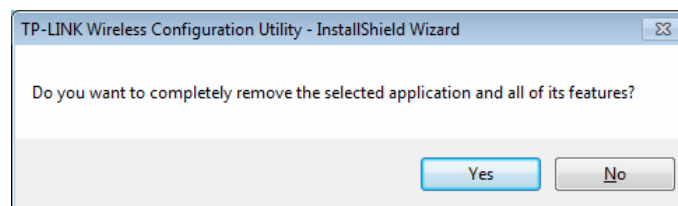


Figure 6-6

- It may take a few minutes to undergo the whole un-installation process.

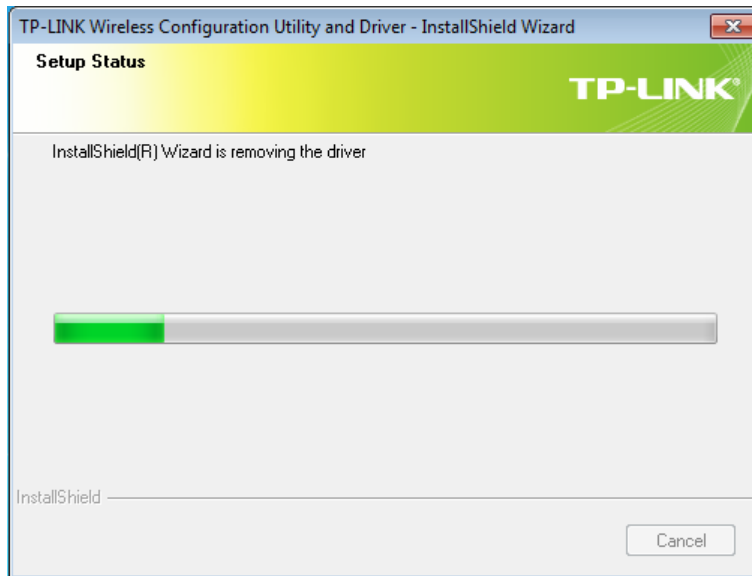


Figure 6-7

- Click **Finish** when the figure below appears.

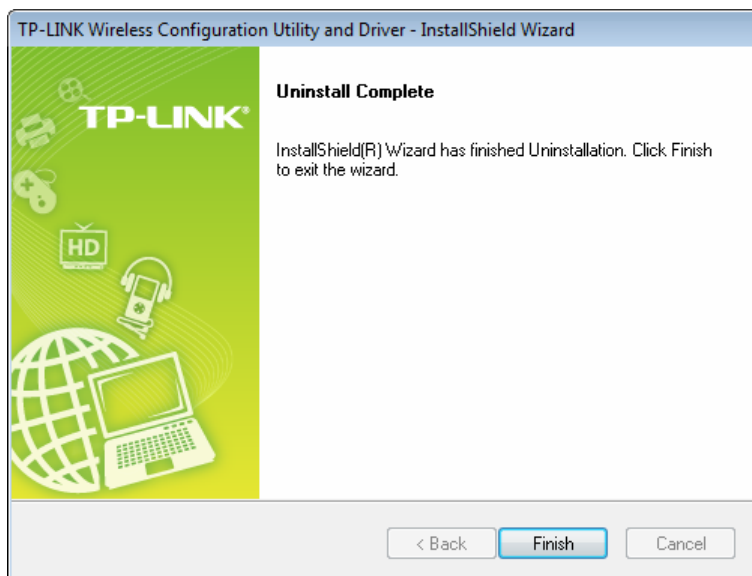


Figure 6-8

6.2 In Windows 8

6.2.1 Uninstall the utility software from your PC

1. Enter the **Apps** interface, and find the **TP-LINK** application, then click **Uninstall- TP-LINK Wireless Configuration Utility**.

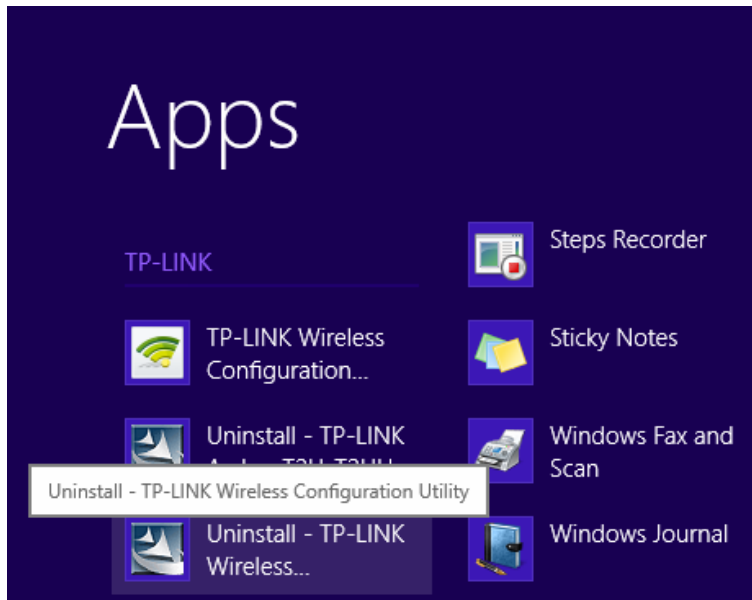


Figure 6-9

2. Click **Yes** to start uninstalling the utility software from your PC.

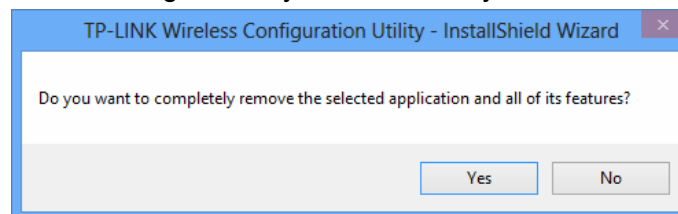


Figure 6-10

3. It may take a few minutes to undergo the whole un-installation process.

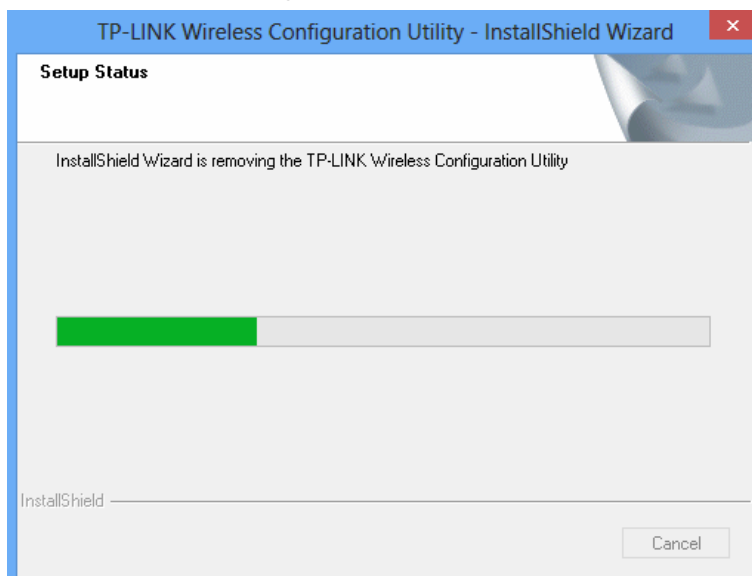


Figure 6-11

- Click **Finish** when the figure below appears.

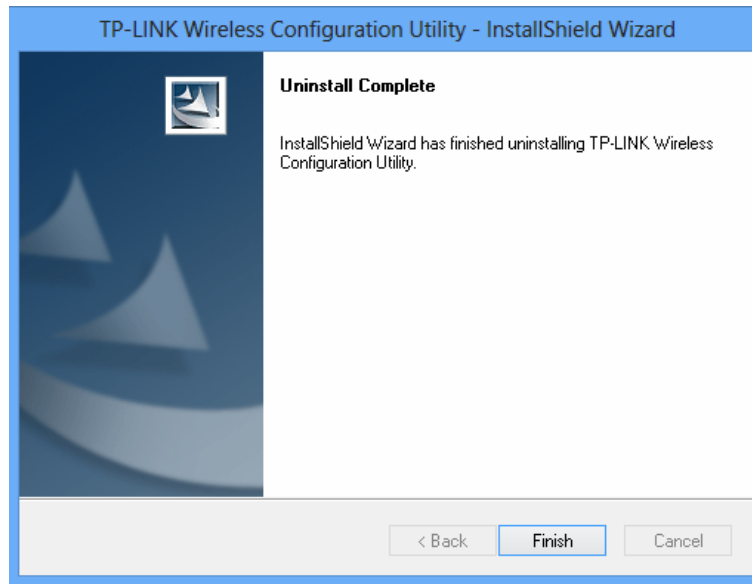


Figure 6-12

6.2.2 Uninstall the driver software from your PC

- Enter the **Apps** interface, and find the **TP-LINK** application, then click **Uninstall-TP-LINK Archer T2U_T2UH Driver**.

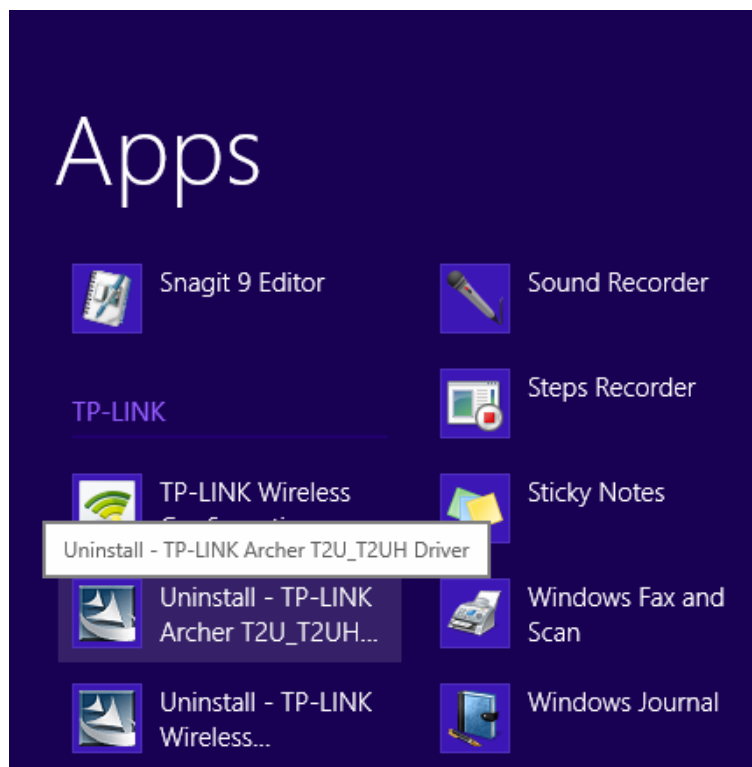


Figure 6-13

- Click **Yes** to start uninstalling the driver software from your PC.

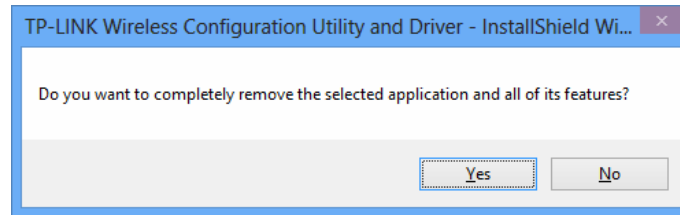


Figure 6-14

- It may take a few minutes to undergo the whole un-installation process.

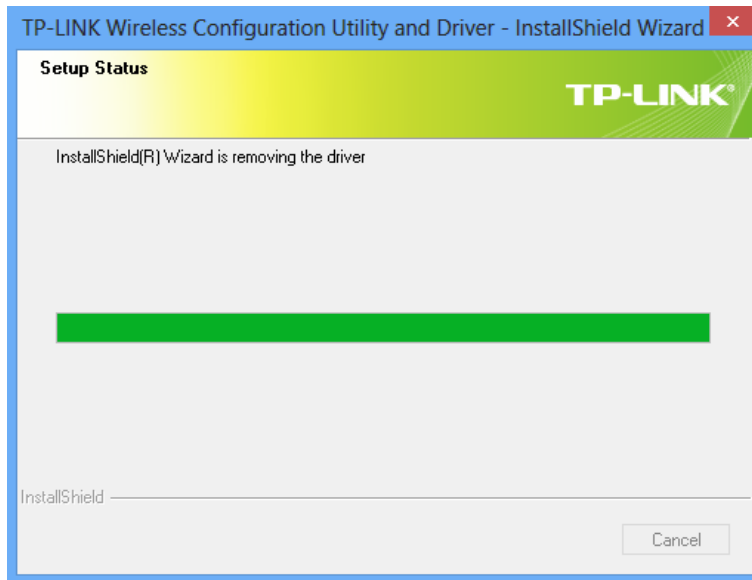


Figure 6-15

- Click **Finish** when the figure below appears.

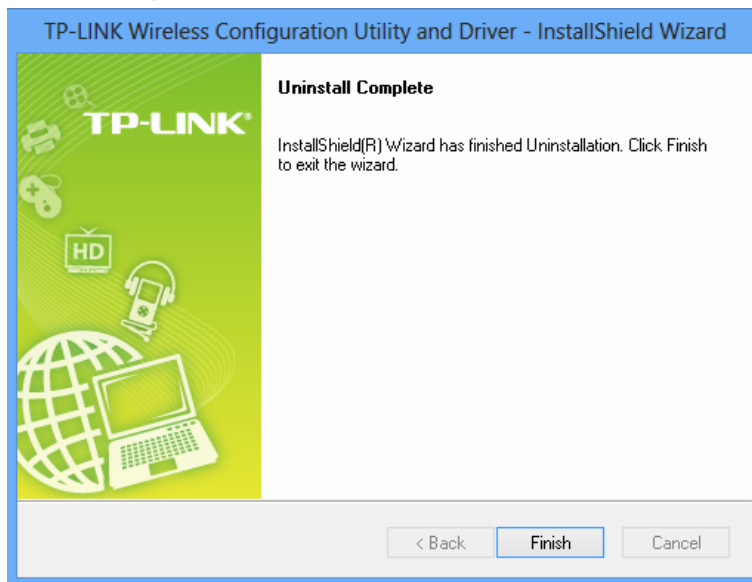


Figure 6-16

Appendix A: Specifications

Normal	
Interface	USB 2.0 Interface
Standards	IEEE802.11a; IEEE802.11b; IEEE802.11g; IEEE802.11n; IEEE802.1x, IEEE802.11ac
Operating System	Windows XP, Windows 7, Windows 8
Throughput	2.4GHz:150Mbps (Maximal) 5GHz: 433Mbps (Maximal)
Data Security	WEP, WPA / WPA2, WPA-PSK / WPA2-PSK
Frequency*	2.4 ~ 2.4835 GHz, 5.15~5.25GHz, 5.25~5.35GHz, 5.475~5.725GHz, 5.745~5.825GHz
Safety & Emissions	FCC, CE, WIFI, IC, NCC, WHQL

Environmental and Physical	
Working Temperature	0℃~40℃ (32°F~104°F)
Storage Temperature	-40℃~70℃(-40°F~158°F)
Working Humidity	10% ~ 90% RH, Non-condensing
Storage Humidity	5% ~ 90% RH, Non-condensing

* 1. Only 2.412GHz~2.462GHz is allowed to be used in USA, which means only channel 1~11 is available for American users to choose.

* 2. Rules on the use of 5GHz band channels may vary according to different national laws.

Appendix B: Glossary

- **802.11ac** - IEEE 802.11ac is a wireless computer networking standard of 802.11. This specification will enable multi-station WLAN throughput of at least 1 gigabit per second. This is accomplished by extending the air interface concepts embraced by 802.11n: wider RF bandwidth, more MIMO spatial streams, multi-user MIMO, and high-density modulation (up to 256 QAM).
- **802.11n** - 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- **802.11g** - specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- **802.11b** - The 802.11b standard specifies a wireless product networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- **802.11a** - specification for wireless networking at 54 Mbps using OFDM modulation and operating in radio band at 5GHz.
- **Ad hoc Network** - An ad hoc network is a group of computers, each with a Wireless Adapter, connected as an independent 802.11 wireless LAN. Ad hoc wireless computers operate on a peer-to-peer basis, communicating directly with each other without the use of an access point. Ad hoc mode is also referred to as an Independent Basic Service Set (IBSS) or as peer-to-peer mode, and is useful at a departmental scale or SOHO operation.
- **DSSS - (Direct-Sequence Spread Spectrum)** - DSSS generates a redundant bit pattern for all data transmitted. This bit pattern is called a chip (or chipping code). Even if one or more bits in the chip are damaged during transmission, statistical techniques embedded in the receiver can recover the original data without the need of retransmission. To an unintended receiver, DSSS appears as low power wideband noise and is rejected (ignored) by most narrowband receivers. However, to an intended receiver (i.e. another wireless LAN endpoint), the DSSS signal is recognized as the only valid signal, and interference is inherently rejected (ignored).
- **FHSS - (Frequency Hopping Spread Spectrum)** - FHSS continuously changes (hops) the carrier frequency of a conventional carrier several times per second according to a pseudo-random set of channels. Because a fixed frequency is not used, and only the transmitter and receiver know the hop patterns, interception of FHSS is extremely difficult.

- **Infrastructure Network** - An infrastructure network is a group of computers or other devices, each with a Wireless Adapter, connected as an 802.11 wireless LAN. In infrastructure mode, the wireless devices communicate with each other and to a wired network by first going through an access point. An infrastructure wireless network connected to a wired network is referred to as a Basic Service Set (BSS). A set of two or more BSS in a single network is referred to as an Extended Service Set (ESS). Infrastructure mode is useful at a corporation scale, or when it is necessary to connect the wired and wireless networks.
- **Spread Spectrum** - Spread Spectrum technology is a wideband radio frequency technique developed by the military for use in reliable, secure, mission-critical communications systems. It is designed to trade off bandwidth efficiency for reliability, integrity, and security. In other words, more bandwidth is consumed than in the case of narrowband transmission, but the trade off produces a signal that is, in effect, louder and thus easier to detect, provided that the receiver knows the parameters of the spread-spectrum signal being broadcast. If a receiver is not tuned to the right frequency, a spread-spectrum signal looks like background noise. There are two main alternatives, Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS).
- **SSID** - A **S**ervice **S**et **I**dentification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name. See *also* Wireless Network Name and ESSID.
- **WEP** - (**W**ired **E**quivalent **P**rivacy) - A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard. To gain access to a WEP network, you must know the key. The key is a string of characters that you create. When using WEP, you must determine the level of encryption. The type of encryption determines the key length. 128-bit encryption requires a longer key than 64-bit encryption. Keys are defined by entering in a string in HEX (hexadecimal - using characters 0-9, A-F) or ASCII (American Standard Code for Information Interchange – alphanumeric characters) format. ASCII format is provided so you can enter a string that is easier to remember. The ASCII string is converted to HEX for use over the network. Four keys can be defined so that you can change keys easily.
- **Wi-Fi** - A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see <http://www.wi-fi.net>), an industry standards group promoting interoperability among 802.11b devices.
- **WLAN** - (**W**ireless **L**ocal **A**rea **N**etwork) - A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.
- **WPA** - (**W**i-Fi **P**rotected **A**ccess) - A wireless security protocol uses TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.