# TP-LINK®

## **User Guide**

## Archer T2UH

## AC600 High Gain Wireless Dual Band USB Adapter



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http://www.tp-link.com

#### **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 measurments 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 5250-5350MHz and 5470-5725MHz

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 ré seaux locaux doit inclure des instructions pré cises sur les restrictions susmentionné es, notamment :

(i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont ré servé s 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 5 250-5 350 MHz et 5
470-5 725 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 dé crit dans ce manuel. La ré duction aux expositions

RF peut ê tre augmenté e si l'appareil peut ê tre conservé aussi loin que possible du corps de l'utilisate-

ur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible. SAR measurments 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 peutfonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pourl'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectriqueà l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que lapuissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire àl'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。



Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

# EHC

#### **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	ΗU	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 893V1.7.1:2012-06

EN 50566:2013/IEC 62209-2:2010/EN62209-2:2010 The product carries the CE Mark:

## **CE1588**①

Person responsible for making this declaration:

Yang Hongliang Product Manager of International Business

Date of issue: 2014

TP-LINK TECHNOLOGIES CO., LTD. Building 24 (floors 1, 3, 4, 5), and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

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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.

#### S 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**

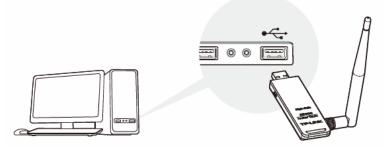
Please install the adapter into your computer before installing the driver and utility software from the Resource CD.

#### 2.1 Hardware Installation

There are two methods:

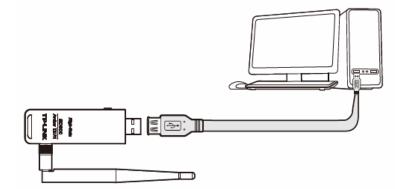
#### Method One:

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.

 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

 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.

TP-LINK Wireless Configuration Utility and Driver - Inst	allShield Wizard 🛛 🔼
Setup Type Select the setup type that best suits your needs.	TP-LINK
Click the type of setup you prefer. Install Driver Only Install TP-LINK Wireless Configuration Utility and Driver	Description Choose this option to install TP-LINK Wireless Configuration Utility and driver. This is the recommended option.
InstallShield	ck Next > Cancel

Figure 2-4

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.

TP-LINK Wi	reless Configuration Utility and Driver - InstallShield Wiza	rd 💽
Select th	e folder where setup will install files.	TP-LINK*
	Install TP-LINK Wireless Configuration Utility and Driver to: C:\\TP-LINK Wireless Configuration Utility	Change
InstallShield -	< Back Next	Cancel

Figure 2-5

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

TP-LINK Wireless Configuration Utility and Driver - InstallShield Wizar	d 💌
Ready to Install the Program The wizard is ready to begin installation.	TP-LINK
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Bac the wizard.	k. Click Cancel to exit
InstallShield	
Kaishield Kack Insta	all Cancel

Figure 2-6

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

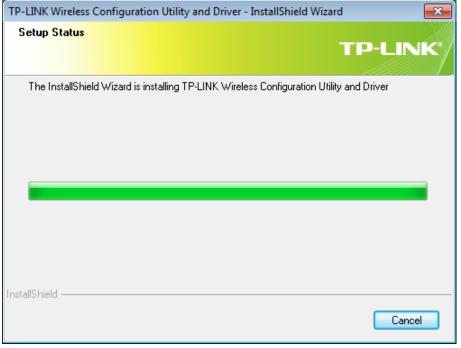


Figure 2-7

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

TP-LINK Wireless Configuration Utility and Driver - InstallShield Wizard					
TP-LINK Wireless Configuration	n Utility and Driver - InstallShield Wizard InstallShield Wizard Complete InstallShield(R) Wizard has finished Installation. Click Finish to exit the wizard.				
	< Back Finish Cancel				

Figure 2-8

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

TP-LINK The Reliable Choice					x
Status WF		Profile	Advanced		
Network Name(SSID)	Sec	urity 🤝	Channel 👻	Signal 🤜	
TP-LINK_7CA926	None		4 (2.4G)	all 🍧	
TP-LINK_Network1	🖬 WPA	2-Personal	13 (2.4G)	att	
TP-LINK_130969	None		44 (5G)	all a	
TP-LINK_BF134C	🖬 WPA,	WPA2-Enterprise	4 (2.4G)	att	
TP-LINK_130919	None		7 (2.4G)	-10	
TP-LINK_DE1C2E	S WPA	/WPA2-Personal	149 (5G)	100	
TPLINK_DATA_TRANS	WPA	-Personal	11 (2.4G)	100	
TP-LINK_D94F73	S WEP		7 (2.4G)	att .	
				Rescan	

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 <u>Section 3.3 To connect using Windows built-in wireless utility</u>.

#### 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.

	К				F	x
Status	WPS	Network	Profile	Advanced		
Network Nam	ne(SSID) 🤝	Securi	ty 👻	Channel 👻	Signal 🤜	
TP-LINK_7C	4926	None		4 (2.4G)		^
TP-LINK_Net	work1	WPA2-	Personal	13 (2.4G)		
TP-LINK_130	969	None		44 (5G)	-10	≡
TP-LINK_BF	134C	🔒 WPA/M	/PA2-Enterprise	e 4 (2.4G)		
TP-LINK_130	919	None		7 (2.4G)		
TP-LINK_DE	1C2E	WPA/W	/PA2-Personal	149 (5G)		
TPLINK_DAT	A_TRANS	WPA-P	ersonal	11 (2.4G)		
TP-LINK_D94	4F73	B WEP		7 (2.4G)	.atl	-
					Rescan	1

Figure 3-1

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.

TP- The Reliab								-	x
Sta	atus V	WPS Ne	etwo	rk Pi	rofile	Adva	nced		
Netv	work Name(SSID	) –		Security 👻		Channel	7	Signal 🥆	
TP-L	LINK_7CA926			None		4 (2.4G)			^
TP-L	_INK_Network1		8	WPA2-Persona	al	9 (2.4G)		l	
			<b>∨</b> C	onnect automa	tically		Connect		E
TP-L	LINK_130969			None		44 (5G)		.atl	
TP-L	LINK_BF134C		8	WPA/WPA2-Er	nterprise	4 (2.4G)		.all	
TP-L	_INK_130919			None		7 (2.4G)		100	
TP-L	INK_DE1C2E		8	WPA/WPA2-Pe	ersonal	149 (5G)		100	
TPL	INK_DATA_TRA	NS	8	WPA-Personal		11 (2.4G)		100	-
								Rescan	

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).

Diagon input the pa	
Please input the pa	ssword:
Security Key:	****
	Show characters
()	You can also connect by pushing the button on the router.
	OK Cancel

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.

Authentication:	Certificate
Certificate:	wifi-user WiFi-Intermediate-CA-
	OK Cancel

Figure 3-4

Authentication: User Name:	Password 💌 user
Password:	Show characters
	OK Cancel

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.

4. Please wait a few minutes for the connection process.

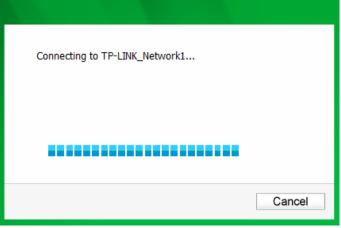


Figure 3-6

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

Connected to TP-LINK_Network1	
	Close



6. 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.

	WPS		¢	
Status	WPS	Network	Profile	Advanced
Profile Name:		TP-LINK_Network1		
Network Name	e(SSID):	TP-LINK_Network1		
Network Type:		Infrastructure	Rate:	150Mbps
Channel:		4 (2.4G)	Encryptic	on Type: AES
AP MAC:		94-0C-6D-2F-3C-BE	Wireless	Mode: 802.11n
IP Address:		192.168.1.23		
Signal Strengt	h: 💼			100% Ex

Figure 3-8

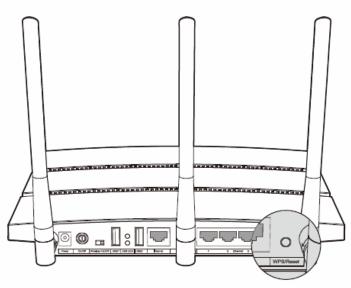
#### 3.2 To connect using WPS

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**.

Status       Image: Network       Image: Network       Image: Network         Image: Network       Image: Network       Image: Network <th>TP-LIN</th> <th>К</th> <th></th> <th></th> <th></th> <th>- ×</th>	TP-LIN	К				- ×
This application will guide you through configuring your wireless network. Please choose a method to join a wireless network: Push the button on my access point or wireless router. Enter the PIN of my access point or wireless router. Enter the PIN of this device into my access point or wireless router.		WPS				
<ul> <li>Please choose a method to join a wireless network:</li> <li>Push the button on my access point or wireless router.</li> <li>Enter the PIN of my access point or wireless router.</li> <li>Enter the PIN of this device into my access point or wireless router.</li> </ul>	Status	WPS	Network	Profile	Advanced	
	● Push the ◎ Enter the	nose a method to j e button on my ac e PIN of my acces	oin a wireless netw cess point or wirele ss point or wireless	iork: ess router. router.		k.

Figure 3-10

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

Configuring the wireless network.	
(((WPS)))	
Connecting to the 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

 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.

	К				- x
	WPS		4	2	
Status	WPS	Network	Profile	Advanced	
<ul> <li>○ Push the</li> <li>● Enter the</li> <li>PIN: 1349</li> </ul>	bose a method to j e button on my ac e PIN of my acces 12564	on will guide you th oin a wireless netw cess point or wireless s point or wireless e into my access p	rork: ess router. router.	) your wireless network outer	
					Connect

Figure 3-13

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

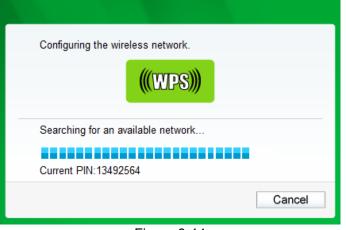


Figure 3-14

3. 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.

	ĸ				- x
			4		
Status	WPS	Network	Profile	Advanced	_
<ul> <li>Push the</li> <li>Enter the</li> <li>€Enter the</li> </ul>	ose a method to j e button on my ac e PIN of my acces	ion will guide you th join a wireless network cess point or wireless so point or wireless te into my access p	vork: ess router. router.	) your wireless network	ς.
					Connect

Figure 3-15

 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.

Add A New Device
<ul> <li>Enter the new device's PIN.</li> <li>PIN: 19342306</li> </ul>
Press the button of the new device in two minutes.
Back Connect



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).

Add A New Device
<ul> <li>Enter the new device's PIN.</li> <li>PIN: 19342306</li> </ul>
Press the button of the new device in two minutes.
Connect successfully!
Back Connect

Figure 3-17

Configuring t	he wireless network.
	<b>(((WPS)))</b>
Successfully	connected to the network by WPS !
	ОК

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**.

Open		
Radio OFF		
Switch to Windows wireless configuration tool		
Switch to SoftAP mode		
About		
Exit		
	1 =X %	4

#### 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.

TP-LIN The Reliable Choice	ĸ				
	WPS		¢.	and a second	
Status	WPS	Network	Profile	Advanced	
⊙ Use TF Wireless ne	-LINK Wireless C etwork adapter s noose a wireless	n tool onfiguration Utility witch network adapter :	🔿 Use Windo	ws wireless configura < Connection 18 Arch	
O ON Power Save		⊙ OFF			

Figure 3-20

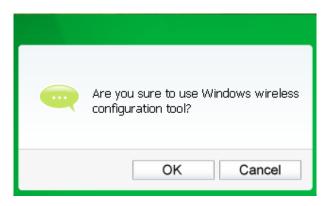


Figure 3-21

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



Figure 3-22

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

<sup>(3)</sup> Wireless Network Connection 32					
Network Tasks	Choose	e a wireless network			
🛃 Refresh network list	Click an iten information.	n in the list below to connect to a wireless network in range or to get i	more		
Set up a wireless network for a home or small office	((ဝ))	TP-LINK_254350	•		
Related Tasks	((Q))	Security-enabled wireless network (WPA2) TP-LINK_CB3A52	BUUU		
Learn about wireless networking	U	😚 Security-enabled wireless network (WPA2)	•0000		
Change the order of preferred networks	((°)))	TP-LINK_Network1  Security-enabled wireless network (WPA2)	atil =		
Change advanced settings		To connect to this network, click Connect. You might need to enter additional information.			
	((စု))	WR541	.0		
	U	😚 Security-enabled wireless network	1000		
	<u>((</u> စူ))	SOHO_AT	-n 💌		

#### Figure 3-23

4. 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.

Wireless Network Connection				
The network 'TP-LINK_Network1' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.				
Type the key, and then click (	Connect.			
Network <u>k</u> ey:	•••••			
Confirm network key:	•••••			
	<u>Connect</u> Cancel			

Figure 3-24

#### 3.3.2 In Windows 7

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

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**.





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.

🔮 Connect to a Network					
Type the network	Type the network security key				
Security key:	•••••				
	Hide characters				
You can also connect by pushing the button on the router.					
	ОК	Cancel			

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

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.

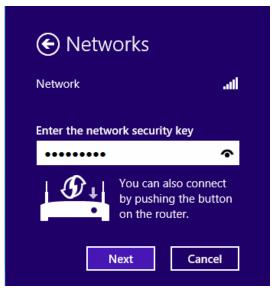


Figure 3-29

#### 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 *clicking* 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.

The Reliable Choice	K				
Status	WPS	Network	Profile	Advanced	
Profile Name	SSID		Network Type	Security	Connected

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.

#### Archer T2UH AC600 High Gain Wireless Dual Band USB Adapter

Profile Name:	Home	
SSID:	TP-LINK_Network1	<b>▼</b>
Network Type:	Infrastructure	🔘 ad hoc
Security Type:	WPA-PSK/WPA2-PSK	<b>•</b>
Encryption Type:	TKIP/AES	<b>•</b>
Security Key:	******	Show characters
Start this connec	tion automatically.	
		Save Cancel

Figure 4-2

Profile Name:	Office
SSID:	TP-LINK_BF503A
Network Type:	Infrastructure
Security Type:	WPA/WPA2
Encryption Type:	TKIP/AES 👻
Authentication:	Certificate 👻
Certificate:	wifi-user WiFi-Intermediate-CA- ▼
Start this connection	ction automatically.
	Save 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.

### Solution 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.

					- x
Status			<b>C</b>		
Status	WPS	Network	Profile	Advanced	
Profile Name	SSID		Network Type	Security	Connected
Home	TP-LINK	Network1	Infrastructure	WPA-PSK/WPA	No
Office	TP-LINK	_BF503A	Infrastructure	WPA/WPA2	No
		Add	Modify	Remove	Connect

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.

Profile Name:	Home 2
SSID:	TP-LINK_DE1C2E
Network Type:	◯ Infrastructure
Band:	2.4Ghz
Security Type:	WEP 🗸
Encryption Type:	Open 👻
Key Index:	1 🖌 ASCII_64 🔽
Security Key:	***** Show characters
🔲 Start this connec	ion automatically.
	Save Cancel



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.

### S 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.

### Archer T2UH AC600 High Gain Wireless Dual Band USB Adapter

- 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 looks 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.

TP-LINK					
Status	WPS	Network	Profile	Advanced	
Profile Name Home Office		Network1 BF503A	Network Type Infrastructure Infrastructure	Security WPA-PSK/WPA WPA/WPA2	Connected No No
Home 2		DE1C2E	ad hoc	Open	No
L		Add	Modify	Remove	Connect

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.

Profile Name:	Home1		
SSID:	TP-LINK_Network1	•	
Network Type:	<ul> <li>Infrastructure</li> </ul>	🔘 ad hoc	
Security Type:	None	•	
Encryption Type:	None	T	
🔲 Start this connec	tion automatically.		
		Save Cancel	

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.

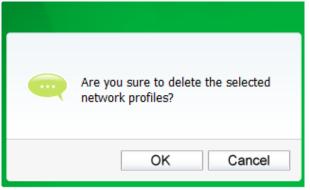


Figure 4-10

# 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.)

- 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.

liable Choice	ĸ			
	WPS			200
Status	WPS	Network	Profile	Advanced
Select wirel	ess configuratior	n tool		
_			O Use Windo	ws wireless configuration t
	etwork adapter sv			
Please ch SoftAP mod		network adapter : (	Archer T2U_T2U	JH
ON (		OFF		
Power Save	mode			

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 *mill* icon in your system tray and select **About** from the list.

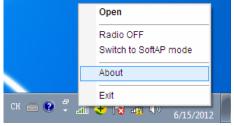


Figure 4-12

TP-LINK Wirele	ess Configuration Utility
UI version:	1.6.12 en.011
WFF version:	1.3.4.5
Driver version:	5.1.9.0
Copyright (C) 2014 TI All rights reserved.	P-LINK TECHNOLOGIES CO., LTD.
	ОК

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**.

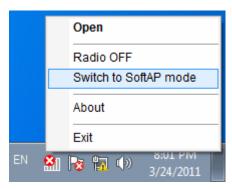


Figure 5-1

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.

P-LIN he Reliable Choice	ĸ				
	WPS		2	200 - C	
Status	WPS	Network	Profile	Advanced	
💿 Use TP	ess configuratior -LINK Wireless C :twork adapter sv	onfiguration Utility	Are y mode	ou sure to turn on the 9 ?	SoftAP
	oose a wireless le	network adapter		ОК	Cancel
ON		OFF			
Power Save	mode				

Figure 5-2

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

	C					- x
Status	WPS	Network	Profile		Advanced	Soft AP
SoftAP mode: Internet Conne	ecting Share(ICS):	ON Local Network	OFF	•		
SSID: Band:		SoftAP 2.4GHz		•		
Security Type Encryption Ty Security Key:	pe:	WPA2-PS AES 12345678	K	•	Show ch	oractore
IP Address:		192.168.0.1			M Show ch	
						Apply

Figure 5-3

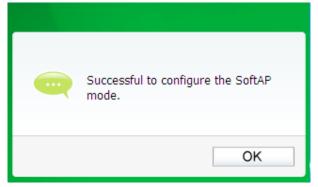


Figure 5-4

- > 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.

### Solution 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**.

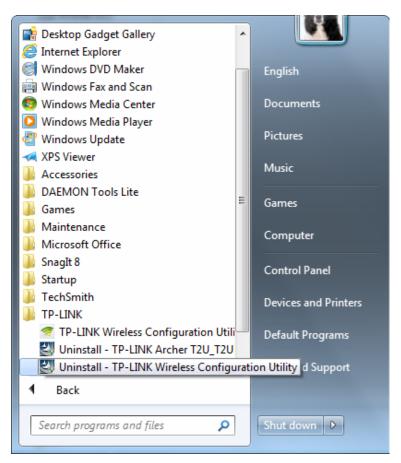


Figure 6-1 Uninstall Utility

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

TP-LINK Wireless Configuration Utility - InstallShield Wizard	23
Do you want to completely remove the selected application and all of its features?	
Yes <u>N</u> o	

Figure 6-2

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

TP-LINK Wireless Configuration Utility - InstallShield Wizard	23
Setup Status	
InstallShield Wizard is removing the TP-LINK Wireless Configuration Utility	
Uninstalling	
InstallShield	
	Cancel



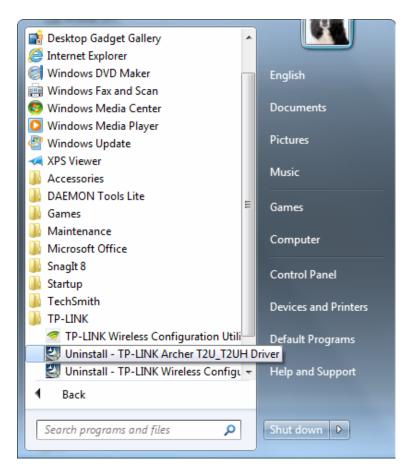
4. Click **Finish** when the figure below appears.

TP-LINK Wireless Configuration	n Utility - InstallShield Wizard
	Uninstall Complete InstallShield Wizard has finished uninstalling TP-LINK Wireless Configuration Utility.
	K Back Finish Cancel

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.

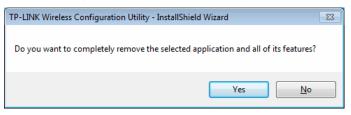


Figure 6-6

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

TP-LINK Wireless Configuration Utility and Driver - InstallShield Wizard
Setup Status TP-LINK
InstallShield(R) Wizard is removing the driver
InstallShield Cancel

Figure 6-7

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

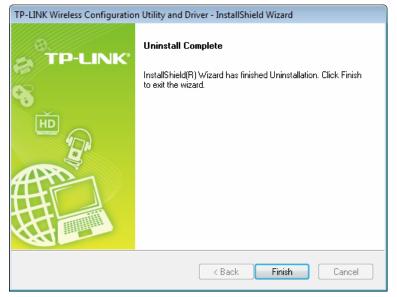


Figure 6-8

# 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.

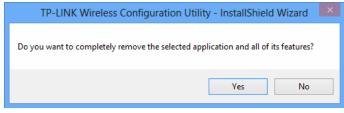


Figure 6-10

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

TP-LINK Wireless Configuration Utility - InstallShield W	izard ×
Setup Status	Z
InstallShield Wizard is removing the TP-LINK Wireless Configuration Utility	
InstallShield	Cancel

Figure 6-11

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

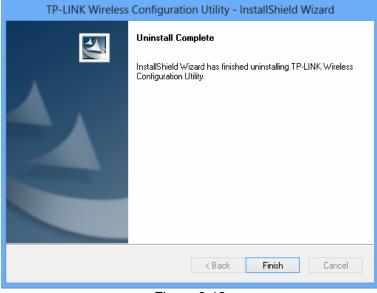


Figure 6-12

## 6.2.2 Uninstall the driver software from your PC

1. Enter the **Apps** interface, and find the **TP-LINK** application, then click **Uninstall-TP-LINK Archer T2U\_T2UH Driver**.



Figure 6-13

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

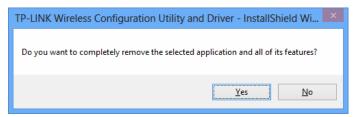


Figure 6-14

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

TP-LINK Wireless Configuration Utility and Driver - InstallShield Wizard 🎴	¢
Setup Status TP-LINK	
InstallShield(R) Wizard is removing the driver	
nstallShield	



4. 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 $\sim$ 2.462GHz is allowed to be used in USA, which means only channel 1 $\sim$ 11 is available for American users to choose.

 $\ast$  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.

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- 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 Service Set Identification 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 (Wired Equivalent Privacy) 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 (Wireless Local Area Network) A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.
- WPA (Wi-Fi Protected Access) A wireless security protocol uses TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.