TP-LINK®

User Guide

Archer T4U

AC1200 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.

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.

5150-5250 MHz

| Country | Restriction | Reason/remark |
|--------------------|------------------|--------------------------------------------------------|
| Bulgaria | Not implemented | Planned |
| Croatia | License required | |
| Itali | | General authorization required if used outside own |
| Italy | | premises |
| Luxombourg | None | General authorization required for network and service |
| Luxembourg | None | supply (not for spectrum) |
| Russian Federation | No info | |

Note: Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

5250-5350 MHz

| Country | Restriction | Reason/remark |
|--------------------|------------------|--------------------------------------------------------|
| Dulgaria | Not | Planned |
| Bulgaria | implemented | |
| Croatia | License required | |
| Italy | | General authorization required if used outside own |
| Italy | | premises |
| Luxombourg | None | General authorization required for network and service |
| Luxembourg | None | supply (not for spectrum) |
| Russian Federation | No info | |

5470-5725 MHz

| Country | Restriction | Reason/remark |
|--------------------|-----------------|--------------------------------------------------------|
| Dulgaria | Not | Planned |
| Bulgaria | implemented | |
| | | Relevant+ provisions for the implementation of DFS |
| France | | mechanism described in ETSI standard EN 301 893 |
| | | V1.3.1 and subsequent versions |
| Italy | | General authorization required if used outside own |
| Italy | | premises |
| Luxombourg | None | General authorization required for network and service |
| Luxembourg | None | supply (not for spectrum) |
| Russian Federation | No info | |
| Turkey | Not implemented | Defence systems |

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage;

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Industry Canada Statement

Complies with the Canadian ICES-003 Class B specifications.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (B)/NMB-3(B)

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice

注意!

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻 率、加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行; 經發現有干擾現象時, 應立 即停用, 並改善至無干擾時方得繼續使用。前項合法通信, 指依電信規定作業之無線電信。低功 率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。 減少電磁波影響, 請妥適使用。

> 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。

E

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

EHE

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 | US | | |

DECLARATION OF CONFORMITY

For the following equipment:

Product Description: AC1200 Wireless Dual Band USB Adapter

Model No.: Archer T4U

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**

EN 301 489-1 V1.9.2 & EN 301 489-17 V2.2.1 EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 +A2: 2013 EN 50566: 2013 EN 301 893 V1.7.1 The product carries the CE Mark:

CE1588①

Person responsible for making this declaration:

Yang Hongliang Product Manager of International Business

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Chapter 1 Product Overview

1.1 Introduction

The TP-LINK Archer T4U AC1200 Wireless Dual Band USB Adapter connects your notebook or desktop computer over Wi-Fi to an 11ac or other network for applications such as lag-free video streaming, online gaming, and secure Internet surfing.

1.2 Features

- Supports 802.11ac standard
- > Seamlessly compatible with 802.11a/b/g/n/ac products
- ➢ USB 3.0 port
- > Equipped with a USB Extension Cable for flexible deployment
- > Dual Band connections for lag-free HD video streaming and gaming
- Maximum speed of up to 867Mbps for 5GHz network and up to 300Mbps for 2.4GHz network
- > Supports ad-hoc and infrastructure mode
- > Easy wireless security encryption at a push of the WPS button
- Supports 64/128 WEP, WPA/WPA2, WPA-PSK/WPA2-PSK(TKIP/AES), supports IEEE 802.1x
- Easy Wireless Configuration Utility
- Supports Windows 8.1/8/7/XP 32/64bit, Mac OS X 10.7 10.9

1.3 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 Connect to a Computer

Before you begin using your adapter, connect the adapter to your computer.

Option 1: Directly

Insert the adapter into a USB port on your computer directly.



Option 2: Via the USB Extension Cable

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



Note:

- In Windows XP, a Found New Hardware Wizard window will appear when the adapter is detected. Please click Cancel.
- The adapter provides the best performance with a USB 3.0 port and is also compatible with a USB 2.0 or USB 1.1 port.

After connecting your adapter to the computer, please follow the instructions in the appropriate chapter for your operating system: <u>Windows</u>, <u>Mac OS X</u>.

Chapter 3 Windows

3.1 Install Driver and Utility

The Setup Wizard will guide you through the installation procedures. We use the procedures in Windows 7 as an example - the procedures may vary slightly for other versions of Windows.

 Insert the resource CD into your CD drive and click the Run Autorun.exe from the pop-up AutoPlay window. Select Archer T4U and click Install Driver and Utility to begin.



Note:

- The CD is included in the package. If your CD does not work or your computer doesn't support the CD, you can also download the driver and utility from the TP-LINK website (www.tp-link.com).
- In some operating systems, the CD screen will pop up automatically. Otherwise, run the CD manually.
- 2. The InstallShield Wizard window displays. Click Next to continue.



3. Choose a setup type. It is recommended to select **Install TP-LINK Wireless Configuration Utility and Driver**. Click **Next**.

| TP-LINK Wireless Configuration Utility and Driver - InstallSh | ield 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 |

4. If you want to change install location, click **Change** to specify the location for the software installation. Or you can leave it default. Click **Next**.

| TP-LINK Wire | less Configuration Utility and Driver - InstallShield Wizard | X |
|-----------------|---------------------------------------------------------------|---------|
| Select the | e folder where setup will install files. | TP-LINK |
| | Install TP-LINK Wireless Configuration Utility and Driver to: | |
| | C\\TP-LINK\TP-LINK Wireless Configuration Utility | Change |
| | | |
| | | |
| | | |
| | | |
| InstallShield - | | |
| | < Back Next > | Cancel |

5. Click Install. After a few minutes, the installation completes. Click Finish.

| TP-LINK Wireless Configuration Utility and Driver - InstallShield Wizard | x |
|-----------------------------------------------------------------------------------------------------------------|-----|
| Ready to Install the Program The wizard is ready to begin installation. TP-LIP | JK. |
| Click Install to begin the installation. | |
| If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. | |
| InstallShield | |

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6. TP-LINK utility pops up after installation. Its icon appears on the desktop as and in the Windows system tray as . You can use the TP-LINK utility to join a Wi-Fi network with your adapter. For more guidance, please refer to Join a Wireless Network.

| | WPS | 6 | 9 | | 500 | | |
|----------------------------------|-----------|------|-------------|--------------|-----------|----------|--|
| Status | WPS | Netw | ork F | Profile | Advanced | | |
| Network Nam | e(SSID) 👻 | | Security 👻 | C | Channel 👻 | Signal 🤜 | |
| TP-LINK_7CA926 | | | None | 4 | (2.4G) | at l | |
| TP-LINK_Network | | 6 | WPA2-Persor | nal g | (2.4G) | Ma | |
| TP-LINK_130969 | | | None | L | 44 (5G) | din. | |
| TP-LINK_BF134C | | 8 | WPA/WPA2-E | Enterprise 4 | (2.4G) | In | |
| TP-LINK_BF134C TP-LINK_130919 | | | None | 7 | (2.4G) | 1000 | |
| TP-LINK_DE | 1C2E | 6 | WPA/WPA2-I | Personal 1 | 49 (5G) | 1000 | |
| TPLINK_DATA | A_TRANS | 8 | WPA-Persona | al 1 | 1 (2.4G) | 100 | |
| TP-LINK_D94 | F73 | 8 | WEP | 7 | (2.4G) | 100 | |

3.2 Join a Wireless Network

There are three options of using the adapter to join a Wi-Fi network.

Option 1: TP-LINK Utility

TP-LINK Utility lets you easily connect the adapter to a Wi-Fi network and manage the adapter.

Option 2: WPS (Wi-Fi Protected Setup)

WPS (Wi-Fi Protected Setup) is a network security standard for easily adding computers and other devices to a home network. Use this method if your wireless router or access point supports WPS.

Option 3: Windows Wireless Utility

You can use the Windows WLAN Autoconfig service (for Windows 8.1/8/7) and the Wireless Zero Configuration service (for Windows XP) to join a Wi-Fi network.

3.2.1 TP-LINK Utility

1. Double-click *(TP-LINK Utility icon)*. The **Network** screen displays.

| | WPS | 6 | | 20 | | |
|----------------------------------|-----------|------|---------------------|------------|----------|------|
| Status | WPS | Netw | ork Profile | Advanced | | |
| Network Nam | e(SSID) 👻 | | Security = | Channel 🐨 | Signal 🔻 | |
| TP-LINK_7CA | 926 | | None | 4 (2.4G) | In | 1000 |
| TP-LINK_Network | | 6 | WPA2-Personal | 9 (2.4G) | 1000 | |
| TP-LINK_130969 | | None | | 44 (5G) | In | |
| TP-LINK_BF134C | | 8 | WPA/WPA2-Enterprise | e 4 (2.4G) | in. | |
| TP-LINK_BF134C TP-LINK_130919 | | | None | 7 (2.4G) | 100 | |
| TP-LINK_DE | 1C2E | 8 | WPA/WPA2-Personal | 149 (5G) | 1000 | |
| TPLINK_DATA | A_TRANS | 8 | WPA-Personal | 11 (2.4G) | | |
| TP-LINK D94 | F73 | | WEP | 7 (2.4G) | -ml | |

2. Select the network you want to join from the list on this screen and click **Connect**. If you want the adapter to automatically connect to the network next time, select the **Connect automatically** checkbox. Enter your Wi-Fi password when prompted.

| | WPS | | 1 | 25 | |
|-------------|-----------|---------|--------------------|--------------|----------|
| Status | WPS | Network | Profile | Advanced | |
| Network Nam | e(SSID) 👻 | S | ecurity 👻 | Channel 👻 | Signal 🔻 |
| TP-LINK_7CA | 926 | No | ne | 4 (2.4G) | line |
| TP-LINK_Net | work | 🖬 wi | PA2-Personal | 9 (2.4G) | lites |
| | | Con | nect automatically | Conr | nect |
| TP-LINK_130 | 969 | No | ne | 44 (5G) | line |
| TP-LINK_BF1 | 34C | 🖬 WF | PA/WPA2-Enterpr | ise 4 (2.4G) | din. |
| TP-LINK_130 | 919 | No | ne | 7 (2.4G) | line |
| TP-LINK_DE | 1C2E | | PA/WPA2-Person | al 149 (5G) | In |
| TPLINK DAT | ATRANS | a w | PA-Personal | 11 (2.4G) | 100 |

PNote:

If your Wi-Fi network is not displayed in the list, you can try to join it by <u>WPS</u> or by adding a profile in the <u>Profile</u> screen.

3.2.2 WPS (Wi-Fi Protected Setup)

WPS can be activated via PBC (Push Button Configuration) and PIN code. Please refer to <u>PBC</u> or <u>PIN</u> below.

> PBC

Option 1

1. Press the **WPS/QSS** button on your router or AP. Within 2 minutes, press and hold the **WPS** button on the adapter until the following screen appears.



2. The following screen indicates a successful connection by WPS. Click **OK**.



Option 2

1. Press the **WPS/QSS** button on your router or AP.



2. Open TP-LINK Utility and click **WPS** tab. Select **Push the button on my access point or wireless router** and click **Connect**.

| | WPS | | | 1 | |
|-------------|------------------|-------------------------|--------------------|-------------------------|---|
| Status | WPS | Network | Profile | Advanced | |
| ((WPS) | This applica | tion will guide you th | nrough configuring | g your wireless network | 2 |
| Please cho | oose a method to | join a wireless netw | vork: | | |
| Comment 198 | to the loss | ccess point or wireless | | | |
| | | ce into my access p | | outer. | |
| | | | | | |

3. The following screen indicates a successful connection by WPS. Click **OK**.

| Configuring the wireless network. |
|------------------------------------------------|
| (((WPS))) |
| Successfully connected to the network by WPS ! |
| ОК |

> PIN

Option 1

1. Open TP-LINK Utility and click **WPS** tab. Select **Enter the PIN of my access point or wireless router**. Enter the PIN of your router or AP. Click **Connect**.

| TP-LIN | ĸ | | | | - × |
|------------------------|------------------------------------|---------------------------------------------------------------------------------------------------|---------------------|-------------------------|------------|
| | WPS | | | | |
| Status | WPS | Network | Profile | Advanced | |
| O Push the | ose a method to button on my ac | tion will guide you th join a wireless netw ccess point or wireless ss point or wireless | ork: ess router. | g your wireless networl | ¢ |
| PIN: 1349 | - | | | | |
| [©] Enter the | PIN of this device | ce into my access p | ooint or wireless r | outer | |
| | | | | | Connect |

Note:

The default PIN of your router or AP is printed on the product label of your router or AP. If you generated a new PIN for your router, please enter the new one.

2. The following screen indicates a successful connection by WPS. Click **OK**.

| Configuring the wireless network. |
|------------------------------------------------|
| Successfully connected to the network by WPS ! |
| OK |

Option 2

1. Open TP-LINK Utility and click **WPS** tab. Select **Enter the PIN of this device into my access point or wireless router**. The screen displays a PIN of the adapter, which is generated randomly. Click **Connect**.

| | ĸ | | | | - × |
|----------------------|-----------------|-----------------------|--------------------|-------------------------|---------|
| | WPS | | 2 | and a second | |
| Status | WPS | Network | Profile | Advanced | |
| (((WPS) | This applicat | ion will guide you th | nrough configuring | g your wireless network | K. |
| Please cho | ose a method to | join a wireless netw | ork: | | |
| | | ccess point or wirele | | | |
| China Martined Flags | | ss point or wireless | 131 S. 1988. | outer. | |
| PIN: 1934 | | [4 7] | | | |
| | | | | | |
| | | | | | Connect |

- 2. Log in to the Web Management page of your router or AP. Go to the **WPS** page, enter the PIN of the adapter in the corresponding field and click **Connect**.
- 3. The following screen indicates a successful connection by WPS. Click **OK**.



3.2.3 Windows Wireless Utility

Follow the instructions in the appropriate section below to use your computer system's built-in wireless utility: Windows 8.1/8/7, Windows XP.

Windows 8.1/8/7

1. Click **and** or **and** (Network icon) on the system tray. Select the network you want to join, and click **Connect**. Enter your Wi-Fi password when prompted.

PNote:

If you do not want to enter the Wi-Fi password, you can also join a wireless network either by pushing the WPS or QSS button on your router or AP, or entering the PIN of your router when the screen prompts you to do so, and click **Next**.

2. When **Connected** displays next to the network name (SSID) on the screen, it indicates a successful network connection.

Windows XP

1. Right-click (TP-LINK Utility icon) on the system tray. (If you do not see the icon, click the hidden icons arrow on the system tray.) Select **Switch to Windows wireless** configuration tool.

| | Open | |
|---|-----------------------------------------------|---|
| | Radio OFF | |
| | Switch to Windows wireless configuration tool | |
| | Switch to SoftAP mode | |
| | About | |
| | Exit | |
| - | EN 🕥 📷 | 5 |

Or you can open the TP-LINK Utility and select **Advanced** tab. Select **Use Windows wireless configuration tool** the following figure shows. Click **OK** when it prompts.

2

| A | WPS | | | 23 | |
|------------------------|------------------------|---------------------|-----------------|-------------------------------------------------------------|--------|
| Status | WPS | Network | Profile | Advanced | |
| | less configuration | n tool | A Lico Windo | ws wireless configuratio | n tool |
| | etwork adapter sv | | Ose Windo | ws wireless conliguratio | |
| | | | | | |
| | | | Wireless Networ | Connection Archer T4 | u I |
| | noose a wireless | | Wireless Networ | Connection Archer T40 | U |
| Please cł | noose a wireless | | Wireless Networ | Connection Archer T41 | U |
| Please ch SoftAP mo | noose a wireless de | network adapter : [| Wireless Networ | <connection archer="" t41<="" td=""><td>U</td></connection> | U |



2. Right-click

(Windows XP Wireless Zero Configuration Utility icon) on the system tray,

and select View Available Wireless Networks.

| Change Windows Firewall settings | |
|----------------------------------|-----------------------|
| Open Network Connections | The Assourt |
| Repair | the design of the lot |
| View Available Wireless Networks | |
| EN 🔇 | 💘 📶 🛃 ≵ 🤤 🔟 - 3:12 PN |

3. Select the network you want to join, and click **Connect**. Enter your Wi-Fi password when prompted.

3.3 Management

TP-LINK Utility provides you with an easy way to manage your adapter. It includes the following sections:

Status - View the information of the current Wi-Fi network connection and of the adapter.

<u>Profile</u> - Save or manage various Wi-Fi network connection settings.

<u>Advanced</u> - Turn on or off the SoftAP mode and power saving mode, switch between TP-LINK Utility and Windows Wireless Utility (for Windows XP only).

<u>SoftAP</u> - Configure the settings of the network shared by your adapter, and view the IP address of your adapter when it works on SoftAP mode.

About – View your adapter's Utility version and its Driver version.

Double-click (TP-LINK Utility icon) and click the **Status**, **Profile** or **Advanced** tab to manage the corresponding section of your adapter.

3.3.1 Status

You can view the IP address and MAC address of the adapter, the signal strength of the Wi-Fi network, and other information of the network status as shown in the following figure.

| | | | | = |
|-----------------|---------|-------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | WPS | | | and the second sec |
| Status | WPS | Network | Profile | Advanced |
| Profile Name: | | TP-LINK_Network | | |
| Network Name(| (SSID): | TP-LINK_Network | | |
| Network Type: | | Infrastructure | Rate: | 300Mbps |
| Channel: | | 9 (2.4G) | Encryptic | on Type: AES |
| AP MAC: | | 00-55-46-50-02-01 | Wireless | Mode: 802.11n |
| IP Address: | | 192.168.0.101 | | |
| Signal Strength | | | | 100% Excelle |

3.3.2 Profile

The **Profile** screen lets you save and manage different Wi-Fi network connection settings as profiles so that you can quickly and simply connect to your network. Moreover, you can join a hidden Wi-Fi network that does not broadcast its SSID by adding a profile, provided that you know its wireless settings, such as SSID, security type, and encryption type. For more details, please refer to the instructions below: <u>To add a new profile</u>, <u>To join a Wi-Fi network</u>, <u>To manage an existing profile</u>.

| 4 | P | | 2 | 1 | |
|----------------|----------|-----------|----------------|-------------|-----------|
| Status | WPS | Network | Profile | Advanced | |
| Profile Name | SSID | | Network Type | Security | Connected |
| P-LINK_Network | TP-LINK | <_Network | Infrastructure | WPA-PSK/WPA | Yes |
| | | | | | |

> To add a new profile

- 1. Click the **Add** button, and then a new window will open.
- 2. Complete the settings as shown in the following figure, and click **Save**.

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| Profile Name: | Home | | |
|------------------|----------------------|----------|-----------------|
| SSID: | TP-LINK_Network_5G | ¥ | |
| Network Type: | Infrastructure |) ad hoc | |
| Security Type: | WPA-PSK/WPA2-PSK | ~ | |
| Encryption Type: | TKIPIAES | ~ | |
| Security Key: | ****** | | Show characters |
| Start this conne | ction automatically. | | |

Profile Name - Enter a name for your profile, such as Home, Office, Coffeehouse. Do not enter the profile name that already exists.

SSID - Select your Wi-Fi network from the drop-down list or enter your Wi-Fi network name manually.

Network Type - Select **Infrastructure** if you want to connect to a wireless router or an access point. Select **ad hoc** if you want to connect to another wireless client, such as an adapter.

• Infrastructure

If you select **Infrastructure**, you are asked to select or enter the corresponding wireless settings, which should be the same as those of your Wi-Fi network.

• ad hoc

If you select **ad hoc**, you are asked to configure the wireless settings for your network, including choosing the operating frequency band, the security type, the encryption type and setting a security key.

| Profile Name: | Home 2 | | | |
|------------------|---------------------|----------|------|------------|
| SSID: | TP-LINK_0201 | | • | |
| Network Type: |) Infrastructure | • ad ho | oc | |
| Band: | 2.4Ghz | ~ | | |
| Security Type: | WEP | ~ | • | |
| Encryption Type: | Open | ~ | | |
| Key Index: | 1 ~ | ASCII_64 | • | |
| Security Key: | **** | | Show | characters |
| Start this conne | ction automatically | <i>.</i> | - | |

Note:

As for Key Index, you can select ASCII or Hexadecimal format from the drop-down list.

ASCII_64 - Please enter 5 ASCII characters.

ASCII_128 - Please enter 13 ASCII characters.

Hexadecimal_64 - Please enter 10 Hexadecimal digits (any combination of 0-9, a-f, A-F, excluded space).

Hexadecimal_128 - Please enter 26 Hexadecimal digits (any combination of 0-9, a-f, A-F, excluded space).

> To join a Wi-Fi network

If you want to join a Wi-Fi network that listed in the profile screen, select the profile and click **Connect** button in the bottom right corner.

> To manage an existing profile

If you want to change the name or the wireless settings of an existing profile, select it and click the **Modify** button in the bottom right corner of the Profile screen, then you can edit the settings of this profile. If you want to delete a profile that you no longer use, select it and click the **Remove** button.

3.3.3 Advanced

| P-LIN Reliable Choice | к | | | | |
|--------------------------|------|----------------------------|-------------|--------------------------|--------|
| | WPS | | | E. | |
| Status | WPS | Network | Profile | Advanced | |
| () Use TP | | configuration Utility | 🔵 Use Windo | ws wireless configuratio | n tool |
| Please ch | | witch network adapter : | Archer T4U | | |
| SoftAP mod ⊚ ON | de | OFF | | | |
| Power Save | mode | | | | |
| O ON | | OFF | | | |

Select wireless configuration tool - In Windows XP. You can either use TP-LINK Utility or Windows wireless configuration tool. While in other operating systems, since you can use both TP-LINK Utility and Windows wireless configuration tool at the same time, this function is disabled.

Wireless network adapter switch - If you've installed several adapters in your computer, you can switch to another adapter among the drop-down list.

SoftAP mode - Once ON is selected, the adapter will work as an AP.

Power Save mode - Once **ON** is selected, the adapter will automatically reduce its power consumption when not being used.

3.3.4 SoftAP

SoftAP is short for Software enabled Access Point. When the adapter works in SoftAP mode, it allows the computer to create a wireless hotspot that other wireless devices nearby can use. To switch to SoftAP mode, right-click the utility icon ...II in the system tray and select **Switch to SoftAP mode**.



After switching to SoftAP mode, the SoftAP icon appears in the utility. Click the **SoftAP** tab, and complete the settings, then click **Apply** for the settings to take effect.

| - | WPS | | ¢. | - | 6 |
|-------------|---------------------|------------|--------------|----------|----------|
| Status | WPS | Network | Profile | Advanced | Soft Al |
| | | | | | |
| SoftAP mo | de: | ON | OFF | | |
| Internet Co | nnecting Share(ICS) | Local Area | Connection 2 | • | |
| SSID: | | SoftAP | | | |
| Security Ty | /pe: | WPA2-PSI | < | • | |
| Encryption | Type: | AES | | • | |
| Security K | e <mark>y</mark> : | 12345678 | | Show ch | aracters |
| IP Address | | 192.168.13 | 37.1 | | |

- > Soft AP mode: Select ON or OFF to enable or disable this function.
- Internet Connecting Share(ICS): Select a network connection that can access to the Internet from the drop-down list. For example, if your computer is connecting to the Internet via an Ethernet cable, you should select the corresponding Local Area Connection so as to share the network with other wireless devices.
- **SSID:** Set a name for the wireless network shared by your adapter. The default is SoftAP.
- Security Type: The security type here is set to be WPA2-PSK which is based on 802.11i and uses AES (Advanced Encryption Standard).
- > **Encryption Type:** The encryption type here is set to be AES.
- Security Key: Set a security key for the wireless network that shared by your adapter. It is recommended that you specify another key instead of the default key 12345678. When another wireless device connects to the network shared by your adapter, it will be asked to enter the corresponding security key.
- IP Address: Displays the IP address of the adapter when it works in SoftAP mode. You can also check if the network shared by your adapter is working properly by checking this IP Address. For example, if the IP Address is 0.0.0.0, it means that the Internet connection is failed.

3.3.5 About

You can view the adapter's information in the **About** screen, such as the UI version (Utility version) and the Driver version. Right-click ...II (TP-LINK Utility icon) in the system tray and select **About**, then the About screen displays.



3.4 Uninstall Driver and Utility

The software uninstallation steps vary a bit in different systems, please follow the appropriate instructions for your Windows operating system: <u>Windows 8/8.1</u>, <u>Windows XP/7</u>.

• Windows 8/8.1

Uninstall driver:

Go to **Start > Apps**, and find the **TP-LINK** application. Click **Uninstall - TP-LINK Archer T4U Driver**, then follow the on-screen instructions to complete the uninstallation.

Uninstall utility:

Go to **Start > Apps**, and find the **TP-LINK** application. Click **Uninstall - TP-LINK Wireless Configuration Utility**, then follow the on-screen instructions to complete the uninstallation.

• Windows XP/7

Uninstall driver:

Go to **Start > All Programs > TP-LINK > Uninstall - TP-LINK Archer T4U Driver**. Follow the on-screen instructions to complete the uninstallation.

Uninstall utility:

Go to **Start > All Programs > TP-LINK > Uninstall - TP-LINK Wireless Configuration Utility**. Follow the on-screen instructions to complete the uninstallation.

Chapter 4 Mac OS X

4.1 Install Driver and Utility

We take the procedures in Mac OS X 10.9 as an example - the procedures may vary slightly for other versions of Mac OS.

1. Insert the CD and run it manually. Open the **Archer T4U** folder.



Note:

The CD is included in the package. If your CD does not work or your computer doesn't support the CD, you can also download the driver and utility from the TP-LINK website (www.tp-link.com).

2. Open the Mac OS X Driver folder.



3. Double-click to unzip the *Mac OS X version.zip* file according to your computer's operating system. It will be unzipped into the **Download** folder automatically.

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4. Open the corresponding Mac OS X *version* folder, double click the **Installer.pkg** file to open the installation wizard.

| 000 | Mac OS X 10.9 3 |
|--------------|----------------------------------------------------------------------|
| Back | ? ::: ≡ □□ □□ |
| | Mac OS X 10.9 3 |
| FAVORITES | |
| All My Files | |
| E Desktop | |
| AirDrop | |
| Code | |
| Applications | |
| Documents | Installer.pkg Uninstall.pkg |
| Movies | |
| J Music | |
| Pictures | Macintosh HD > in Users > A stor > in Downloads > in Mac OS X 10.9 3 |

5. The **Install TP-LINK Wireless USB Adapter Utility and Driver** Wizard window will appear. Click **Continue** and follow the wizard to continue the installation.

| e Introduction e Read Me function Destination Select Installation for Summary Summary | | Welcome to the TP-LINK Wireless USB Adapter Utility and Driver Installer |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| | Read Me License Destination Select Installation Type Installation | initiation and second and and and and and and and and and a |





PNote:

The language of this utility is in accordance with the language of your computer by default, and any change of it is invalid.







Note:

Click **Customize**, then you can choose the package you want to install. All packages are selected by default, and it is recommended that you leave it as the default; otherwise, the installation may fail.

| e Introduct Read Me License | II TP-LINK Wireless USB Adapter Utility and Driver When this software finishes installing, you must restart your computer. Are you sure you want to install the software now? Cancel Continue Installation |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Destination select Destination Select Installation Type Installation | of users of this computer will be able to use this software. |
| | Customize Go Back Install |

| • | Installing TP-LINK Wireless USB Adapter Utility and Driver |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| a) Introduction b) Read Me b) License c) Destination Select b) Installation Type b) Installation c) Summary c) and b) an | Optimizing system for installed software |
| 1 | Install time remaining: About 3 minutes |



 After restarting the computer, the TP-LINK utility will pop up automatically. You can use the utility to join a Wi-Fi network with your adapter. For more guidance, please refer to <u>Join a</u> <u>Wireless Network</u>.

| Link Status | Profiles | Available Network | WPS | Information |
|--------------------|------------|-------------------|-----|---------------|
| MAC Address : | 000c43123 | 346b | | |
| SSID : | | | | |
| BSSID : | | | | |
| Security : | None | | | |
| Connection : | Disconnect | ed | | |
| Network Type : | | | | |
| Channel : | | | | |
| Link Speed(Mbps) : | | | | |
| Signal Strength : | | | | 0% |
| - 3 | | | | |
| | | | | Turn Radio OF |

Note:

If the TP-LINK Utility does not pop up automatically, make sure the USB wireless network adapter is connected properly and the LED is on.

4.2 Join a Wireless Network

There are two options of using the adapter to join a Wi-Fi network.

Option 1: TP-LINK Utility

TP-LINK Utility lets you easily connect the adapter to a Wi-Fi network and manage the adapter.

Option 2: WPS (Wi-Fi Protected Setup)

WPS (Wi-Fi Protected Setup) is a network security standard for easily adding computers and other devices to a home network. Use this method if your wireless router or access point supports WPS.

4.2.1 TP-LINK Utility

1. Double-click (TP-LINK Utility icon) and select **Available Network** tab. Then select the network you want to join from the list and click **Connect**.

| (| Link Status Prof | files A | vailable Network | WPS Informa | tion |
|------------|-------------------|---------|------------------|------------------|--------------|
| Associated | SSID | Channel | Network Type | Encryption | BSSID |
| | TP-LINK_ Network | | Infrastructure | WPA2-PSK AES | 40169f140406 |
| | TP-LINK_5GHz_A7 | 44 | Infrastructure | No Encryption | e005c5a7d935 |
| | TP-LINK_7AFE_5G | 149 | Infrastructure | WPA(2)-PSK AES | 000aeb137afe |
| | TP-LINK_5GHz_BF | 149 | Infrastructure | WPA2-PSK AES | 40169fbf571d |
| | TP-LINK_5G_7AFE | 149 | Infrastructure | No Encryption | 000aeb137afe |
| | CR700_5G_1203 | 149 | Infrastructure | No Encryption | 001018a95d8d |
| | D2_5GHz_BCE2EB | 157 | Infrastructure | WPA2-PSK AES | e8de27bce2eb |
| | TP-LINK_6004_5G | 157 | Infrastructure | WPA2-PSK AES | d85d4cbf6003 |
| | TP-LINK_5173_5G | 48 | Infrastructure | WPA2-PSK AES | 40169fbf5175 |
| | TP-LINK_5109_5G | 48 | Infrastructure | WPA2-PSK AES | 40169fbf510b |
| | TP-LINK_5170_5G | 48 | Infrastructure | WPA2-PSK AES | 40169fbf5172 |
| | D2_tether_5GHz | 48 | Infrastructure | WPA2-PSK AES | 401b78003c0a |
| | D2_Guest_5GHz | 48 | Infrastructure | No Encryption | 421b78003c0a |
| | TP-LINK_5184_5G | 36 | Infrastructure | WPA2-PSK AES | 40169fbf5184 |
| | TP-LINK_5GHz04 | 36 | Infrastructure | WPA2-PSK AES | 40169f007011 |
| | BrcmAP1 | 36 | Infrastructure | No Encryption | 021018010004 |
| | D LISE DID 030144 | 36 | 1 | 14084(3) DEV AFE | -043-3710470 |
| | Refres | h | | Cor | nnect |
| | | | | | |

2. The wireless network security properties screen displays. If your network uses wireless security, you will be prompted to enter the Wi-Fi password of the network in the blank field next to **Network Key**, and enter it again in the blank field next to **Confirm network key**. Click **OK**.

| | Wireless Net | ork Security Properties | |
|---------------------------------|---------------|-------------------------------------|---------------|
| Profile Name : TP-LINK | _Network | | |
| SSID : TP-LINK | _Network | | |
| This is a computer-to- | computer (Adl | oc) network; wireless access points | are not used. |
| Channel : 1 | \$ | | |
| Wireless Network Security Prope | erties | | |
| This network requires a k | | ving : | |
| Network Authentication : | WPA2_PSK | ÷ | |
| Data Encryption : | AES | • | |
| ASCII | | | |
| | | | |
| Key index (advanced) : | 1 | \$ | |
| | | | |
| Confirm network key : | | | |
| | | | |
| | | Cancel | ОК |
| | | | |

After successfully connecting to your network, it will switch to Link Status screen automatically, which will show the network status. If you select Available Network tab, you will see a symbol
in front of your network's SSID, which indicates a successful connection.

| | Link Status Prof | files A | vailable Network | WPS Informa | ation |
|------------|------------------|---------|------------------|------------------|--------------|
| Associated | SSID | Channel | Network Type | Encryption | BSSID |
| (*) | TP-LINK_ Network | | Infrastructure | WPA2-PSK AES | 40169f140406 |
| \bigcirc | TP-LINK_5GHz_A7 | 44 | Infrastructure | No Encryption | e005c5a7d935 |
| | TP-LINK_7AFE_5G | 149 | Infrastructure | WPA(2)-PSK AES | 000aeb137afe |
| | TP-LINK_5GHz_BF | 149 | Infrastructure | WPA2-PSK AES | 40169fbf571d |
| | TP-LINK_5G_7AFE | 149 | Infrastructure | No Encryption | 000aeb137afe |
| | CR700_5G_1203 | 149 | Infrastructure | No Encryption | 001018a95d8 |
| | D2_5GHz_BCE2EB | 157 | Infrastructure | WPA2-PSK AES | e8de27bce2eb |
| | TP-LINK_6004_5G | 157 | Infrastructure | WPA2-PSK AES | d85d4cbf6003 |
| | TP-LINK_5173_5G | 48 | Infrastructure | WPA2-PSK AES | 40169fbf5175 |
| | TP-LINK_5109_5G | 48 | Infrastructure | WPA2-PSK AES | 40169fbf510b |
| | TP-LINK_5170_5G | 48 | Infrastructure | WPA2-PSK AES | 40169fbf5172 |
| | D2_tether_5GHz | 48 | Infrastructure | WPA2-PSK AES | 401b78003c0a |
| | D2_Guest_5GHz | 48 | Infrastructure | No Encryption | 421b78003c0a |
| | TP-LINK_5184_5G | 36 | Infrastructure | WPA2-PSK AES | 40169fbf5184 |
| | TP-LINK_5GHz04 | 36 | Infrastructure | WPA2-PSK AES | 40169f007011 |
| | BrcmAP1 | 36 | Infrastructure | No Encryption | 02101801000 |
| | D List DIR BOOLW | 36 | L.f | 14/04/0) DEV AFE | -042-2710470 |
| | Refres | h | | Cor | nnect |
| | | | | | |

4.2.2 WPS (Wi-Fi Protected Setup)

WPS can be activated via PBC (Push Button Configuration) and PIN. Please refer to <u>PBC</u> or <u>PIN</u> below.

> PBC

Option 1

1. Press the **WPS/QSS** button on your router or AP. Within 2 minutes, press and hold the **WPS** button on the adapter until the following screen appears.



| Link State | us Profiles Av | ailable Network | 25 Information |
|-----------------|----------------------|------------------------|----------------|
| SSID | Channel | Security | BSSID |
| TP-LINK_Network | 9 | WPA2-PSK AES | 40169f140406 |
| 111111111111111 | 7 | WPA(2)-PSK AES | 40169fbf5173 |
| FP-LINK_110C | 9 | WPA2-PSK AES | 000aeb11110c |
| 020_UES_2G4 | 7 | WPA2-PSK AES | 40169fbf5103 |
| TP-LINK_2.4GHz | 11 | WPA2-PSK AES | e005c5a7d933 |
| TP-LINK_2.4GHz | 11 | WPA2-PSK AES | 001018a90506 |
| 3bb-wlan | 10 | WPA-PSK AES | 64517e38f9c0 |
| FP-LINK_8151N | 2 | WPA2-PSK AES | 30b5c27e9e78 |
| TTNET_TP-LINK | 4 | WPA(2)-PSK AES | 14cc20030129 |
| AC2 | 10 | WPA2-PSK AES | 000aeb132915 |
| TP_IINK 8647 | 1 | WDA2_DCK AFC | 14cc205f8647 |
| SCAN | Please key the PIN o | ode into your AP's con | fig page PIN |
| | PIN: 32257359 | | |
| | | | PBC |
| WPS Progress : | Scan Active WPS A | P | |
| | | | 28 sec Cancel |
| | | | 20 300 |

2. The following screen indicates a successful connection by WPS. Click **OK**.



Option 2

1. Press the **WPS/QSS** button on your router or AP.



2. Within 2 minutes, open TP-LINK Utility and click **WPS** tab. Click **PBC**.

| | Channel | Security | BSSID |
|-----------------|----------------------------------------|----------------|--------------|
| P-LINK_Network | 9 | WPA2-PSK AES | 40169f140406 |
| CR700_5G_1203 | 149 | No Encryption | 001018a95d8d |
| D2_5GHz_BCE2EB | 157 | WPA2-PSK AES | e8de27bce2eb |
| TP-LINK_6004_5G | 157 | WPA2-PSK AES | d85d4cbf6003 |
| TP-LINK_5173_5G | 48 | WPA2-PSK AES | 40169fbf5175 |
| TP-LINK_5109_5G | 48 | WPA2-PSK AES | 40169fbf510b |
| TP-LINK_5170_5G | 48 | WPA2-PSK AES | 40169fbf5172 |
| D2_tether_5GHz | 48 | WPA2-PSK AES | 401b78003c0a |
| TP-LINK_5184_5G | 36 | WPA2-PSK AES | 40169fbf5184 |
| TP-LINK_5GHz04 | 36 | WPA2-PSK AES | 40169f007011 |
| -Link DIR_8201W | 36 | WPA(2)_PSK AFS | r8d3a3710f78 |
| SCAN | Please key the PIN co PIN: 65899410 | | |

3. The following screen indicates a successful connection by WPS. Click **OK**.



> PIN

1. Open TP-LINK Utility and click **WPS** tab. Mark down the PIN displayed on the screen, and click **PIN**.

| | Channel | Security | BSSID |
|------------------|---------------------------------|-----------------------------|----------------------|
| TP-LINK_Network | 9 | WPA2-PSK AES | 40169f140406 |
| CR700_5G_1203 | 149 | No Encryption | 001018a95d8d |
| D2_5GHz_BCE2EB | 157 | WPA2-PSK AES | e8de27bce2eb |
| TP-LINK_6004_5G | 157 | WPA2-PSK AES | d85d4cbf6003 |
| TP-LINK_5173_5G | 48 | WPA2-PSK AES | 40169fbf5175 |
| TP-LINK_5109_5G | 48 | WPA2-PSK AES | 40169fbf510b |
| TP-LINK_5170_5G | 48 | WPA2-PSK AES | 40169fbf5172 |
| D2_tether_5GHz | 48 | WPA2-PSK AES | 401b78003c0a |
| TP-LINK_5184_5G | 36 | WPA2-PSK AES | 40169fbf5184 |
| TP-LINK_5GHz04 | 36 | WPA2-PSK AES | 40169f007011 |
| D-Link DIR_8201W | 36 | WPA(2)_PSK AFS | cRd3a3710f78 |
| | Please key the F PIN: 658994 | PIN code into your AP's con | nfig page PIN PBC |

- 2. Within 2 minutes, log in to the Web Management page of your router or AP. Go to its **WPS** page, enter the PIN of the adapter in the corresponding field and click **Connect**.
- 3. The following screen indicates a successful connection by WPS. Click **OK**.



4.3 Management

TP-LINK Utility provides you with an easy way to manage your adapter. It includes the following sections:

Link Status - View the information of the current Wi-Fi network connection and of the adapter.

<u>Profiles</u> - Save or manage various Wi-Fi network connection settings.

Information - View the utility version and the driver version of your adapter.

Double-click (TP-LINK Utility icon) and click the Link Status, Profiles or Advanced tab to manage the corresponding section of your adapter.

4.3.1 Link Status

You can view the signal strength of the Wi-Fi network, the MAC address of the adapter and other information of the link status as shown in the following figure.

| MAC Address : | 000c4312346b |
|--------------------|-----------------|
| | |
| SSID : | TP-LINK_Network |
| BSSID : | 021478aeaab3 |
| Security : | WPA2-PSK AES |
| Connection : | Connected |
| Network Type : | Infrastructure |
| Channel : | 9 |
| Link Speed(Mbps) : | 300 |
| Signal Strength : | 97% |
| | Turn Radio OFf |

4.3.2 Profiles

The **Profiles** screen lets you save and manage different Wi-Fi network connection settings as profiles so that you can quickly and simply connect to your network. Moreover, you can join a hidden Wi-Fi network that does not broadcast its SSID by adding a profile, provided that you know its wireless settings, such as SSID, security type, and encryption type. For details, please refer to the instructions below: <u>To add a new profile</u>, <u>To join a Wi-Fi network</u>, <u>To manage an existing profile</u>.

| | Link Status Profiles | Available Network WPS | Information | |
|---------|----------------------|-----------------------|----------------|--|
| Default | Profile Name | SSID | Network Type | |
| * | TP-LINK_Network | TP-LINK_Network | Infrastructure | |
| | Home | TP_UNK_Network_SG | Infrastructure | |
| | Add Edit | Remove | Apply | |

> To add a new profile

- 1. Click the Add button, and then a new window will open.
- 2. Complete the settings as shown in the following figure, and click **OK**.

| Profile Name : Home | | | | | |
|--------------------------------|------------------|-----------|---------------------------|-------------|-------------------|
| SSID : TP-LIN | _Network_5G | | | | |
| This is a computer-to- | computer (Adl | Hoc) netw | ork; <mark>wireles</mark> | s access po | ints are not used |
| Channel : 1 | \$ | | | | |
| Wireless Network Security Prop | erties | | | | |
| This network requires a k | ev for the follo | wina : | | | |
| Network Authentication : | | \$ | | | |
| Data Encryption : | | \$ | | | |
| ASCII | | | | | |
| | | | | | |
| Key index (advanced) : | 1 | \$ | | | |
| Network key : | ••••• | | | | |
| Confirm network key : | ••••• | | | | 0 |
| | | | <u> </u> | ncel | OK |

Profile Name - Enter a name for your profile, such as Home, Office, Coffeehouse. Do not enter the profile name that already exists.

SSID - Enter the name of your Wi-Fi network.

This is a computer-to-computer (AdHoc) network; wireless access point are not used:

- If you want to connect to a wireless router or an access point, leave the box empty, and go directly to Wireless Network Security Properties below. Select or enter the corresponding wireless settings, including Network Authentication, Data Encryption and Network Key, which should be the same as those of your Wi-Fi network. Then click OK.
- If you want to connect to another wireless client, such as an adapter, select the This is a computer-to-computer (AdHoc) network; wireless access point are not used checkbox.

> To join a Wi-Fi network

If you want to join a Wi-Fi network that listed in the profile screen, select the profile and click **Apply** button in the bottom right corner.

> To manage an existing profile

If you want to change the name or the wireless settings of an existing profile, select it and click the **Edit** button in the bottom right corner of the Profile screen, then you can edit the settings of this profile. If you want to delete a profile that you no longer use, select it and click the **Remove** button.

4.4 Uninstall Driver and Utility

Insert the CD and run it manually. Go to Archer T4U > Mac OS X Driver > Mac OS X version.zip > Uninstall.pkg. Then follow the wizard to complete the uninstallation.

PNote:

The CD is included in the package. If your CD does not work or your computer doesn't support the CD, you can also download the driver and utility from the TP-LINK website (www.tp-link.com).

Appendix A: Specifications

| Normal | | | | |
|------------------|------------------------------------------------------------------------------|--|--|--|
| Interface | USB 3.0 Interface | | | |
| Standards | IEEE802.11a; IEEE802.11b; IEEE802.11g; IEEE802.11n; IEEE802.1x, IEEE802.11ac | | | |
| Operating System | Windows XP, Windows 7, Windows 8, Windows 8.1 | | | |
| | Mac OS X 10.7 - 10.9 | | | |
| Throughput | 2.4GHz:300Mbps (Maximal) | | | |
| | 5GHz: 867Mbps (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 | | | |

| Environmental and Physical | | |
|----------------------------|------------------------------|--|
| Working Temperature | 0°C∼ 40°C (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.
- 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.
- 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.
- 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.