



# User Guide

AX3000 Gigabit Wi-Fi 6 Access Point  
TL-WA3001

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# About This Guide

This guide is a complement of Quick Installation Guide. The Quick Installation Guide instructs you on quick internet setup, and this guide provides details of each function and shows you the way to configure these functions appropriate to your needs.

Note: Features available in the product may vary by model and software version. The product availability may also vary by region or ISP. All images, steps, and descriptions in this guide are only examples and may not reflect your actual product experience.

## Conventions

In this guide the following conventions are used:

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, <a href="#">System</a> > <a href="#">Firmware Update</a> means the Firmware Update page is located in the System tab.
<b>Note:</b>	Ignoring this type of note might result in a malfunction or damage to the device.
<b>Tips:</b>	Indicates important information that helps you make better use of your device.
symbols on the web page	<ul style="list-style-type: none"><li>: Click to edit the corresponding entry.</li><li>: Click to delete the corresponding entry.</li><li>: Click to enable or disable the corresponding entry.</li><li>: Click to view more information about items on the page.</li></ul>

## More Info

The latest software, management app and utility can be found at [Download Center](https://www.tp-link.com/support/download) at <https://www.tp-link.com/support/download>.

The Quick Installation Guide can be found where you find this guide or inside the product package.

Specifications can be found on the product page at <https://www.tp-link.com>.

TP-Link Community is provided for you to discuss our products and share knowledge at <https://community.tp-link.com>.

Our Technical Support contact information can be found at the [Contact Technical Support](https://www.tp-link.com/support) page at <https://www.tp-link.com/support>.

\*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.

\*Use of Wi-Fi 6 (802.11ax), and features including OFDMA, 1024-QAM, and HT160 require clients to also support the corresponding features.

\*Saving clients' battery power requires clients to also support the 802.11ax Wi-Fi standard. Actual power reduction may vary as a result of network conditions, client limitations, and environmental factors.

\*Use of WPA3 requires clients to also support the corresponding feature.

\*This device may not support all the mandatory features as ratified in Draft 3.0 of IEEE 802.11ax specification.

\*Further software upgrades for feature availability may be required.

## Chapter 1

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# Get to Know About Your Access Point

---

This chapter introduces what the access point can do and shows its appearance.

It contains the following sections:

- [Product Overview](#)
- [Panel Layout](#)

## 1.1. Product Overview

The TP-Link access point, with multiple operation modes, is designed to establish or expand a scalable high-speed wireless network or to connect your Ethernet enabled device to a wireless network, such as the game console, digital media adapter, printer, or network attached storage device. The access point supports a host of different functions that make your wireless networking experience more flexible than ever before. Now, you can enjoy a better internet experience when downloading, gaming, video streaming or with any other application that you may wish to use.





## 1.2. Panel Layout

### 1.2.1. Top View



The access point's LEDs (view from left to right) are located on the front. You can check the access point's working status by following the LED Explanation table.

## LED Explanation

Name	Status	Indication
 (Power)	On	Power is on.
	Blinking once every second	The system is starting up or updating firmware. Do not disconnect or power off your access point.
	Blinking twice every second	WPS connection is in progress. This may take up to 2 minutes.
	Off	Power is off.
 (2.4 GHz)	On/Off	The 2.4 GHz wireless band is enabled or disabled.
 (5 GHz)	On/Off	The 5 GHz wireless band is enabled or disabled.
 (Internet)	Green	Internet is available.
	Orange	The Ethernet port is connected but internet is not available.
	Off	The Ethernet port is not connected and internet is not available.

### 1.2.2. Back Panel





The following parts (view from left to right) are located on the back panel.

Ports or Buttons	Description
POWER Port	For connecting the access point to a power socket via the provided power adapter.
ON/OFF Button	Press this button to power on or off the access point.
ETHERNET Port	For connecting an Ethernet enabled device, such as a router or desktop.
RESET	Press and hold this button until the Power LED blinks to reset the access point to its factory default settings.
WPS	Press this button and immediately press the WPS button on another device to quickly establish a wireless connection.
Antennas	Used for wireless operation and data transmitting. Upright them for the best Wi-Fi performance.

## Chapter 2

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# Set Up Internet Connection

---

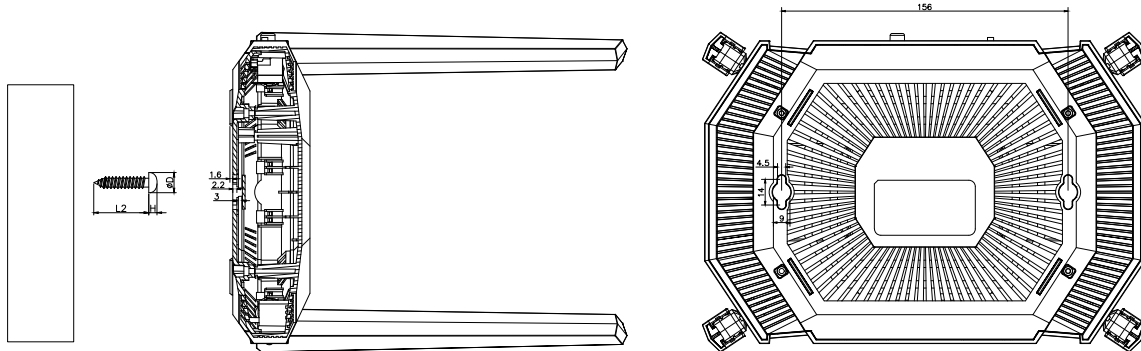
This chapter introduces how to quickly set up the access point.

It contains the following sections:

- [Position Your Access Point](#)
- [Set Up Your Access Point](#)

## 2.1. Position Your Access Point

- The product should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the access point in a location where it can be connected to various devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create a tripping hazard.
- The access point can be placed on a shelf or desktop.
- Keep the access point away from devices with strong electromagnetic interference, such as Bluetooth devices, cordless phones and microwaves.
- Generally, the access point is placed on a horizontal surface, such as on a shelf or desktop. The device also can be mounted on the wall as shown in the following figure.



NOTE:  
 $5 < D < 8.5$ ;  
 $H < 3$ ;  
 $L2 > 9.8$

### Note:

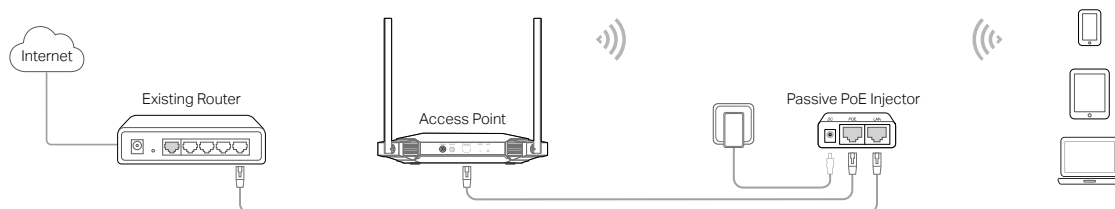
The diameter of the screw head,  $5 \text{ mm} < D < 8.5 \text{ mm}$ , and the distance of two screws is 156 mm. The screw that project from the wall need around 3.8 mm based, and the length of the screw need to be at least 9.8 mm to withstand the weight of the product.

- If the access point is located far from a power outlet, you can power the device with the provided passive PoE injector.

### Note:

The passive PoE injector supports a cable length up to 30 meters, but the value may vary due to the environment.

### Power on via Passive PoE Injector

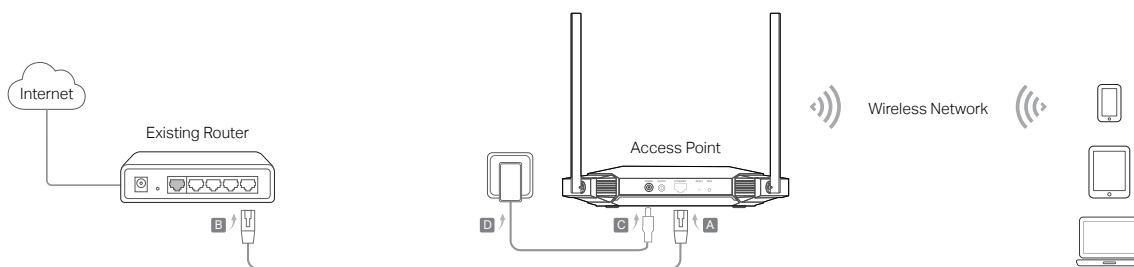


## 2.2. Set Up Your Access Point

There are four operation modes supported by this access point: Access Point, Range Extender, Client, and Multi-SSID. Please determine which operation mode you need and complete the corresponding setup.

### 2.2.1. Access Point Mode (Default)

In this mode, the access point transforms your existing wired network to a wireless one. This mode is suitable for dorm rooms or homes where there's already a wired router but you need a wireless network.



1. Connect the access point according to Step A to D in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Use the default SSID and Password printed on the label of the access point to join its Wi-Fi network.

**Note:**

You can surf the internet now. For your wireless network security, it is recommended to change the default SSID (network name) and the password of your Wi-Fi network. To do so, perform the following steps.

4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

**Note:**

If the login window does not appear, please refer to the [FAQ](#) section.

**Create an administrator password**

For security purposes, create a local password for login before starting the quick setup.

New Password:

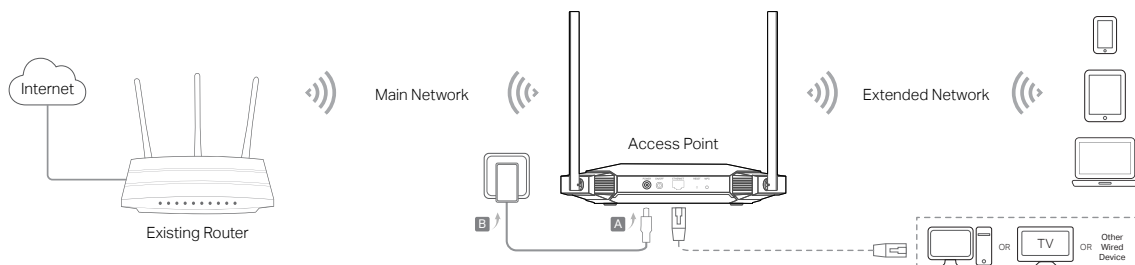
Confirm Password:

[Let's Get Started](#)

5. Follow the step-by-step instructions to complete the configuration.
6. Now, reconnect your wireless devices to the new Wi-Fi network and enjoy the internet!

### 2.2.2. Range Extender Mode

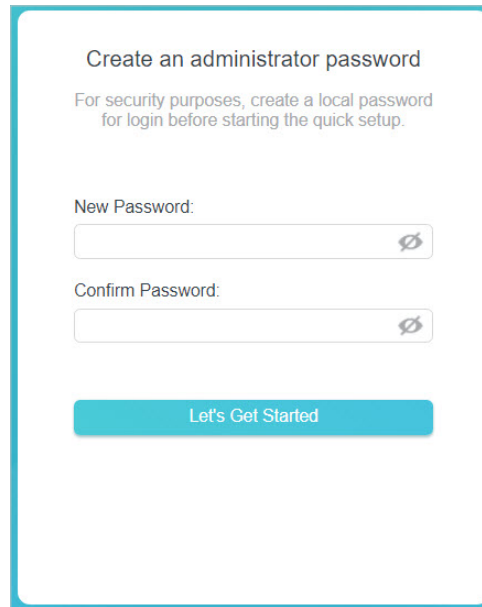
In this mode, the access point extends the range of an existing Wi-Fi network. This mode is suitable when you are in a Wi-Fi dead-zone or a place with weak wireless signal, and you want to have a larger effective range of the wireless signal throughout your home or office.



1. Connect the access point according to Step A and B in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Connect your computer to the access point via an Ethernet cable.
4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

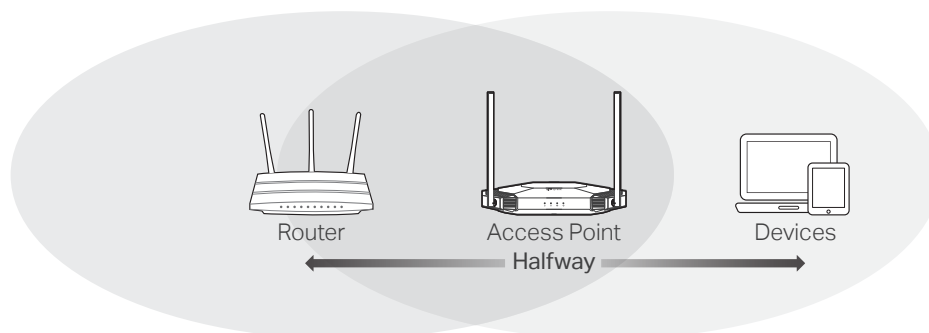
**Note:**

If the login window does not appear, please refer to the [FAQ](#) section.



5. Click **Change Mode** and switch to the **Range Extender** mode.
6. Wait until the access point reboots, then log in again.
7. Follow the step-by-step instructions to complete the configuration.
8. Relocate the access point about **halfway** between your host router and the Wi-Fi dead zone.

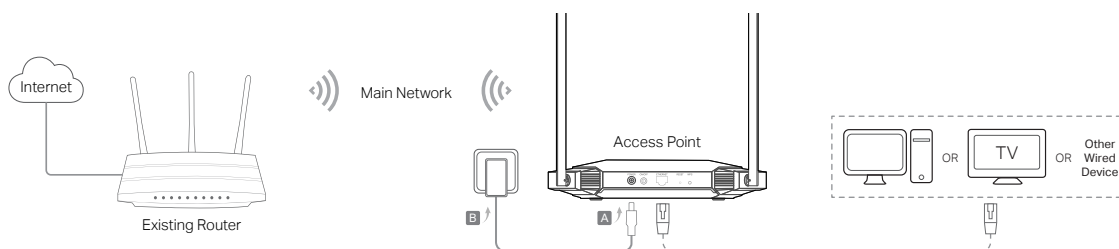
Tip: To maximize the signal strength, refer to the [FAQ](#) section.



9. Now, connect your devices to the access point wirelessly or via an Ethernet cable, and enjoy the internet!

### 2.2.3. Client Mode

In this mode, the access point connects your wired device to a wireless network. This mode is suitable when you have a wired device with an Ethernet port and no wireless capability, for example, a smart TV or game console and you want to connect it to the internet wirelessly.



1. Connect the access point according to Step A to B in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Connect your computer to the access point via an Ethernet cable.
4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

**Note:**

If the login window does not appear, please refer to the [FAQ](#) section.

**Create an administrator password**

For security purposes, create a local password for login before starting the quick setup.

New Password:

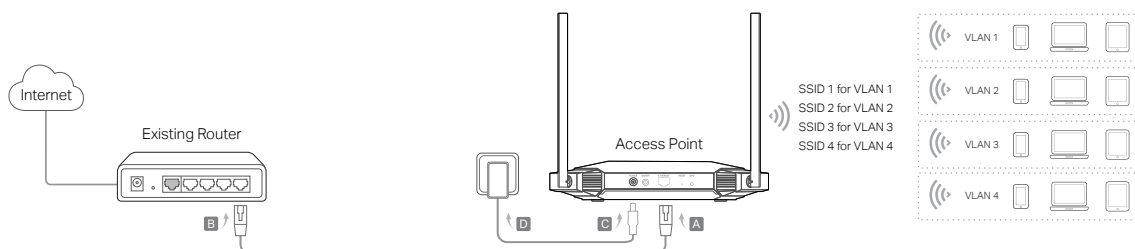
Confirm Password:

[Let's Get Started](#)

5. Click [Change Mode](#) and switch to the [Client](#) mode.
6. Wait until the access point reboots, then log in again.
7. Follow the step-by-step instructions to complete the configuration.
8. Now, connect your wired device to the access point via an Ethernet cable, and enjoy the internet!

#### 2.2.4. Multi-SSID Mode

In this mode, the access point creates multiple wireless networks to provide different security and VLAN (Virtual Local Area Network) groups. This mode is suitable when you want your devices connected to different wireless networks and become isolated by VLANs.



1. Connect the access point according to Step A to D in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Use the default SSID and Password printed on the label of the access point to join its Wi-Fi network.
4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

**Note:**

If the login window does not appear, please refer to the [FAQ](#) section.

**Create an administrator password**

For security purposes, create a local password for login before starting the quick setup.

New Password:

Confirm Password:

[Let's Get Started](#)

5. Click [Change Mode](#) and switch to the [Multi-SSID](#) mode.
6. Wait until the access point reboots, then reconnect to the access point and log in again.
7. Follow the step-by-step instructions to complete the configuration.
8. Now, connect your wireless devices to the Wi-Fi networks and enjoy the internet!

**Tip:**

If you want to isolate different networks, go to [Wireless > Wireless Settings](#), click the edit icon of each SSID entry and set different VLAN IDs.



## Chapter 3

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# TP-Link Cloud Service

## (for Access Point Mode)

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TP-Link Cloud service provides a better way to manage your cloud devices. Log in to your access point with a TP-Link ID, and you can easily monitor and manage your home network when you are out and about via the Tether app. To ensure that your access point stays new and gets better over time, the TP-Link Cloud will notify you when an important firmware upgrade is available. Surely you can also manage multiple TP-Link Cloud devices with a single TP-Link ID.

This chapter introduces how to register a new TP-Link ID, bind or unbind TP-Link IDs to manage your access point, and the Tether app with which you can manage your home network no matter where you may find yourself.

It contains the following sections:

- [Register a TP-Link ID](#)
- [Change Your TP-Link ID Information](#)
- [Manage the User TP-Link IDs](#)
- [Manage the Access Point via the TP-Link Tether App](#)

## 3.1. Register a TP-Link ID

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System > TP-Link ID](#) or click [TP-Link ID](#) in the upper right corner of the page.
3. Click [Sign Up](#) and follow the instructions to register a TP-Link ID.

**TP-Link ID**

Log in to bind the access point to your TP-Link ID. You can remotely manage your network via the Tether app, and more.

TP-Link ID (Email):

Password:

[Log In](#)

[Sign Up](#) [Forgot Password?](#)

4. After activating your TP-Link ID, come back to the TP-Link ID page to log in. The TP-Link ID used to log in to the access point for the first time will be automatically bound as an **Admin**.

**Note:**


- To learn more about the [Admin](#) and [User](#) TP-Link ID, refer to [Manage the User TP-Link IDs](#).
- Once you have registered a TP-Link ID on the web management page, you can only register another TP-Link ID via the Tether APP. Please refer to [Manage the Access Point via the TP-Link Tether App](#) to install the app.
- If you want to unbind the admin TP-Link ID from your access point, please go to [Advanced > TP-Link ID](#), and click [Unbind](#) in the [Device Information](#) section.

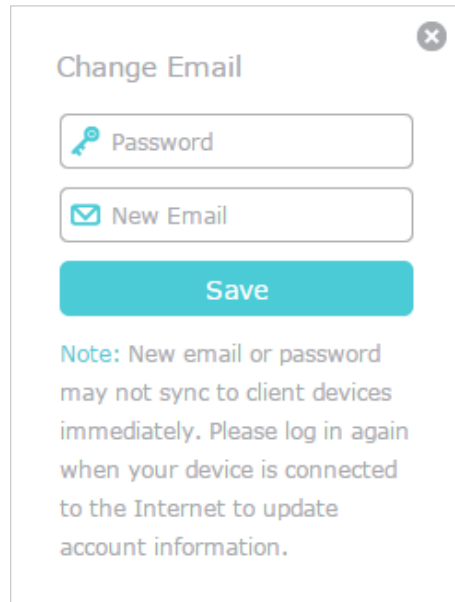
## 3.2. Change Your TP-Link ID Information

Follow the steps below to change your email address and password of your TP-Link ID as needed.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System > TP-Link ID](#), and focus on the [Account Information](#) section.


- **To change your email address:**

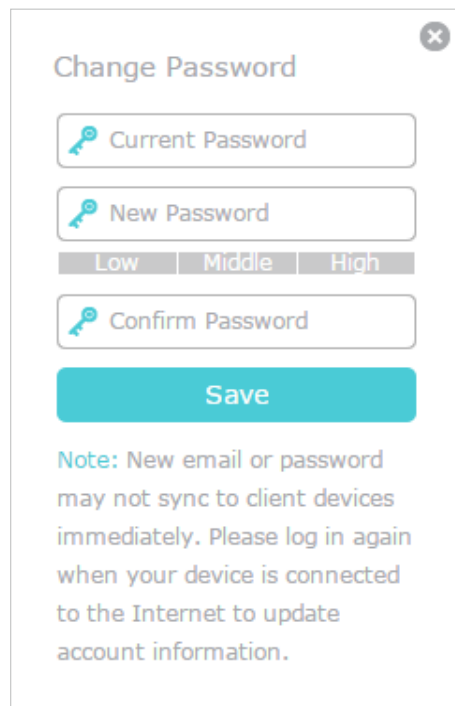
1. Click  behind the Email.
2. Enter the password of your TP-Link ID, then a new email address. And click [SAVE](#).



The image shows a 'Change Email' dialog box with a close button (X) in the top right corner. It contains two input fields: 'Password' with a key icon and 'New Email' with an envelope icon. Below the fields is a teal 'Save' button. A note at the bottom states: 'Note: New email or password may not sync to client devices immediately. Please log in again when your device is connected to the Internet to update account information.'

- **To change your password:**

1. Click  behind the Password.
2. Enter the current password, then a new password twice. And click **SAVE**.



The image shows a 'Change Password' dialog box with a close button (X) in the top right corner. It contains three input fields: 'Current Password', 'New Password', and 'Confirm Password', each with a key icon. Below the 'New Password' field are three radio buttons labeled 'Low', 'Middle', and 'High'. Below the fields is a teal 'Save' button. A note at the bottom states: 'Note: New email or password may not sync to client devices immediately. Please log in again when your device is connected to the Internet to update account information.'

### 3.3. Manage the User TP-Link IDs

The TP-Link ID used to log in to the access point for the first time will be automatically bound as the **Admin** account. An admin account can add or remove other TP-Link IDs

to or from the same access point as **Users**. All accounts can monitor and manage the access point locally or remotely, but user accounts cannot:

- Reset the access point to its factory default settings either on the web management page or in the Tether app.
- Add/remove other TP-Link IDs to/from the access point.

### 3.3.1. Add TP-Link ID to Manage the Access Point

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > TP-Link ID**, and focus on the **Bound Accounts** section.
3. Click **+ Bind**, enter another TP-Link ID as needed and click **SAVE**.

**Note:** If you need another TP-Link ID, please register a new one via the Tether app. Refer to [Manage the Access Point via the TP-Link Tether App](#) to install the app and register a new TP-Link ID.

4. The new TP-Link ID will be displayed in the Bound Accounts table as a **User**.

Bound Accounts				
<span style="color: teal;">+</span> Bind <span style="color: red;">-</span> Unbind				
<input type="checkbox"/>	ID	Email	Binding Date	Role
<input type="checkbox"/>	1	admin_123@tplink.com	2023-10-27	Admin
<input type="checkbox"/>	2	admin123@tplink.com	2023-10-27	User

### 3.3.2. Remove TP-Link ID(s) from Managing the Access Point

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > TP-Link ID**, and focus on the **Bound Accounts** section.
3. Tick the checkbox(es) of the TP-Link ID(s) you want to remove and click **Unbind**.

Bound Accounts				
<span style="color: green;">+</span> Bind <span style="color: red;">-</span> Unbind				
<input type="checkbox"/>	ID	Email	Binding Date	Role
<input type="checkbox"/>	1	admin_123@tp.com	2023-10-27	Admin
<input checked="" type="checkbox"/>	2	admin_123@tp.com	2023-10-27	User

### 3. 4. Manage the Access Point via the TP-Link Tether App

The Tether app runs on iOS and Android devices, such as smartphones and tablets.

1. Launch the Apple App Store or Google Play store and search "TP-Link Tether" or simply scan the QR code to download and install the app.



2. Launch the Tether app and log in with your TP-Link ID.

**Note:** If you don't have a TP-Link ID, create one first.

3. Connect your device to the access point's wireless network.
4. Go back to the Tether app, select your access point and log in with the password you set for the access point.
5. Manage your access point as needed.

**Note:**

If you need to remotely access your access point from your smart devices, you need to:

- Log in with your TP-Link ID. If you don't have one, refer to [Register a TP-Link ID](#).
- Make sure your smartphone or tablet can access the internet with cellular data or a Wi-Fi network.

## Chapter 4

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# Wireless Settings

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This chapter guides you on how to configure the wireless settings.

It contains the following sections:

- [Specify Wireless Settings](#)
- [Use WPS for Wireless Connection \(for Access Point/Multi-SSID Mode\)](#)
- [Check Advanced Wireless Settings \(for Access Point/Multi-SSID Mode\)](#)
- [Monitor Wireless Statistics \(for Access Point/Multi-SSID Mode\)](#)
- [Monitor the Traffic Throughput \(for Access Point/Multi-SSID Mode\)](#)

## 4. 1. Specify Wireless Settings

The access point's wireless network names (SSIDs), password, and security option are preset in the factory. The preset SSIDs and password can be found on the label of the access point.

Wireless settings differ with operation mode.

### 4. 1. 1. Access Point Mode

When the device works in Access Point mode, you can customize its wireless network.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Wireless Settings**.

### Wireless Settings

Personalize settings for each band or enable Smart Connect to configure the same settings for all bands.

---

**OFDMA:**  Enable ?

**TWT:**  Enable ?

**Smart Connect:**  Enable ?

**2.4GHz:**  Enable [Share Network](#)

Network Name (SSID):   Hide SSID

Security:  ▼

Password:

Transmit Power:  ▼

Channel Width:  ▼

Channel:  ▼

Mode:  ▼

**5GHz:**  Enable [Share Network](#)

Network Name (SSID):   Hide SSID

Security:  ▼

Password:

Transmit Power:  ▼

Channel Width:  ▼

Channel:  ▼

Mode:  ▼

- **To enable or disable OFDMA:**

OFDMA enables multiple users to transmit data simultaneously, and thus greatly improves speed and efficiency. Note that only when your clients also support OFDMA, can you fully enjoy the benefits. It is disabled by default.

1. Go to [Wireless > Wireless Settings](#).
2. Enable [OFDMA](#).

- **To enable or disable TWT:**

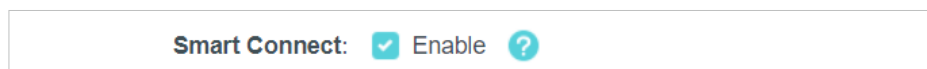
TWT (Target Wake Time) allows 802.11ax access points and clients to negotiate their periods to transmit and receive data packets. Clients only wake up at TWT sessions and remain in sleep mode for the rest of the time, which significantly extends their battery life. It is disabled by default.

1. Go to [Wireless > Wireless Settings](#).
2. Enable [TWT](#).

- **To use the Smart Connect function:**

Smart Connect combines the 2.4 GHz and 5 GHz bands and assigns your devices between them to balance network demands.

1. Go to [Wireless > Wireless Settings](#).
2. Enable [Smart Connect](#).



3. Keep the default values or set a new SSID and password, and click [SAVE](#). This SSID and password will be applied for the 2.4 GHz and 5 GHz wireless networks. If you want to configure the wireless settings separately for each band, deselect the checkbox to disable this feature.

- **To enable or disable a wireless band:**

1. Go to [Wireless > Wireless Settings](#).
2. The wireless bands are enabled by default. If you want to disable a wireless band, just deselect its [Enable](#) checkbox.

- **To change the wireless network name (SSID) and wireless password:**

1. Go to [Wireless > Wireless Settings](#).
2. Create a new SSID in [Network Name \(SSID\)](#) and customize the password for the network in [Password](#). The value is case-sensitive.

**Note:** If you change the wireless settings with a wireless device, you will be disconnected when the settings are effective. Please write down the new SSID and password for future use.

- **To hide SSID:**



1. Go to [Wireless > Wireless Settings](#).
  2. Select [Hide SSID](#), then your SSID won't display when wireless devices scan for wireless networks and you will need to manually enter the SSID to join the network.
- **To change the security option:**
    1. Go to [Wireless > Wireless Settings](#).
    2. Select an option from the [Security](#) drop-down list. We recommend you don't change the default settings unless necessary.
  - **To change the transmit power:**
    1. Go to [Wireless > Wireless Settings](#).
    2. Select an option from the [Transmit Power](#) drop-down list.
  - **To change channel and mode settings:**
    1. Go to [Wireless > Wireless Settings](#).
    2. Make sure Smart Connect is disabled. Channel and mode settings are not available when Smart Connect is enabled.
    3. Select a [Channel Width](#) (bandwidth) for the wireless network. It is recommended to just leave it as default.
    4. Select an operating [Channel](#) for the wireless network. It is recommended to leave the channel to [Auto](#) if you are not experiencing the intermittent wireless connection issue.
    5. Select a transmission [Mode](#) according to your wireless client devices. It is recommended to just leave it as default.
    6. Click [SAVE](#).

#### 4.1.2. Range Extender Mode

When the device works in Range Extender mode, you can reselect the networks to extend and customize the extended networks.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless > Wireless Settings](#).
3. In the [Connect to Main Network](#) section, select the [2.4GHz](#) and/or [5GHz](#) network(s), click [Wi-Fi SCANNER](#) to find and select the network to extend. If the selected network is encrypted, enter the network password.

### Connect to Main Network

Connect the access point to your main network.

---

2.4GHz:  Enable

[Wi-Fi SCANNER](#)

Main Network SSID:

MAC Address:

Lock to AP

Security:

Password:

5GHz:  Enable

[Wi-Fi SCANNER](#)

Main Network SSID:

MAC Address:

Lock to AP

Security:

Password:

4. In the [Extended Network](#) section, customize the extended networks as you need. You can:

- Enable or disable a wireless network.
- Change the extended SSIDs or copy main network SSIDs.

**Note:** Extended passwords are the same as the main network passwords and cannot be changed.

- Select [Hide SSID](#) for a network, then your SSID won't display when wireless devices scan for wireless networks and you will need to manually enter the SSID to join the network.

**Extended Network**

Personalize settings for your extended network.

2.4GHz:  Enable [Share Network](#)

Extended SSID:   Hide SSID

[COPY MAIN NETWORK SSID](#)

5GHz:  Enable [Share Network](#)

Extended SSID:   Hide SSID

[COPY MAIN NETWORK SSID](#)

5. Click [SAVE](#).

### 4.1.3. Client Mode

When the device works in Client mode, you can connect to another network.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless](#) > [Wireless Settings](#).

**Connect to Main Network**

Connect the access point to your main network.

Wireless Band:  2.4GHz  
 5GHz

[Wi-Fi SCANNER](#)

Main Network SSID:

MAC Address:

Lock to AP

Security:  ▼

Password:

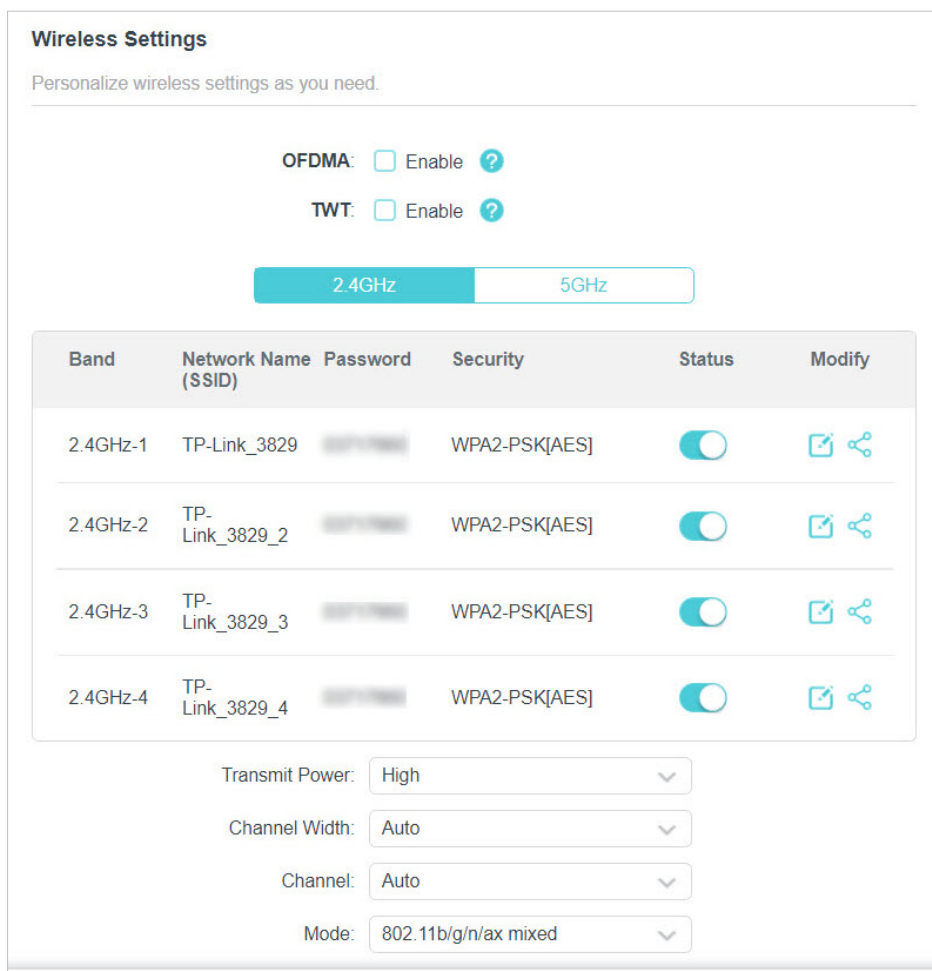
3. Select the [2.4GHz](#) or [5GHz](#) band.
4. Click [Wi-Fi SCANNER](#) to find and select the network to connect. Main network SSID and MAC address will be automatically filled in.
5. (Optional) If you want to lock the connection to the specified AP, enable [Lock to AP](#). The access point will not switch connection to other APs even if they use the same network name and password as the specified one.
6. Enter the network password.

7. Click **SAVE**.

#### 4.1.4. Multi-SSID Mode

When the device works in Multi-SSID mode, you can customize and isolate multiple wireless networks.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Wireless Settings**.



**Wireless Settings**  
Personalize wireless settings as you need.

OFDMA:  Enable ?

TWT:  Enable ?

2.4GHz | 5GHz

Band	Network Name (SSID)	Password	Security	Status	Modify
2.4GHz-1	TP-Link_3829	[REDACTED]	WPA2-PSK[AES]	<input checked="" type="checkbox"/>	
2.4GHz-2	TP-Link_3829_2	[REDACTED]	WPA2-PSK[AES]	<input checked="" type="checkbox"/>	
2.4GHz-3	TP-Link_3829_3	[REDACTED]	WPA2-PSK[AES]	<input checked="" type="checkbox"/>	
2.4GHz-4	TP-Link_3829_4	[REDACTED]	WPA2-PSK[AES]	<input checked="" type="checkbox"/>	

Transmit Power: High

Channel Width: Auto

Channel: Auto

Mode: 802.11b/g/n/ax mixed

- **To enable or disable OFDMA:**

OFDMA enables multiple users to transmit data simultaneously, and thus greatly improves speed and efficiency. Noted that only when your clients also support OFDMA, can you fully enjoy the benefits. It is disabled by default.


1. Go to **Wireless > Wireless Settings**.
2. Enable **OFDMA**.

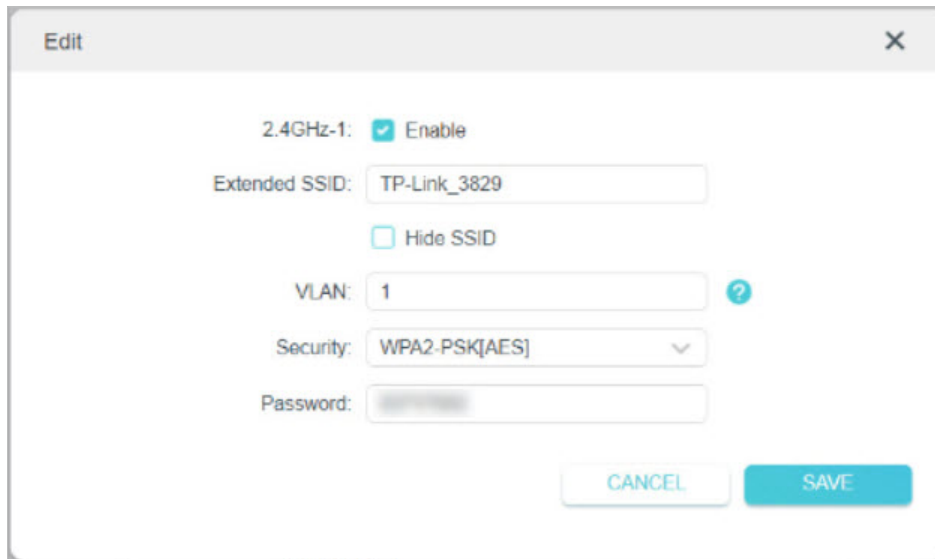
- **To enable or disable TWT:**

TWT (Target Wake Time) allows 802.11ax access points and clients to negotiate their periods to transmit and receive data packets. Clients only wake up at TWT sessions and remain in sleep mode for the rest of the time, which significantly extend their battery life. It is disabled by default.



1. Go to [Wireless > Wireless Settings](#).
2. Enable [TWT](#).

- **To customize a wireless network:**

1. Go to [Wireless > Wireless Settings](#).
2. Click [2.4GHz](#) or [5 GHz](#), select a network and click .



The screenshot shows an 'Edit' dialog box with the following fields and options:

- 2.4GHz-1:**  Enable
- Extended SSID:**
- Hide SSID:**
- VLAN:**  
- Security:**  
- Password:**


Buttons:

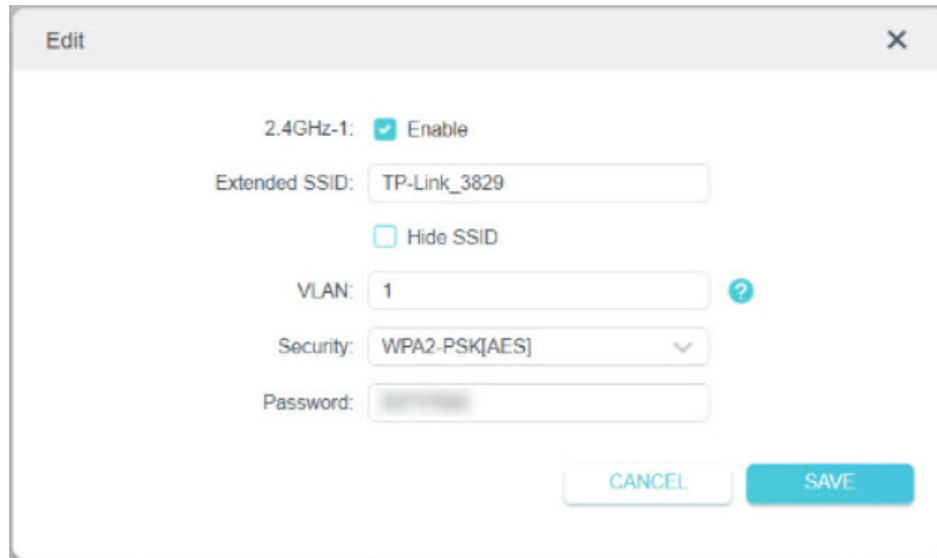
3. Customize the network according to your needs. You can:

- Enable or disable the network.
- Change the extended SSID, password, and security option.
- Select [Hide SSID](#) for the network, then your SSID won't display when wireless devices scan for wireless networks and you will need to manually enter the SSID to join the network.

4. Click [SAVE](#).

- **To isolate wireless networks:**

1. Go to [Wireless > Wireless Settings](#).
2. Click  of each SSID entry and set different VLAN IDs. Only the networks with the same VLAN ID can access each other. Wireless networks will be isolated by VLANs.



The screenshot shows a dialog box titled "Edit" with a close button (X) in the top right corner. The dialog contains the following settings:

- 2.4GHz-1:  Enable
- Extended SSID:
- Hide SSID
- VLAN:  ?
- Security:  (dropdown arrow)
- Password:

At the bottom right of the dialog are two buttons: "CANCEL" and "SAVE".

3. Click [SAVE](#).

- **To change the transmit power:**

1. Go to [Wireless](#) > [Wireless Settings](#).

2. Click [2.4GHz](#) or [5 GHz](#).

3. Select an option from the [Transmit Power](#) drop-down list.

- **To change channel settings:**

1. Go to [Wireless](#) > [Wireless Settings](#).

2. Click [2.4GHz](#) or [5 GHz](#).

3. Select a [Channel Width](#) (bandwidth) for the wireless network. It is recommended to just leave it as default.

4. Select an operating [Channel](#) for the wireless network. It is recommended to leave the channel to [Auto](#) if you are not experiencing the intermittent wireless connection issue.

5. Click [SAVE](#).

- **To change the transmission mode:**

1. Go to [Wireless](#) > [Wireless Settings](#).

2. Click [2.4GHz](#) or [5 GHz](#).

3. Select a transmission [Mode](#) according to your wireless client devices. It is recommended to just leave it as default.

4. Click [SAVE](#).

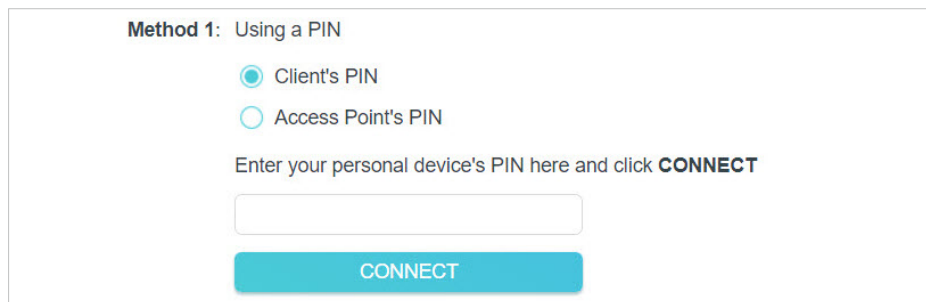
## 4. 2. Use WPS for Wireless Connection (for Access Point/Multi-SSID Mode)

Wi-Fi Protected Setup (WPS) provides an easier approach to set up a security-protected Wi-Fi connection.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless > WPS](#).
3. Follow one of the following methods to connect your WPS-enabled client to the access point's Wi-Fi network.

- **Connect via the client's PIN**

- 1) Click [Client's PIN](#).



Method 1: Using a PIN

Client's PIN  
 Access Point's PIN

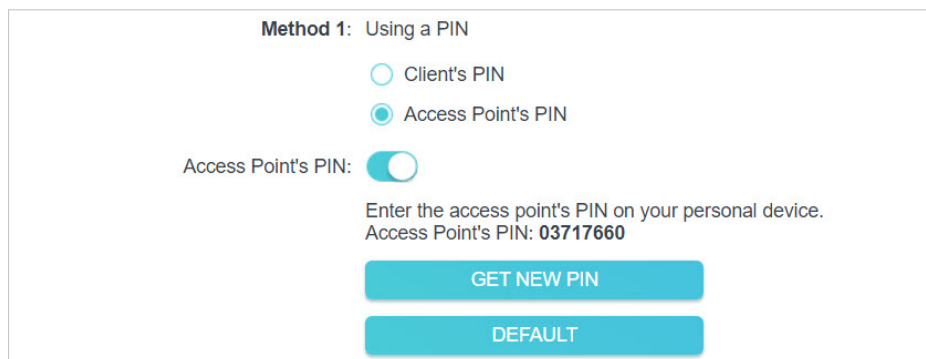
Enter your personal device's PIN here and click **CONNECT**

**CONNECT**

- 2) Enter your client's PIN, and then click [CONNECT](#).
- 3) A success message will appear on the WPS page when the device successfully join the access point's network.

- **Connect via the access point's PIN**

- 1) Click [Access Point's PIN](#).



Method 1: Using a PIN

Client's PIN  
 Access Point's PIN

Access Point's PIN:

Enter the access point's PIN on your personal device.  
Access Point's PIN: **03717660**

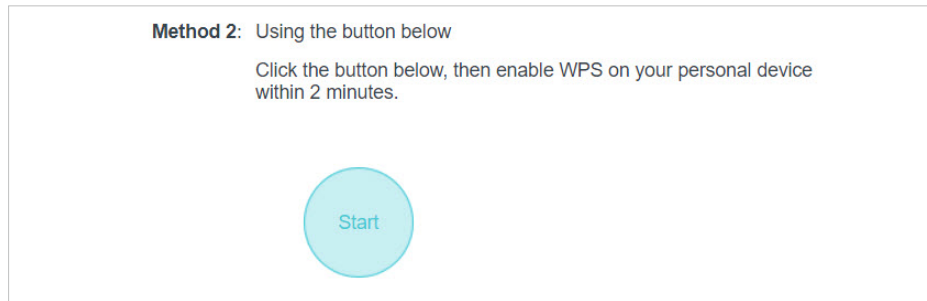
**GET NEW PIN**

**DEFAULT**

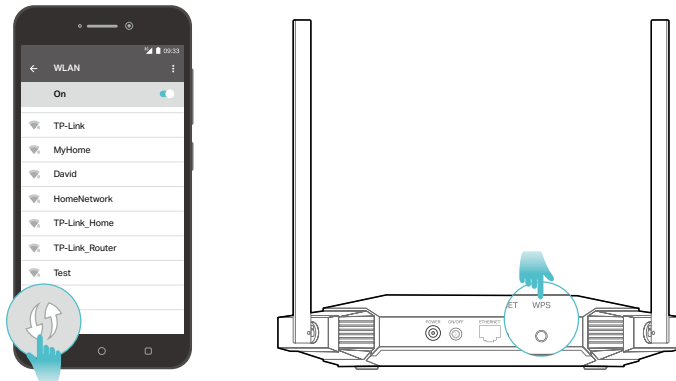
- 2) Check your access point's PIN. You can use the default PIN or generate a new one.
- 3) Enter this PIN on your client for it to join the access point's network.

- **Connect via the Start button on the WPS page**

- 1) Click the [Start](#) button on the WPS page.



- 2) Within 2 minutes, enable WPS on your client.
  - 3) A success message will appear on the WPS page when the device successfully join the access point's network.
- **Connect via the WPS button on the access point**
    - 1) Press the WPS button on the back panel of the access point.
    - 2) Within 2 minutes, enable WPS on your client. The client will connect to the access point.



### 4. 3. Check Advanced Wireless Settings (for Access Point/Multi-SSID Mode)

You can check advanced wireless settings for the device. It is recommended that you keep the default settings. Improper settings may affect network performance.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless > Wireless Advanced](#).
3. Check the advanced settings of your wireless network.



**Additional Settings**  
Check advanced wireless settings for your device.

WMM:  Enable

AP Isolation:  Enable

Airtime Fairness:  Enable

Beacon Interval:

RTS Threshold:

DTIM Interval:

Group Key Update Period:  s

- **WMM** – This function can guarantee the packets with high-priority messages being transmitted preferentially.
- **AP Isolation** – This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN.
- **Airtime Fairness** – This function can improve the overall network performance by sacrificing a little bit of network time on your slow devices.
- **Beacon Interval** – Enter a value between 40 and 1000 in milliseconds to determine the duration between beacons packets that are broadcasted by the access point to synchronize the wireless network. The default value is 100 milliseconds.
- **RTS Threshold** – Enter a value between 1 and 2346 to determine the packet size of data transmission trough the access point. If the packet is larger than the specified threshold, the access point will send RTS (Request to Send) frames to a particular receiving station and negotiate the sending of a data frame. Or else the packet will be sent immediately. The default value is 2346.
- **DTIM Interval** – This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the access point has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Enter a value between 1 and 15 Beacon Intervals. The default value is 1, indicating that the DTIM Interval is the same as Beacon Interval.
- **Group Key Update Period** – Enter the number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default value is 0, indicating no key renewal.

## 4. 4. Monitor Wireless Statistics (for Access Point/ Multi-SSID Mode)

The Wireless Statistics page displays the data statistics of wireless clients.



1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.

2. Go to **Wireless > Wireless Statistics**.
3. View the data statistics of wireless clients.

**Wireless Statistics**

View the data statistics of wireless clients.

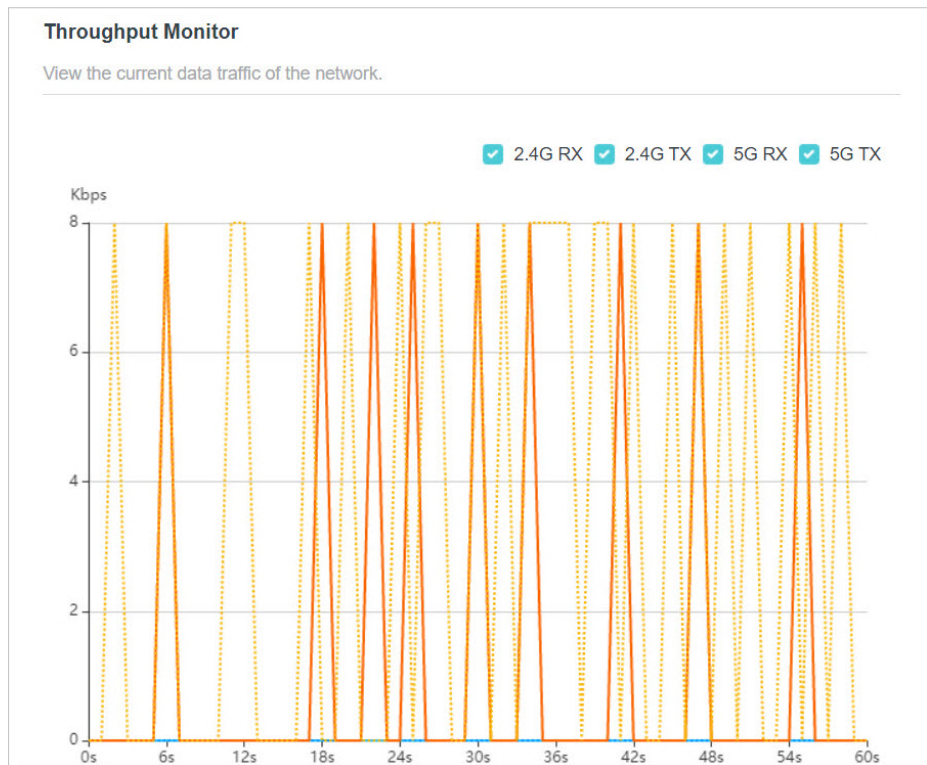
Total Clients: 2 Refresh

Type	Information	Connection Type	Security	Received Bytes	Sent Bytes
	M2012K11AC 9C-5A-81-A6-DA-15	5GHz	WPA2-PSK[AES]	3.5KB	19.0KB
	UNKNOWN C2-92-DC-4E-76-B7	5GHz	WPA2-PSK[AES]	8.6KB	9.7KB

## 4. 5. Monitor the Traffic Throughput (for Access Point/Multi-SSID Mode)

The throughput chart displays the current data traffic of the network.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Throughput Monitor**.
3. Select **2.4G RX**, **2.4G TX**, **5G RX** and/or **5G TX** to view the data rates.



## Chapter 5

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# Portal

(for Access Point/Multi-SSID Mode)

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Imagine that you run a small shop and provide Wi-Fi access for your customers. You want to seize every opportunity to promote your shop, which makes portal authentication an excellent choice. Customers will be directed to a web page for access verification, on which your personalized promotion is displayed. Moreover, you can specify a web link so that the newly connected guest will be redirected to, for example, the official website of your shop.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Portal**.
3. Enable **Portal**.

**Note:** The figure below uses the Portal page of the Access Point mode as an example. In the Multi-SSID mode, more Wi-Fi networks will be available to select.

**Portal**

Configure the Portal for your Wi-Fi networks to authenticate new clients. You can also personalize the client login page or redirect new clients to a specific URL.

**Portal:**

**Note:** This feature is not compatible with a router's IPv6 feature. If your main router supports IPv6, make sure the IPv6 feature has been turned off.

Select Wi-Fi:  TP-Link\_3829 (2.4GHz)  
 TP-Link\_3829\_5G (5GHz)

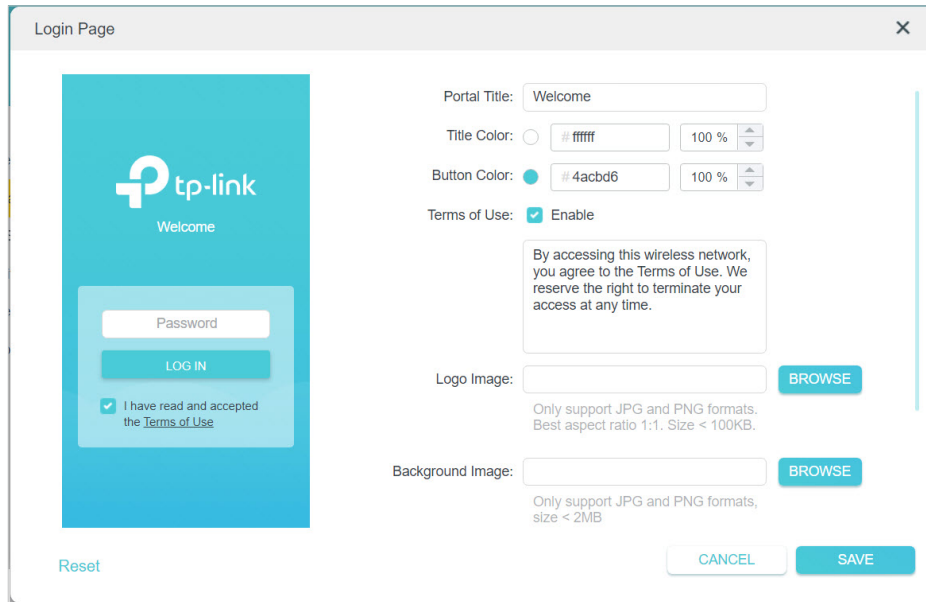
Authentication Type:

Authentication Timeout:

Redirect:  Enable

Login Page: [Click to Edit](#)

4. Select the Wi-Fi networks for portal authentication.
5. Select the **Authentication Type**.
  - If you select **No Authentication**, clients can access the specified Wi-Fi networks without any authentication.
  - If you select **Simple Password**, you can set a password for clients.
6. Select a time for **Authentication Timeout**. A client has to reconnect to the network when its authentication expires.
7. (Optional) Enable **Redirect** and enter your desired website. Newly connected clients will be redirected to the specified website.
8. (Optional) Click to edit the **Login Page**. You can personalize the appearance and content of the login page for newly connected clients.



The screenshot shows a configuration window titled "Login Page" with a close button (X) in the top right corner. On the left is a preview of the login page, and on the right are the configuration options.

**Preview:** A teal background with the TP-Link logo and "tp-link" text. Below it is "Welcome". A white box contains a "Password" input field, a teal "LOG IN" button, and a checked checkbox with the text "I have read and accepted the Terms of Use".

**Configuration Options:**

- Portal Title:
- Title Color:  #ffffff 100 %
- Button Color:  #4acbd6 100 %
- Terms of Use:  Enable
- Terms of Use Text: 

By accessing this wireless network, you agree to the Terms of Use. We reserve the right to terminate your access at any time.
- Logo Image:    
Only support JPG and PNG formats. Best aspect ratio 1:1. Size < 100KB.
- Background Image:    
Only support JPG and PNG formats, size < 2MB

Buttons at the bottom:

9. Click **SAVE**.

## Chapter 6

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# Access Control

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Access Control is used to block or allow specific client devices to access your network (via wired or wireless) based on a list of blocked devices (Blacklist) or allowed devices (Whitelist).

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.

2. Go to **Internet > Access Control**.

**Note:** Access Control is not available in Client mode.

3. Turn on **Access Control**.

4. Select the access mode to either block (recommended) or allow specific device(s).

#### To block specific devices:

1) Click **Blacklist**.

**Access Control**

Control the access to your wireless network from the specified devices.

Access Control:

Access Mode:  Blacklist  
Configure a blacklist to only block access to your wireless network from the specified devices.

Whitelist

[+ Add](#)

Device Type	Device Name	MAC Address	Modify
No Entries			

2) Click **Add**.

**Add Devices**

UNKNOWN 192.168.0.201 C2-92-DC-4E-76-B7

W 192.168.0.7 FC-AA-14-55-FB-5D

[CANCEL](#) [ADD](#)

3) Select the devices you want to block and click **ADD**.

#### To allow specific devices:

1) Click **Whitelist** and click **SAVE**. Your current device will be automatically added to the whitelist.

**Access Control**



Control the access to your wireless network from the specified devices.

Access Control:

Access Mode:  Blacklist  
 Whitelist

Configure a whitelist to only allow access to your wireless network from the specified devices.


[+ Add](#)


Device Type	Device Name	MAC Address	Modify
	W	FC-AA-14-55-FB-5D	

- 2) Click [Add](#) to add other devices you want to allow.
- 3) Click [Select From Device List](#), choose devices, then click [ADD](#).

**Add Devices** ✕

Select From Device List  
 Add Manually

 UNKNOWN  
192.168.0.201    C2-92-DC-4E-76-B7

 W  
192.168.0.7    FC-AA-14-55-FB-5D

[CANCEL](#) [ADD](#)

Alternatively, click [Add Manually](#), enter the device name and MAC address, then click [ADD](#).

**Add Devices** ✕

Select From Device List  
 Add Manually

Device Name:

MAC Address:

[CANCEL](#) [ADD](#)



**Done!**

Now you can block or allow specific client devices to access your network using the [Blacklist](#) or [Whitelist](#).

## Chapter 7

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# Customize Network Settings

---

This chapter introduces how to customize your network settings.

It contains the following sections:

- [Change the LAN Settings](#)
- [Specify DHCP Server Settings](#)

## 7.1. Change the LAN Settings

The access point is preset with Dynamic IP, which allows it to dynamically obtain an IP address and gateway from the main router/AP. It is recommended that you keep the default LAN settings to avoid IP conflict with the main router/AP or other devices on your local network.

If you want to set a static IP address for the access point, follow the steps below:

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Internet > LAN](#).
3. Choose [Static IP](#).
4. Set an IP address, which should be in the same subnet as the main router/AP.

**LAN**  
View and configure LAN settings.

MAC Address: D0-37-45-18-38-29

IP Type:  Dynamic IP  
 Static IP

IP Address:

Subnet Mask:  ▼

Default Gateway:

5. Leave other parameters as the default settings.

6. Click [SAVE](#).

**Tip:**

After setting a static IP address, you can use the new IP address to log into the web management page besides <http://tplinkap.net>.

## 7.2. Specify DHCP Server Settings

By default, the DHCP (Dynamic Host Configuration Protocol) server works in Auto mode to avoid IP conflict. It will automatically assign IP addresses to clients from its IP address pool only when the DHCP server of the main router/AP is disabled.

You can change the DHCP server settings if necessary, and you can reserve LAN IP addresses for specified client devices.

**Note:**

If you disable the DHCP server and there is no other DHCP server within your LAN, you have to configure the IP address for each client manually.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Internet > DHCP Server](#).

- To specify the IP address range that the access point assigns:

1. Turn on [DHCP Server](#).

2. Enter the starting and ending IP addresses of the [IP Address Pool](#).

3. Leave other parameters as the default settings.

4. Click [SAVE](#).

- To reserve an IP address for a specified client device:

The DHCP server of the access point works when it is turned on, or when it is in [Auto](#) mode with the DHCP server of the main router/AP disabled. When it is working, you can view the DHCP clients and reserve IP addresses for them.

1. In the [Address Reservation](#) section, click [Add](#).

2. Click [VIEW CONNECTED DEVICES](#) and select the device you want to reserve an IP for. The MAC Address will be automatically filled in. You can also enter the MAC address of the client device manually.

3. Enter the IP address to reserve for the client device.

4. Click [SAVE](#).

## Chapter 8

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# Manage Your Access Point

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This chapter will show you how to configure and manage your access point.

It contains the following sections:

- [Set the System Time and Language](#)
- [Control LEDs](#)
- [Configure the SNMP Agent](#)
- [Configure the Ping Watchdog](#)
- [Update the Firmware](#)
- [Backup and Restore Configuration Settings](#)
- [Reboot the Access Point](#)
- [Change the Login Password](#)
- [Password Recovery](#)
- [Local Management](#)
- [Test the Network Connectivity](#)
- [System Log](#)

## 8.1. Set the System Time and Language

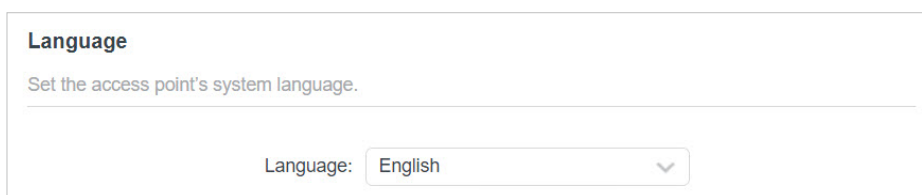
System time is the time displayed while the access point is running. The system time you configure here will be used for other time-based functions like Reboot Schedule. You can choose the way to obtain the system time as needed.

System language is the language displayed when you log into the access point. You can change the system language as needed.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System > Time & Language](#).
3. (Optional) Enable [24-Hour Time](#) if you want to display the time in 24-hour format.
4. Set the system time and language according to your needs.

- **To set system language:**

- 1) Select the language from the dropdown list.



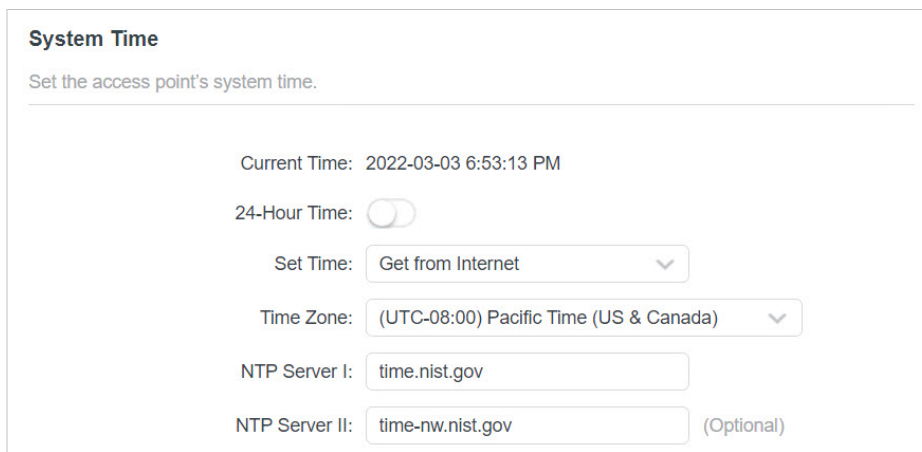
**Language**  
Set the access point's system language.

Language: English

- 2) Click [SAVE](#).

- **To get the system time from the internet:**

- 1) In the [Set Time](#) field, select [Get from Internet](#).



**System Time**  
Set the access point's system time.

Current Time: 2022-03-03 6:53:13 PM

24-Hour Time:

Set Time: Get from Internet

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

NTP Server I: time.nist.gov

NTP Server II: time-nw.nist.gov (Optional)

- 2) Select your local [Time Zone](#) from the drop-down list.
- 3) In the [NTP Server I](#) field, enter the IP address or domain name of your desired NTP Server.

- 4) (Optional) In the **NTP Server II** field, enter the IP address or domain name of the second NTP Server.
  - 5) Click **SAVE**.
- **To get the system time from the managing device:**
    - 1) In the **Set Time** field, select **Get from Managing Device**.

**System Time**

Set the access point's system time.

---

Current Time: 2022-03-03 6:53:35 PM

24-Hour Time:

Set Time:

- 2) Click **SAVE**.
- **To manually set the system time:**
    - 1) In the **Set Time** field, select **Manually**.

**System Time**

Set the access point's system time.

---

Current Time: 2022-03-03 6:53:58 PM

24-Hour Time:

Set Time:

Date:

Time:  :

          :

- 2) Set the current **Date** (In MM/DD/YYYY format).
  - 3) Set the current **Time** (In HH/MM/SS format).
  - 4) Click **SAVE**.
- **To set up Daylight Saving Time:**
    - 1) Enable **Daylight Saving Time**.

### Daylight Saving Time

Automatically synchronize the system time with daylight saving time.

---

Daylight Saving Time:  Enable

Start:2022    Mar    2nd

                  Sun    2:00 AM

End:2022    Nov    First

                  Sun    2:00 AM

- 2) Select the correct **Start** date and time when daylight saving time starts at your local time zone.
- 3) Select the correct **End** date and time when daylight saving time ends at your local time zone.
- 4) Click **SAVE**.

## 8.2. Control LEDs

The LEDs of access point indicate its activities and status. You can turn off the LEDs when you don't need them.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
  2. Go to **System > LED Control**.
  3. Turn off the LEDs when you don't need them.
- If you want to turn off LEDs immediately, turn off **LED Status**.

### LED Control

Turn the access point's LEDs on or off.

---

LED Status:

- If you want to turn off LEDs during a specific time period, follow the steps below:
  - 1) Enable **LED Status** and **Night Mode**.



### LED Control

Turn the access point's LEDs on or off.

LED Status:

### Night Mode

Set a time period when the LEDs will be off automatically.

Night Mode:  Enable

**Note:** Make sure [Time Settings](#) are correct before using this function.

**Current Time:** 2022-03-03 7:07:04 PM

LED Off From: 10 : 00 PM

To: 6 : 00 AM (next day)

- 2) Specify the [LED Off Time](#) as needed, and the LEDs will be off during the period.
4. Click [SAVE](#).

## 8.3. Configure the SNMP Agent

SNMP (Simple Network Management Protocol) is a popular network monitoring and management protocol. You can configure the SNMP agent to communicate with your network monitoring tool or network management system.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System > SNMP](#).
3. Enable [SNMP Agent](#).

### SNMP

Simple network management protocol(SNMP) is a popular network monitoring and management protocol.

SNMP Agent:

SysContact:

SysName:

SysLocation:

Get Community:

Get Source:

Set Community:

Set Source:

4. Configure the SNMP agent according to your actual network requirement.

- **SysContact** – Enter the contact email address of the node to be managed.
- **SysName** – Set a user-defined name for the node to be managed.
- **SysLocation** – Enter the physical location of the node to be managed.
- **Get Community** – Enter the community name that allows read-only access to the device's SNMP information. The community name is considered as a group password. The default setting is **public**.
- **Get Source** – Enter the IP address or subnet that management systems can read information from this 'get' community.

**Note:** A restricted source can be a specific IP address (e.g. 10.10.10.1), or a subnet - represented as IP/BITS (e.g. 10.10.10.0/24). If 0.0.0.0 is specified as the IP address, the agent will accept all requests under the corresponding community name.

- **Set Community** – Enter the community name that allows read/write access to the device's SNMP information. The community name can be considered as a group password. The default setting is **private**.
- **Set Source** – Enter the IP address or subnet that management systems can read and write to this 'set' community.

**Note:** A restricted source can be a specific IP address (e.g. 10.10.10.1), or a subnet - represented as IP/BITS (e.g. 10.10.10.0/24). If 0.0.0.0 is specified as the IP address, the agent will accept all requests under the corresponding community name.

5. Click **SAVE**.

## 8. 4. Configure the Ping Watchdog

Ping Watchdog allows the access point to continuously ping a specific remote host for connection status using a user-defined IP address (or an internet gateway). If it is unable to ping the target IP address under the user-defined constraints, the device will automatically reboot.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > Ping Watchdog**.
3. Enable **Ping Watchdog**.

### Ping Watchdog

Configure Ping Watchdog to continuously ping a specific remote device and automatically reboot the access point in case ping failures reach a specific count.

Ping Watchdog:

IP Address To Ping:

Ping Interval:  seconds (10-300)

Startup Delay:  seconds (60-300)

Failure Count To Reboot:  (1-65535)

4. In **IP Address To Ping** field, enter the IP address of the target host that you want to send ping packets to.
5. In **Ping Interval** field, enter the time interval between two continuous ping packets.
6. In **Startup Delay** field, enter the time delay before the first ping packet is sent out when the device is restarted.
7. In **Fail Count To Reboot** field, enter a number of ping count(s) that the device can send continuously. If ping failures reaches the value, the device will restart automatically.
8. Click **SAVE**.

## 8.5. Update the Firmware

TP-Link is committed to improving product features, giving you a better network experience.

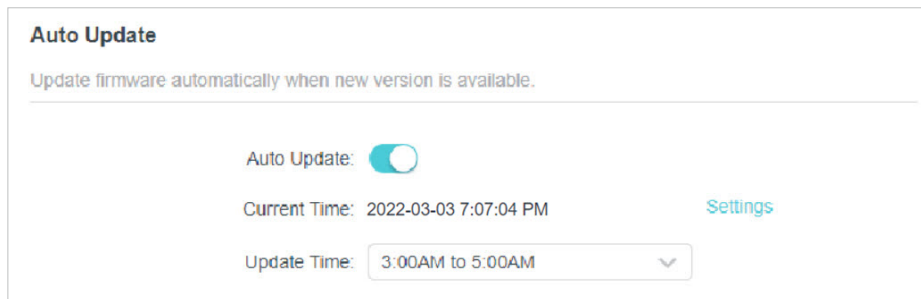
We will inform you through the web management page if there's any new firmware available for your access point. Also, the latest firmware will be released at the TP-Link official website [www.tp-link.com](http://www.tp-link.com), and you can download it from the **Support** page for free.

### Note:

- Make sure the latest firmware file matches the hardware version (as shown in the download section of the Support page).
- Make sure that you have a stable connection between the access point and your computer. Wired connection is recommended.
- Back up your access point's configurations before firmware update.
- Do NOT turn off the access point during the firmware update.

### 8.5.1. Auto Update

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > Firmware Update**.
3. Enable **Auto Update**.





4. Specify the [Update Time](#) and save the settings.

When a new version is available, the access point will update the firmware automatically at the specified time.

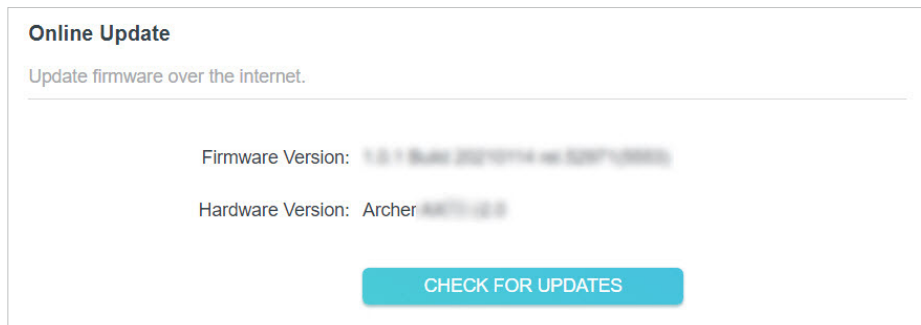
## 8.5.2. Online Update

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.

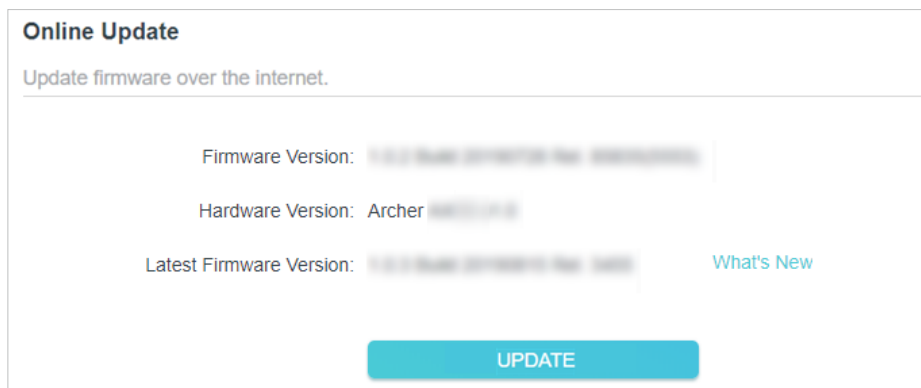
2. Go to [System > Firmware Update](#).

 **Tip:** When new firmware is available for your access point, the update icon  will display in the top-right corner of the web page. You can click the icon to go to the [Firmware Update](#) page.

3. Focus on the [Online Update](#) section, click [CHECK FOR UPDATES](#) to see whether new firmware is available.



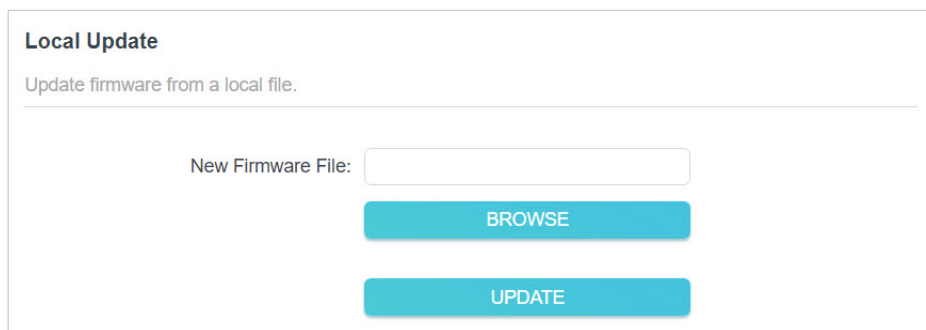
4. Click [UPDATE](#) if there is new firmware.



5. Wait a few minutes for the update and reboot to complete.

### 8.5.3. Local Update

1. Download the latest firmware file for the access point from [www.tp-link.com](http://www.tp-link.com).
2. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
3. Go to [System > Firmware Update](#).
4. Focus on the [Local Update](#) section, click [BROWSE](#) to locate the downloaded new firmware file, and click [UPDATE](#).



The screenshot shows the 'Local Update' section of the access point's web interface. It features a title 'Local Update' and a subtitle 'Update firmware from a local file.' Below this, there is a text input field labeled 'New Firmware File:'. Underneath the input field are two prominent blue buttons: 'BROWSE' and 'UPDATE'.

5. Wait a few minutes for the update and reboot to complete.

**Note:** If you fail to update the firmware for the access point, please contact our Technical Support.

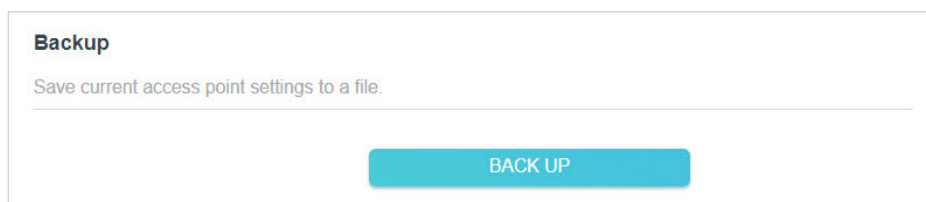
## 8.6. Backup and Restore Configuration Settings

The configuration settings are stored as a configuration file in the access point. You can back up the configuration file to your computer for future use and restore the access point to previous settings from the backup file when needed. Moreover, if necessary, you can erase the current settings and reset the access point to its factory settings.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System > Backup & Restore](#).

- **To back up configuration settings**

Click [BACK UP](#) to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored on your computer.



The screenshot shows the 'Backup' section of the access point's web interface. It features a title 'Backup' and a subtitle 'Save current access point settings to a file.' Below this, there is a prominent blue button labeled 'BACK UP'.

- **To restore configuration settings**

- 1) Click [BROWSE](#) to locate the backup configuration file stored on your computer, and click [RESTORE](#).

**Restore**

Restore settings from a backup file.

---

File:

[BROWSE](#)

[RESTORE](#)

2) Wait a few minutes for the restore and reboot.

**Note:** During the restore process, do not power off or reset the access point.

- **To reset the access point except your login password and cloud account information:**

1) In the [Factory Default Restore](#) section, click [RESTORE](#).

**Factory Default Restore**

Restore all settings to default values.

---

Restore all configuration settings to default values, except your login and cloud account information.

[RESTORE](#)

2) Wait a few minutes for the resetting and rebooting.

**Note:**

- During the resetting process, do not turn off the access point.
- After reset, you can still use the current login password or the TP-Link ID to log in to the web management page.

- **To reset the access point to its factory settings:**

1) In the [Factory Default Restore](#) section, click [FACTORY RESTORE](#).

Restore all the configuration settings to their default values.

[FACTORY RESTORE](#)

2) Wait a few minutes for the resetting and rebooting.

**Note:**

- During the resetting process, do not turn off or reset the access point.
- We strongly recommend you back up the current configuration settings before resetting the access point.

## 8.7. Reboot the Access Point

Rebooting help clean cache and enhance running performance of the access point. You can reboot the access point immediately or schedule it to reboot periodically.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.

2. Go to [System > Reboot](#).

- To reboot the access point immediately:

Click **REBOOT**.

**Reboot**

Reboot to clear cache and enhance running performance.

---

REBOOT

- To schedule the access point to reboot periodically:

1) Enable [Reboot Schedule](#).

**Reboot Schedule**

Set when and how often the access point reboots automatically.

---

**Reboot Schedule:**  Enable

**Note:** Make sure [Time Settings](#) are correct before using this function.

**Current Time:** 2022-03-03 7:07:04 PM

Reboot Time:  :

Repeat:

2) Set the [Reboot Time](#) and [Repeat](#) time.

3) Click **SAVE**. The access point will reboot periodically as scheduled.

## 8.8. Change the Login Password

The account management feature allows you to change your login password of the web management page.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.

2. Go to [System > Administration](#).

**Change Password**

Change the access point's local management password.

---

Old Password:

New Password:

Confirm New Password:

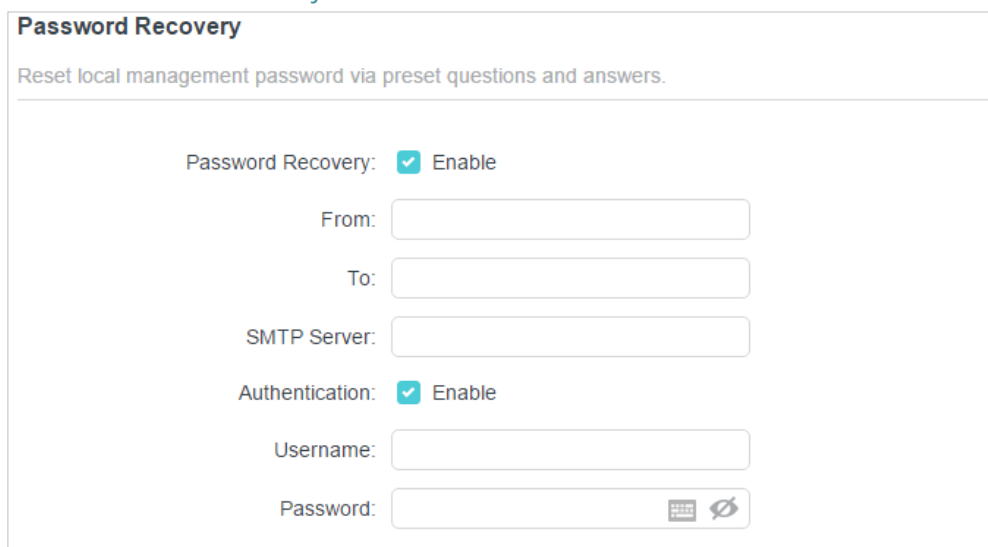
3. Enter the old password, and then enter a new password twice (both case-sensitive).

4. Click **SAVE** and use the new password for future logins.

## 8.9. Password Recovery

This feature allows you to recover the login password you set for your access point in case you forget it.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > Administration** and focus on the **Password Recovery** section.
3. Enable **Password Recovery**.



The screenshot shows the 'Password Recovery' configuration page. At the top, it says 'Reset local management password via preset questions and answers.' Below this, there are several settings:

- Password Recovery:**  Enable
- From:** [Text input field]
- To:** [Text input field]
- SMTP Server:** [Text input field]
- Authentication:**  Enable
- Username:** [Text input field]
- Password:** [Text input field with a password icon and a refresh icon]

4. Specify a mailbox (**From**) for sending the recovery letter and enter its **SMTP Server** address.
5. Specify a mailbox (**To**) for receiving the recovery letter.
6. If the mailbox (**From**) to send the recovery letter requires encryption, tick the **Enable** box of **Authentication** and enter its username and password.

📌 **Tips:**

- SMTP server is available for users in most webmail systems. For example, the SMTP server address of Gmail is smtp.gmail.com.
- Generally, **Authentication** should be enabled if the login of the mailbox requires username and password.

7. Click **SAVE**.

To recover the login password, visit <http://tplinkap.net>, click **Forgot Password?** on the login page and follow the instructions to set a new password.

## 8.10. Local Management

This feature allows you to limit the number of client devices on your LAN from accessing the access point by using the MAC address-based authentication.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > Administration** and focus on the **Local Management** section.



- **Access the access point via HTTPS and HTTP:**

Tick the **Enable** box of **Local Management via HTTPS** to access the access point via HTTPS and HTTP, or keep it disabled to access the access point only via HTTP.

**Local Management**

Access and manage the access point from local network devices.

---

Local Management via HTTPS:  Enable

Local Managers:

- **Allow all LAN connected devices to manage the access point:**

Select **All Devices** for **Local Managers**.

**Local Management**

Access and manage the access point from local network devices.

---

Local Management via HTTPS:  Enable

Local Managers:

- **Allow specific devices to manage the access point:**

1. Select **Specified Devices** for **Local Managers** and click **SAVE**.

**Local Management**

Access and manage the access point from local network devices.

---

Local Management via HTTPS:  Enable

Local Managers:

[+ Add Device](#)

Description	MAC Address	Operation
No Entries		

2. Click **Add Device**.

Add Device ×

---

Description:

[VIEW CONNECTED DEVICES](#)

MAC Address:

3. Click **VIEW CONNECTED DEVICES** and select the device to manage the access point from the devices list, or enter the MAC address of the device manually.
4. Specify a **Description** for this entry.
5. Click **SAVE**.

## 8. 11. Test the Network Connectivity

Diagnostics is used to test the connectivity between the access point and the host or other network devices.

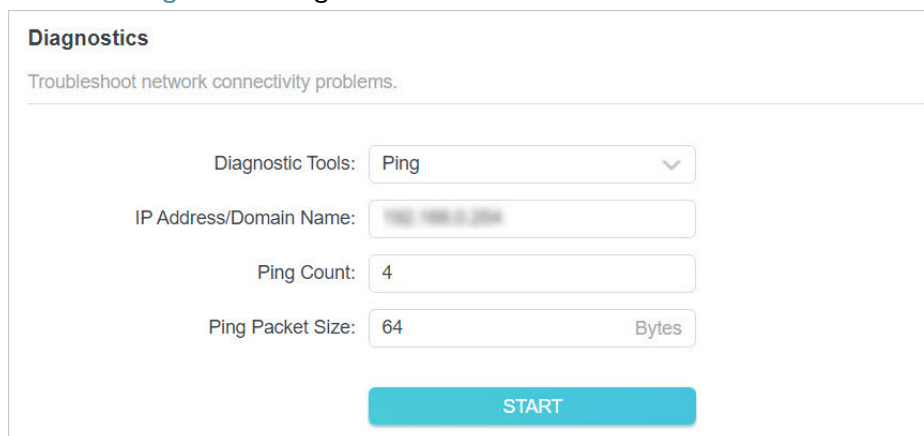
**Ping** is used to test the connectivity between the access point and the tested host, and measure the round-trip time.

**Traceroute** is used to display the route (path) your access point has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > Diagnostics**.

- **To test the connectivity via Ping:**

- 1) Choose **Ping** as the diagnostic tool.



The screenshot shows the 'Diagnostics' section of a web interface. It has a title 'Diagnostics' and a subtitle 'Troubleshoot network connectivity problems.' Below this, there are four input fields: 'Diagnostic Tools' with a dropdown menu set to 'Ping', 'IP Address/Domain Name' with a text input field, 'Ping Count' with a text input field set to '4', and 'Ping Packet Size' with a text input field set to '64' and a 'Bytes' label. At the bottom of the form is a large blue button labeled 'START'.

- 2) Enter the **IP Address** or **Domain Name** of the tested host.
- 3) Keep the default **Ping Count** and **Ping Packet Size**.
- 4) Click **START** to begin the diagnostics. The diagnostics result will be displayed.

```

PING 192.168.0.254 (192.168.0.254): 64 data bytes
Reply from 192.168.0.254: bytes=64 ttl=64 seq=1 time=0.361 ms
Reply from 192.168.0.254: bytes=64 ttl=64 seq=2 time=0.356 ms
Reply from 192.168.0.254: bytes=64 ttl=64 seq=3 time=0.378 ms
Reply from 192.168.0.254: bytes=64 ttl=64 seq=4 time=0.355 ms
--- Ping Statistic "192.168.0.254" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 0.355/0.362/0.378 ms
ping is stopped.

```

- **To test the connectivity via Traceroute:**

- 1) Choose **Traceroute** as the diagnostic tool.

**Diagnostics**

Troubleshoot network connectivity problems.

---

Diagnostic Tools:

IP Address/Domain Name:

Traceroute Max TTL:

**START**

- 2) Enter the **IP Address** or **Domain Name** of the tested host.
- 3) Keep the default **Traceroute Max TTL**.
- 4) Click **START** to begin the diagnostics. The diagnostics result will be displayed.

```

traceroute to 192.168.0.254, 5 hops max, 38 byte packets
1 tplinkap.net (192.168.0.254) 0.040 ms 0.033 ms 0.018 ms
Trace Complete.
traceroute is stopped.

```

## 8.12. System Log

When the access point does not work normally, you can save the system log and send it to the technical support for troubleshooting.

- **To save the system log locally:**

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > System Log**.

### 3. Choose the type and level of the system logs as needed.

**System Log**

View a detailed record of system activities.

---

Current Time: 2021-12-24 5:10:34 PM

Log Type:

Search

2021-12-24 17:10:04 DHCPC INFO [7336] send discover with ip 0.0.0.0 and flags 80

2021-12-24 17:09:34 DHCPC INFO [7336] send discover with ip 0.0.0.0 and flags 0

### 4. In the **Save Log** section, click **SAVE TO LOCAL** to save the system logs to a local disk.

**Save Log**

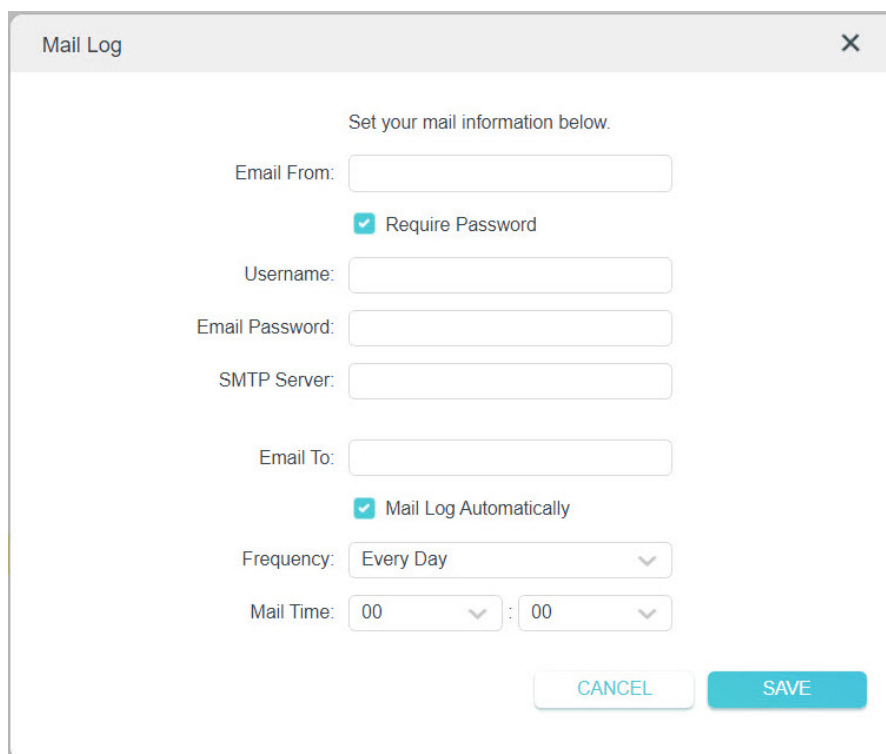
Send system log to a specific email address or save locally.

---

- **To send the system log to a mailbox at a fixed time:**

For example, I want to check my access point's working status at a fixed time every day, however, it's too troublesome to log in to the web management page every time I want to go checking. It would be great if the system logs could be sent to my mailbox at 8 a.m. every day.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > System Log**.
3. In the **Save Log** section, click **MAIL LOG**.
4. Enter the information required:



The image shows a 'Mail Log' configuration dialog box. It has a title bar with 'Mail Log' and a close button (X). The main content area contains the following fields and options:

- Instruction: 'Set your mail information below.'
- Field: 'Email From:' with an empty text input box.
- Option: A checked checkbox labeled 'Require Password'.
- Field: 'Username:' with an empty text input box.
- Field: 'Email Password:' with an empty text input box.
- Field: 'SMTP Server:' with an empty text input box.
- Field: 'Email To:' with an empty text input box.
- Option: A checked checkbox labeled 'Mail Log Automatically'.
- Field: 'Frequency:' with a dropdown menu showing 'Every Day'.
- Field: 'Mail Time:' with two dropdown menus, both showing '00'.
- Buttons: 'CANCEL' and 'SAVE' at the bottom right.

1) **Email From:** Enter the email address used for sending the system log.

2) Select **Require Password**.

☞ **Tips:** Generally, Require Password should be selected if the login of the mailbox requires username and password.

3) **Username:** Enter the user name to log in to the sender's email address.

4) **Email Password:** Enter the password to log in to the sender's email address.

5) **SMTP Server:** Enter the SMTP server address.

☞ **Tips:** SMTP server is available for users in most webmail systems. For example, the SMTP server address of Hotmail is smtp-mail.outlook.com.

6) **Email To:** Enter the recipient's email address, which can be the same as or different from the sender's email address.

7) Select **Mail Log Automatically**.

☞ **Tips:** The access point will send the system log to the designated email address if this option is enabled.

8) **Frequency:** This determines how often the recipient will receive the system log.

9) **Mail Time:** Set the time when the recipient will receive the system log.

5. Click **SAVE**.

# FAQ

## Q1. How do I restore the access point to its factory default settings?

With the access point powered on, use a pin to press and hold the **RESET** button until the Power LED blinks, then release the button.

**Note:** Resetting the access point will clear all previous configurations, and the access point will reset to the default Access Point mode.

## Q2. What should I do if I cannot access the web management page?

- If the computer has a static IP address, change its settings to obtain an IP address automatically.
- Verify that <http://tplinkap.net> or <http://192.168.0.254> is correctly entered in the web browser.
- Use another web browser and try again.
- Reboot your access point and try again.
- Power off your host AP and enter <http://tplinkap.net> in the web browser to try again.

## Q3. What should I do if I forget my wireless password?

The default wireless password is printed on the label of the access point. If the password has been altered, please connect your computer to the access point using an Ethernet cable and follow the steps below:

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Wireless Settings** to retrieve or reset your wireless password.

## Q4. What should I do if I forget my login password of the web management page?

1. Refer to Q1 to reset the access point to its factory default settings.
2. Visit <http://tplinkap.net>, and create a new login password.

**Note:** You'll need to reconfigure the access point to surf the internet once the access point is reset, and please mark down your new password for future use.

## Q5. What should I do if my wireless is not stable?

This could be caused by interference. You can try the following methods:

- Log in to the web management page. Go to **Wireless > Wireless Settings** and change your wireless channel to a different one.
- Move the access point to a new location away from Bluetooth devices and other household electronics, such as cordless phones, microwaves, and baby monitors, to minimize signal interference.

## Q6. What should I do to maximize my signal strength in Range Extender mode?

When choosing an ideal location to optimize wireless signal in Range Extender mode, please refer to the following recommendations.

- Halfway is the best way.

Generally, the ideal location for an access point is about halfway between your wireless router and your wireless clients and make sure that the location you choose is within the range of the host router. If that is not possible, place it closer to your wireless router to ensure stable performance.

- Fewer obstacles ensure better performance.

Choose a location with less obstacles around that may block the signal between the access point and the host network. An open corridor or a spacious location is ideal.

- Less interference provides more stability.

Choose a location away from Bluetooth devices and other household electronics, such as cordless phones, microwaves, and baby monitors to minimize signal interference.

## FCC compliance information statement



**Product Name:** AX3000 Gigabit Wi-Fi 6 Access Point

**Model Number:** TL-WA3001

Component Name	Model
I.T.E. Power Supply	T480050-2B1

**Responsible party:**

**TP-Link USA Corporation**

**Address:** 10 Mauchly, Irvine, CA 92618

**Website:** <http://www.tp-link.com/us/>

**Tel:** +1 626 333 0234

**Fax:** +1 909 527 6804

**E-mail:** [sales.usa@tp-link.com](mailto:sales.usa@tp-link.com)

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 RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

## **FCC compliance information statement**



**Product Name: I.T.E. Power Supply**

**Model Number: T480050-2B1**

**Responsible party:**

**TP-Link USA Corporation**

**Address: 10 Mauchly, Irvine, CA 92618**

**Website: <http://www.tp-link.com/us/>**

**Tel: +1 626 333 0234**

**Fax: +1 909 527 6804**

**E-mail: [sales.usa@tp-link.com](mailto:sales.usa@tp-link.com)**

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.

We, **TP-Link USA Corporation**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2022-03-25

## 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.

### **OPERATING FREQUENCY(the maximum transmitted power)**

2400 MHz -2483.5 MHz (20dBm)

5150 MHz -5250 MHz (23dBm)

5250 MHz -5350 MHz (23dBm)

5470 MHz -5725 MHz (30dBm)

### **EU Declaration of Conformity**

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863.

The original EU Declaration of Conformity may be found at <https://www.tp-link.com/en/support/ce/>

### **RF Exposure Information**

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.

### **National Restrictions**

Attention: This device may only be used indoors in all EU member states, EFTA countries and Northern Ireland.

	AT	BE	BG	CH	CY	CZ	DE	DK
	EE	EL	ES	FI	FR	HR	HU	IE
	IS	IT	LI	LT	LU	LV	MT	NL
	NO	PL	PT	RO	SE	SI	SK	UK(NI)

### **UKCA Mark**



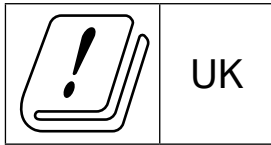
### **UK Declaration of Conformity**

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.

The original UK Declaration of Conformity may be found at  
<https://www.tp-link.com/support/ukca>

## National Restrictions

Attention: This device may only be used indoors in Great Britain.



## Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## Caution:

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;

DFS (Dynamic Frequency Selection) products that operate in the bands 5250- 5350 MHz, 5470-5600MHz, and 5650-5725MHz.

## Avertissement:

Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Les produits utilisant la technique d'atténuation DFS (sélection dynamique des fréquences) sur les bandes 5250- 5350 MHz, 5470-5600MHz et 5650-5725MHz.

## **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.

## **Industry Canada Statement**

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

## **Korea Warning Statements:**

당해 무선설비는 운용중 전파혼신 가능성이 있음.

## **NCC Notice & BSMI Notice:**

注意！

取得審驗證明之低功率射頻器材，非經核准，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及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；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。

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

高增益指向性天線只得應用於固定式點對點系統。

## **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。

## 限用物質含有情況標示聲明書

設備名稱：AX3000 Gigabit Wi-Fi 6 Access Point Equipment name		型號（型式）：TL-WA3001 Type designation (Type)				
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr <sup>+6</sup> )	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應器	—	○	○	○	○	○
天線	○	○	○	○	○	○
<p>備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值            Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。            Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “—” 係指該項限用物質為排除項目。            Note 3: The “—” indicates that the restricted substance corresponds to the exemption.</p>						



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












### Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended
- Do not use the device where wireless devices are not allowed.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- This product uses radios and other components that emit electromagnetic fields. Electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter more than 15 cm (6 inches) away from any pacemakers or other implanted medical devices. If you suspect your product is interfering with your pacemaker or any other implanted medical device, turn off your product and consult your physician for information specific to your medical device.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

### Explanations of the symbols on the product label

Symbol	Explanation
	DC voltage
	AC voltage
	Class II equipment
	Polarity of output terminals
	Energy efficiency Marking
	Indoor use only
	Caution
	Operator's manual
	<p><b>RECYCLING</b></p> <p>This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/ EU in order to be recycled or dismantled to minimize its impact on the environment.</p> <p>User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.</p>