



User Guide

BE24000 Quad-Band Wi-Fi 7 Router
Archer BE900

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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 router may vary by model and software version. Router 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 Router 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, Advanced > System > Firmware Update means the Firmware Update page is under the System menu that is located in the Advanced tab.
 Note:	Ignoring this type of note might result in a malfunction or damage to the device.
 Tips:	Indicates important information that helps you make better use of your device.
symbols on the web page	<ul style="list-style-type: none"> Click to edit the corresponding entry. Click to delete the corresponding entry. Click to enable or disable the corresponding entry. Click to view more information about items on the page.

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 package of the router.

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), Wi-Fi 6E, and features including OFDMA, 1024-QAM, and HE160 require clients to also support the corresponding features. Seven 160MHz channels may not be all available in the 6 GHz band in some regions/countries due to regulatory restrictions.
- * 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.
- * HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit tp-link.com/homeshield for more information.
- * Use of WPA3 requires clients to also support the corresponding feature.
- * This router 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

Get to Know About Your Router

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

It chapter contains the following sections:

- [Product Overview](#)
- [Appearance](#)

1. 1. Product Overview

TP-Link Wi-Fi 7 router, with the 802.11be Wi-Fi technology and the brand-new 6 GHz band, achieves Wi-Fi performance at its ultimate level. The new features of Wi-Fi 7 and 4k QAM dramatically improve throughput and increase capacity and efficiency of the whole network. Access to the 6 GHz band brings more bandwidth, faster speeds, and lower latency, opening up resources for future innovations.

Moreover, it is simple and convenient to set up and use the TP-Link router due to its intuitive Tether app and powerful web interface.

1. 2. Appearance

1. 2. 1. Front Panel



LED Screen

Commonly used functions and information can be visually displayed: weather, graphics, time, and more.

Status	Indication
	Pulsing LEDs. The router is starting up or being reset.
	Cycling graphics. The router is ready for setup.
	Display the information set in Tether, and cycle through the emoji by default. The router works fine and can access the internet.

Status	Indication
	Establishing a WPS connection. If successful, a ✓ will appear, if failed, an ✗ will appear
	The router is being upgraded.
	The router is disconnected from the internet.
	LEDs in the top are pulsing in a line, indicating Wi-Fi is off.

Touchscreen

Use the touchscreen to check basic information, network status, connected clients, guest network, and more.

Swipe the home screen to display system time, network connection, CPU & memory, and weather information.



Tap to display system tools, such as Lock Screen and Firmware Update.



Tap to display the Wi-Fi setting screens, such as Guest Network, WPS, and Wi-Fi On/Off.



Tap to display LED screen and touchscreen settings, such as adjusting the brightness and turning off the screen. When the touchscreen is off, touch it to turn it on.

1.2.2. Back Panel and Side Panel



The following parts are located on the back panel.

Item	Description
Power On/Off Button	Press this button to power on or off the router.
POWER Port	For connecting the router to a power socket via the provided power adapter.
USB 3.0 Port	For connecting your USB storage devices to the router.
USB 2.0 Port	For connecting your USB storage devices to the router.
10Gbps Internet Port ①	The SFP+ Internet port ① and the RJ45 Internet port ① form the combo port. Only one port can be used at a time. RJ45 port: For connecting to your modem, the Ethernet outlet or other internet devices. Used as the WAN or LAN port. SFP+ port: For connecting to your optical module. Used as the WAN or LAN port.
10Gbps Internet Port ②	For connecting to your modem, the Ethernet outlet or other internet devices. Used as the WAN or LAN port.
1Gbps WAN/LAN Port	For connecting your PC or other wired devices to the router.
2.5Gbps WAN/LAN Port (1-4)	For connecting your PC or other wired devices to the router.

■ Note:

The 10Gbps Internet port ① (the combo port), 10Gbps Internet port ②, 2.5Gbps WAN/LAN port, and the 1Gbps WAN/LAN port cannot be used as the WAN port at the same time. If you choose one of the ports as the WAN port for internet service, the other ports will be used as LAN by default. It's recommended to use the RJ45 Internet port 1 in the 10Gbps Combo pair as the WAN port.

Chapter 2

Connect the Hardware

This chapter contains the following sections:

- [Position Your Router](#)
- [Connect Your Router](#)

2.1. Position Your Router

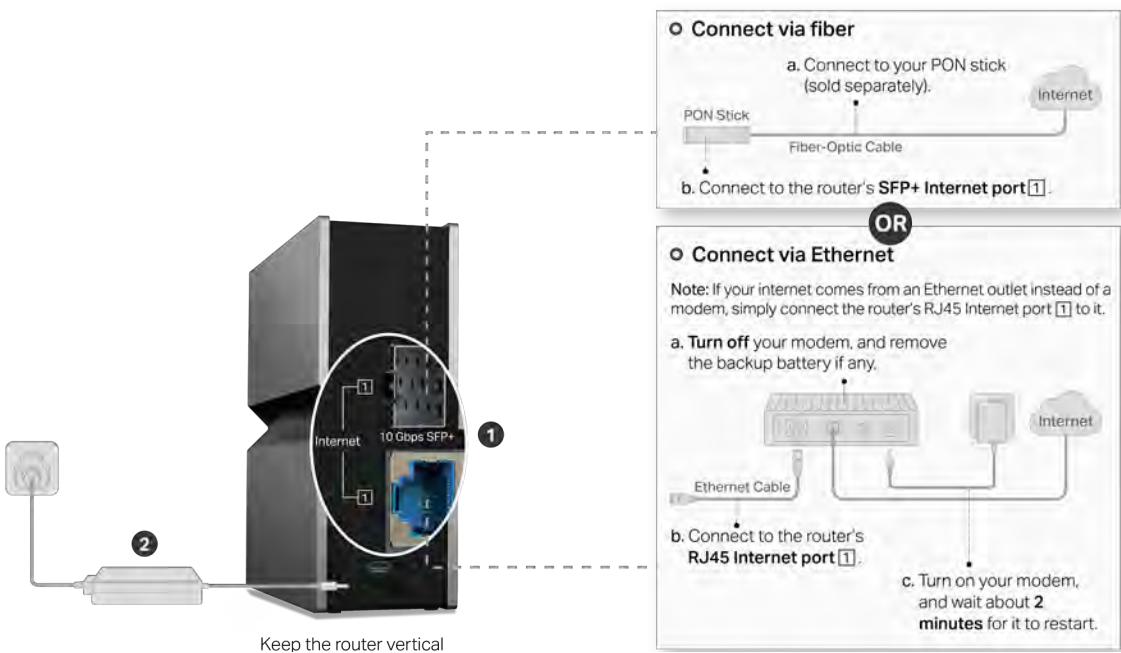
- The product should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to multiple devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create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

2.2. Connect Your Router

1. Connect the router's Internet port **①** to the internet via Ethernet or fiber network.

Note:

Note: If you want to use another port for internet service, go to the Tether app or web management page to configure it.



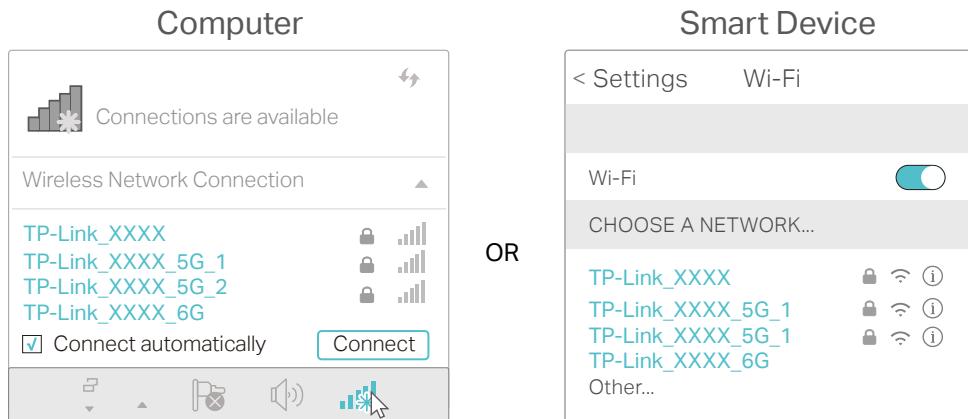
2. Connect the power adapter to the router and turn on the router.
3. Wait until the LED screen cycles through graphics and the touchscreen displays the Tether download screen before moving on.
4. Connect your computer to the router.

- **Method 1: Wired**

Turn off the Wi-Fi on your computer and connect the devices to the LAN port of your router.

- **Method 2: Wirelessly**

- 1) Find the SSIDs (Network Names) and Wireless Password printed on the label at the bottom of the router.
- 2) Click the network icon of your computer or go to Wi-Fi Settings of your smart device, and then select the SSID to join the network.



Chapter 3

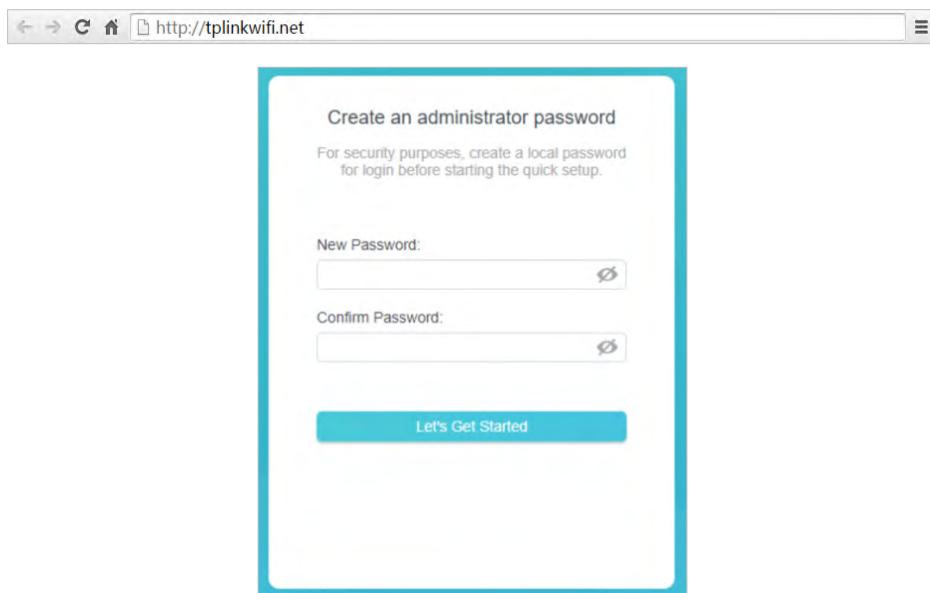
Log In to Your Router

With a web-based utility, it is easy to configure and manage the router. The web-based utility can be used on any Windows, Mac OS or UNIX OS with a Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

Follow the steps below to log in to your router.

1. Set up the TCP/IP Protocol in [Obtain an IP address automatically](#) mode on your computer.
2. Visit <http://tplinkwifi.net>, and create a login password for secure management purposes. Then click [Let's Get Started](#) to log in.

 **Note:** If the login window does not appear, please refer to the [FAQ](#) Section.



Chapter 4

Set Up Internet Connection

This chapter introduces how to connect your router to the internet. The router is equipped with a web-based Quick Setup wizard. It has necessary ISP information built in, automates many of the steps and verifies that those steps have been successfully completed. Furthermore, you can also set up an IPv6 connection if your ISP provides IPv6 service.

It contains the following sections:

- [Use Quick Setup Wizard](#)
- [Quick Setup Via TP-Link Tether App](#)
- [Manually Set Up Your Internet Connection](#)
- [Set Up the Router as an Access Point](#)
- [Set Up an IPv6 Internet Connection](#)

4. 1. Use Quick Setup Wizard

The Quick Setup Wizard will guide you to set up your router.

» **Tips:**

If you need the IPv6 internet connection, please refer to the section of [Set Up an IPv6 Internet Connection](#).

Follow the steps below to set up your router.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Follow the step-by-step instructions to complete Quick Setup configuration or go to [Advanced > Quick Setup](#) for configuration to connect your router to the internet. Then follow the step-by-step instructions to connect your router to the internet.
3. To enjoy a more complete service from TP-Link (remote management, TP-Link DDNS, and more.), log in with your TP-Link ID or click [Sign Up Now](#) to get one. Then follow the instructions to bind the cloud router to your TP-Link ID.

Get TP-Link Cloud Service

Log in to bind the router to your TP-Link ID. You can manage your network remotely via the Tether app, get notified of the latest firmware updates and more.

TP-Link ID (Email):

Password:

LOG IN

Sign Up Now Forgot Password?

SKIP

» **Note:**

- To learn more about the TP-Link Cloud service, please refer to the [TP-Link Cloud Service](#) section.
- If you do not want to register a TP-Link ID now, you may click [Skip](#) to proceed.
- If you have changed the preset wireless network name (SSID) and wireless password during the Quick Setup process, all your wireless devices must use the new SSID and password to connect to the router.

4. 2. Quick Setup Via 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.

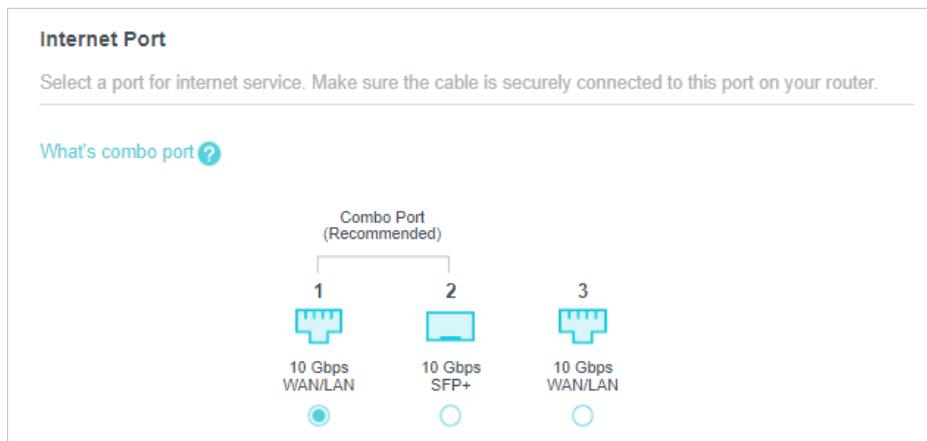
3. Tap the + button and select **Wireless Router**. In **Specific Routers**, find this router and tap it.
4. Follow the steps to complete the setup and connect to the internet.
5. Connect your devices to the newly configured wireless networks of the router and enjoy the internet!

4. 3. Manually Set Up Your Internet Connection

In this part, you can check your current internet connection settings. You can also modify the settings according to the service information provided by your ISP.

Follow the steps below to check or modify your internet connection settings.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Internet**.
3. Select a port for internet service. Make sure the cable is securely connected to this port on your router.



4. Select your internet connection type from the drop-down list.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type:

Select this type if your ISP doesn't provide any information for internet connection.

5. Follow the instructions on the page to continue the configuration. Parameters on the figures are just used for demonstration.

- 1) If you choose **Dynamic IP**, you need to select whether to clone the MAC address. Dynamic IP users are usually equipped with a cable TV or fiber cable.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type:

Select this type if your ISP doesn't provide any information for internet connection.

Set the MAC address of your router. Use the default address unless your ISP allows internet access from only a specific MAC address.

MAC Clone

Router MAC Address:

- 2) If you choose **Static IP**, enter the information provided by your ISP in the corresponding fields.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type:

Select this type if your ISP provides specific IP parameters.

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS:

Secondary DNS: (Optional)

- 3) If you choose **PPPoE**, enter the **username** and **password** provided by your ISP. PPPoE users usually have DSL cable modems.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type:

Select this type if your ISP only provides a username and password.

Username:

Password:  

4) If you choose **L2TP**, enter the **username** and **password** and choose the **Secondary Connection** provided by your ISP. Different parameters are needed according to the Secondary Connection you have chosen.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type:

Select this type if your ISP provides L2TP VPN server information and an account. Some ISPs also provide specific IP parameters.

Username:

Password:  

Dynamic IP
 Static IP

VPN Server IP/Domain Name:

5) If you choose **PPTP**, enter the **username** and **password**, and choose the **Secondary Connection** provided by your ISP. Different parameters are needed according to the Secondary Connection you have chosen.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type: PPTP

Select this type if your ISP provides PPTP VPN server information and an account. Some ISPs also provide specific IP parameters.

Username:

Password:

Dynamic IP

Static IP

VPN Server IP/Domain Name:

6. Click **SAVE**.

Tips:

- If you use **Dynamic IP** and **PPPoE** and you are provided with any other parameters that are not required on the page, please go to **Advanced > Network > Internet** to complete the configuration.
- If you still cannot access the internet, refer to the [FAQ](#) section for further instructions.

4. 4. Set Up the Router as an Access Point

The router can work as an access point, transforming your existing wired network to a wireless one.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > Operation Mode**, select **Access Point** and click **SAVE**.
The router will reboot and switch to Access Point mode.

Operation Mode

Select an operation mode according to your needs.

Wireless Router Mode (Current)

In this mode, the router can provide internet access for multiple wired and wireless devices. This mode is required most commonly.



Access Point Mode

In this mode, the router changes an existing wired (Ethernet) network into a wireless one.



3. After rebooting, connect the router to your existing wired router via an Ethernet cable.
4. Log in again to the web management page <http://tplinkwifi.net>, and go to **Advanced > Quick Setup**.
5. Configure your wireless settings and click **Next**.
6. Confirm the information and click **SAVE**. Now, you can enjoy Wi-Fi.

» Tips:

- Functions, such as Parental Controls, QoS and NAT Forwarding, are not supported in the Access Point mode.
- Functions, such as Guest Network, are the same as those in the Router mode.

4. 5. Set Up an IPv6 Internet Connection

Your ISP provides information about one of the following IPv6 internet connection types: PPPoE, Dynamic IP(SLAAC/DHCPv6), Static IP, 6to4 tunnel, Pass-Through (Bridge).

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > IPv6**.
3. Enable IPv6 and select the internet connection type provided by your ISP.
4. Fill in information as required by different connection types.
 - 1) **Static IP:** Fill in blanks and click **SAVE**.

» Tips:

If you do not know what your internet connection type is, contact your ISP or judge according to the already known information provided by your ISP.

IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type:

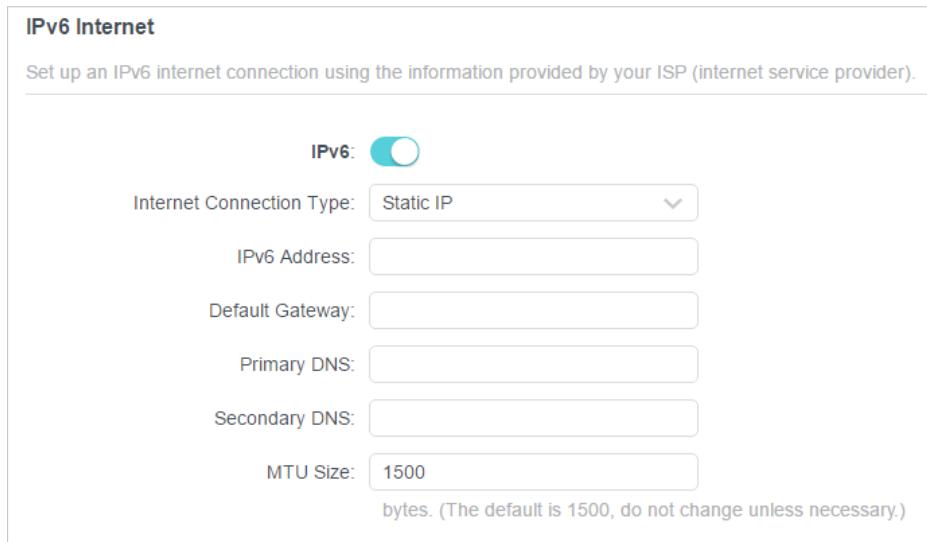
IPv6 Address:

Default Gateway:

Primary DNS:

Secondary DNS:

MTU Size: bytes. (The default is 1500, do not change unless necessary.)



2) **Dynamic IP(SLAAC/DHCPv6):** Click **Advanced** to input further information if your ISP requires. Click **SAVE** and then click **Renew**.

IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type:

IPv6 Address:

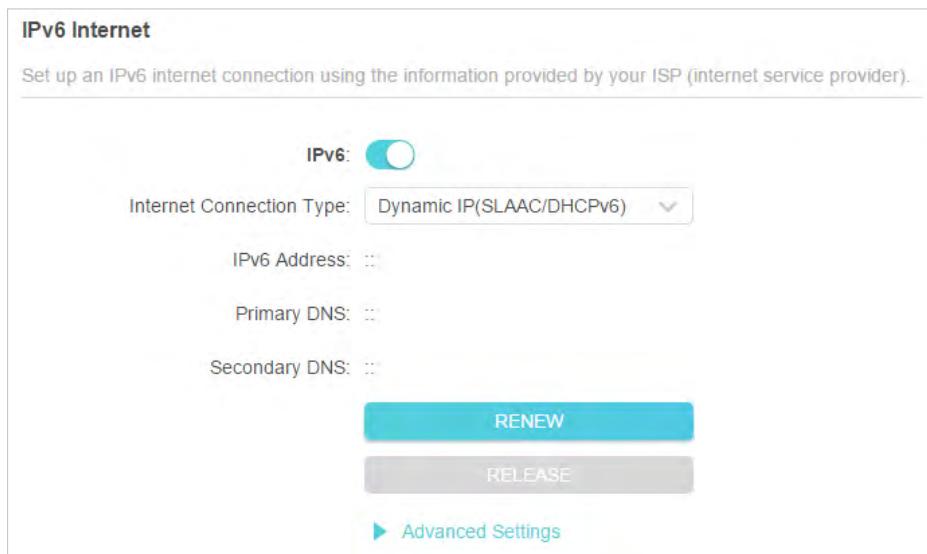
Primary DNS:

Secondary DNS:

RENEW

RELEASE

► **Advanced Settings**



3) **PPPoE:** By default, the router uses the IPv4 account to connect to the IPv6 server. Click **Advanced** to input further information if your ISP requires. Click **SAVE** and then click **Connect**.

 **Note:**

If your ISP provides two separate accounts for the IPv4 and IPv6 connections, manually enter the username and password for the IPv6 connection.

IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type: **PPPoE**

Share the same PPPoE session with IPv4

Username:

Password:

IPv6 Address: ::

► Advanced Settings

CONNECT

DISCONNECT

4) **6to4 Tunnel:** An IPv4 internet connection type is a prerequisite for this connection type ([Manually Set Up Your Internet Connection](#)). Click **Advanced** to input further information if your ISP requires. Click **SAVE** and then click **Connect**.

IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type: **6to4 Tunnel**

IPv4 Address: 0.0.0.0

IPv4 Subnet Mask: 0.0.0.0

IPv4 Default Gateway: 0.0.0.0

TUNNEL ADDRESS: ::

► Advanced Settings

CONNECT

DISCONNECT

5) **Pass-Through (Bridge):** Click **SAVE** and skip to Step 6.

IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type: **Pass-Through (Bridge)**

5. Configure LAN ports. Windows users are recommended to choose from the first two types. Fill in **Address Prefix** provided by your ISP, and click **SAVE**.

IPv6 LAN

Configure the LAN IPv6 address of the router and set the configuration type to assign IPv6 addresses to the clients.

Assigned Type: ND Proxy
 DHCPv6
 SLAAC+Stateless DHCP
 SLAAC+RDNSS

Address Prefix: /64

Address: FE80::20A:EBFF:FE13:7B00/64

6. Click **Status** to check whether you have successfully set up an IPv6 connection.

☞ **Tips:**

Visit the [FAQ](#) section if there is no internet connection.

Chapter 5

TP-Link Cloud Service

TP-Link Cloud service provides a better way to manage your cloud devices. Log in to your router 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 router 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 router, and the Tether app with which you can manage your home network no matter where you may find yourself.

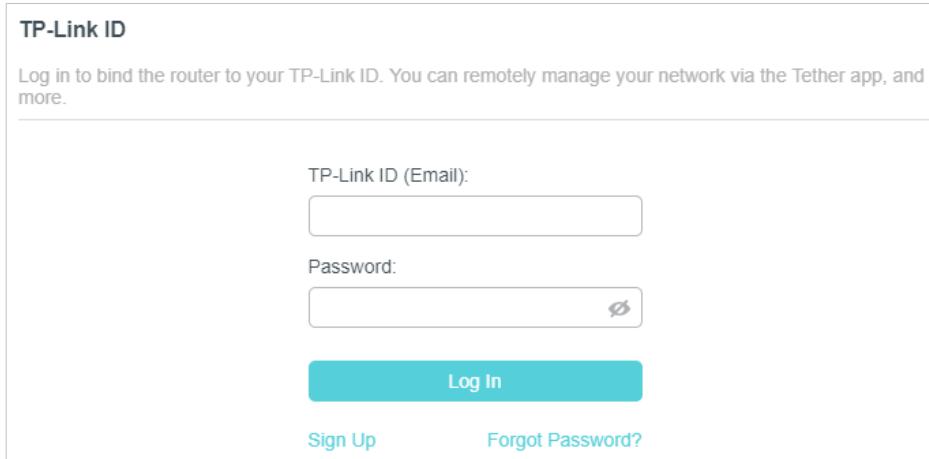
It contains the following sections:

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

5. 1. Register a TP-Link ID

If you have skipped the registration during the Quick Setup process, you can:

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to Advanced > TP-Link ID or click TP-Link ID on the very top 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 router to your TP-Link ID. You can remotely manage your network via the Tether app, and more.

TP-Link ID (Email):

Password:

Forgot Password?

Log In

Sign Up

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 router for the first time will be automatically bound as an **Admin**.

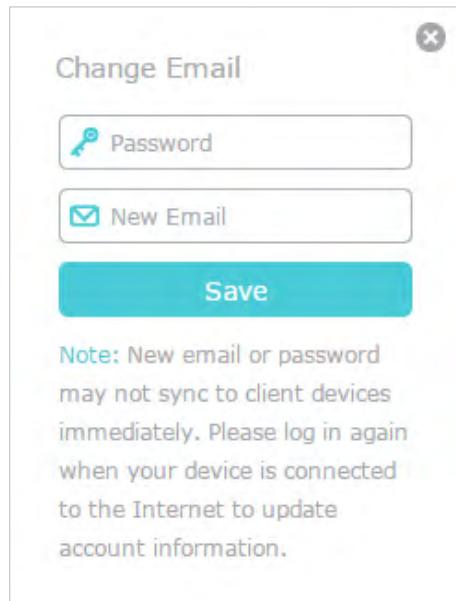
■ Note:

- 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 Router via the TP-Link Tether App](#) to install the app.
- If you want to unbind the admin TP-Link ID from your router, please go to [Advanced > TP-Link ID](#), and click **Unbind** in the [Device Information](#) section.

5. 2. Change Your TP-Link ID Information

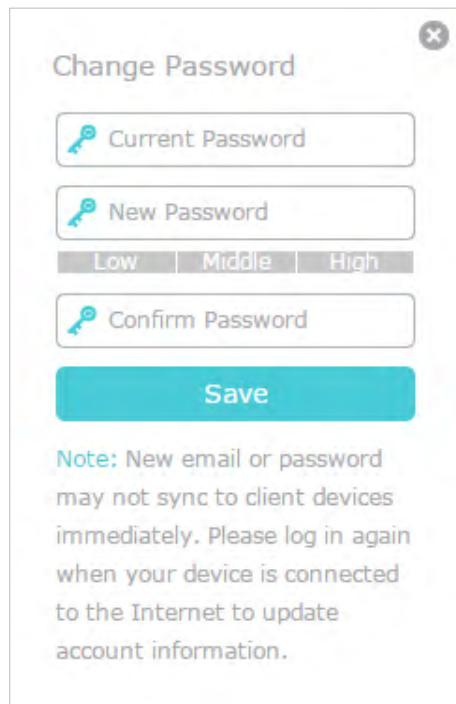
Follow the steps below to change your email address and password of your TP-Link ID as needed.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to Advanced > 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**.



- **To change your password:**

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



5.3. Manage the User TP-Link IDs

The TP-Link ID used to log in to the router 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

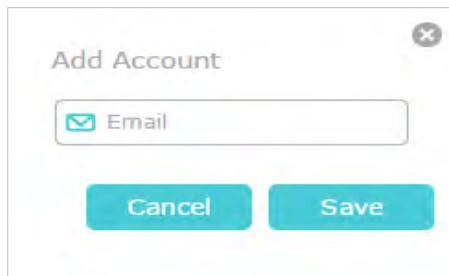
from the same router as **Users**. All accounts can monitor and manage the router locally or remotely, but user accounts cannot:

- Reset the router 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 router.

5.3.1. Add TP-Link ID to Manage the Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to Advanced > 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 Router 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				
 Bind  Unbind				
<input type="checkbox"/>	ID	Email	Binding Date	Role
<input type="checkbox"/>	1	shengyu1_nu@163.com	2018-01-01	Admin
<input type="checkbox"/>	2	shengyu1_yi@163.com	2018-01-01	User

5.3.2. Remove TP-Link ID(s) from Managing the Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to Advanced > 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				
+ Bind - Unbind				
<input type="checkbox"/>	ID	Email	Binding Date	Role
<input type="checkbox"/>	1	shengqiu_163@163.com	2018-01-01	Admin
<input checked="" type="checkbox"/>	2	shengqiu@163.com	2018-01-01	User

5. 4. Manage the Router 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 router's wireless network.
4. Go back to the Tether app, select the model of your router and log in with the password you set for the router.
5. Manage your router as needed.

■ Note: If you need to remotely access your router 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 6

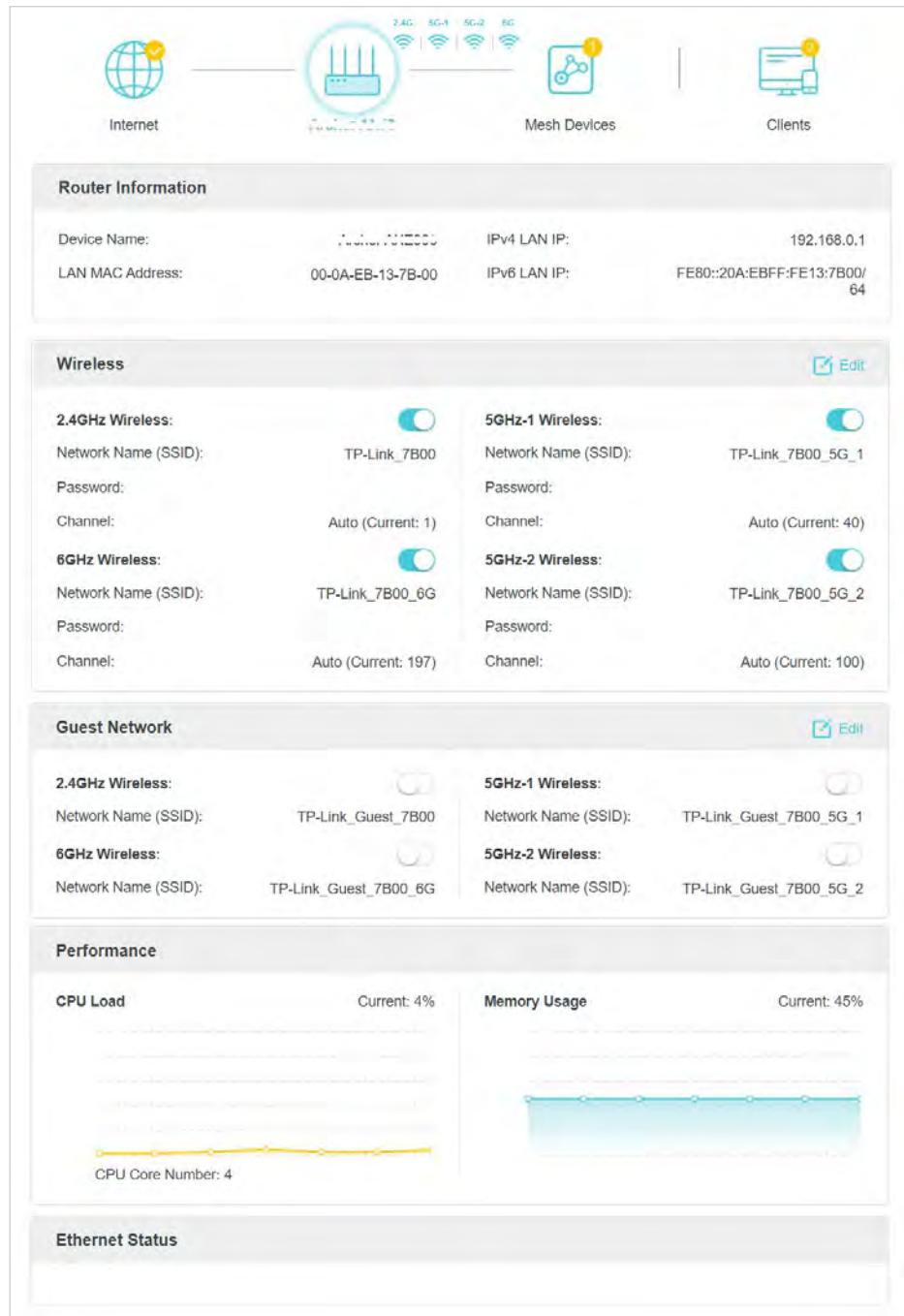
Network Map

Network Map outlines device connectivity of your network visually and helps you manage general settings of the network.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Network Map](#).
3. Click each network device icon to check and manage general network settings.
 - Click [Internet](#) to check internet status.



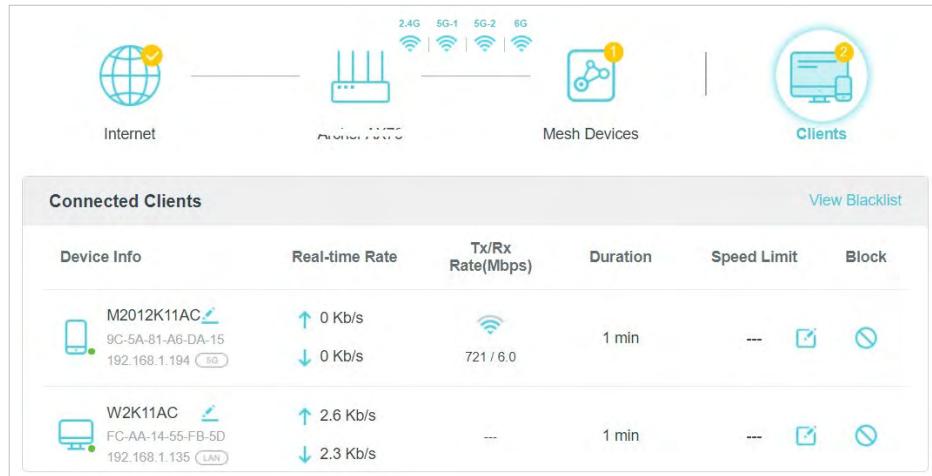
- Click the router to check device status and network settings. You can turn on or off the wireless network or guest network, or click [Edit](#) to change related settings.



- Click **Mesh Devices** to view the devices that form a mesh network with the router.

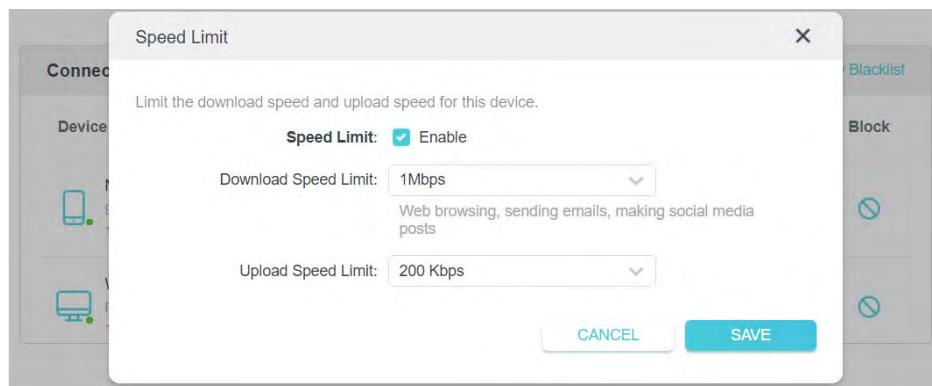


- Click **Clients** to view the client devices in your network. You can block devices so they cannot access your network, or set **Speed Limit** to limit their upload and download speeds.



To limit the speeds of a device:

- Click in the **Speed Limit** column.
- Enable **Speed Limit**.
- Set the download and upload speed limit according to your needs.
- Click **SAVE**. The speeds of the device will be limited.



Chapter 7

Screen Display

Customize the touchscreen and LED screen to intuitively display real-time weather, time, text, emojis, and even your favorite custom content. The touchscreen also simplifies management and gives immediate responses.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Screen Display**.
3. Click **LED Screen** and **Touchscreen** to for detailed introduction.

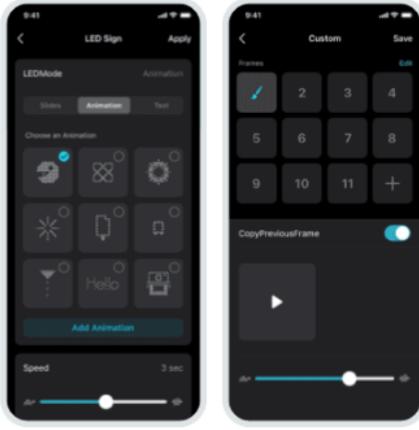
Screen Display

Customize LED Screen and Touchscreen display on the Tether app.

Overview **LED Screen Display** Touchscreen Display

Express yourself with the LED screen

- Supports 3 LED display modes**
3 You can choose to auto display slides, animations, or text on the LED screen appropriate to your needs.
- Easily create your own emojis**
Up to 3000 emojis can be created to show off your personality.
- Auto play your favorite animations**
Easily create your own animations and adjust the play speed to suit your needs.
- Leave your words on the screen**
Write anything you want displayed on the LED screen like reminders and greetings.



DOWNLOAD ON THE  **GET IT ON** 

4. Download TP-Link Tether app to enjoy the fun with the LED screen and touchscreen, also for easy network management.

Chapter 8

Wireless Settings

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

It contains the following sections:

- [Specify Wireless Settings](#)
- [Schedule Your Wireless Function](#)
- [Use WPS for Wireless Connection](#)
- [Advanced Wireless Settings](#)

8. 1. Specify Wireless Settings

The router'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 router. You can customize the wireless settings according to your needs.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Wireless** or **Advanced > Wireless > Wireless Settings**.

Wireless Settings

Personalize settings for each band or enable Smart Connect to configure the same settings for 2.4GHz and 5GHz bands.

2.4GHz: **Enable** [?](#)

Network Name (SSID): [Share Network](#) **Hide SSID**

Security: [Share Network](#)

Password:

Transmit Power:

Channel Width:

Channel:

Mode:

5GHz-1: **Enable** [Share Network](#)

Network Name (SSID): [Share Network](#) **Hide SSID**

Security: [Share Network](#)

Password:

Channel Width:

Channel:

The channel width and channel you've selected will overlap with DFS channels. This will require some waiting time to meet regulatory radar detection requirements.

Mode:

5GHz-2: **Enable** [Share Network](#)

Network Name (SSID): [Share Network](#) **Hide SSID**

Security: [Share Network](#)

Password:

Transmit Power:

Channel Width:

Channel:

Mode:

6GHz: **Enable** [?](#) [Share Network](#)

Network Name (SSID): [Share Network](#) **Hide SSID**

Security: [Share Network](#)

Version: WPA3-SAE

Password:

Transmit Power:

Channel Width:

Channel: **Enable PSC** [?](#)

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 [Advanced > Wireless > Wireless Settings](#).
2. Enable [OFDMA+MU-MIMO](#) or [OFDMA only](#).

- **To enable or disable TWT:**

TWT (Target Wake Time) allows 802.11ax routers 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 [Advanced > 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, while leaving the brand-new 6 GHz band exclusive for your Wi-Fi 6E devices to unleash the most out of the latest Wi-Fi.

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



Smart Connect: Enable [?](#)

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 the wireless function:**

1. Go to [Wireless](#) or [Advanced > 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](#) or [Advanced > 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** or **Advanced** > **Wireless** > **Wireless Settings**.
2. Select **Hide SSID**, and your SSID won't display when you scan for local wireless networks on your wireless device and you need to manually join the network.

- **To change the security option:**

1. Go to **Advanced** > **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 **Advanced** > **Wireless** > **Wireless Settings**.
2. Select an option from the **Transmit Power** drop-down list: **High**, **Middle** or **Low**. The default and recommended setting is **High**.

- **To change channel settings:**

1. Go to **Advanced** > **Wireless** > **Wireless Settings**.
2. Select a **Channel Width** (bandwidth) for the wireless network. It is recommended to just leave it as default.
3. 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.

For the 6 GHz network, you can select the **Enable PSC** checkbox. When PSC (Preferred Scanning Channel) is enabled, only channels with higher connectivity will be reserved to ensure 6 GHz device connections.

- **To change the transmission mode:**

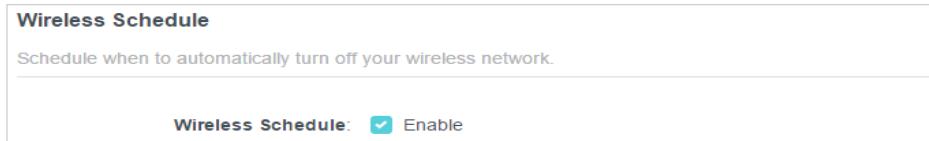
1. Go to **Advanced** > **Wireless** > **Wireless Settings**.
2. For the 2.4 GHz and 5 GHz networks, disable **Smart Connect**, then select a transmission **Mode** according to your wireless client devices. It is recommended to just leave it as default.

8.2. Schedule Your Wireless Function

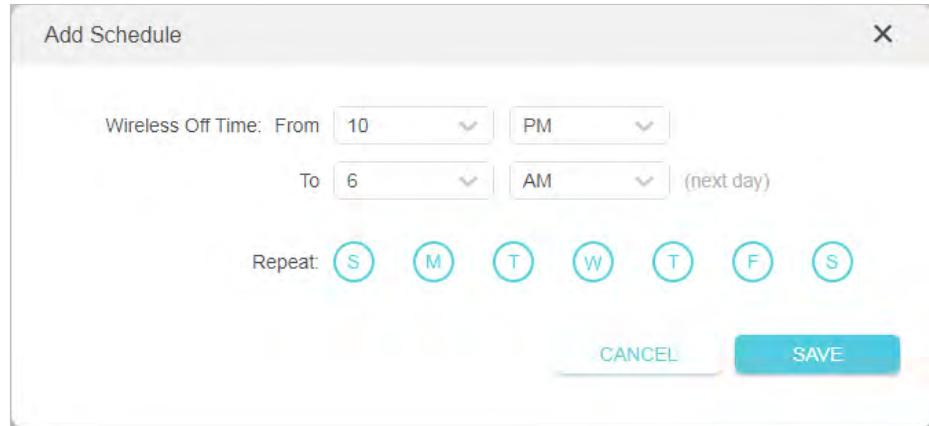
The wireless network can be automatically off at a specific time when you do not need the wireless connection.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced** > **Wireless** > **Wireless Schedule**.

3. Enable the **Wireless Schedule** feature.



4. Click **Add** to specify a wireless off period during which you need the wireless off automatically, and click **SAVE**.



■ **Note:**

- The Effective Time Schedule is based on the time of the router. You can go to [Advanced > System > Time & Language](#) to modify the time.
- The wireless network will be automatically turned on after the time period you set.

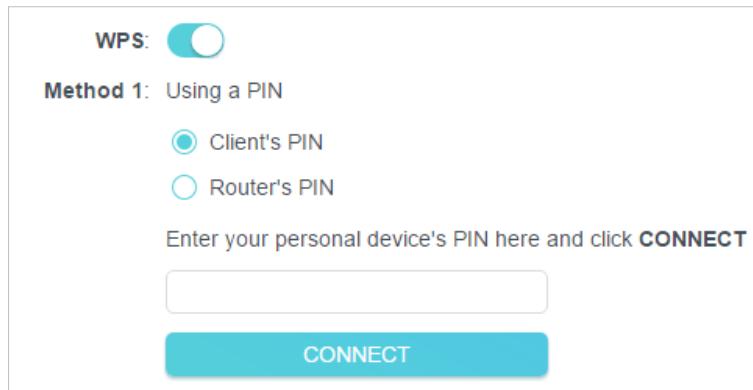
8.3. Use WPS for Wireless Connection

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

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Make sure the Wi-Fi of your router is on and go to [Advanced > Wireless > WPS](#).

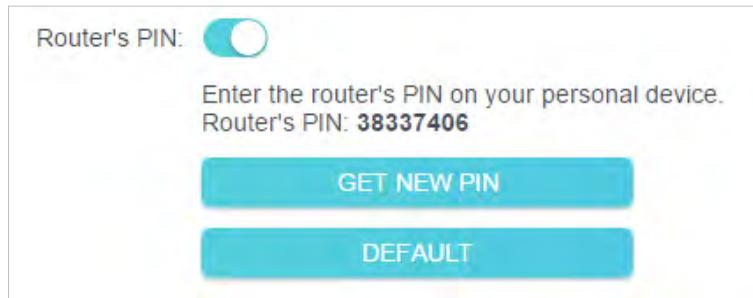
8.3.1. Connect via the Client's PIN

Enter the PIN of your device and click **Connect**. Then your device will get connected to the router.



8.3.2. Connect via the Router's PIN

Select **Router's PIN** in **Method 1** to enable **Router's PIN**. You can use the default PIN or generate a new one.



■ **Note:**

PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is printed on the label of the router.

8.3.3. Push the WPS Button

Click **Start** on the screen or directly press the router's WPS button on the touchscreen. Within two minutes, enable WPS on your personal device. **Success** will appear on the screen and the WPS LED of the router should change from flashing to solid on, indicating successful WPS connection.

Method 2: Using the button below

Click the button below, then enable WPS on your personal device within 2 minutes.

**Method 3:** Using the router's WPS button

Press the router's WPS button, then enable WPS on your personal device within 2 minutes.

8.4. Advanced Wireless Settings

Check advanced wireless settings for your device.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Wireless > Additional Settings**.
3. Configure advanced wireless settings.

Additional Settings

Check advanced wireless settings for your device.

WMM: Enable

AP Isolation: Enable

Airtime Fairness: Enable

Zero Wait DFS: Enable

Beacon Interval:

RTS Threshold:

DTIM Interval:

Group Key Update Period: s

- **WMM** - WMM 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.
- **Zero Wait DFS** - Zero Wait DFS (Dynamic Frequency Selection) allows the router to immediately reselect a new channel once the radar signal is detected on a channel allocated to radar devices to ensure lag-free network experience.
- **Beacon Interval** - Enter a value between 40 and 1000 in milliseconds to determine the duration between beacon packets that are broadcasted by the router 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 through the router. By default, the RTS (Request to Send) Threshold size is 2346. If the packet size is greater than the preset threshold, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame.
- **DTIM Interval** - The value determines the interval of DTIM (Delivery Traffic Indication Message). Enter a value between 1 and 15 intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- **Group Key Update Period** - Enter a number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default value is 0, meaning no key renewal.

Chapter 9

Guest Network

This function allows you to provide Wi-Fi access for guests without disclosing your main network. When you have guests in your house, apartment, or workplace, you can create a guest network for them. In addition, you can customize guest network options to ensure network security and privacy.

It contains the following sections:

- [Create a Network for Guests](#)
- [Customize Guest Network Options](#)

9.1. Create a Network for Guests

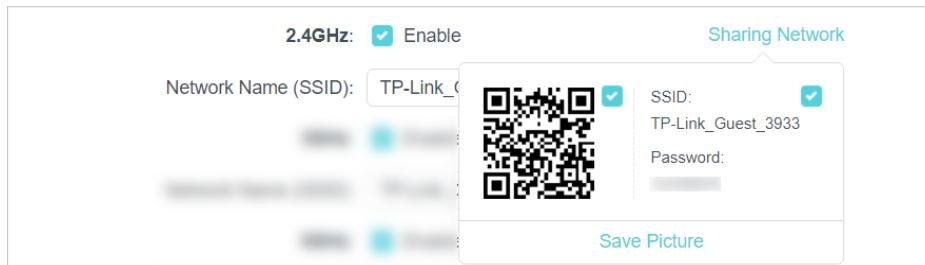
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Wireless > Guest Network** or click **Wireless** on the top page. Locate the **Guest Network** section.
3. Create a guest network as needed.
 - 1) Tick the **Enable** checkbox for the 2.4GHz, 5 GHz-1, 5GHz-2 or 6GHz wireless network.
 - 2) Customize the SSID. Don't select **Hide SSID** unless you want your guests to manually input the SSID for guest network access.
 - 3) Enable Bandwidth Control if you want to limit the network speed of your guests. Then enter the limited bandwidth value.
 - 4) Set the effective time to keep the guest network.
 - 5) Select the **Security** type and customize your own password. If **No security** is selected, no password is needed to access your guest network.

Guest Network

Enable the wireless bands you want your guests to use and complete the related information.

2.4GHz:	<input checked="" type="checkbox"/> Enable	Share Network
Network Name (SSID):	TP-Link_Guest_7B00	<input type="checkbox"/> Hide SSID
Bandwidth Control:	<input checked="" type="checkbox"/> Enable	
Download Bandwidth:	10	Mbps
Upload Bandwidth:	2	Mbps
5GHz-1:	<input type="checkbox"/> Enable	Share Network
5GHz-2:	<input type="checkbox"/> Enable	Share Network
6GHz:	<input type="checkbox"/> Enable	Share Network
Effective Time:	No Limit	
Security:	No Security	
This security type is not considered secure. Consider selecting a more secure encryption.		

4. Click **SAVE**. Now your guests can access your guest network using the SSID and password you set!
5. You can also click **Sharing Network** to share the SSID and password to your guests.

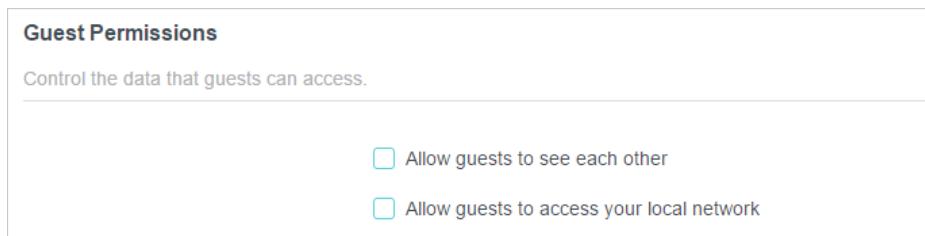


🕒 Tips:

To view guest network information, go to [Network Map](#) and locate the **Guest Network** section. You can turn on or off the guest network function conveniently.

9.2. Customize Guest Network Options

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced > Wireless > Guest Network](#). Locate the **Guest Permissions** section.
3. Customize guest network options according to your needs.



- [Allow guests to see each other](#)

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with each other via methods such as network neighbors and Ping.

- [Allow guests to access your local network](#)

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with the devices connected to your router's LAN ports or main network via methods such as network neighbors and Ping.

4. Click **SAVE**. Now you can ensure network security and privacy!

Chapter 10

IoT Network

This feature further secures your home network by allowing you to create a dedicated wireless network to manage your IoT devices together, such as smart lights and cameras.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Wireless > IoT Network**.
3. Create an IoT network as needed.
 - 1) Tick the **Enable** checkbox for the 2.4GHz, 5 GHz-1, or 5GHz-2 wireless network. For 5 GHz-1 and 5GHz-2 IoT networks, make sure your IoT devices can connect to a 5 GHz network.
 - 2) Customize the **SSID**. Don't select **Hide SSID** unless you want your IoT devices to manually input the SSID for network access.
 - 3) Select the **Security** type and customize your own password. If **No security** is selected, no password is needed to access the IoT network.

IoT Network

Create a dedicated wireless network to manage your IoT devices together, such as smart lights and cameras.

<p>2.4GHz: <input checked="" type="checkbox"/> Enable</p> <p>Network Name (SSID): <input type="text" value="TP-Link_IoT_"/></p> <p>Security: <input type="button" value="WPA2-PSK[AES]+WPA-PSK[TK]"/></p> <p>Password: <input type="text" value="12345678"/></p>	<p>Share Network</p> <p><input type="checkbox"/> Hide SSID</p>
<p>5GHz-1: <input checked="" type="checkbox"/> Enable</p> <p>Make sure your IoT devices can connect to a 5 GHz network.</p> <p>Network Name (SSID): <input type="text" value="TP-Link_IoT_5G_1"/></p> <p>Security: <input type="button" value="WPA2-PSK[AES]+WPA-PSK[TK]"/></p> <p>Password: <input type="text" value="12345678"/></p>	
<p>5GHz-2: <input checked="" type="checkbox"/> Enable</p> <p>Make sure your IoT devices can connect to a 5 GHz network.</p> <p>Network Name (SSID): <input type="text" value="TP-Link_IoT_5G_2"/></p> <p>Security: <input type="button" value="WPA2-PSK[AES]+WPA-PSK[TK]"/></p> <p>Password: <input type="text" value="12345678"/></p>	

4. Click **SAVE**. Now you can connect your IoT devices to the dedicated IoT network.
5. You can also click **Sharing Network** to share the SSID and password to others.

Chapter 11

USB Settings

This chapter describes how to use the USB ports to share files and media from the USB storage devices over your home network locally, or remotely through the internet.

The router supports USB external flash drives and hard drives.

It contains the following sections:

- [Access the USB Storage Device](#)
- [Media Sharing](#)
- [Time Machine](#)

11.1. Access the USB Storage Device

Insert your USB storage device into the router's USB port and then access files stored there locally or remotely.

⌚ Tips:

- If you use USB hubs, make sure no more than 4 devices are connected to the router.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32, exFat, NTFS or HFS+.
- Before you physically disconnect a USB device from the router, safely remove it to avoid data damage: Go to [Advanced](#) > [USB](#) > [USB Storage Device](#) and click [Remove](#).

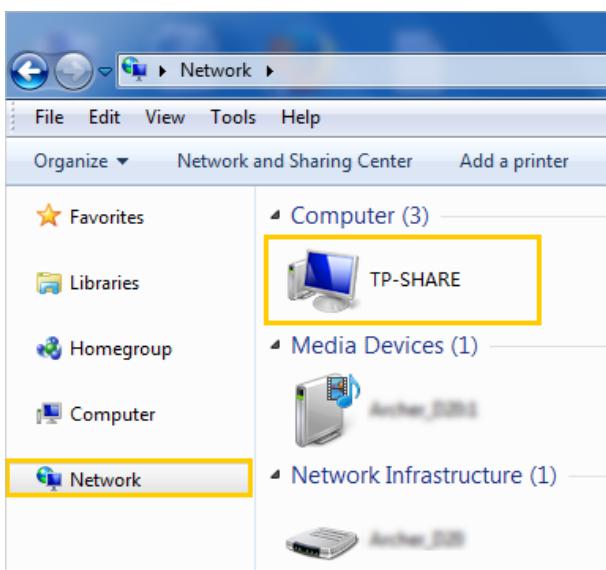
11.1.1. Access the USB Device Locally

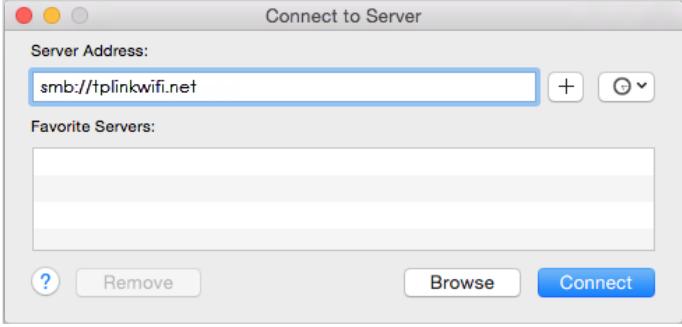
Insert your USB storage device into the router's USB port and then refer to the following table to access files stored on your USB storage device.

Windows computer

- **Method 1:**
Go to [Computer](#) > [Network](#), then click the Network Server Name (**TP-SHARE** by default) in the [Computer](#) section.

■ Note:
Operations in different systems are similar. Here we take Windows 7 as an example.



Windows computer	<ul style="list-style-type: none">Method 2: <p>Open the Windows Explorer (or go to Computer) and type the server address <code>\tplinkwifi.net</code> or <code>ftp://tplinkwifi.net</code> in the address bar, then press Enter.</p> 
Mac	<ol style="list-style-type: none">1) Select Go > Connect to Server.2) Type the server address <code>smb://tplinkwifi.net</code>.3) Click Connect.  <ol style="list-style-type: none">4) When prompted, select the Guest radio box. (If you have set up a username and a password to deny anonymous access to the USB disks, you should select the Registered User radio box. To learn how to set up an account for the access, refer to To Set Up Authentication for Data Security.)
Tablet	Use a third-party app for network files management.

🕒 Tips:

You can also access your USB storage device by using your Network/Media Server Name as the server address. Refer to [To Customize the Address of the USB Storage Device](#) to learn more.

11.1.2. Access the USB Device Remotely

You can access your USB disk outside the local area network. For example, you can:

- Share photos and other large files with your friends without logging in to (and paying for) a photo-sharing site or email system.
- Get a safe backup for the materials for a presentation.
- Remove the files on your camera's memory card from time to time during the journey.

■ Note:

If your ISP assigns a private WAN IP address (such as 192.168.x.x or 10.x.x.x), you cannot use this feature because private addresses are not routed on the internet.

Follow the steps below to configure remote access settings.

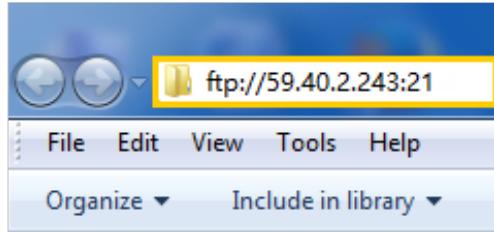
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > USB > USB Storage Device**.
3. Tick the **Internet FTP** checkbox, and then click **SAVE**.

Access Method

Select the method for accessing your USB storage device. The device can then be reached via the access address.

Enable	Access Method	Address	Port
<input checked="" type="checkbox"/>	Samba for Windows	\TP-Share	---
<input checked="" type="checkbox"/>	Local FTP	ftp://192.168.0.1:21	21
<input checked="" type="checkbox"/>	Internet FTP	ftp://0.0.0.0:21 Set DDNS	21

4. Refer to the following table to access your USB disk remotely.

Computer	<ol style="list-style-type: none"> 1) Open the Windows Explorer (or go to Computer, only for Windows users) or open a web browser. 2) Type the server address in the address bar: Type in ftp://<WAN IP address of the router>:<port number> (such as ftp://59.40.2.243:21). If you have specified the domain name of the router, you can also type in ftp://<domain name>:<port number> (such as ftp://MyDomainName:21)  <ol style="list-style-type: none"> 3) Press Enter on the keyboard. 4) Access with the username and password you set in To Set Up Authentication for Data Security. <p>⌚ Tips: You can also access the USB disk via a third-party app for network files management, which can resume broken file transfers.</p>
Tablet	Use a third-party app for network files management.

⌚ Tips:

Click [Set Up a Dynamic DNS Service Account](#) to learn how to set up a domain name for your router.

11.1.3. Customize the Access Settings

By default, all the network clients can access all folders on your USB disk. You can customize your sharing settings by setting a sharing account, sharing specific contents and setting a new sharing address on the router's web management page.

1. Visit [http://tplinkwifi.net](#), and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced > USB > USB Storage Device](#).

- **To Customize the Address of the USB Storage Device**

You can customize the server name and use the name to access your USB storage device.

1. In the [Access Method](#) session, make sure [Samba for Windows](#) is ticked, and enter a [Network/Media Server Name](#) as you like, such as [MyShare](#), then click [SAVE](#).

Access Method

Select the method for accessing your USB storage device. The device can then be reached via the access address.

Network/Media Server Name:

Enable	Access Method	Address	Port
<input checked="" type="checkbox"/>	Samba for Windows	\\\TP-Share	---
<input checked="" type="checkbox"/>	Local FTP	ftp://192.168.0.1:21	21
<input type="checkbox"/>	Internet FTP	ftp://0.0.0.0:21	Set DDNS <input type="text" value="21"/>

2. Now you can access the USB storage device by visiting <\\MyShare> (for Windows) or <smb://MyShare> (for Mac).

- **To Only Share Specific Content**

Focus on the [File Sharing](#) section. Specify sharing folders that you want to share and click [SAVE](#).

Sharing Contents:

Share Selected Folders

G:/Document
 G:/Pictures

- **To Set Up Authentication for Data Security**

You can set up authentication for your USB storage device so that network clients will be required to enter username and password when accessing the USB storage device.

1. In the [File Sharing](#) section, enable [Secure Sharing](#).

Secure Sharing			
Customize the access settings to ensure data security.			
Username	Password	Permissions	Modify
admin	 Read&Write	<input checked="" type="checkbox"/>
visit	 Read	<input checked="" type="checkbox"/>

- Click to modify the access account. The username and password are both **admin** for default administrator account, and both **visit** for default visitor account. Accessing as an administrator can read and modify the shared folders while visitors can only read the shared folders.

 Note:

- For Windows users, do not set the sharing username the same as the Windows username. Otherwise, Windows credential mechanism may cause the following problems:
 - If the sharing password is also the same as the Windows password, authentication will not work since the Windows will automatically use its account information for USB access.
 - If the sharing password is different from the Windows password, the Windows will be unable to remember your credentials and you will always be required to enter the sharing password for USB access.
- Due to Windows credential mechanism, you might be unable to access the USB disk after changing Authentication settings. Please log out from the Windows and try to access again. Or you can change the address of the USB disk by referring to [To Customize the Address of the USB Storage Device](#).

11.2. Media Sharing

The feature of **Media Sharing** allows you to view photos, play music and watch movies stored on the USB storage device directly from DLNA-supported devices, such as your computer, tablet and PS2/3/4.

- Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
- Go to **Advanced > USB > USB Storage Device**.
- Enable **Media Sharing**.

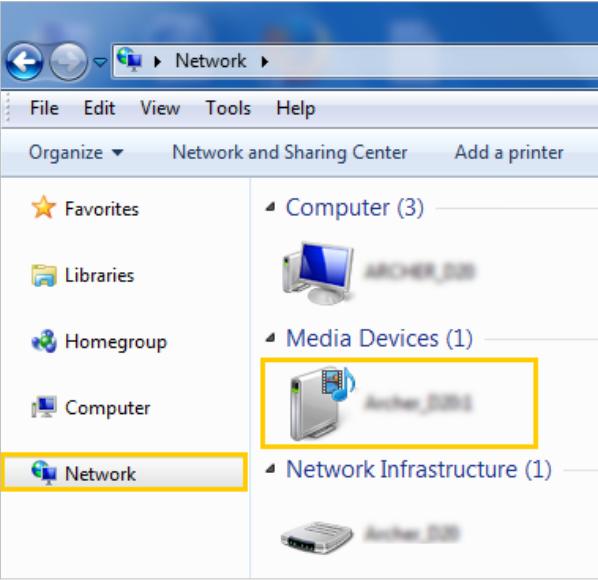
Media Sharing	
View photos, play music and watch movies stored on the USB storage device via the access address.	
Media Sharing:	<input checked="" type="checkbox"/>

- When your USB storage device is inserted into the router, your DLNA-supported devices (such as your computer and pad) connected to the router can detect and play the media files on the USB storage devices.
- Refer to the following table for detailed instructions.

Windows Computer

- Go to **Computer > Network**, then click the Media Server Name (**Model number-share** by default) in the **Media Devices** section.

■ Note:
Here we take Windows 7 as an example.



Tablet

- Use a third-party DLNA-supported player.

11.3. Time Machine

Time Machine backs up all files on your Mac computer to a USB storage device connected to your router.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > USB > Time Machine**.

Time Machine

Back up all files on your Mac to a USB storage device connected to your router.

Time Machine: **Enable**

Backup Location: ---
● Please select a location for Time Machine backups

SELECT

Storage Limit for Backups: GB
(Enter "0" for no limit.)

3. Tick the checkbox to enable **Time Machine**.
4. Click **Select** to select a location for Time Machine backups.
5. Set the **Size Limit for Backups**.
Note: 0 means no limit for the space.
6. Click **SAVE**.

Chapter 12

HomeShield

Customize your home network with enhanced security using a kit of features built in TP-Link HomeShield. Whether protecting your sensitive data or limiting the access of kids and guests, TP-Link HomeShield provides you the tools you need to fully manage your network.

It contains the following sections:

- [Network Check](#)
- [Parental Controls](#)
- [QoS](#)
- [More Features](#)

*For an easier way to check your home network protection system, you can download the Tether app to enjoy full Homeshield Pro feature.

12.1. Network Check

Scan your whole network to help analyze and optimize your network.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to Advanced > HomeShield > Network Check.
3. Click **SCAN**.
4. Optimize your network according to the tips.

Network Check

Check your network for better network performance and security.

The following items can be optimized.



 Network Security	1 risk
 Network Performance	To be optimized

Network Security 

DMZ	
Port Triggering	
Port Forwarding	
Guest Network	

Wi-Fi Password  

 Wi-Fi password is not strong. It is recommended to use a combination of English letters, numbers, and symbol for the password.

Firmware Version	
------------------	---

Network Performance

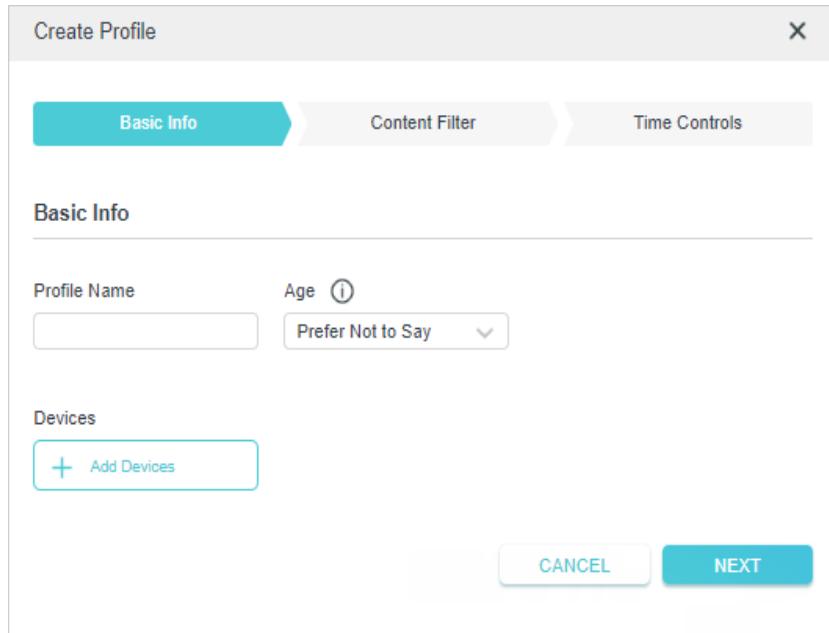
Wi-Fi Interference	
--------------------	---

 Wi-Fi Interference is high.

12.2. Parental Controls

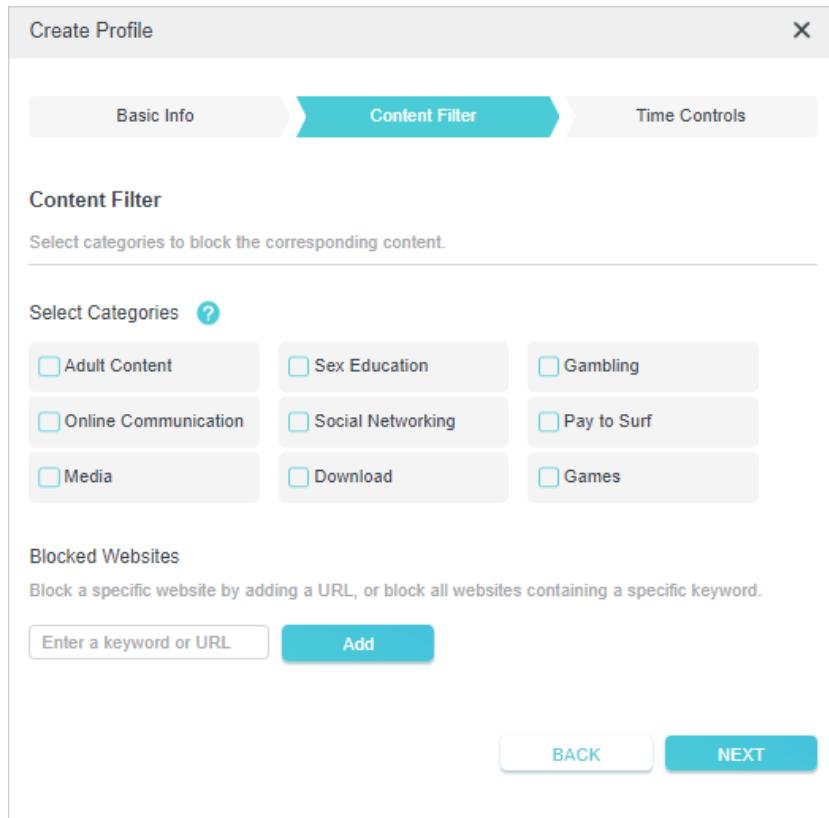
Parental Controls allows you to set up unique restrictions on internet access for each member of your family. You can block inappropriate content, set daily limits for the total time spent online and restrict internet access to certain times of the day.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > HomeShield > Parental Controls**.
3. Click  **Add** to create a profile for a family member.
4. Add basic profile information.

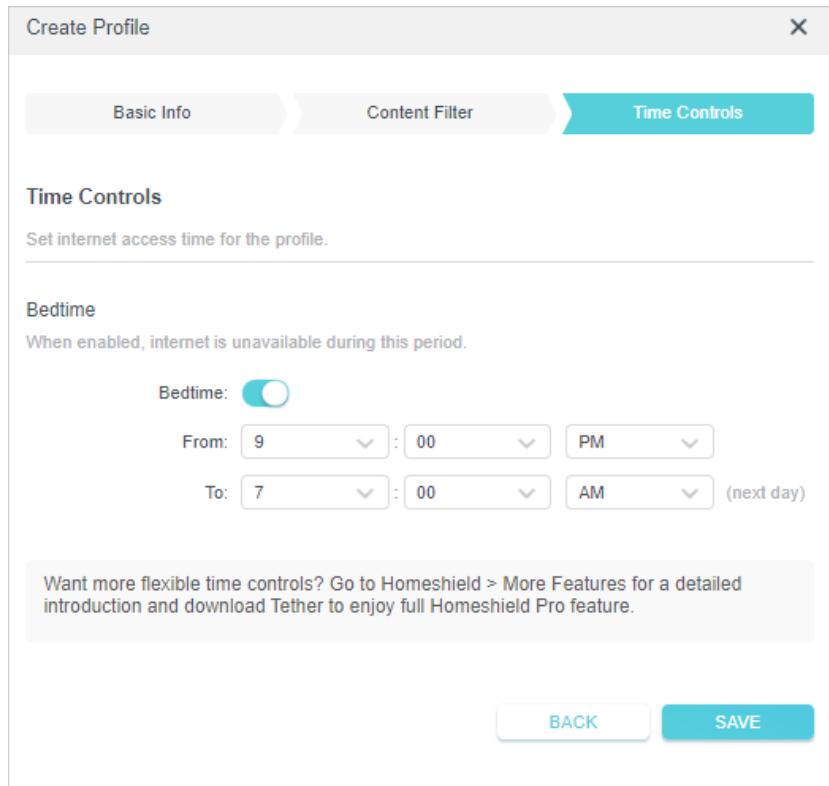


- 1) Enter a **Name** for the profile to make it easier to identify. Set the age to get the corresponding filter level.
- 2) Under **Devices**, click .
- 3) Select the devices that belong to this family member. Access restrictions will be applied to these devices. Click **Add** when finished.
Note: Only devices that have previously been connected to your router's network are listed here. If you are unable to find the device you want to add, connect it to your network and then try again.
- 4) Click **NEXT**

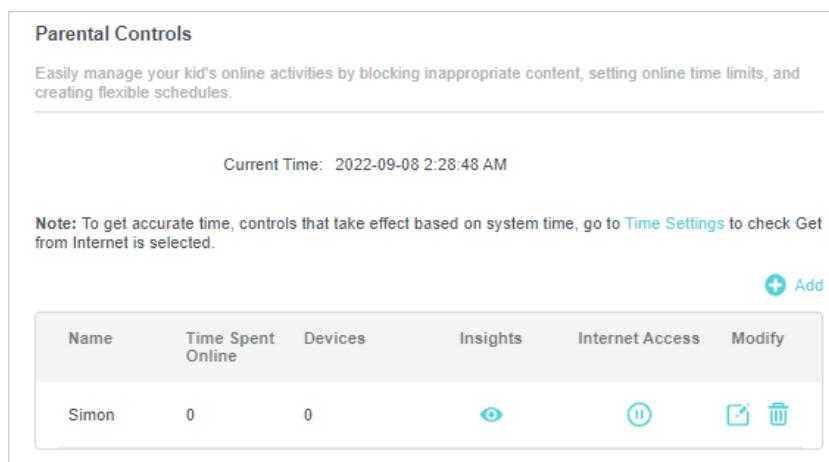
5. Block content for this profile.



- 1) Select the content categories to block in the **Content Filter** list.
- 2) You can also block a specific website. Enter a keyword (for example, "Facebook") or a URL (for example, "www.facebook.com"), then click **Add**.
- 3) Click **NEXT**.
6. Set time restrictions on internet access.



- 4) Enable **Bed Time** and use the up/down arrows or enter times in the fields. Devices under this profile will be unable to access the internet during this time period.
- 5) Click **SAVE**.
- 6) After adding a profile, you can click the **Insight** icon to check the detailed visited history, and click **||** the pause the network for this profile anytime.



Note: You can go to **Advanced > HomeShield > More Features** for a detailed introduction and download Tether to enjoy full Homeshield Pro feature.

12.3. QoS

QoS (Quality of Service) allows you to prioritize connection of specific devices for a set duration. Devices set as high priority will be allocated more bandwidth and so continue to run smoothly even when there is heavy traffic on the network.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > HomeShield > QoS**.
3. Enable **QoS** to set the total bandwidth. Then click **SAVE**.
4. Enable **High Priority** for the desired device and set its effective time.

Global Settings
Prioritize the Internet traffic of specific device to guarantee a faster connection.

QoS: Enable

Download Bandwidth: 1000 Mbps

Upload Bandwidth: 1000 Mbps

Device Priority

Type	Information	Real-time Rate	Traffic Usage	High Priority	Timing
	UNKNOWN (LAN) FC-34-97-BC-F9-34	0 Kb/s 0 Kb/s	0KB	<input checked="" type="checkbox"/>	Always
	UNKNOWN (LAN) 50-9A-4C-4C-D4-8D	0 Kb/s 0 Kb/s	0KB	<input checked="" type="checkbox"/>	2 hours 1 h 59 min Remaining

12.4. More Features

Download the Tether app and subscribe to enjoy the full features of HomeShield.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > HomeShield > More Features**.
3. Follow the web instructions to get full features of HomeShield.

More Features

Download the Tether app and subscribe to enjoy the full features of HomeShield.

Start your 30-day free trial on Tether

[Compare Basic and Pro Features](#)

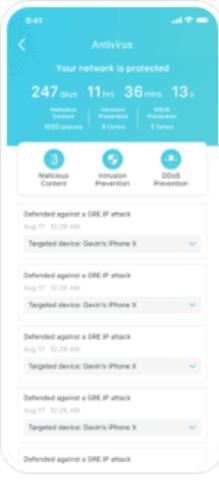
   

Search Tether  Scan for Tether 

[Real-Time Protection](#) [Parental Controls](#) [Usage Analysis](#)

Detect and identify cyber threats to keep your privacy and connected devices protected.

-  **IoT Protection**
Get real-time security for your Internet of Things
-  **Intrusion Prevention System**
Identifies and blocks network intruders
-  **Malicious Content Filter**
Blocks malicious content
-  **DDoS Protection**
Protects your home network from DDoS attacks



Chapter 13

EasyMesh with Seamless Roaming

This product is compatible with EasyMesh. This chapter introduces the EasyMesh feature.

It contains the following sections:

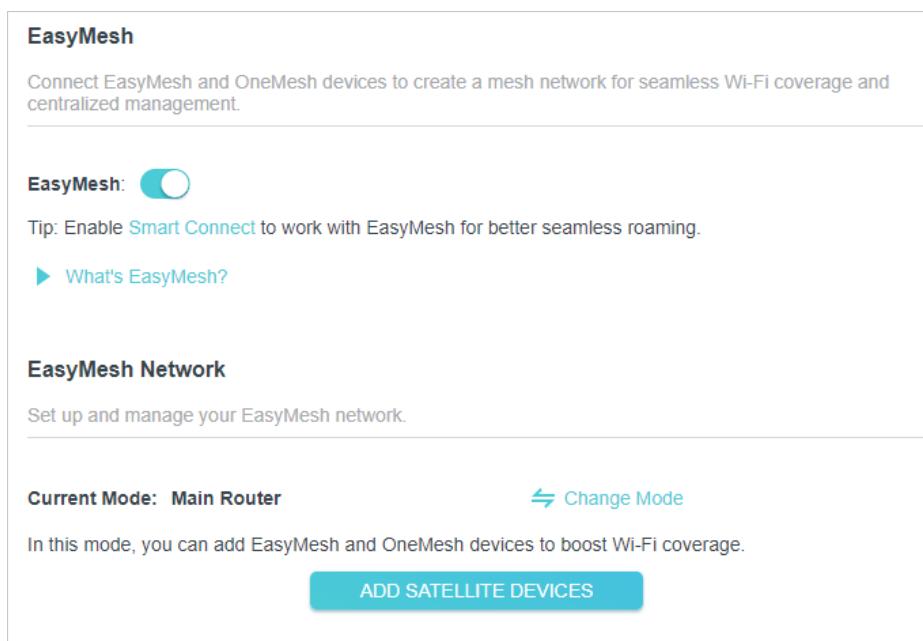
- [Add a Router as a Satellite Device](#)
- [Add a Range Extender as a Satellite Device](#)
- [Manage Devices in the EasyMesh Network](#)

EasyMesh routers and extenders work together to form one unified Wi-Fi network. Walk through your home and stay connected with the fastest possible speeds thanks to EasyMesh's seamless coverage.

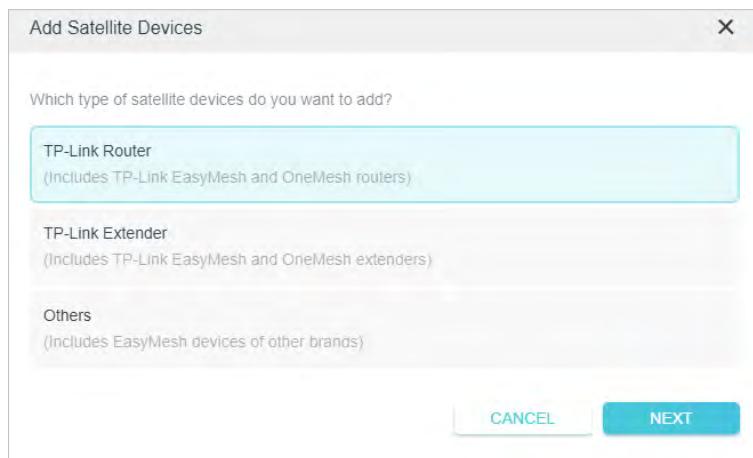
■ Note: Routers and range extenders must be compatible with EasyMesh or OneMesh™. Firmware upgrades may be required.

13. 1. Add a Router as a Satellite Device

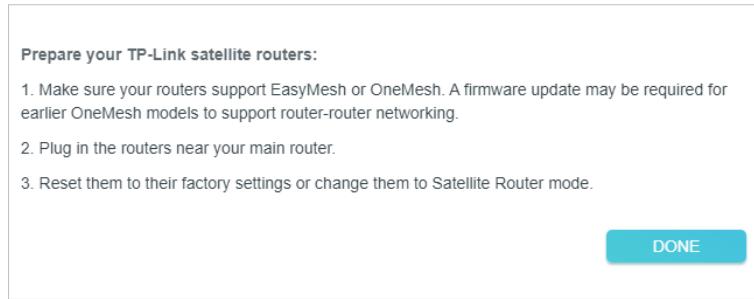
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > EasyMesh**, and enable **EasyMesh**.



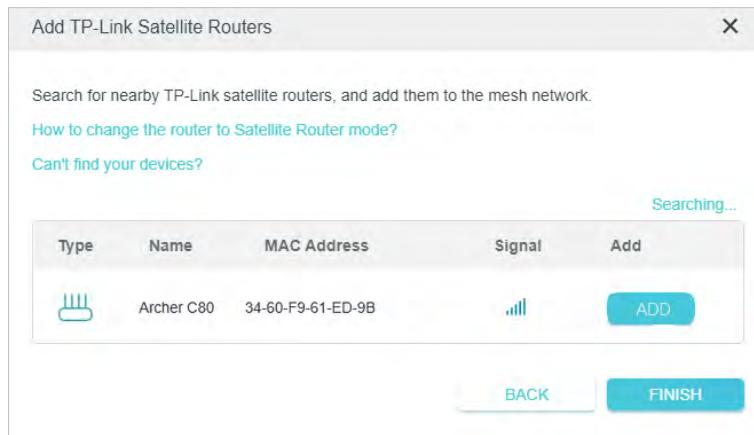
3. Click **ADD SATELLITE DEVICES**, select **TP-Link Router**, then click **NEXT**.



4. Follow the page instructions to prepare your satellite router, then click **DONE**.



5. Click **ADD**. When prompted "This device has been added successfully", click **OK**, then click **FINISH**.



13.2. Add a Range Extender as a Satellite Device

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to Advanced > EasyMesh, and enable EasyMesh.

EasyMesh

Connect EasyMesh and OneMesh devices to create a mesh network for seamless Wi-Fi coverage and centralized management.

EasyMesh: 

Tip: Enable [Smart Connect](#) to work with EasyMesh for better seamless roaming.

► [What's EasyMesh?](#)

EasyMesh Network

Set up and manage your EasyMesh network.

Current Mode: Main Router 

In this mode, you can add EasyMesh and OneMesh devices to boost Wi-Fi coverage.

[ADD SATELLITE DEVICES](#)

3. Plug in the extender next to the main router.
4. Within 2 minutes, press the WPS button on main router and on the extender. Wait until the WPS process is complete.
5. Done! You can check the mesh device on the router's web page too.

EasyMesh

Connect EasyMesh and OneMesh devices to create a mesh network for seamless Wi-Fi coverage and centralized management.

EasyMesh: 

Tip: Enable [Smart Connect](#) to work with EasyMesh for better seamless roaming.

► [What's EasyMesh?](#)

EasyMesh Network

Set up and manage your EasyMesh network.

Current Mode: Main Router 

In this mode, you can add EasyMesh and OneMesh devices to boost Wi-Fi coverage.

Note: TP-Link satellite routers will follow the main router's [LED Control](#) Settings.

Satellite Devices: 1

Device Info	IP Address	Location	Clients	Connection	Modify
 Air_E5 00-AA-EB-07-20-66	192.168.0.22	Not set	0		 

[ADD SATELLITE DEVICES](#)

13.3. Manage Devices in the EasyMesh Network

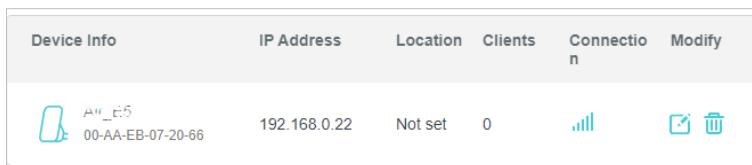
In an EasyMesh network, you can manage all mesh devices and connected clients on your main router's web page.

- **To view mesh devices and connected clients in the network:**

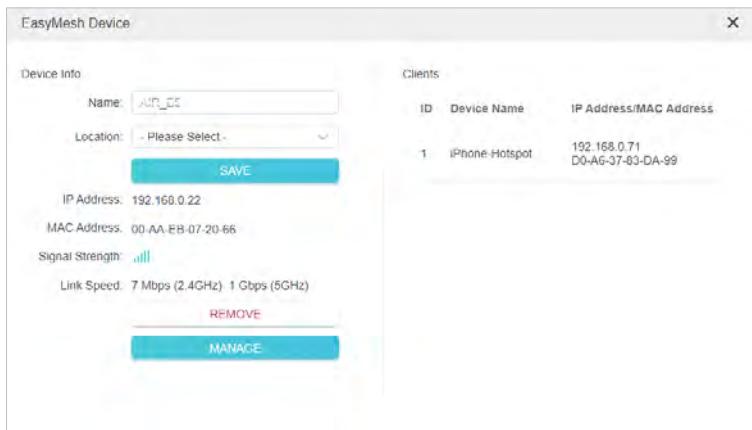
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Network Map**.
3. Click  to view all mesh devices, and click  to view all connected clients.

- **To manage an EasyMesh device in the network:**

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > EasyMesh**.



3. Click the **Modify** button to view detailed information and change its settings.



- Change device information.
- Click **Manage** to redirect to the web management page of this device.
- Click **Remove** to delete this device from the EasyMesh network.

Chapter 14

Network Security

This chapter guides you on how to protect your home network from cyber attacks and unauthorized users by implementing these three network security functions. You can protect your home network from cyber attacks, block or allow specific client devices to access your network using Access Control, you can prevent ARP spoofing and ARP attacks using IP & MAC Binding, protect your network security by isolating your IoT devices.

It contains the following sections:

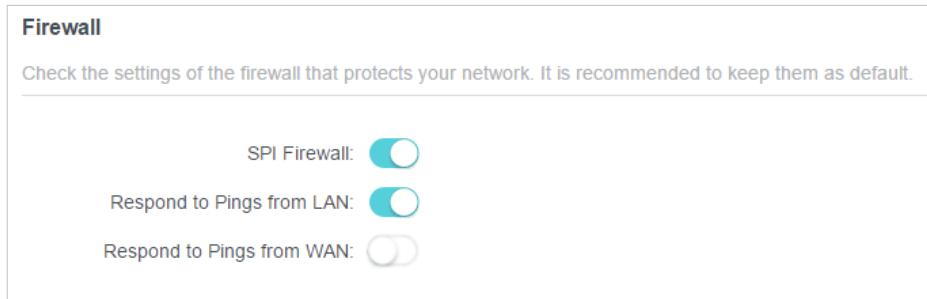
- [Protect the Network from Cyber Attacks](#)
- [Access Control](#)
- [IP & MAC Binding](#)
- [ALG](#)
- [IoT Security](#)

*For a more comprehensive home network protection system, refer to the [HomeShield](#) chapter.

14.1. Protect the Network from Cyber Attacks

The SPI (Stateful Packet Inspection) Firewall protects the router from cyber attacks and validate the traffic that is passing through the router based on the protocol. This function is enabled by default.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Security > Firewall**. It's recommended to keep the default settings.



14.2. Access Control

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 a list of allowed devices (Whitelist).

I want to:

Block or allow specific client devices to access my network (via wired or wireless).

How can I do that?

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Security > Access Control**.
3. Toggle on to enable **Access Control**.
4. Select the access mode to either block (recommended) or allow the device(s) in the list.

To block specific device(s):

- 1) Select **Blacklist**.

Access Control

Control the access to your network from the specified devices.

Access Control:

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

- 2) Click  **Add** and select devices you want to be blocked and Click **ADD**.
- 3) The **Operation Succeeded** message will appear on the screen, which means the selected devices have been successfully added to the blacklist.

Device Type	Device Name	MAC Address	Modify
	Yan	38-CA-DA-3A-D8-B1	

To allow specific device(s):

- 1) Select **Whitelist** and click **SAVE**.

Access Control

Control the access to your network from the specified devices.

Access Control:

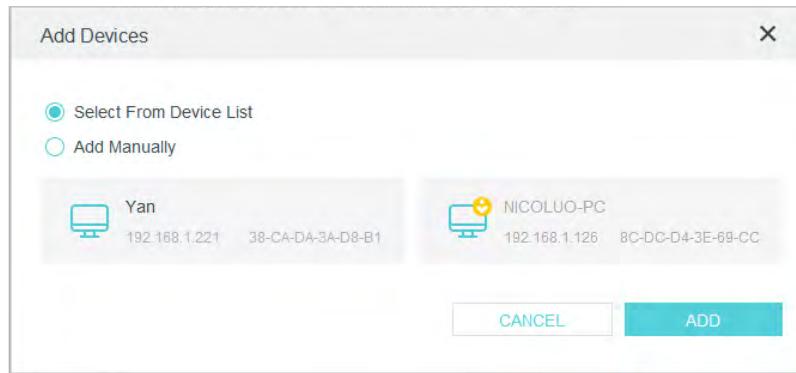
Access Mode: Blacklist
 Whitelist
Configure a whitelist to only allow access to your network from the specified devices.

- 2) Your own device is in the whitelist by default and cannot be deleted. Click  **Add** to add other devices to the whitelist.

Device Type	Device Name	MAC Address	Modify
	UNKNOWN	00-19-66-35-E1-B0	

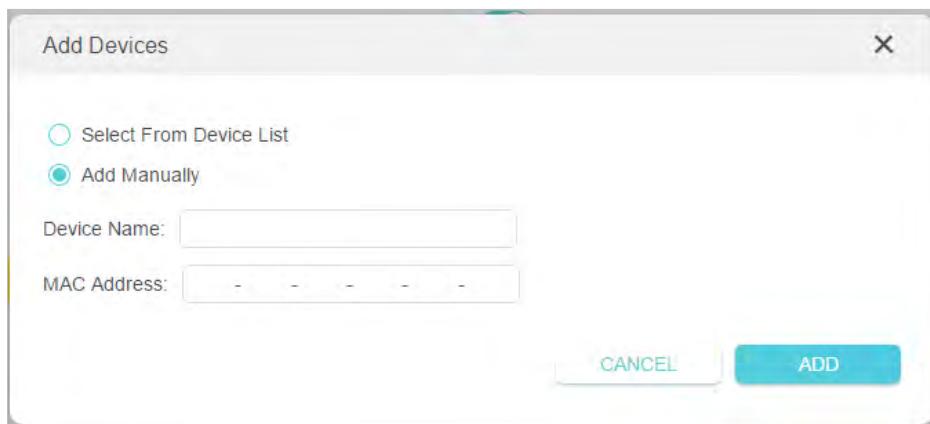
- **Add connected devices**

- 1) Click **Select From Device List**.
- 2) Select the devices you want to be allowed and click **ADD**.



3) The **Operation Succeeded** message will appear on the screen, which means the selected devices have been successfully added to the whitelist.

- **Add unconnected devices**
 - 1) Click **Add Manually**.
 - 2) Enter the **Device Name** and **MAC Address** of the device you want to be allowed and click **ADD**.



3) The **Operation Succeeded** message will appear on the screen, which means the device has been successfully added to the whitelist.

Done!

Now you can block or allow specific client devices to access your network (via wired or wireless) using the **Blacklist** or **Whitelist**.

14.3. IP & MAC Binding

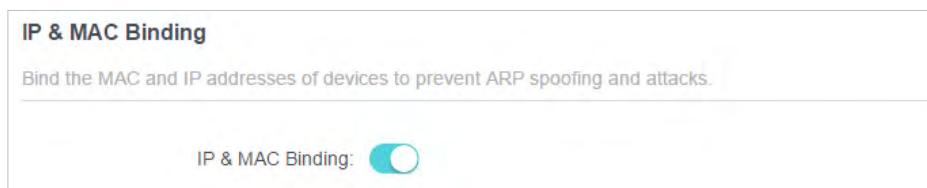
IP & MAC Binding, namely, ARP (Address Resolution Protocol) Binding, is used to bind network device's IP address to its MAC address. This will prevent ARP Spoofing and other ARP attacks by denying network access to a device with matching IP address in the Binding list, but unrecognized MAC address.

I want to:

Prevent ARP spoofing and ARP attacks.

How can I do that?

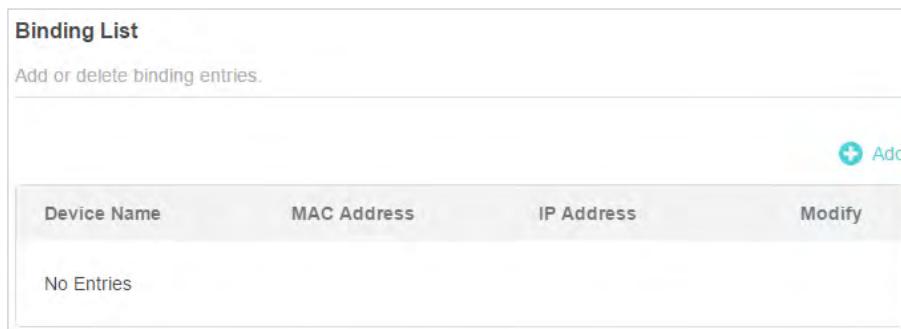
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Security > IP & MAC Binding**.
3. Enable **IP & MAC Binding**.



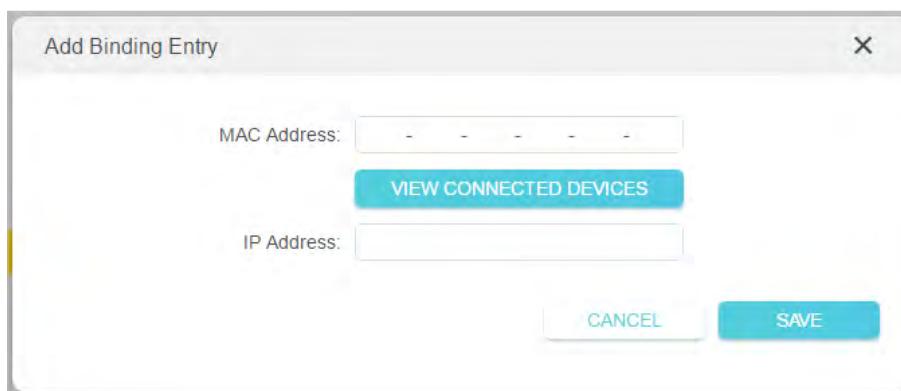
4. Bind your device(s) according to your need.

To bind the connected device(s):

- 1) Click  **Add** in the **Binding List** section.



- 2) Click **VIEW CONNECTED DEVICES** and select the device you want to bind. The **MAC Address** and **IP Address** fields will be automatically filled in.



- 3) Click **SAVE**.

To bind the unconnected device:

- 1) Click  **Add** in the **Binding List** section.



- 2) Enter the **MAC Address** and **IP Address** that you want to bind.
- 3) Click **SAVE**.

Done!

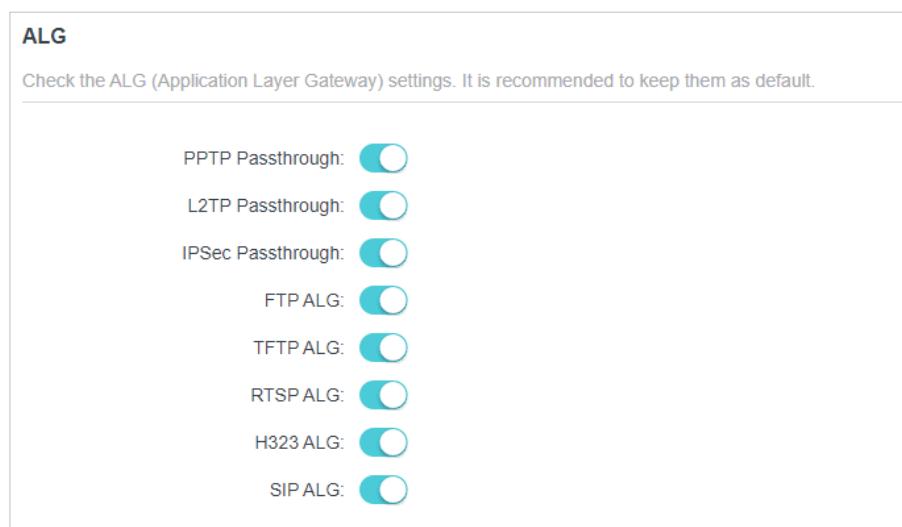
Now you don't need to worry about ARP spoofing and ARP attacks!

14.4. ALG

ALG allows customized NAT traversal filters to be plugged into the gateway to support address and port translation for certain application layer "control/data" protocols such as FTP, TFTP, H323 etc. It is recommended to keep the default settings.

You may need to disable SIP ALG when you are using voice and video applications to create and accept a call through the router, since some voice and video communication applications do not work well with SIP ALG.

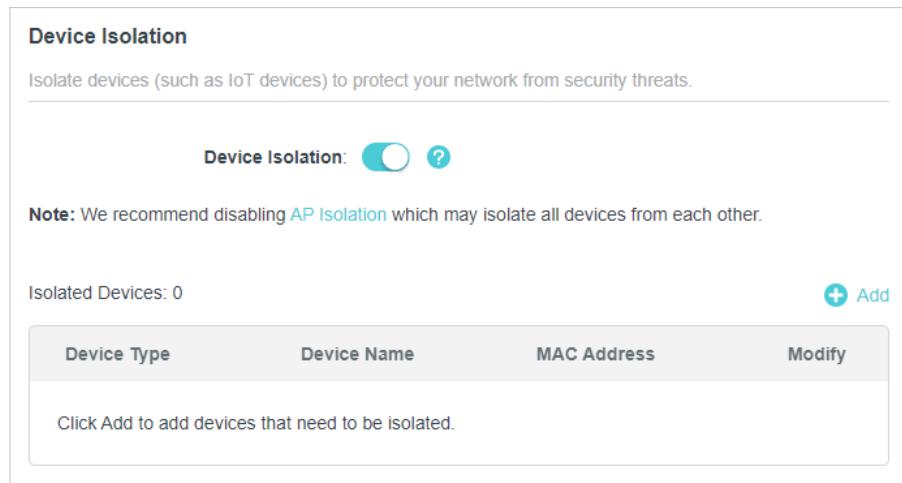
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Security > ALG**.



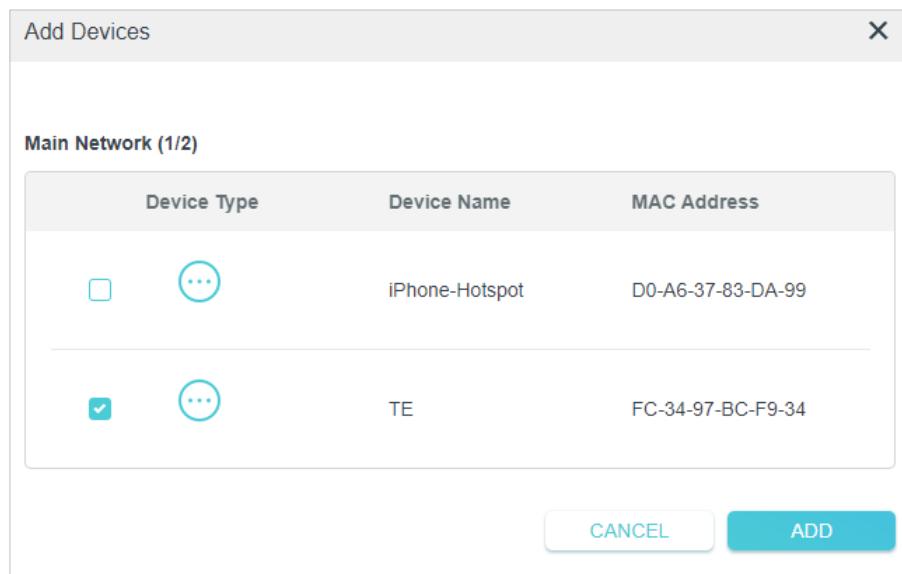
14.5. IoT Security

Some devices, such as IoT devices, are vulnerable to security threats. To keep your important devices and data safe, you can isolate these devices to protect your network from being infected.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Security > IoT Security**. Enable **Device Isolation**.



3. Click Add to add your IoT devices.



Done!

While isolated, isolated devices (these devices) can still access the internet and communicate with other isolated devices. However, isolated devices (these devices) cannot transfer data with devices on your home, including managing gateway devices, accessing USB devices, etc.

Chapter 15

NAT Forwarding

The router's NAT (Network Address Translation) feature makes devices on the LAN use the same public IP address to communicate with devices on the internet, which protects the local network by hiding IP addresses of the devices. However, it also brings about the problem that an external host cannot initiatively communicate with a specified device on the local network.

With the forwarding feature the router can penetrate the isolation of NAT and allows devices on the internet to initiatively communicate with devices on the local network, thus realizing some special functions.

The TP-Link router supports four forwarding rules. If two or more rules are set, the priority of implementation from high to low is Port Forwarding, Port Triggering, UPNP and DMZ.

It contains the following sections:

- [Share Local Resources on the Internet by Port Forwarding](#)
- [Open Ports Dynamically by Port Triggering](#)
- [Make Applications Free from Port Restriction by DMZ](#)
- [Make Xbox Online Games Run Smoothly by UPnP](#)

15.1. Share Local Resources on the Internet by Port Forwarding

When you build up a server on the local network and want to share it on the internet, Port Forwarding can realize the service and provide it to internet users. At the same time Port Forwarding can keep the local network safe as other services are still invisible from the internet.

Port Forwarding can be used for setting up public services on your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different services use different service ports. Port 80 is used in HTTP service, port 21 in FTP service, port 25 in SMTP service and port 110 in POP3 service. Please verify the service port number before the configuration.

I want to:

Share my personal website I've built in local network with my friends through the internet.

For example, the personal website has been built on my home PC (192.168.0.100). I hope that my friends on the internet can visit my website in some way. The PC is connected to the router with the WAN IP address 218.18.232.154.



How can I do that?

1. Assign a static IP address to your PC, for example 192.168.0.100.
2. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
3. Go to **Advanced > NAT Forwarding > Port Forwarding**.
4. Click  **Add**.