

# **User Guide**

BE3600/BE3200 Dual-Band Wi-Fi 7 Router

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## Contents

Abou	It This Guide	1
Chap	oter 1. Get to Know About Your Router	3
1. 1.	Product Overview	4
1. 2.	Appearance	4
	1. 2. 1.Front Panel	4
	1. 2. 2.Back Panel	5
Chap	oter 2. Connect the Hardware	6
2. 1.	Position Your Router	7
2.2.	Connect Your Router	7
Chap	oter 3. Log In to Your Router	9
Chap	oter 4. Set Up Internet Connection	1
4. 1.	Use Quick Setup Wizard1	2
4. 2.	Quick Setup Via TP-Link Tether App1	2
4.3.	Manually Set Up Your Internet Connection1	
4.4.	Set Up the Router as an Access Point1	
4. 5.	Set Up an IPv6 Internet Connection1	6
Chap	oter 5. TP-Link Cloud Service 2	1
5. 1.	Register a TP-Link ID2	2
5. 2.	Change Your TP-Link ID Information2	2
5.3.	Manage the User TP-Link IDs2	:3
	5. 3. 1.Add TP-Link ID to Manage the Router	
	5. 3. 2.Remove TP-Link ID(s) from Managing the Router	
5. 4.	Manage the Router via the TP-Link Tether App	5
Chap	oter 6. Network Map 2	6
Chap	oter 7. Wireless Settings 3	0
7.1.	Specify Wireless Settings	;1
7.2.	Schedule Your Wireless Function	
7.3.	Use WPS for Wireless Connection	5

	7. 3. 1.Connect via the Client's PIN7. 3. 2.Connect via the Router's PIN	
7.4.	7. 3. 3.Push the WPS Button.	
Chap	ter 8. Guest Network	39
8. 1. 8. 2.	Create a Network for Guests	
Chap	ter 9. IoT Network	12
Chap	ter 10.HomeShield	14
10.3.	Parental Controls	46 49
10.4.	More Features	49
Chap	ter 11.EasyMesh with Seamless Roaming	51
11.2.	Add a Router as a Satellite Device	53
Chap	ter 12.Network Security 5	56
12. 2. 12. 3. 12. 4.	Protect the Network from Cyber Attacks	57 59 61
Chap	ter 13.NAT Forwarding6	64
13. 1. 13. 2. 13. 3. 13. 4.	Share Local Resources on the Internet by Port Forwarding	67 68
Chap	ter 14.VPN Server&Client	71
14.2.	Use OpenVPN to Access Your Home Network Use PPTP VPN to Access Your Home Network Use L2TP/IPSec VPN to Access Your Home Network	73

14. 4. 14. 5.	Use WireGuard VPN to Access Your Home Network
Chap	ter 15.Customize Your Network Settings
15. 1. 15. 2. 15. 3. 15. 4. 15. 5. 15. 6. 15. 7.	Change the Internet Settings96Change the LAN Settings98Flow Controller98Configure to Support IPTV Service99Specify DHCP Server Settings100Set Up a Dynamic DNS Service Account102Create Static Routes103
Chap	ter 16.Manage the Router 106
16. 1.	Update the Firmware.       107         16. 1. 1.Auto Update       107         16. 1. 2.Online Update       107         16. 1. 3.Local Update       108         16. 1. 4.EasyMesh Satellite Update       108
16.2.	Backup and Restore Configuration Settings
16.3.	Change the Login Password
16.4.	Password Recovery
16.5.	Local Management
16.6.	Remote Management
16.7.	System Log
16.8.	Test the Network Connectivity
16.9.	Set System Time
	Set the Router to Reboot Regularly
16.11.	Control the LED121
FAQ	

## **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

Convention	Description
Underlined	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.
<i>©</i> Tips:	Indicates important information that helps you make better use of your device.
symbols on the web page	<ul> <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>

In this guide the following conventions are used:

#### More Info

The latest software, management app and utility can be found at Download Center at <a href="https://www.tp-link.com/support/download">https://www.tp-link.com/support/download</a>.

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 <u>https://www.tp-link.com</u>.

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

Our Technical Support contact information can be found at the Contact Technical Support page at <a href="https://www.tp-link.com/support">https://www.tp-link.com/support</a>.

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- †Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.
- ‡Lower Latency refers to the latency improvement of Wi-Fi 7 routers compared to Wi-Fi 6/6E routers, based on laboratory test data. The test conditions had the same 5 GHz or 2.4 GHz single-frequency wireless interference and tested the maximum latencies of Wi-Fi 7 clients (with MLO turned on) connecting to the 5 GHz and 2.4 GHz bands of this router (with MLO turned on) simultaneously and to the 5 GHz or 2.4 GHz bands of a Wi-Fi 6/6E router (without the MLO function).
- △Higher capacity and lower latency refers to the capacity and latency improvement of Wi-Fi 7 routers compared to Wi-Fi 6/6E routers, based on laboratory test data.
- §Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.
- stUse of WPA3 requires clients to also support the corresponding feature.
- <sup>O</sup>Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features.
- \*Wi-Fi generations represent the wireless standard IEEE 802.11 a/b/g/n/ac/ax/be. All devices need to support 802.11 Wi-Fi protocols. Users may require an extra modem device that is compatible with their internet service provider to gain internet access.
- \*\*HomeShield includes both basic and advanced features. Advanced features require a paid subscription. For details, visit tp-link.com/homeshield
- \*\*\*TP-Link EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors. The EasyMeshcompatible function is still being developed on some models and will be supported in subsequent software updates.
- This router may not support all the mandatory features as ratified in the IEEE 802.11be specification.

Further software upgrades for feature availability may be required.

Pictures are for reference only. If there are any inconsistencies between the product image and the actual product, the actual product shall prevail.

## 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 dual band Wi-Fi 7 router, with the 802.11be Wi-Fi technology, achieves Wi-Fi performance at its ultimate level. The new features of Wi-Fi 7 and 4k QAM dramatically improve throughput and increase the capacity and efficiency of the whole network.

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** Explanation

LED	Status	Indication
	On	The system has started up successfully.
ப் (Power)	Flashing	The system is starting up or the firmware is being upgraded. Do not disconnect or power off your router.
	Off	Power is off.
	On	The 2.4GHz wireless band is enabled.
☆ (2.4GHz Wireless)	Off	The 2.4GHz wireless band is disabled.
	On	The 5GHz wireless band is enabled.
奈 (5GHz Wireless)	Off	The 5GHz wireless band is disabled.
	White On	Internet service is available.
Ø (Internet)	Red On	The router's Internet port is connected, but the internet service is not available.
	Off	The router's Internet port is unplugged.

🖵 (Ethernet)	On	At least one powered-on device is connected to the router's LAN port.
<b>_</b> ()	Off	No powered-on device is connected to the router's LAN port.
<b>A</b> (WPS)	On/Off	This light remains on for 5 minutes when a WPS connection is established, then turns off.
	Flashing	WPS connection is in progress. This may take up to 2 minutes.

#### 1. 2. 2. Back Panel



The following parts are located on the back panel.

ltem	Description	
WPS	Press for 1 second, and immediately press the WPS button on your client device to start the WPS process.	
LED/Wi-FiPress for 1 second to turn on or off the LED of your router.Vi-FiPress and hold for about 2 seconds to turn on or off the wireless function your router.		
Reset Press and hold this button for about 10 seconds until the Power LED to reset the router to its factory default settings.		
1 Gbps Internet Port For connecting to your modem or the Ethernet outlet.		
1Gbps LAN Port (1-4) For connecting your PC or other wired devices to the router.		
Power On/Off Press to turn on or off the router.		
Power Port	For connecting the router to a power socket via the provided power adapter.	

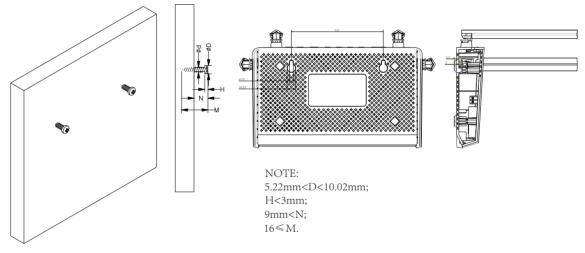
## **Connect the Hardware**

This chapter contains the following sections:

- Position Your Router
- <u>Connect Your Router</u>

## 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.
- The router can be placed on a shelf or desktop.
- 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. The device also can be mounted on the wall as shown in the following figure.

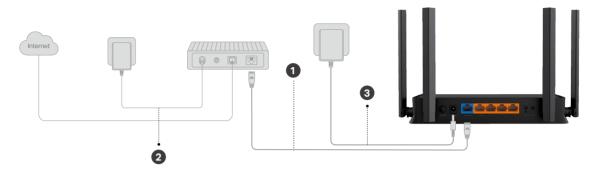


#### Note:

The diameter of the screw head is 5.52mm<D<10.02mm, and the distance of two screws is 113 mm. The screw that project from the wall need around 8.7mm based, and the length of the screw need to be at least 16mm to withstand the weight of the product.

## 2.2. Connect Your Router

1. Connect the powered-off modem to the router's Internet port with an Ethernet cable.



- 2. Power on the modem, and then wait about 2 minutes for it to restart.
- 3. Connect the power adapter to the router. Then press the On/Off button to turn it on.
- 4. Verify that the hardware connection is correct by checking the following LEDs.



- 5. 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.

	Smart Devi	се
47	< Settings Wi-Fi	
	Wi-Fi	
	CHOOSE A NETWORK	
	TP-Link_XXXX	i î
	TP-Link_XXXX_5G	â 🤶 (Ì)
ect		
	Other	
	<b>A</b>	Settings Wi-Fi Wi-Fi OR CHOOSE A NETWORK TP-Link_XXXX TP-Link_XXXX_5G

## 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 <u>http://tplinkwifi.net</u>, 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 <u>FAQ</u> Section.

$\leftrightarrow \rightarrow \mathbf{C}  \widehat{\mathbf{C}}  http://tplinkwifi.$	net	≡
	Create an administrator password For security purposes, create a local password for login before starting the quick setup.	
	Let's Get Started	

## **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
- <u>Manually Set Up Your Internet Connection</u>
- <u>Set Up the Router as an Access Point</u>
- <u>Set Up an IPv6 Internet Connection</u>

### 4.1. Use Quick Setup Wizard

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

Ø 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 <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 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 Servic	e
e Tether app, get n	P-Link ID. You can mar otified of the latest firm more.	
TP-Link ID (Ema	il):	
Password:		
	LOG IN	
Sign Up Now	Forgot Password?	

Note:

- To learn more about the TP-Link Cloud service, please refer to the <u>TP-Link Cloud Service</u> 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 Add a Router. Follow the steps to complete the setup and connect to the internet.

Note: Due to Tether app updates, your actual user interface and pathway may differ from those described here.

4. 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 <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Internet.
- 3. Select your internet connection type from the drop-down list.

Internet		
Set up an internet connection with t	he service information provided by your I	SP (internet service provider).
Internet Connection Type:	Dynamic IP	~
	Select this type if your ISP does information for internet connection	n't provide any on.

- 4. 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:	Dynamic IP 🗸	
Select this type if your ISP doesn't provide any information for internet connection.		
MAC Clone Set the MAC address of your route address.	r. Use the default address unless your ISP allows internet access from only a specific MAC	
Router MAC Address:	Use Default MAC Address ~ 00 - 0A - EB - 13 - 7B - 01	

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

Internet Set up an internet connection with th	e service information provided by your ISP (internet service	provider).
Internet Connection Type:	Static IP	~
	Select this type if your ISP provides specific IP parameters.	
IP Address:		
Subnet Mask:	255.255.255.0	
Default Gateway:		
Primary DNS:	172.29.1.1	
Secondary DNS:	172.29.1.2	(Optional)

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

n the service information provided by your ISP (	Internet
PPPoE	~
Select this type if your ISP only provides username and password.	8
	Ø
	Select this type if your ISP only provides

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
Internet Connection Type:	L2TP ~
	Select this type if your ISP provides L2TP VPN server information and an account. Some ISPs also provide specific IP parameters.
Username:	
Password:	Ø
	Oynamic IP
	<ul> <li>Static IP</li> </ul>
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 (i	nternet service provider).
Internet Connection Type:	РРТР	~
	Select this type if your ISP provides PPTP server information and an account. Some also provide specific IP parameters.	
Username:		
Password:		Ø
	Oynamic IP	
	<ul> <li>Static IP</li> </ul>	
VPN Server IP/Domain Name:		

#### 5. Click SAVE.

Ø 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 <u>http://tplinkwifi.net</u>, 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 Mode 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 <a href="http://tplinkwifi.net">http://tplinkwifi.net</a>, and go to Advanced <a href="http://tplinkwifi.net">Advanced</a> <a href="http://tplinkwifi.net">Quick Setup</a>.
- 5. Configure your wireless settings and click NEXT.
- 6. Confirm the information and click SAVE. Now, you can enjoy Wi-Fi.
- Ø 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). After setting up the IPv6 internet connection, you can add IPv6 firewall rules to protect your IPv6 network.

- Set up an IPv6 Internet Connection
- 1. Visit <u>http://tplinkwifi.net</u>, 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.

Ø 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.

- 4. Fill in information as required by different connection types.
  - 1) Static IP: Fill in blanks and click SAVE.

IPv6 Internet			
Set up an IPv6 internet conne provider).	ection using the informa	ation provided by your ISP (internet	service
IPv6:			
Internet Connection Type:	Static IP	~	
IPv6 Address:			
Default Gateway:			
Primary DNS:			
Secondary DNS:			
MTU Size:	1500	bytes	

 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 conn provider).	ection using the information provided by your ISP (internet service
IPv6:	
Internet Connection Type:	Dynamic IP(SLAAC/DHCPv6) V
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 Settings 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 conn provider).	ection using the information provided by	your ISP (internet service
IPv6:		
Internet Connection Type:	PPPoE ~	
	Share the same PPPoE session with IPv4	
Username:		
Password:	Ø	
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 Settings to input further information if your ISP requires. Click SAVE and then click CONNECT.

IPv6 Internet	
Set up an IPv6 internet conn provider).	ection using the information provided by your ISP (internet service
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 conne provider).	ection using the information provided by your ISP (internet service
IPv6:	
Internet Connection Type:	Pass-Through (Bridge)

5. Configure LAN ports. Windows users are recommended to choose from DHCPv6 and SLAAC+Stateless DHCP. Fill in Address Prefix provided by your ISP, and click SAVE.

IPv6 LAN Configure the LAN IPv6 addre addresses to the clients.	ess of the router and set the configuration type to assign IPv6
Assigned Type:	<ul> <li>ND Proxy</li> <li>DHCPv6</li> <li>SLAAC+Stateless DHCP</li> <li>SLAAC+RDNSS</li> </ul>
Address Prefix:	/64
Address:	FE80::20A:EBFF:FE13:7B00/64

6. In **MAC Clone** section, 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	
the MAC address of yo n only a specific MAC a	ur router. Use the default address unless you ddress.
outer MAC Address:	Use Default MAC Address

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

Ø Tips:

Visit the FAQ section if there is no internet connection.

#### • Set up IPv6 Firewall Rules

IPv6 Firewall protects your IPv6 network by preventing access from the internet. However, when you are hosting a service, such as a file sharing server in your local network, you can choose to allow access to the server from the internet by adding entries on this page. This feature is available only when you've set up an IPv6 connection.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > IPv6, and locate the Firewall Rules section.
- 3. Click Add.
- 4. Select a service from the drop-down list of Service Type. The Port and Protocol will be automatically filled in. It is recommended to keep the default Port and Protocol if you are unsure about which to use. If the service is not listed, please manually enter the Service Type, and specify the Port and Protocol.

Add Firewall Rule	×
Service Type:	Custom ~
Service Name:	
Internal IP:	
	VIEW CONNECTED DEVICES
Port:	
Protocol:	- Please Select -
	CANCEL ADD

- 5. Specify a Service Name for the rule.
- 6. In the Internal IP field, enter a valid IPv6 address to run the service. You can click Select from clients, choose a local host device, and its IPv6 address will be automatically filled in as the Internal IP.
- 7. Click SAVE, and the newly created IPv6 firewall rule will appear in Firewall Rules.

Firewall Rules				
Add IPv6 firewall rules to all	ow specific devices	to access the specified s	ervices.	
				🔂 Add
Service Name	Port	Protocol	Status	Modify
Example	21	ТСР		ල ම

## **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
- <u>Change Your TP-Link ID Information</u>
- 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 <u>http://tplinkwifi.net</u>, 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 The more.	P-Link ID. You can remotely manage your no	etwork via the Tether app, and
	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 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, an 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.

Change E	imail	Θ
Passw	ord	)
New E	mail	)
	Save	
	email or password nc to client devices y. Please log in again	

- To change your password:
- 1. Click 🗹 behind the Password.

2. Enter the current password, then a new password twice. And click Save.

Change Password  Current Password  New Password  Low Middle High  Confirm Password
New Password    Low Middle   High   Confirm Password
Low   Middle   High
P Confirm Password
Covo
Save
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.

### 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 <u>Manage the Router via the</u> <u>TP-Link Tether App</u> to install the app and register a new TP-Link ID.

Ad	d Account	$\otimes$
	) Email	
I	Cancel	Save

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

ound	d Acco	ounts		
				🕂 Bind 🛛 🖨 Unbind
	ID	Email	Binding Date	Role
	1	thergour, reading con-		Admin
	2	thangeunlighting@143.com		User

#### 5. 3. 2. Remove TP-Link ID(s) from Managing the Router

- 1. Visit <u>http://tplinkwifi.net</u>, 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	Bound Accounts						
				🕂 Bind 😑 Unbind			
	ID	Email	Binding Date	Role			
	1	darper_redna.com		Admin			
	2	parground phing \$143.com		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.

## **Network Map**

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

- 1. Visit <u>http://tplinkwifi.net</u>, 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.

Internet	2.46 56	Mesh Devices	Clients
Internet Status			
Connection Type: WAN MAC Address:		ternet IP Address: nline Duration:	21 minutes

• Click the router to check device status and network settings. You can click Edit to change related settings.

Router In	formation				
Device Na	ame:	Archer BE	IPv4 LAN IP:		
LAN MAC	Address:	00-0A-EB-13-AD-44	IPv6 LAN IP:	FE80::20A:EBFF:FE	E13:AD44/64
Vireless					E
Band	Network Name (SSID)	Password		Channel	Status
2.4 GHz / 5 GHz	TP-Link_AD44	123456789		2.4G Auto (Current: 3) 5G Auto (Current: 40)	
MLO Network	TP-Link_AD44_MLO	12345670			
Guest Ne	etwork				E
Band	Network Name (SSID)	Password		Channel	Status
2.4 GHz	TP-Link_Guest_AD44	12345670			
2.4 0112					

T Network						Ed
Band Ne	twork Name (SSII	D)	Password		Channel	Status
2.4 GHz TF	P-Link_IoT_AD44		12345670			
5 GHz TF	P-Link_IoT_AD44_5	iG	12345670			
erformance	3					
CPU Load 00%			Current: 11%	Memory Usage 100%		Current: 46%
60% 40%				60% 40%	0 0	o
20% 0% CPU Ce	ore Number: 4	0 0	0	20% 0%		
thernet Sta	tus					😯 Refres
μm	gup					
Internet	LAN 1	LAN 2	LAN 3	LAN 4		
1000 Mbps	1000 Mbps					

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

Internet	2.4G 5G ♥ ♥ ♥ Archer BE-	Mesh Devices	Clients
Mesh Devices			Add
Device Info	Location	Clients	Connection
Archer Bi 00-0A-EB-13-AD-44 192.168.0.1	Not set	1	
Archer AX10 00-FE-00-29-20-FF 192.168.0.192	Not set	1	all

• 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.

Internet		<sup>5G</sup>   ♥ Mesh D	Nevices	Clients
Connected Clients	Interface	Real-time Rate	Speed Limit ⑦	View Deny List Modify
<ul> <li>PC</li> <li>58-11-22-0F-75-2B</li> <li>192.168.0.49</li> </ul>	(Wired)	↑ 0 Kbps ↓ 0 Kbps		C
<ul> <li>Phone</li> <li>5E-13-04-0F-A1-F2</li> <li>192.168.0.63</li> </ul>	<b>?</b> 56	↑ 0 Kbps ↓ 0 Kbps		<b>1</b> 0

#### To limit the speeds of a device:

- 1. Click 🗹 in the Modify column.
- 2. Enable Speed Limit.
- 3. Set the download and upload speed limit according to your needs.
- 4. Click SAVE. The speeds of the device will be limited.

Edit			×
Device Name:	Phone		
Speed Limit:	Enabled		
Download Speed Limit:	1 Mbps	~	
	Web browsing, sending emails, making social media posts		
Upload Speed Limit:	200 Kbps	~	
		CANCEL	SAVE

## **Wireless Settings**

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

It contains the following sections:

- <u>Specify Wireless Settings</u>
- <u>Schedule Your Wireless Function</u>
- Use WPS for Wireless Connection
- Advanced Wireless Settings

### 7.1. 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 <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.

bands.		
TWT:	Enable ?	
ofdma/mu-mimo:	Disabled	✓ What's this?
Smart Connect:	Senable 🕜	
2.4 GHz / 5 GHz:	Enable	Share Network
Network Name (SSID):	TP-Link_B281	Hide SSID
Security:	WPA2-PSK[AES]	~
Password:	11115670	
▼ 2.4 GHz / 5 GHz Advance	d Settings	
Transmit Power:	High	$\sim$
2.4 GHz Channel Width:	20/40 MHz	~
2.4 GHz Channel:	Auto	~
5 GHz Channel Width:	20/40/80/160 MHz	~
5 GHz Channel:	Auto	~

2. Go to Wireless or Advanced > Wireless > Wireless Settings.

#### • 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 enable or disable OFDMA/MU-MIMO:

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.

A router with the MU-MIMO feature serves multiple devices simultaneously while a traditional router serves only one user at a time. That means MU-MIMO can provide a faster, more efficient Wi-Fi network for multiusers. It is disabled by default.

Note: Devices supporting 5GHz wireless band can enjoy the MU-MIMO service.

- 1. Go to Advanced > Wireless > Wireless Settings.
- 2. Select OFDMA+MU-MIMO or OFDMA only.

#### • 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 Advanced > Wireless > Wireless Settings.
- 2. Enable Smart Connect.

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 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.
- 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.

#### • To create your MLO network:

MLO (Multi-Link Operation) network enables the connected Wi-Fi 7 clients to simultaneously send and receive data across different frequency bands, greatly improving the transmission rate and reliability.

1. Go to Advanced > Wireless > Wireless Settings, and locate the MLO Network section.

- 2. Enable MLO Network.
- 3. Specify an SSID in Network Name (SSID).
- 4. Select the Security type. Specify a password if the security type you selected requires it. This value is case-sensitive.
- 5. You can also click Share Network to share the SSID and password with your guests.
- 6. If you select Hide SSID, your SSID won't display when you scan for local wireless networks on your wireless device and you need to manually join the MLO network.
- 7. Click SAVE to save your settings.

MLO Network		
Create your MLO network, the different frequency bands, greater the second seco		ents can simultaneously send and receive data across ision rate and reliability.
Note: The router will reboot for	or MLO setting changes to	ake effect.
MLO Network:	Enabled	Share Network
Network Name (SSID):	TP-Link_B2	SSID:
Security:	WPA3-Pers	•
Password:	11115670	Password: 11115670
		Save Picture
Password:	11115670	

Ø Tips:

To view the MLO network information, go to Network Map and locate the Wireless section. You can turn on or off the MLO network conveniently.

## 7.2. 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 <u>http://tplinkwifi.net</u>, 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.

Wireless Schedule		
Schedule when to automa	ically turn off your wireless network.	
Wireless Schedule:		

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

Add Schedule		×
Enable This Entry:	Enabled	
Band:	<ul> <li>✓ 2.4 GHz</li> <li>✓ 5 GHz</li> </ul>	
Wireless Off Time:	11     ~     PM     ~       07     ~     :     00     ~     AM     ~     (next day)	
Repeat:	S M T W T F S	
	CANCEL SAVE	

#### Note:

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

### 7.3. 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 <u>http://tplinkwifi.net</u>, 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.

### 7.3.1. Connect via the Client's PIN

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

WPS:	
Method 1:	Using a PIN
	Client's PIN
	O Router's PIN
	Enter your personal device's PIN here and click <b>CONNECT</b>
	CONNECT

### 7. 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.

Router's PIN:		
	Enter the router's PIN on your persona Router's PIN: 38337406	I device.
	GET NEW PIN	
	DEFAULT	

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.

### 7. 3. 3. Push the WPS Button

Click Start on the screen or directly press the router's WPS button. Within two minutes, enable WPS on your personal device. Success will appear on the screen, indicating successful WPS connection.

Method 2:	Using the button below
	Click the button below, then enable WPS on your personal device within 2 minutes.
	Start
Method 3:	Using the router's WPS button
	Press the router's WPS button, then enable WPS on your personal device within 2 minutes.

## 7.4. Advanced Wireless Settings

Check advanced wireless settings for your device.

- 1. Visit <u>http://tplinkwifi.net</u>, 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 setting	ngs for your device.	
WMM:	Enabled	
AP Isolation:	Enabled	
Airtime Fairness:	Enabled	
Zero Wait DFS:	Enabled	
Beacon Interval:	100	
RTS Threshold:	2346	
DTIM Interval:	1	
Group Key Update Period:	0	S

• WMM - WMM function can guarantee the packets with high-priority messages being transmitted preferentially. This function is enabled by default and uneditable.

- 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 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 8

## **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:

- <u>Create a Network for Guests</u>
- <u>Customize Guest Network Options</u>

## 8.1. Create a Network for Guests

- 1. Visit <u>http://tplinkwifi.net</u>, 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 or 5 GHz 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 war	t your guests to use and complete the relate	d information.
2.4 GHz:	Enable	Share Network
Network Name (SSID):	TP-Link_Guest_B281	Hide SSID
Bandwidth Control:	Enable	
Download Bandwidth:	1000 Mbps	
Upload Bandwidth:	1000 Mbps	
5 GHz:	Enable	
Effective Time:	No Limit ~	
Security:	No Security ~	
	This security type is not considered secure. encryption.	Consider selecting a more secure

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

Guest Network		
Enable the wireless bands you v	vant your guests to us	and complete the related information.
2.4 GHz:	Enabled	Share Network
Network Name (SSID):	TP-Link_Gu	SSID:
Bandwidth Control:	Enabled	281
Download Bandwidth:	1000	No Password
Upload Bandwidth:	1000	NIDPS

Ø 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.

## 8.2. Customize Guest Network Options

- 1. Visit <u>http://tplinkwifi.net</u>, 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.

<b>Guest Permissions</b>	
Control the data that gues	ts can access.
	Allow guests to see each other
	Allow guests to access your local network

• 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 9

## **IoT Network**

This router can create a dedicated wireless network for you to manage your IoT devices together, such as smart lights and cameras, enhancing their connection stability.

- 1. Visit <u>http://tplinkwifi.net</u>, 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, or 5 GHz wireless network. For the 5 GHz network, 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 cameras.	network to manage your lo⊤ de	evices together, such as smart lights and
2.4 GHz:	Enabled	Share Network
Network Name (SSID):		SSID:
Security:	WPA2-	0
Password:	037176	Password: 03717660
5 GHz:	Enat	Save Picture
	Make sure your IoT device	s can connect to a 5 GHz network.
Network Name (SSID):	TP-Link_IoT_7B00_5G	Hide SSID
Security:	WPA2-PSK[AES]	~
Password:	03717660	

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

## Chapter 10

## **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
- <u>QoS</u>
- 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.

## 10.1. Network Check

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

- 1. Visit <u>http://tplinkwifi.net</u>, 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.

	The following items can be op	timized.	
	Router Security	Perfect	
	Security	1 risk	
	RESCAN		
Router Security ?			
Firmware Version			
Remote Management			
Respond to Pings from WAN			
Port Forwarding			
Port Triggering			
DMZ			
Wireless Security 🔗			
Wireless Encryption			
	rong. It is recommended to use a (		Change Pass s, and symbol

## 10.2. 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 <u>http://tplinkwifi.net</u>, 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.

Create Profile		×
0	2	3
Basic Info	Content Filter	Time Controls
Basic Info		
Name the profile and add	devices to it.	
Profile Name:		
Age:	Prefer Not to Say	~ ?
Devices:		
+ Add Devices		
	C	CANCEL

- 1) Enter a Name for the profile to make it easier to identify. Set the age to get the corresponding filter level.
- 2) Click + Add Devices.
- 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.

Create Profile		×
<u> </u>	2	3
Basic Info	Content Filter	Time Controls
Content Filter		
Select categories to block the co	rresponding content.	
Select Categories 🥝		
Mature Content	Chat Messaging	Social
Online Shopping	Streaming Media	File Sharing
Gaming		
Blocked Websites Block a specific website by addir	ng a URL, or block all websites cor	ntaining a specific keyword.
Enter a keyword or URL	Add	
Allowed Websites Allow access to specific websites from the Blocked History. Enter a keyword or URL	s that would be blocked by the Cor	ntent Filter. You can also add
		BACK

- 1) Select the content categories to block in the Content Filter list.
- 2) You can also block/allow 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.

Create Profile		×			
Ø					
Basic Info	Content Filter	Time Controls			
Time Controls					
Set internet access time for th	e profile.				
Bedtime When enabled, internet is una	vailable during this period.				
Bedtime:					
From:	09 ~: 00 ~ PM ~				
To:	07 ~ : 00 ~ AM ~	(next day)			
Want more flexible time controls? Go to Homeshield > More Features for a detailed introduction and download Tether to enjoy full Homeshield Pro feature.					
	BA	CK SAVE			

- 4) Enable Bedtime 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 (ii) to pause the network for this profile anytime.

Parental Controls					
Easily manage your kid's online activities by blocking inappropriate content, setting online time limits, and creating flexible schedules.					
Current Time: 2022-09-08 2:28:48 AM					
Note: To get accurate time, controls that take effect based on system time, go to Time Settings to check Get from Internet is selected.					
Name	Time Spent Online	Devices	Insights	Internet Access	Modify

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

## 10.3. 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.

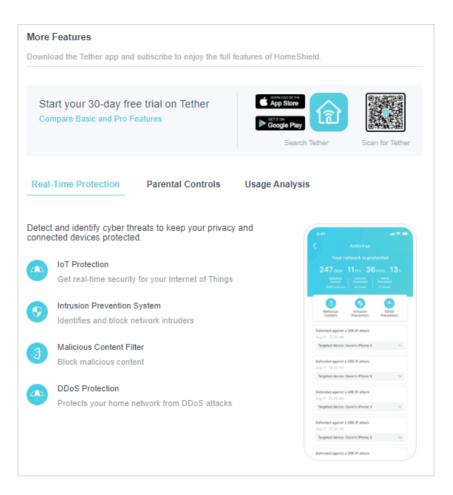
- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > HomeShield > QoS.
- 3. Enable QoS to set the total bandwidth. Then click SAVE.
- 4. Enable High Priority for the desired device and set its effective time.

	f specific device to guarante			
00S:	Enabled			
ownload Bandwidth:	2500	Mbps	~	
Ipload Bandwidth:	2500	Mbps	~	
evice Priority				
Device Info	Real-time Rate	Traffic Usage	High Priority	Timing

## 10.4. More Features

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

- 1. Visit <u>http://tplinkwifi.net</u>, 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.



## Chapter 1

# 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
- <u>Manage Devices in the EasyMesh Network</u>

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.

## 1. 1. Add a Router as a Satellite Device

- 1. Visit <u>http://tplinkwifi.net</u>, 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 management.	DneMesh devices to create a mesh network for seamless Wi-Fi coverage and centralized
EasyMesh:	
What's EasyMesh?	
EasyMesh Network	
Set up and manage your	EasyMesh network.
Current Mode:	Main Router 🖕 Change Mode
Current wode:	
	I EasyMesh and OneMesh devices to boost Wi-Fi coverage.
In this mode, you can add	d EasyMesh and OneMesh devices to boost Wi-Fi coverage. uters will follow the main router's LED Control Settings.
In this mode, you can add	

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

Add Satellite Devices	×
Which type of satellite devices do you want to add?	
TP-Link Router (Includes TP-Link EasyMesh and OneMesh routers)	
TP-Link Extender (Includes TP-Link EasyMesh and OneMesh extenders)	
Others (Includes EasyMesh devices of other brands)	
CAN	ICEL

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.

### 1.2. Add a Range Extender as a Satellite Device

- 1. Visit <u>http://tplinkwifi.net</u>, 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 C management.	)neMesh devices to crea	te a mesh networ	k for seamle	ess Wi-Fi coverage a	and centralized
EasyMesh:					
What's EasyMesh?					
EasyMesh Network					
Set up and manage your	EasyMesh network.				
Current Mode:	Main Router	🖕 Change Mo	ode		
In this mode, you can add	EasyMesh and OneMes	sh devices to boos	st Wi-Fi cove	erage.	
Note: TP-Link satellite ro	uters will follow the main	router's LED Con	trol Settings		
			C-	Ethernet	Wireless
		Щ <sup>0</sup>			
		Archer BE			

- 3. Plug in the extender next to the main router.
- 4. With in 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.

## 1.3. 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 <u>http://tplinkwifi.net</u>, 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 <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > EasyMesh. Locate Mesh Device Detail section.

Me	esh Device Detail				
Me	esh Devices: 3				🔂 Add
	Device Info	Location	Clients	Connection	Modify
	Archer BE400 00-0A-EB-13-AD-44 192.168.0.1	Not set	1		Ø
	Archer AX10 00-FE-00-29-20-FF 192.168.0.192	Not set	0	atl	00
	RE600X A8-6E-84-07-2F-6B 192.168.0.83	Not set	1	all	C0

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

DUV	rice Info	Clients
Name:	Archer AX10	
IP Address:	192.168.0.192	
MAC Address:	00-FE-00-29-20-FF	
Signal Strength:	atl	
LED Status:	Enabled	
Note: Currently, this s subsequent firmware (	atellite device doesn't support LED Co updates.	ontrol, please stay tuned for
Link Speed:	0 (2.4 GHz)	
Link opeed.	1200 Mbps (5 GHz)	
Link opeed.	1200 Mbps (5 Gi i2)	

• Change device information.

## Chapter 12

## **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:

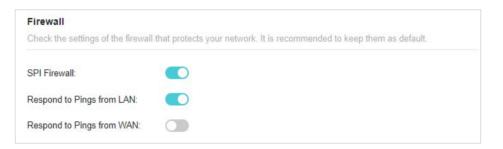
- Protect the Network from Cyber Attacks
- <u>Access Control</u>
- IP & MAC Binding
- <u>ALG</u>
- Device Isolation

\*For a more comprehensive home network protection system, refer to the <u>HomeShield</u> chapter.

## 12.1. 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 <u>http://tplinkwifi.net</u>, 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.



## 12.2. 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 (Deny List) or a list of allowed devices (Allow List).

### I want to:

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

### How can I do that?

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

### To block specific device(s):

1) Make sure your current Access Control mode is Deny List. If not, click Change Mode, select Deny List and, click CHANGE.

Access Control			
Control the access to y	our network from the specified	devices.	
Access Control:			
Current Mode:	Deny List 🛛 👙 🕻	Change Mode	
			🔂 Add
Device Type	Device Name	MAC Address	Modify
There is no entry	1		

- 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 Deny List.

Device Type	Device Name	MAC Address	Modify
	Phone	5E-13-04-0F-A1-F2	⑪

To allow specific device(s):

1) click Change Mode, select Allow List, and click CHANGE.

Access Control		
Control the access to you	ir network from the specified devices.	
Access Control:		

2) Your own device is in the allow list by default and cannot be deleted. Click 🕒 Add to add other devices to the allow list.

Device Name	MAC Address	Modify
19233109-BG	40-ED-00-22-05-93	
	TANKA STA	

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

Add Devices			×
<ul> <li>Select From Device List</li> <li>Add Manually</li> </ul>			
Type Device Name	IP	MAC	
There is no entry!			
		CANCEL	ADD

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

Add Devices	×
<ul> <li>Select From Device List</li> <li>Add Manually</li> <li>Device Name:</li> <li>MAC Address:</li> <li></li> </ul>	
	CANCEL

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

### Done!

Now you can block or allow specific client devices to access your network (via wired or wireless) using the Deny List or Allow List.

### 12.3. 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

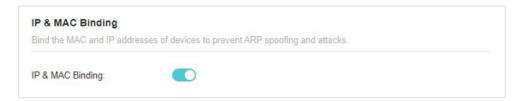
other ARP attacks by denying network access to an device with matching IP address in the Binding list, but unrecognized MAC address.

### I want to:

Prevent ARP spoofing and ARP attacks.

### How can I do that?

- 1. Visit <u>http://tplinkwifi.net</u>, 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.

inding List dd or delete binding entries					
			0	Add	
Device Name	MAC Address	IP Address	Modify		and the second sec
There is no entry!					

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.

Add Binding Entry		×
MAC Address:		
	VIEW CONNECTED DEVICES	
IP Address:		
	CANCEL	SAVE

3) Click SAVE.

To bind the unconnected device:

1) Click 🔂 Add in the Binding List section.

Binding List			
Add or delete binding entries	S.		
			🕀 Ade
Device Name	MAC Address	IP Address	Modify
There is no entry!			

- 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!

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

ALG		
Check the ALG (Application L	ayer Gateway) settings. It is recommend	ed to keep them as default.
PPTP Passthrough:		
L2TP Passthrough:		
IPSec Passthrough:		
FTP ALG:		
TFTP ALG:		
RTSP ALG:		
H323 ALG:		
SIP ALG:		

### 12.5. Device Isolation

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

Device Isolation:	0		
lote: We recommend	disabling AP Isolation which n	nay isolate all devices from each other.	
ote. we recommend	r disability AF isolation which h	nay isolate all devices from each other.	
and a data of the second second			
solated Devices			
			0 /
			•
solated Devices: 1 Device Type	Device Name	MAC Address	Hodify
solated Devices: 1	Device Name	MAC Address	

3. Click +Add to add your IoT devices.

Add Devices		>	<
Main Network (0 / 4)			
Device Type	Device Name	MAC Address	
	network device	16-64-7C-04-9D-0B	
•	Phone	5E-13-04-0F-A1-F2	
	PC	58-11-22-0F-75-2B	
•	ArcherAX10	00-FE-00-29-20-FF	
		CANCEL ADD	

### 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 in your home, including managing gateway devices, etc.

## Chapter 13

## **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
- <u>Make Applications Free from Port Restriction by DMZ</u>
- Make Xbox Online Games Run Smoothly by UPnP

## 13.1. 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.

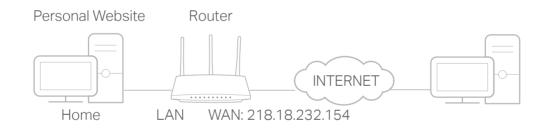
Port Forwarding can be used for setting up public services on your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different services use different service ports. Port 80 is used in HTTP service, port 21 in FTP service, port 25 in SMTP service and port 110 in POP3 service. Please verify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

\*Image may differ from your actual product.



### How can I do that?

- 1. Assign a static IP address to your PC, for example 192.168.0.100.
- 2. Visit <u>http://tplinkwifi.net</u>, 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.

Port Forwarding Specify ports to make specific devices or services on your local network accessible over the internet.						
						🔂 Add
Service Name	Device IP Address	External Port	Internal Port	Protocol	Status	Modify
There is	no entry!					

- 5. Click VIEW COMMON SERVICES and select HTTP. The External Port, Internal Port and Protocol will be automatically filled in.
- 6. Click VIEW CONNECTED DEVICES and select your home PC. The Device IP Address will be automatically filled in. Or enter the PC's IP address 192.168.0.100 manually in the Device IP Address field.
- 7. Click SAVE.

Add a Port Forwarding E	ntry	×	
Note: Add a rule for an individ 100 and 200), add multiple rul	ual external port or port range. For non es. For more info, refer to Port Forward	consecutive ports (example: ing FAQ.	
Service Name:	HTTP		
	VIEW COMMON SERVICES		
Device IP Address:	192.168.0.63		
	VIEW CONNECTED DEVICES		
External Port:	<ul> <li>Individual Port</li> <li>Port Range</li> </ul>		
	80		
Internal Port:	80	(Optional)	
Protocol:	TCP ~		
Enable This Entry:	Enabled		
	CAN	SAVE	

Ø Tips:

- It is recommended to keep the default settings of Internal Port and Protocol if you are not clear about which port and protocol to use.
- If the service you want to use is not in the common services list, you can enter the corresponding parameters manually. You should verify the port number that the service needs.

• You can add multiple port forwarding rules if you want to provide several services in a router. Please note that the External Port should not be overlapped.

### Done!

Users on the internet can enter http:// WAN IP (in this example: http:// 218.18.232.154) to visit your personal website.

Ø Tips:

- The WAN IP should be a public IP address. For the WAN IP is assigned dynamically by the ISP, it is recommended to apply and register a domain name for the WAN referring to <u>Set Up a Dynamic DNS Service Account</u>. Then users on the internet can use http:// domain name to visit the website.
- If you have changed the default External Port, you should use http:// WAN IP: External Port or http:// domain name: External Port to visit the website.

## 13.2. Open Ports Dynamically by Port Triggering

Port Triggering can specify a triggering port and its corresponding external ports. When a host on the local network initiates a connection to the triggering port, all the external ports will be opened for subsequent connections. The router can record the IP address of the host. When the data from the internet return to the external ports, the router can forward them to the corresponding host. Port Triggering is mainly applied to online games, VoIPs, video players and common applications including MSN Gaming Zone, Dialpad and Quick Time 4 players, etc.

Follow the steps below to configure the Port Triggering rules:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > NAT Forwarding > Port Triggering and click 😌 Add.

Port Triggering									
Specify ports to allow devices on your local network to dynamically open specific external ports and forward packets (from the internet) to the device that triggered it.									
							🔂 Add		
Ser Nan	vice ne	Triggering Port	Triggering Protocol	External Port	External Protocol	Status	Modify		
Th	There is no entry!								

3. Click VIEW COMMON SERVICES, and select the desired application. The Triggering Port, Triggering Protocol and External Port will be automatically filled in. The following picture takes application MSN Gaming Zone as an example.

Add a Port Triggering Entry X							
Service Name:	MSN Gaming Zone						
	VIEW COMMON SERVICES						
Triggering Port:	47624						
Triggering Protocol:	All						
External Port:	2300-2400,28800-29000						
External Protocol:	All						
Enable This Entry:	Enabled						
	CANCEL SAVE						

#### 4. Click SAVE.

- Ø Tips:
- You can add multiple port triggering rules according to your network need.
- The triggering ports can not be overlapped.
- If the application you need is not listed in the Existing Applications list, please enter the parameters manually. You should verify the external ports the application uses first and enter them into External Port field according to the format the page displays.

# 13.3. Make Applications Free from Port Restriction by DMZ

When a PC is set to be a DMZ (Demilitarized Zone) host on the local network, it is totally exposed to the internet, which can realize the unlimited bidirectional communication between internal hosts and external hosts. The DMZ host becomes a virtual server with all ports opened. When you are not clear about which ports to open in some special applications, such as IP camera and database software, you can set the PC to be a DMZ host.

Note:

When DMZ is enabled, the DMZ host is totally exposed to the internet, which may bring some potential safety hazards. If DMZ is not in use, please disable it in time.

### I want to:

Make the home PC join the internet online game without port restriction.

For example, due to some port restriction, when playing the online games, you can log in normally but cannot join a team with other players. To solve this problem, set your PC as a DMZ host with all ports open.

### How can I do that?

- 1. Assign a static IP address to your PC, for example 192.168.0.100.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 3. Go to Advanced > NAT Forwarding > DMZ and tick to enable DMZ.
- 4. Click VIEW CONNECTED DEVICES and select your PC. The Device IP Address will be automatically filled in. Or enter the PC's IP address 192.168.0.100 manually in the DMZ Host IP Address field.

DMZ	
Expose a specific device in your local ne real-time communications.	stwork to the internet for applications such as online gaming and
DMZ:	Enable
DMZ Host IP Address:	192.168.0.100
	VIEW CONNECTED DEVICES

### 5. Click SAVE.

### Done!

The configuration is completed. You've set your PC to a DMZ host and now you can make a team to game with other players.

# 13.4. Make Xbox Online Games Run Smoothly by UPnP

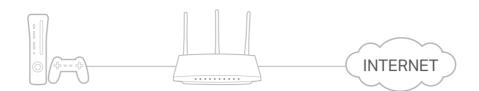
The UPnP (Universal Plug and Play) protocol allows applications or host devices to automatically find the front-end NAT device and send request to it to open the corresponding ports. With UPnP enabled, the applications or host devices on the local network and the internet can freely communicate with each other thus realizing the seamless connection of the network. You may need to enable the UPnP if you want to use applications for multiplayer gaming, peer-to-peer connections, real-time communication (such as VoIP or telephone conference) or remote assistance, etc.

Tips:

- UPnP is enabled by default in this router.
- Only the application supporting UPnP protocol can use this feature.
- UPnP feature needs the support of operating system (e.g. Windows Vista/ Windows 7/ Windows 8, etc. Some of
  operating system need to install the UPnP components).

For example, when you connect your Xbox to the router which has connected to the internet to play online games, UPnP will send request to the router to open the corresponding ports allowing the following data penetrating the NAT to transmit. Therefore, you can play Xbox online games without a hitch.

\*Image may differ from your actual product.



If necessary, you can follow the steps to change the status of UPnP.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > NAT Forwarding > UPnP and toggle on or off according to your needs.

UPnP	
	ersal Plug and Play) to allow devices on your local network to dynamically open ports for multiplayer gaming and real-time communications.
UPnP:	

### Chapter 14

## **VPN Server&Client**

The router offers several ways to set up VPN connections:

**VPN Server** allows remote devices to access your home network in a secured way through the internet. The router supports three types of VPN Server:

**OpenVPN** is somewhat complex but with higher security and more stability, suitable for restricted environments such as campus network and company intranet.

**PPTP VPN** is easy to use with the built-in VPN software of computers and mobile devices, but it is vulnerable and may be blocked by some ISPs.

**L2TP/IPSec VPN** is more secure but slower than PPTP VPN, and may have trouble getting around firewalls.

**WireGuard VPN** is a secure, fast and modern VPN protocol. It is based on the UDP protocol and uses modern encryption algorithms to improve work efficiency.

**VPN Client** allows devices in your home network to access remote VPN servers, without the need to install VPN software on each device.

This chapter contains the following sections:

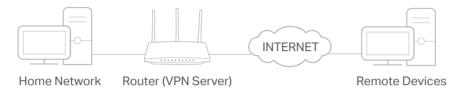
- <u>Use OpenVPN to Access Your Home Network</u>
- <u>Use PPTP VPN to Access Your Home Network</u>
- Use L2TP/IPSec VPN to Access Your Home Network
- <u>Use WireGuard VPN to Access Your Home Network</u>
- <u>Use VPN Client to Access a Remote VPN Server</u>

### 14.1. Use OpenVPN to Access Your Home Network

OpenVPN Server is used to create an OpenVPN connection for remote devices to access your home network.

To use the VPN feature, you need to enable OpenVPN Server on your router, and install and run VPN client software on remote devices. Please follow the steps below to set up an OpenVPN connection.

\*Image may differ from your actual product.



### Step1. Set up OpenVPN Server on Your Router

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > VPN Server > OpenVPN, and tick the Enable box of OpenVPN.

OpenVPN	
Set up an OpenVPN for s	ecure, remote access to your network.
Note: No certificate has b	een created. Generate one below before enabling Ope
OpenVPN:	Enabled
Service Type:	O UDP
	O TCP
Interface Type:	TUN ~
Service Port:	1194
VPN Subnet:	10.8.0.0
Netmask:	255.255.255.0
Client Access:	Home Network Only

#### Note:

- Before you enable VPN Server, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your System Time with internet.
- The first time you configure the OpenVPN Server, you may need to generate a certificate before you enable the VPN Server.
- 3. Select the Service Type (communication protocol) for OpenVPN Server: UDP, TCP.

- 4. Enter a VPN Service Port to which a VPN device connects, and the port number should be between 1024 and 65535.
- 5. In the VPN Subnet/Netmask fields, enter the range of IP addresses that can be leased to the device by the OpenVPN server.
- 6. Select your Client Access type. Select Home Network Only if you only want the remote device to access your home network; select Internet and Home Network if you also want the remote device to access internet through the VPN Server.
- 7. Click SAVE.
- 8. Click GENERATE to get a new certificate.

GENERATE	
	GENERATE

Note: If you have already generated one, please skip this step, or click GENERATE to update the certificate.

9. Click EXPORT to save the OpenVPN configuration file which will be used by the remote device to access your router.

Configuration File		
Export the configuration file.		
	EXPORT	

#### Step 2. Configure OpenVPN Connection on Your Remote Device

1. Visit <u>http://openvpn.net/index.php/download/community-downloads.html</u> to download the OpenVPN software, and install it on your device where you want to run the OpenVPN client utility.

**Note:** You need to install the OpenVPN client utility on each device that you plan to apply the VPN function to access your router. Mobile devices should download a third-party app from Google Play or Apple App Store.

- After the installation, copy the file exported from your router to the OpenVPN client utility's "config" folder (for example, C:\Program Files\OpenVPN\config on Windows). The path depends on where the OpenVPN client utility is installed.
- 3. Run the OpenVPN client utility and connect it to OpenVPN Server.

### 14.2. Use PPTP VPN to Access Your Home Network

PPTP VPN Server is used to create a PPTP VPN connection for remote devices to access your home network.

To use the VPN feature, you need to set up PPTP VPN Server on your router, and configure the PPTP connection on remote devices. Please follow the steps below to set up a PPTP VPN connection.

### Step 1. Set up PPTP VPN Server on Your Router

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > VPN Server > PPTP, and tick the Enable box of PPTP.

PPTP Set up a PPTP VPN and a	ccounts for quick, remote access to your network.	
PPTP:	Enabled	
Client IP Address:	10.0.0.11 - 10.0.0.20	
	Allow Samba (Network Place) access	
	Allow NetBIOS passthrough	
	Allow Unencrypted connections	

Note: Before you enable VPN Server, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your System Time with internet.

- 3. In the Client IP Address field, enter the range of IP addresses (up to 10) that can be leased to the devices by the PPTP VPN server.
- 4. Set the PPTP connection permission according to your needs.
  - Select Allow Samba (Network Place) access to allow your VPN device to access your local Samba server.
  - Select Allow NetBIOS passthrough to allow your VPN device to access your Samba server using NetBIOS name.
  - Select Allow Unencrypted connections to allow unencrypted connections to your VPN server.
- 5. Click SAVE.
- 6. Configure the PPTP VPN connection account for the remote device. You can create up to 16 accounts.

Account List Configure accounts (up to 16) that can be used by remote clients to connect to the VPN server.				
			0	Ado
Username	Password		Modify	
admin		Ø	0	

- 1) Click Add.
- 2) Enter the Username and Password to authenticate devices to the PPTP VPN Server.

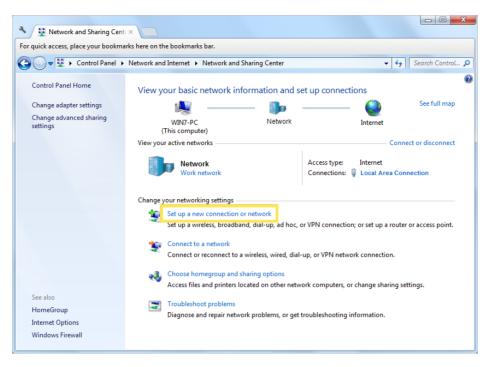
Add Account		×
Username:		
Password:	Ø	
	CANCEL	ADD

3) Click ADD.

#### Step 2. Configure PPTP VPN Connection on Your Remote Device

The remote device can use the Windows built-in PPTP software or a third-party PPTP software to connect to PPTP Server. Here we use the Windows built-in PPTP software as an example.

- 1. Go to Start > Control Panel > Network and Internet > Network and Sharing Center.
- 2. Select Set up a new connection or network.



3. Select Connect to a workplace and click Next.

🚱 💇 Set Up a Connection or Network	<b> x</b>
Choose a connection option	
Connect to the Internet Set up a wireless, broadband, or dial-up connection to the Internet.	
Set up a new network Configure a new router or access point. Connect to a workplace Set up a dial-up or VPN connection to your workplace.	
Set up a dial-up connection Connect to the Internet using a dial-up connection.	
Next	Cancel

4. Select Use my Internet connection (VPN).

🚱 🌆 Connect to a Workplace	<b> X</b>
How do you want to connect?	
Use my Internet connection (VPN) Connect using a virtual private network (VPN) connection through the Internet.	
ing 🔮 💵	
Dial directly Connect directly to a phone number without going through the Internet.	
ing ing	
What is a VPN connection?	
	Cancel

5. Enter the internet IP address of the router (for example: 218.18.1.73) in the Internet address field. Click Next.

G 🔚 Connect to a Workplace					
Type the Internet addr	Type the Internet address to connect to				
Your network administrator	can give you this address.				
Internet address:	218.18.1.73				
Destination name:	VPN Connection				
	o use this connection yone with access to this computer to use this connection. ust set it up so I can connect later				
	Next	t Cancel			

6. Enter the User name and Password you have set for the PPTP VPN server on your router, and click Connect.

0	🔚 Connect to a Workplace		
	Type your user name a	and password	
	User name:	1000	
	Password:	•••••	
	Domain (optional):	<ul> <li>Show characters</li> <li>Remember this password</li> </ul>	
			Connect Cancel

7. Click Connect Now when the VPN connection is ready to use.

Geo 📭 Connec	t to a Workplace	
The con	nection is ready to use	
	in the second se	
	Connect now	
		Close

### 14.3. Use L2TP/IPSec VPN to Access Your Home Network

L2TP/IPSec VPN Server is used to create a L2TP/IPSec VPN connection for remote devices to access your home network.

To use the VPN feature, you need to set up L2TP/IPSec VPN Server on your router, and configure the L2TP/IPSec connection on remote devices. Please follow the steps below to set up the L2TP/IPSec VPN connection.

\*Image may differ from your actual product.



#### Remote Devices

### Step 1. Set up L2TP/IPSec VPN Server on 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 > VPN Server > L2TP/IPSec, and enable L2TP/IPSec.

#### Note:

- Firmware update may be required to support L2TP/IPSec VPN Server.
- · Before you enable VPN Server, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your System Time with internet.

L2TP/IPSec		
Set up a L2TP/IPSec VPN and	accounts for quick, remote ac	cess to your network.
L2TP/IPSec:		
Client IP Address:	10.9.0.11	- 10.9.0.20
IPSec Encryption:	Encrypted	~
IPSec Pre-Shared Key:	admin	
	Allow NetBIOS passt	hrough

- 3. In the Client IP Address field, enter the range of IP addresses (up to 10) that can be leased to the devices by the L2TP/IPSec VPN server.
- 4. Keep IPSec Encryption as Encrypted and create an IPSec Pre-Shared Key.

Note: Enable NetBIOS Passthrough function to allow NetBIOS packets to be broadcasted through VPN tunnel.

- 5. Click SAVE.
- 6. Configure the L2TP/IPSec VPN connection account for the remote device. You can create up to 16 accounts.

Account List		
Configure accounts (up to 16)	that can be used by remote clients to connect	to the VPN server.
		🔂 Ad
Username	Password	Modify
admin	admin	<u>ت</u>

- 4) Click Add.
- 5) Enter the Username and Password to authenticate devices to the L2TP/IPSec VPN Server.

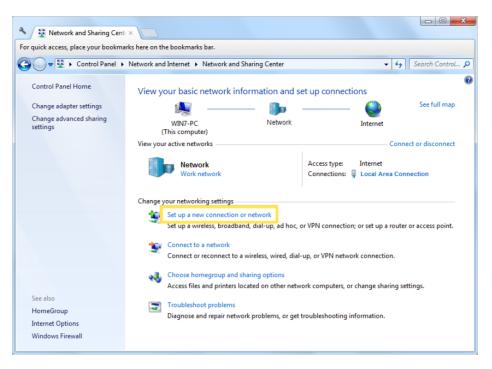
Add Account		×
Username:		
Password:	Ø	
	CANCEL	ADD

6) Click ADD.

#### Step 2. Configure L2TP/IPSec VPN Connection on Your Remote Device

The remote device can use the Windows or Mac OS built-in L2TP/IPSec software or a third-party L2TP/IPSec software to connect to L2TP/IPSec Server. Here we use the Windows built-in L2TP/IPSec software as an example.

- 1. Go to Start > Control Panel > Network and Internet > Network and Sharing Center.
- 2. Select Set up a new connection or network.



3. Select Connect to a workplace and click Next.

🕞 🔮 Set Up a Connection or Network	X
Choose a connection option	
Connect to the Internet Set up a wireless, broadband, or dial-up connection to the Internet.	
Set up a new network Configure a new router or access point.	
Connect to a workplace Set up a dial-up or VPN connection to your workplace.	
Set up a dial-up connection Connect to the Internet using a dial-up connection.	
Next Canc	el

4. Select Use my Internet connection (VPN).

🚱 🌆 Connect to a Workplace	
How do you want to connect?	
<ul> <li>Use my Internet connection (VPN)</li> <li>Connect using a virtual private network (VPN) connection through the Internet.</li> </ul>	
i (in )	
Dial directly Connect directly to a phone number without going through the Internet.	
i i	
What is a VPN connection?	
	Cancel

5. Enter the internet IP address of the router (for example: 218.18.1.73) in the Internet address field, and select the checkbox Don't connect now; just set it up so I can connect later. Click Next.

Le Connect to a Workplace		
Type the Internet addr	ess to connect to	
Your network administrator of	can give you this address.	
Internet address:	218.18.1.73	
Destination name:	VPN Connection	
	o use this connection yone with access to this computer to use this connection. ust set it up so I can connect later	
	Nex	t Cancel

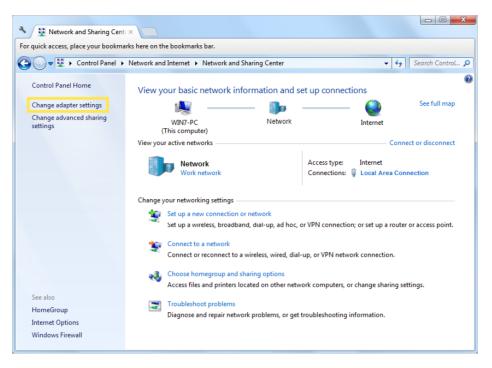
6. Enter the User name and Password you have set for the L2TP/IPSec VPN server on your router, and click Connect.

3	🜆 Connect to a Workplace		
	Type your user name a	and password	
	User name:	1810	
	Password:	•••••	
	Domain (optional):	Show characters	
			Connect Cancel

7. Click Close when the VPN connection is ready to use

G In Connect	to a Workplace	
The conn	ection is ready to use	
	i	
	Connect now	
		Close

8. Go to Network and Sharing Center and click Change adapter settings.



9. Find the VPN connection you created, then double-click it.

S Vetwork and I > Network	Connections 🕨 👻 🍫 Search No	etwork Connections
Organize 👻 Start this connection Re	name this connection »	₩= ▼ 🚺 🔞
Local Area Connection sec.softether.co.jp Intel(R) PRO/1000 MT Network C	VPN Connection Disconnected WAN Miniport	

10. Enter the User name and Password you have set for the L2TP/IPSec VPN server on your router, and click Properties.

Second Connection	<b>×</b>
User name:	anost do test
Do <u>m</u> ain:	
Save this user name and password for <ul></ul>	the following users:
Connect Cancel Prop	erties <u>H</u> elp

11. Switch to the Security tab, select Layer 2 Tunneling Protocol with IPsec (L2TP/ IPSec) and click Advanced settings.

eneral Options	Security	Networking	Sharing	
Type of VPN:				
Layer 2 Tunnelin	g Protocol v	vith IPsec (L2	TP/IPSec)	
Data encryption:			Advanced	settings
Require encrypti	on (disconne	ect if server d	eclines)	
Authentication				
O Use Extensit	le Authentio	cation Protoc	ol (EAP)	
			Prop	erties
Allow these			( · · · · ·	
	protocols			
C reion alcae				
I now mose				
	ted passwo	rd (PAP)		
Unencryp			ion Protocol (Cl	HAP)
Unencryp	e <u>H</u> andshak			HAP)

12. Select Use preshared key for authentication and enter the IPSec Pre-Shared Key you have set for the L2TP/IPSec VPN server on your router. Then click OK.

dvanced Pi	operties
) Use pr Key:	eshared key for authentication
	rtificate for authentication ify the Name and Usage attributes of the server's certificate
	OK Cancel

Done! Click Connect to start VPN connection.

Seconnect VPN Connection		
User name:		
Password:		
Do <u>m</u> ain:		
Save this user name and password for the following users:		
Me only		
Connect Cancel Properties Help		

# 14.4. Use WireGuard VPN to Access Your Home Network

WireGuard VPN Server is used to create a Wire Guard VPN connection for remote devices to access your home network.

### Step 1. Set up WireGuard VPN Server on Your Router

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > VPN Server > WireGuard, and tick the Enable box of WireGuard.

WireGuard Set up a WireGuard VPN an	d accounts for quick, remote and secure access to yo
WireGuard:	Enabled
Tunnel IP Address:	10.5.5.1/32
Listen Port:	51820
Client Access:	Internet and Home Network $\lor$
<ul> <li>Advanced Settings</li> </ul>	
DNS:	Enabled
Persistent Keepalive:	25
Private Key:	IKpwcr8Nztv0tkVAHviwaAArxpVH6iDwx6eMj XaQC1I=
Public Key:	xj9bP0sYrxa4rKBRdhx2qNBWY5uJjTg3YbQ kuXrlj0M=
	RENEW KEY

- 3. Set the Tunnel IP Address and Listen Port. Do NOT change it unless necessary.
- 4. Select your Client Access type. Select Home Network Only if you only want the remote device to access your home network; select Internet and Home Network if you also want the remote device to access internet through the VPN Server.
- 5. (Optional) Click Advanced Settings to display more settings. If DNS is turned on, the router will become the DNS server of the VPN client that establishes a connection with it. Change the Persistent Keepalive time (25 seconds by default) to send out heartbeat regularly, you can also click RENEW KEY to update the private key and public key.

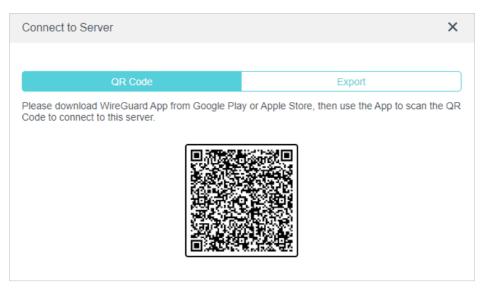
## Step 2. Create accounts that can be used by remote clients to connect to the VPN server.

		×
10.5.5.2/32		
0.0.0/0		
10.5.5.2/32		
Enabled		
	CANCEL	SAVE
	0.0.0.0/0	0.0.0/0 10.5.5.2/32 Enabled

1. Locate the Account List section. Click Add to create an account.

- 2. Give a Username to this account.
- 3. View the Address of the virtual interface assigned to this account. Do NOT change it unless necessary.
- 4. Traffic sent from the WireGard VPN client to the allowed IPs (client) will be transmitted through the tunnel. By default, all network traffic from clients will be transmitted through the tunnel. Do NOT change it unless necessary.
- 5. Traffic sent from the WireGard VPN server to the allowed IPs (server) will be transmitted through the tunnel. Do NOT change it unless necessary.
- 6. Enable or disable Pre-shared Key.
- 7. Click SAVE.

Note: One account can only be used by one WireGuard VPN client at the same time to connect to the WireGuard VPN server.



- 8. Connect to the WireGuard server.
- For mobile phones, download WireGuard App from Google Play or Apple Store, then use the App to scan the QR Code to connect to this server.
- For other devices (e.g. TP-Link WireGuard VPN client), Click EXPORT to save the WireGuard VPN configuration file which will be used by the remote device to access your router.

Connect to Server	×		
QR Code	Export		
Please use the following configuration to set up ye	our WireGuard client.		
EXF	PORT		
[Interface]         PrivateKey = UJOn+XkyxT6xft/+nHIwNHZAh1A66wzEBP2vMIUpEVY=         Address = 10.5.5.3/32         [Peer]         PublicKey = jfy1EJOegKql6DOJzI1pwTTj7U1IEy22/qWNDea2VnA=         AllowedIPs = 0.0.0.0/1,128.0.0.0/1         Endpoint = 0.0.0.051820         PersistentKeepalive = 25			
	DONE		

9. On the account list, you can click the button to modify the VPN server settings, connect to the server, or delete the account.

nfigure accounts (up to 16)	that can be used by remote clients to connect to	the VPN server.
		🔂 Ado
Username	Allowed IPs	Modify
Test	0.0.0.0/1,128.0.0.0/1	🖸 🖉 🗇
ADMIN	0.0.0/1,128.0.0.0/1	🖸 🖉 🛅

### 14.5. Use VPN Client to Access a Remote VPN Server

VPN Client is used to create VPN connections for devices in your home network to access a remote VPN server.

To use the VPN feature, simply configure a VPN connection and choose your desired devices on your router, then these devices can access the remote VPN server. Please follow the steps below:

\*Image may differ from your actual product.



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

Note: Firmware update may be required to support VPN Client.

3. Enable VPN Client, then save the settings.

VPN Client		
Set up profiles for cl	ents that will use the VPN function.	
	VPN Client: 🔽 ENABLE	

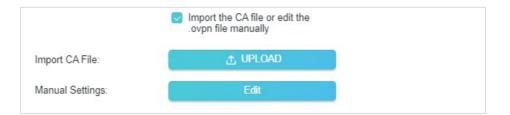
- 4. Add VPN servers, and enable the one you need.
  - 1) In the Server List section, click Add.
  - 2) Specify a Description for the VPN, and choose the VPN Type.

		I access VPN server.	
nline D	evices		
	Device Type	Device Name	MAC Address
			FC-AA-14-55-FB-5D
			86-D2-DE-B9-18-62
fline D	evices		
	Device Type	Device Name	MAC Address

- 3) Enter the VPN information provided by your VPN provider.
- OpenVPN: Enter the VPN username and password if required by your VPN provider, otherwise simply leave them empty. Then import the configuration file provided by your VPN provider.

Add Profile		×
Description:	VPN1	
VPN Type:	OpenVPN v	
Username:	Z	(Optional)
Password:	ø	(Optional)
Import .ovpn File:	企 UPLOAD	
	Import the CA file or edit the .ovpn file manually	
	CAI	NCEL SAVE

Note: You can also check the box of Import the CA file or edit the . ovpn file manually, then upload the CA file or manually configure the settings.



• PPTP: Enter the VPN server address (for example: 218.18.1.73) and the VPN username and password provided by your VPN provider.

Add Profile		×
Description:	VPN1	
VPN Type:	PPTP ~	
VPN Server:		
Username:		
Password:	Ø	
Encryption:	Auto	
	CANCEL	

 L2TP/IPSec VPN: Enter the VPN server address (for example: 218.18.1.73), VPN username and password, and IPSec pre-shared key provided by your VPN provider.

Add Profile		×
Description:	VPN1	
VPN Type:	L2TP/IPSec v	
VPN Server:		
Username:		
Password:	Ø	
IPSec Pre-Shared Key:		
	CANOCI	CAVE
	CANCEL	SAVE

• WireGuard VPN: Give a description, and click BROWSE to import the WireGuard VPN server configuration. Then you will see the detailed parameters. Do NOT change the parameters unless necessary.

Add Profile		×
Description:	VPN1	
VPN Type:	WireGuard ~	
Import from Config File:	企 UPLOAD	
NAT:	Enabled	
▼ Interface		
Private Key:		
Address:		
DNS Server 1:		(Optional)
DNS Server 2:		Optional)
MTU Size:	1420 bytes	Optional)
V Peer		
Public Key:		
Pre-Shared Key:		) (Optional)
Allowed IPs:		
Endpoint Address:		
Endpoint Port:		
Persistent Keepalive:	25	) (Optional)
	CAN	CEL SAVE

- 4) Save the settings.
- 5) In the server list, enable the VPN server you need.

erver List	ver. Up to 6 VPN serve	rs can be added		
d of edit VPN Serv	el. op to o vent serve	is can be added.		
				🕀 Ad
Description	VPN Type	Status	ENABLE	Modify
vpn3	L2TP/IPSec	Disconnected		区量
vpn2	PPTP	Disconnected	$\bigcirc$	0
vpn1	OpenVPN	Disconnected	$\bigcirc$	区面
vpn4	WireGuard	Disconnected	$\bigcirc$	<u>ت</u>

- 5. Add and manage the devices that will use the VPN function.
  - 1) In the Device List section, click Add.
  - 2) Choose and add the devices that will access the VPN server you have configured.

	evices	I access VPN server.	
	Device Type	Device Name	MAC Address
			FC-AA-14-55-FB-5D
			86-D2-DE-B9-18-62
fline D	evices		
	Device Type	Device Name	MAC Address
o Entri	es		

6. Save the settings.

t ices that will use the VPN f	unction.		
			0.044
Device Name	MAC Address	VPN Access	Add Modify
1000	FC:AA:14:55:FB:5D		乛
My-Phone	86:D2:DE:B9:18:62		乛
	ices that will use the VPN f	Device Name MAC Address FC:AA:14:55:FB:5D	Device Name       MAC Address       VPN Access         FC:AA:14:55:FB:5D       O

Done! Now the devices you specified can access the VPN server you enabled.

### Chapter 15

## **Customize Your Network Settings**

This chapter guides you on how to configure advanced network features.

It contains the following sections:

- <u>Change the Internet Settings</u>
- <u>Change the LAN Settings</u>
- <u>Configure to Support IPTV Service</u>
- <u>Specify DHCP Server Settings</u>
- <u>Set Up a Dynamic DNS Service Account</u>
- <u>Create Static Routes</u>

### 15.1. Change the Internet Settings

After setting up your internet, you can also easily change the internet settings if needed in the future.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > Internet.
- To change the internet connection settings:

Set up an internet connection v	with the service information provided I	by your ISP (
Internet Connection Type:	Dynamic IP	$\sim$
IP Address:	192.168.1.3	
Subnet Mask:	255.255.255.0	
Default Gateway:	192.168.1.1	
Primary DNS:	192.168.1.1	
Secondary DNS:	0.0.0.0	
	RENEW	
	RELEASE	
Advanced Settings		
NS Address:	Get Dynamically from ISP	~
Primary DNS:	192.168.1.1	
Secondary DNS:	0.0.0.0	
MTU Size:	1500	bytes
Host Name:	ArcherBE400	
	Get IP using Unicast DHCP	

- 1. Select the internet connection type and configure the settings according to the information provided by your ISP.
- 2. (Optional) Reveal the advanced settings and change the settings if needed. It's recommended to keep the default settings.
- 3. Click SAVE.
- To change the MAC address of the router:

MAC Clone	
Set the MAC address of your specific MAC address.	router. Use the default address unless your ISP allows internet access from only
Router MAC Address:	Use Default MAC Address
	Use Default MAC Address Clone Current Device MAC

#### You have three options:

- Use Default MAC Address Do not change the default MAC address of your router in case the ISP does not bind the assigned IP address to the MAC address.
- Clone Current Device MAC Select to copy the current MAC address of the computer that is connected to the router, in case the ISP binds the assigned IP address to the MAC address.
- Use Custom MAC Address Select if your ISP requires you to register the MAC address and enter the correct MAC address in this field, in case the ISP binds the assigned IP address to the specific MAC address.

#### To Set up NAT

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.

1. If you want to enable NAT, tick the checkbox, and click SAVE.

NAT		
NAT:	Enable NAT	

To change the Internet Port Negotiation Speed Setting

Internet Port Negotiation Speed S	etting	
Internet Port Negotiation Speed Setting:	Auto Negotiation	~

You can change the internet port speed mode. Auto Negotiation is recommended.

• To enable Flow Controller

With Flow Controller enabled, when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop sending data for a specified period of time, thus avoiding the packet loss caused by congestion. Flow Controller is enabled by default.

Flow Controller	
	when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop ied period of time, thus avoiding the packet loss caused by congestion.
Flow Control:	RX Enabled
	TX Enabled

### 15.2. Change the LAN Settings

The router is preset with a default LAN IP 192.168.0.1, which you can use to log in to its web management page. The LAN IP address together with the Subnet Mask also defines the subnet that the connected devices are on. If the IP address conflicts with another device on your local network or your network requires a specific IP subnet, you can change it.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > LAN.
- 3. Type in a new IP Address appropriate to your needs. And leave the Subnet Mask as the default settings.

LAN		
View and configure LAN	settings.	
MAC Address:	00-0A-EB-13-7B-00	
IP Address:	192.168.1.1	
Subnet Mask:	255.255.255.0	~

#### 4. Click SAVE.

**Note:** If you have set the Port Forwarding, DMZ or DHCP address reservation, and the new LAN IP address is not in the same subnet with the old one, then you should reconfigure these features.

### 15.3. Flow Controller

With Flow Controller enabled, when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop sending data for a specified period of time, thus avoiding the packet loss caused by congestion.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > LAN, and locate the Flow Controller section.
- 3. Flow Controller is enabled by default. Please note that enable Flow Controller may cause internet drop with some devices.



### 15.4. Configure to Support IPTV Service

### I want to:

Configure IPTV setup to enable Internet/IPTV/Phone service provided by my internet service provider (ISP).

### How can I do that?

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > IPTV/VLAN.
- 1. If your ISP provides the networking service based on IGMP technology, e.g., British Telecom(BT) and Talk Talk in UK:
  - 1) Tick the IGMP Proxy and IGMP Snooping checkbox, then select the IGMP Version, either V2 or V3, as required by your ISP.

IGMP	
Check the multicast settings. It is	recommended to keep them as default.
IGMP Proxy:	✓ Enabled
IGMP Snooping:	Enabled
IGMP Version:	V2 ~
Wireless Multicast Forwarding:	Enabled

- 2) Check the Wireless Multicast Forwarding status. When enabled, the multicast packets will be forwarded automatically. You are recommended to keep it as default.
- 3) Click SAVE.

4) After configuring IGMP proxy, IPTV can work behind your router now. You can connect your set-top box to any of the router's Ethernet port.

#### If IGMP is not the technology your ISP applies to provide IPTV service:

- 1) Tick Enable IPTV/VLAN.
- 2) Select the appropriate Mode according to your ISP.
  - Select Bridge if your ISP is not listed and no other parameters are required.
  - Select Custom if your ISP is not listed but provides necessary parameters.

PTV/VLAN:	Enabled	
Mode:	Bridge	~
AN 1:	Internet	~
LAN 2:	Internet	~
LAN 3:	IPTV	~
AN 4:	IPTV	~

- 3) After you have selected a mode, the necessary parameters, including the LAN port for IPTV connection, are predetermined. If not, select the LAN type to determine which port is used to support IPTV service.
- 4) Click SAVE.
- 5) Connect the set-top box to the corresponding LAN port which is predetermined or you have specified in Step 3.

### Done!

Your IPTV setup is done now! You may need to configure your set-top box before enjoying your TV.

### 15.5. Specify DHCP Server Settings

By default, the DHCP (Dynamic Host Configuration Protocol) Server is enabled and the router acts as a DHCP server; it dynamically assigns TCP/IP parameters to client devices from the IP Address Pool. You can change the settings of the DHCP Server if necessary, and you can reserve LAN IP addresses for specified client devices.

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

• To specify the IP address that the router assigns:

DHCP Server Dynamically assign IP addres	sses to the devices connected	d to the router.	
DHCP Server:	Enabled		
IP Address Pool:	192.168.0.2	- 192.168.0.253	
Address Lease Time:	120	minutes	
Default Gateway:	192.168.0.1		(Optional)
Primary DNS:			(Optional)
Secondary DNS:			(Optional)

- 1. Tick the Enable checkbox.
- 2. Enter the starting and ending IP addresses in the IP Address Pool.
- 3. Enter other parameters if the ISP offers. The Default Gateway is automatically filled in and is the same as the LAN IP address of the router.
- 4. Click SAVE.
- To reserve an IP address for a specified client device:
- 1. Click Add in the Address Reservation section.

Add a Reservation Entry		×
MAC Address:		
	VIEW CONNECTED DEVICES	
IP Address:		
	CANCEL SAVE	

- 2. Click VIEW CONNECTED DEVICES and select the you device you want to reserve an IP for. Then the MAC Address will be automatically filled in. Or enter the MAC address of the client device manually.
- 3. Enter the IP address to reserve for the client device.
- 4. Click SAVE.

### 15.6. Set Up a Dynamic DNS Service Account

Most ISPs assign a dynamic IP address to the router and you can use this IP address to access your router remotely. However, the IP address can change from time to time and you don't know when it changes. In this case, you might apply the DDNS (Dynamic Domain Name Server) feature on the router to allow you and your friends to access your router and local servers (FTP, HTTP, etc.) using a domain name without checking and remembering the IP address.

Note: DDNS does not work if the ISP assigns a private WAN IP address (such as 192.168.1.x) to the router.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > Dynamic DNS.
- 3. Select the DDNS Service Provider: TP-Link, NO-IP or DynDNS. It is recommended to select TP-Link so that you can enjoy TP-Link's superior DDNS service. Otherwise, please select NO-IP or DynDNS. If you don't have a DDNS account, you have to register first by clicking Register Now.

Dynamic DNS				
Assign a fixed host name (don router.	nain name) for remote	access to your	device, website, or	server behind the
Service	Provider: TP-Link		~	

Note: To enjoy TP-Link's DDNS service, you have to log in with a TP-Link ID. If you have not logged in with one, click log in.

4. Click Register in the Domain Name List if you have selected TP-Link, and enter the Domain Name as needed.

e (domain name) for re	emote access to	a vour device website or ser	
		s your device, website, 01 Set	ver behind the
ervice Provider: TP-	Link	~	
Domain Name:			
			Registe
Registered Date	Status	Operation	Delete
	Domain Name:	Domain Name:	Domain Name:

If you have selected NO-IP or DynDNS, enter the username, password and domain name of your account.

Dynamic DNS		
Assign a fixed host name (domain name router.	e) for remote access to your device, we	bsite, or server behind the
Service Provider:	NO-IP v	Register Now
Username:		
Password:	e Ø	
Domain Name:		
WAN IP binding:	Enable	
Status:	Not launching	
	LOGIN AND SAVE	
	LOGOUT	

### 5. Click LOGIN AND SAVE.

Tips: If you want to use a new DDNS account, please click Logout first, and then log in with a new account.

### 15.7. Create Static Routes

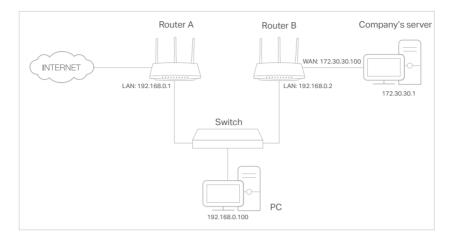
Static routing is a form of routing that is configured manually by a network administrator or a user by adding entries into a routing table. The manually-configured routing information guides the router in forwarding data packets to the specific destination.

### I want to:

Visit multiple networks and servers at the same time.

For example, in a small office, my PC can surf the internet through Router A, but I also want to visit my company's network. Now I have a switch and Router B. I connect the devices as shown in the following figure so that the physical connection between my PC and my company's server is established. To surf the internet and visit my company's network at the same time, I need to configure the static routing.

\*Image may differ from your actual product.



### How can I do that?

- 1. Change the routers' LAN IP addresses to two different IP addresses on the same subnet. Disable Router B's DHCP function.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for Router A.
- 3. Go to Advanced > Network > Routing.
- 4. Click Add and finish the settings according to the following explanations:

Add a Routing Entry		×
Network Destination:		
Subnet Mask:		
Default Gateway:		
Interface:	- Please Select - V	
Description:		
	CANCEL SAVE	

Network Destination: The destination IP address that you want to assign to a static route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of Router A. In the example, the IP address of the company network is the destination IP address, so here enter 172.30.30.1.

Subnet Mask: Determines the destination network with the destination IP address. If the destination is a single IP address, enter 255.255.255.255; otherwise, enter the subnet mask of the corresponding network IP. In the example, the destination

network is a single IP, so here enter 255.255.255.255.

Default Gateway: The IP address of the gateway device to which the data packets will be sent. This IP address must be on the same subnet with the router's IP which sends out data. In the example, the data packets will be sent to the LAN port of Router B and then to the Server, so the default gateway should be 192.168.0.2.

Interface: Determined by the port (WAN/LAN) that sends out data packets. In the example, the data are sent to the gateway through the LAN port of Router A, so LAN/WLAN should be selected.

Description: Enter a description for this static routing entry.

- 5. Click SAVE.
- 6. Check the Routing Table below. If you can find the entry you've set, the static routing is set successfully.

Routing Table			
/iew all valid routing entries	that are currently in use.		
active Route Number: 3			C Refresh
Network Destination	Subnet Mask	Gateway	Interface
172.30.30.1	255.255.255.255	192.168.0.2	LAN
192.168.0.0	255.255.255.0	0.0.00	LAN
0.0.0.0	0.0.0.0	0.0.0.0	WAN

#### Done!

Open a web browser on your PC. Enter the company server's IP address to visit the company network.

# Chapter 16

# **Manage the Router**

This chapter will show you the configuration for managing and maintaining your router. It contains the following sections:

- <u>Update the Firmware</u>
- Backup and Restore Configuration Settings
- <u>Change the Login Password</u>
- Password Recovery
- Local Management
- <u>Remote Management</u>
- <u>System Log</u>
- <u>Test the Network Connectivity</u>
- <u>Set System Time</u>
- Set the Router to Reboot Regularly
- <u>Control the LED</u>

# 16.1. Update the Firmware

TP-Link aims at providing better network experience for users.

We will inform you through the web management page if there's any new firmware available for your router. Also, the latest firmware will be released at the TP-Link official website <u>www.tp-link.com</u>, and you can download it from the <u>Support</u> page for free.

Note:

- Back up your router's configurations before firmware update.
- Do NOT turn off the router during the firmware update.

## 16.1.1. Auto Update

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System > Firmware Update.
- 3. Enable Auto Update.

Auto Update Update firmware for this r	router automatically when a new version is avai	able.	
Auto Update:			
Current Time:	2024-06-05 11:27:33 PM		Time Settings
Update Time:	03:00 AM-05:00 AM	~	

4. Specify the Update Time and save the settings.

The router will update firmware automatically at the specified time when new version is available.

#### 16.1.2. Online Update

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. When the latest firmware is available for your router, the update icon of will display in the top-right corner of the page. Click the icon to go to the Firmware Update page.

Alternatively, you can go to Advanced > System > Firmware Update, and click CHECK FOR UPDATES to see whether the latest firmware is released.

3. Focus on the Online Update section, and click UPDATE if there is new firmware.

Online Update		
Update firmware for this router over the	internet.	
Firmware Version:		
Hardware Version:		
	CHECK FOR UPDATES	

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

**V** Tips: If there's a new and important firmware update for your router, you will see the prompt notification on your computer as long as a web browser is opened. Click to update, and log in to the web management page with the username and password you set for the router. You will see the Firmware Update page.

#### 16.1.3. Local Update

- 1. Download the latest firmware file for the router from www.tp-link.com.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 3. Go to Advanced > System > Firmware Update.
- 4. Focus on the Local Update section. Click UPLOAD to locate the downloaded new firmware file, and click UPDATE.

Local Update		
Update firmware for this router from	a local file.	
New Firmware File:	t UPLOAD	
	UPDATE	

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

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

#### 16. 1. 4. EasyMesh Satellite Update

EasyMesh Satellite Update allows you to remotely check and update the firmware of the satellite devices connected to this router via EasyMesh.

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

3. The router's satellite devices will appear on the table. Click CHECK FOR UPDATES to see whether the latest firmware is released. If you want to update a satellite device, click <sup>①</sup> on the right of the corresponding device.

Note: The update will take a few minutes and the satellite router will reboot.

Туре	Device Name	Model	Firmware Version	Latest Firmware Version	Update
□.•	My RE3	Archer RE60 00XD	1.0.0 Build 20230110 rel .15178	1.0.1 Build 20230404 rel .15864 What's New	Û

# 16.2. Backup and Restore Configuration Settings

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > Backup & Restore.

#### • To backup 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 to your computer.

Backup		
Save current router settings to a file.		
	BACK UP	

- To restore configuration settings:
- 1. Click UPLOAD to locate the backup configuration file stored on your computer, and click RESTORE.

Restore	
Restore settings from a backup file.	
File:	亡 UPLOAD
	RESTORE

#### 2. Wait a few minutes for the restoring and rebooting.

Note: During the restoring process, do not turn off or reset the router.

- To reset the router except your login password and TP-Link ID:
- 1. In the Factory Default Restore section, click RESTORE.

Factory Default Restore		
Restore all settings to default values.		
Restore all configuration settings to defa	ult values, except your login and clou	d account information.
	RESTORE	

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

#### Note:

- During the resetting process, do not turn off the router.
- 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 router to factory default settings:
- 1. Click FACTORY RESTORE to reset the router.



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

#### Note:

- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

# 16.3. Change the Login Password

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

**Note:** If you are using a TP-Link ID to log in to the web management page, the account management feature will be disabled. To manage the TP-Link ID, go to Advanced > TP-Link ID.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Administration and focus on the Change Password section.

Change Password	
Change the router's local management passwor	d.
Old Password:	ø
New Password:	Ø
Confirm New Password:	Ø

- 3. Enter the old password, then a new password twice (both case-sensitive). Click SAVE.
- 4. Use the new password for future logins.

# 16.4. Password Recovery

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

**Note:** If you are using a TP-Link ID to log in to the web management page, the Password Recovery feature will be disabled. To manage the TP-Link ID, go to Advanced > TP-Link ID.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Administration and focus on the Password Recovery section.
- 3. Tick the Enable box of Password Recovery.
- 4. Specify a mailbox (From) for sending the recovery letter and enter its SMTP Server address. Specify a mailbox (To) for receiving the recovery letter. 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.

Password Recovery Reset local management passwo	ord via preset questions and answers.
Password Recovery:	Enabled
From:	
То:	
SMTP Server:	
Authentication:	Enabled
Username:	
Password:	Ø

#### 5. Click SAVE.

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

# 16.5. Local Management

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System > Administration and complete the settings In Local Management section as needed.
- Access the router via HTTPS and HTTP:

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

Local Management	
Access and manage the router from loca	l network devices.
Local Management via HTTPS:	Enable

• Allow all LAN connected devices to manage the router:

Select All Devices for Local Management.

Local Management			
Access and manage the router fro	m local network devices.		
Local Management via HTTPS:	Enabled		
5	-		
Local Managers:	All Devices	~	

- Allow specific devices to manage the router:
- 1. Select Specific Devices for Local Management and click SAVE.

Local Management Access and manage the router from	i local network devices.	
Local Management via HTTPS:	Enabled	
Local Managers:	Specified Devices ~	
		Add Device
Description	MAC Address	Modify
There is no entry!		

2. Click Add Device.

Add Device	×
Description:	(Optional)
	VIEW CONNECTED DEVICES
MAC Address:	
	CANCEL SAVE

- 3. Click VIEW CONNECTED DEVICES and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.
- 4. Specify a Description for this entry.
- 5. Click SAVE.

# 16.6. Remote Management

This feature allows you to control remote devices' authority to manage the router.

1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.

- 2. Go to Advanced > System > Administration and complete the settings in Remote Management section as needed.
- Forbid all devices to manage the router remotely:

Do not tick the Enable checkbox of Remote Management.

• Allow all devices to manage the router remotely:

Remote Management	
Access and manage the router ov	ver the internet.
	ot supported when you are connected to the internet only via IPv6. If you want e make sure vou have set up an IPv4 connection first.
ise Remote Management, please	e make sure you have set up an inve connection inst.
Remote Management:	Enabled
HTTPS Port:	443
Web Address for Management:	https://10.160.53.49:443
	All Devices

- 1. Tick the Enable checkbox of Remote Management.
- 2. Keep the HTTPS port as default settings (recommended) or enter a value between 1024 and 65535.
- 3. Select All Devices for Remote Management.
- 4. Click SAVE.

Devices on the internet can log in to <u>https://Router's WAN IP address:port number</u> (such as <u>https://113.116.60.229:1024</u>) to manage the router.

Ø Tips:

- You can find the WAN IP address of the router on Network Map > Internet.
- The router's WAN IP is usually a dynamic IP. Please refer to <u>Set Up a Dynamic DNS Service Account</u> if you want to log in to the router through a domain name.
- Allow a specific device to manage the router remotely:

Remote Management Access and manage the router ov	er the internet.	
	t supported when you are connected to the inte make sure you have set up an IPv4 connectio	
Remote Management:	Enabled	
HTTPS Port:	443	
Web Address for Management:	https://192.168.1.3:443	
Remote Managers:	Specified Device ~	
Only this IP Address:		

- 1. Tick the Enable checkbox of Remote Management.
- 2. Keep the HTTPS and HTTP port as default settings (recommended) or enter a value between 1024 and 65535.
- 3. Select Specified Device for Remote Management.
- 4. In the Only this IP Address field, enter the IP address of the remote device to manage the router.
- 5. Click SAVE.

Devices using this WAN IP can manage the router by logging in to <u>http://Router's WAN</u> IP:port number (such as <u>http://113.116.60.229:1024</u>).

Tips: The router's WAN IP is usually a dynamic IP. Please refer to <u>Set Up a Dynamic DNS Service Account</u> if you want to log in to the router through a domain name.

# 16.7. System Log

When the router 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 <u>http://tplinkwifi.net</u>, and log in your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System > System Log.
- 3. Choose the type and level of the system logs as needed.

View a deta	ailed record of sy	ystem activities.		
	c	Current Time:		
Log Type:	All	$\sim$		
Search		Q,	🗘 Refres	h 🛛 🗳 Clear Al
2020-0	7-13 18:56:59 IF	P & MAC Binding INF	FO [10144] ARP Binding enabled	
2020-0	7-13 18:56:54 A	ccess Control INFO	[9777] Service start	
2020-0	7-13 18:56:54 A	ccess Control INFO	[9777] Function disabled	
2020-0	7-13 18:56:54 A	ccess Control INFO	[9777] Service stop	
2020-0	7-13 18:56:20 A	ccess Control INFO	[8319] Service start	
			CE [8319] Flush conntrack table succeeded	1
2020-0	7-13 18:56:20 A	ccess Control INFO	[8319] Function enabled	
2020-0	7-13 18:56:19 A	ccess Control INFO	[8319] Service stop	
2020-0	7-13 18:54:35 G	20S INFO [3431] Ser	vice start	
2020-0	7-13 18:54:32 G	20S INFO [3431] Fun	action enabled	
2020-0	7-13 18:54:32 G	QoS INFO [3431] Ser	vice stop	

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 addr	ress or save locally.
	MAIL LOG
	SAVE TO LOCAL

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

For example, I want to check my router'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 <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > System Log.
- 3. In the Save Log section, click MAIL LOG.
- 4. Enter the information required:

Mail Log		×
Note: Set your mail information	n below.	
Email From:		
	Require Password	
Username:		
Email Password:	Ø	
SMTP Server:		
Email To:		
Linui io.	Mail Log Automatically	
Frequency:	Every Day V	
Mail Time:	00 ~ : 00 ~	
	CAN	ICEL SAVE
Email Password: SMTP Server: Email To: Frequency:	Mail Log Automatically  Every Day  00  Control  Contro  Control  Control  Control	ICEL SAVE

- 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 email address used for sending the system log.
- 4) Email Password: Enter the password to login the sender's email address.
- 5) SMTP Server: Enter the SMTP server address.

- 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 router 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.

```
5. Click SAVE.
```

# 16.8. Test the Network Connectivity

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

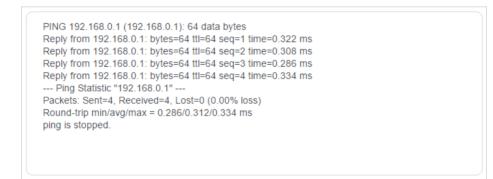
- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System > Diagnostics.

Diagnostics			
Troubleshoot network connectiv	vity problems.		
Diagnostics Tools:	Ping	~	
IP Address/Domain Name:			
Ping Count:	4		
Ping Packet Size:	64	Bytes	
	S	TART	

- 3. Enter the information:
  - 1) Choose Ping or Traceroute as the diagnostic tool to test the connectivity;
  - Ping is used to test the connectivity between the router and the tested host, and measure the round-trip time.
  - Traceroute is used to display the route (path) your router has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network.
  - 2) Enter the IP Address or Domain Name of the tested host.

- 3) Modify the Ping Count number and the Ping Packet Size. It's recommended to keep the default value.
- 4) If you have chosen Traceroute, you can modify the Traceroute Max TTL. It's recommended to keep the default value.
- 4. Click START to begin the diagnostics.

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through Ping.



The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through Traceroute.

```
traceroute to 192.168.0.1, 5 hops max, 38 byte packets
1 Archer (192.168.0.1) 0.045 ms 0.015 ms 0.008 ms
Trace Complete.
traceroute is stopped.
```

# 16.9. Set System Time

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

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

#### • To get time from the internet:

1. Enable 24-Hour Time if you want the time to display in a 24-hour way.

2. In the Set Time field, select Get from Internet.

Set the router's system time. Current Time: 2024-06-06 2 24-Hour Time: Set Time: Get from In Time Zone: (UTC-10:00	
24-Hour Time: Set Time: Time Zone: (UTC-10:00	
Set Time: Get from In Time Zone: (UTC-10:00	22:28:21
Time Zone: (UTC-10:00	
	Internet ~
	00) Hawaii
NTP Server I: us.pool.ntp.	φ. org
NTP Server II: north-ameri	erica.pool.ntp.org (Optional)

- 3. Select your local Time Zone from the drop-down list.
- 4. In the NTP Server I field, enter the IP address or domain name of your desired NTP Server.
- 5. (Optional) In the NTP Server II field, enter the IP address or domain name of the second NTP Server.
- 6. Click SAVE.
- To get time from your computer:
- 1. In the Set Time field, select Get from Managing Device.

System Time		
Set the router's system tim	le.	
Current Time:	2024-06-06 22:27:37	
24-Hour Time:		
Set Time:	Get from Managing Device	
Time Zone:	(UTC-10:00) Hawaii	~

2. The time of your computer will then be displayed and click SAVE.

#### • To manually set the date and time:

1. In the Set Time field, select Manually.

System Time		
Set the router's system t	ime.	
Current Time:	2024-06-06 22:30:17	
24-Hour Time:		
Set Time:	Manually	
Time Zone:	(UTC-10:00) Hawaii	~
Date:	2024/06/06	
Time:	22 ~ ): 30 ~ > ): 12 ~ >	

- 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 Daylight Saving Time:
- 1. Tick the Enable box of Daylight Saving Time.

Daylight Saving Time Automatically synchronize the	system time with daylight	saving time.		
Daylight Saving Time:	Enabled			
Start: 2024	Mar	~	2nd	~
	Sun	~	02:00 AM	~
End: 2024	Nov	~	First	~
	Sun	~	02:00 AM	~
Running Status:	Daylight Saving Time	e is off.		

- 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.

# 16. 10. Set the Router to Reboot Regularly

The Scheduled Reboot feature cleans the cache to enhance the running performance of the router.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System > Reboot.
- 3. Tick the Enable box of Reboot Schedule.

Reboot Schedule						
Set when and how often the ro	uter reboots automatically.					
Reboot Schedule:  Enabled						
Note: Before using this feature	Note: Before using this feature, make sure System Time is set to "Get from Internet".					
Reboot Time:	3 ~ : 00 ~ AM ~					
Repeat:	Every Week ~					
	Monday					

- 4. Specify the Reboot Time when the router reboots and Repeat to decide how often it reboots.
- 5. Click SAVE.

# 16.11. Control the LED

The LED of the router indicates its activities and status. You can enable the Night Mode feature to specify a time period during which the LED is off.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System > LED Control.
- 3. Enable Night Mode.
- 4. Specify the LED off time, and the LED will be off during this period every day.
- 5. Click SAVE.

LED Control	
Turn the router's LEDs on or off.	
LED Status:	
Note: TP-Link satellite routers will f	ollow the main router's LED Control Settings.
Night Mode	
Set a time period when the LEDs w	ill be off automatically.
Night Mode:	Enabled
Note: Before using this feature, ma	ke sure System Time is set to "Get from Internet".
Current Time:	2024-06-06 22:29:30
LED Off From:	23 ~ 00 ~
To:	7 ~ 00 ~ (next day)

# FAQ

# Q1. What should I do if I forget my wireless password?

The default wireless password is printed on the label of the router. If the password has been altered:

- 1. Connect your computer to the router using an Ethernet cable.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 3. Go to Wireless to retrieve or reset your wireless password.

## Q2. What should I do if I forget my web management password?

- If you are using a TP-Link ID to log in, or you have enabled the Password Recovery feature of the router, click Forgot password on the login page and then follow the instructions to reset it.
- Alternatively, press and hold the Reset button of the router until the Power LED blinks to restore factory default settings, and then visit <u>http://tplinkwifi.net</u> to create a new login password.

#### Note:

- Please refer to Password Recovery to learn how to configure Password Recovery.
- You'll need to reconfigure the router to surf the internet once the router is reset, and please mark down your new password for future use.

# Q3. What should I do if I can't log in to the router's web management page?

This can happen for a variety of reasons. Please try the methods below to log in again.

- Make sure your computer is connected to the router correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as Obtain an IP address automatically and Obtain DNS server address automatically.
- Make sure <a href="http://tplinkwifi.net">http://192.168.0.1</a> is correctly entered.
- Check your computer's settings:
  - 1) Go to Start > Control Panel > Network and Internet, and click View network status and tasks.
  - 2) Click Internet Options on the bottom left.
  - 3) Click Connections and select Never dial a connection.

eneral Se	curity	Privacy	Content	Connections	Programs	Advanced
	o set up etup.	o an Inter	net connec	tion, click	Set	up
Dial-up and	l Virtua	Private N	Network se	ttings		
🎒 Bro	adbar	nd Conn	ection		Add	l
					Add V	PN
					Remo	ve
Choose Server for			ed to config	jure a proxy	Sett	ings
Never	dial a d	connection	n			
🔘 Dial w	heneve	r a netwo	ork connect	tion is not pres	ent	
Alway	s dial m	ny default	connection	1		
Curren		None			Set de	fault
Local Area	Netwo	rk (LAN) s	ettings -			
			to dial-up r dial-up se	connections. ettings.	LAN se	ttings

4) Click LAN settings and deselect the following three options and click OK.

	nfiguration may override manual settings. To ensure th I settings, disable automatic configuration.
Automatic	ally detect settings
Use autor	natic configuration script
Address	
Proxy server	
	xy server for your LAN (These settings will not apply to VPN connections).
Address:	Port: 80 Advanced
Huuross,	and the second se

5) Go to Advanced > Restore advanced settings, click OK to save the settings.

🔁 Internet Properti	es				? ×		
General Security	Privacy	Content	Connections	Programs	Advanced		
Settings							
Settings							
Display Accelerator button on selection							
*Takes effect after you restart Internet Explorer							
			Restore	advanced s	ettings		
Reset Internet Exp	plorer set	tings					
Resets Internet condition. You should only				Kest			
			<u></u>				
		Ok	Ca	incel	Apply		

- Use another web browser or computer to log in again.
- Reset the router to factory default settings and try again. If login still fails, please contact the technical support.

**Note**: You'll need to reconfigure the router to surf the internet once the router is reset.

# Q4. What should I do if I can't access the internet even though the configuration is finished?

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced> Network > Status to check internet status:

#### If IP Address is a valid one, please try the methods below and try again:

- Your computer might not recognize any DNS server addresses. Please manually configure the DNS server.
  - 1) Go to Advanced > Network > DHCP Server.
  - 2) Enter 8.8.8.8 as Primary DNS, click SAVE.
  - Tips: 8.8.8 is a safe and public DNS server operated by Google.

DHCP Server						
Dynamically assgin IP addresses to the devices connected to the router.						
DHCP Server:	Enable					
IP Address Pool:	192.168.0.100	- 192.168.0	.249			
Address Lease Time:	120	minutes				
Default Gateway:	192.168.0.1		(Optional)			
Primary DNS:	8.8.8.8		(Optional)			
Secondary DNS:			(Optional)			

- Restart the modem and the router.
  - 1) Power off your modem and router, and leave them off for 1 minute.
  - 2) Power on your modem first, and wait about 2 minutes until it gets a solid cable or Internet light.
  - 3) Power on the router.
  - 4) Wait another 1 or 2 minutes and check the internet access.
- Reset the router to factory default settings and reconfigure the router.
- Upgrade the firmware of the router.
- Check the TCP/IP settings on the particular device if all other devices can get internet from the router.

As the picture below shows, if the IP Address is 0.0.0.0, please try the methods below and try again:

Status				
internet status overview is displayed on this page.				
Internet				
Status:	WAN port is unplugged			
Internet Connection Type:	Dynamic IP			
IP Address:	0.0.0.0			
Subnet Mask:	0.0.0.0			
Default Gateway:	0.0.0.0			
Primary DNS:	0.0.0.0			
Secondary DNS:	0.0.0.0			

- Make sure the physical connection between the router and the modem is proper.
- Clone the MAC address of your computer.

- 1) Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- Go to Internet or Advanced > Network > Internet and focus on the MAC Clone section.
- 3) Choose an option as needed (enter the MAC address if Use Custom MAC Address is selected), and click SAVE.

MAC Clone			
	Router MAC Address:	Use Default MAC Address	~
		Use Default MAC Address	
		Clone Current Device MAC Use Custom MAC Address	

#### Ø Tips:

- Some ISP will register the MAC address of your computer when you access the internet for the first time through their Cable modem, if you add a router into your network to share your internet connection, the ISP will not accept it as the MAC address is changed, so we need to clone your computer's MAC address to the router.
- The MAC addresses of a computer in wired connection and wireless connection are different.

#### • Modify the LAN IP address of the router.

#### Note:

Most TP-Link routers use 192.168.0.1/192.168.1.1 as their default LAN IP address, which may conflict with the IP range of your existing ADSL modem/router. If so, the router is not able to communicate with your modem and you can't access the internet. To resolve this problem, we need to change the LAN IP address of the router to avoid such conflict, for example, 192.168.2.1.

- 1) Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2) Go to Advanced > Network > LAN.
- 3) Modify the LAN IP address as the follow picture shows. Here we take 192.168.2.1 as an example.
- 4) Click SAVE.

LAN		
View and configure LAN settings.		
MAC Address:	98-DA-C4-B4-01-D8	
IP Address:	192.168.2.1	
Subnet Mask:	255.255.255.0 ~	

• Restart the modem and the router.

- 1) Power off your modem and router, and leave them off for 1 minute.
- 2) Power on your modem first, and wait about 2 minutes until it get a solid cable or Internet light.
- 3) Power on the router.
- 4) Wait another 1 or 2 minutes and check the internet access.
- Double check the internet connection type.
  - 1) Confirm your internet connection type, which can be learned from the ISP.
  - 2) Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
  - 3) Go to Advanced > Network > Internet.
  - 4) Select your Internet Connection Type and fill in other parameters.
  - 5) Click SAVE.

Internet		
Set up an internet connection with the se	ervice information provided by your ISF	(internet service provider).
Internet Connection Type:	Dynamic IP V	
IP Address:	Static IP	
Subnet Mask:	Dynamic IP	
Default Gateway:	PPPoE	
Primary DNS:	L2TP PPTP	
Secondary DNS:		
	RENEW	
	RELEASE	

- 6) Restart the modem and the router again.
- Please upgrade the firmware of the router.

If you've tried every method above but still cannot access the internet, please contact the technical support.

# Q5. What should I do if I can't find my wireless network or I cannot connect the wireless network?

#### If you fail to find any wireless network, please follow the steps below:

• Make sure the wireless function of your device is enabled if you're using a laptop with built-in wireless adapter. You can refer to the relevant document or contact the laptop manufacturer.

- Make sure the wireless adapter driver is installed successfully and the wireless adapter is enabled.
  - On Windows 7
  - 1) If you see the message No connections are available, it is usually because the wireless function is disabled or blocked somehow.
  - 2) Click Troubleshoot and windows might be able to fix the problem by itself.
  - On Windows XP
  - 1) If you see the message Windows cannot configure this wireless connection, this is usually because windows configuration utility is disabled or you are running another wireless configuration tool to connect the wireless.
  - 2) Exit the wireless configuration tool (the TP-Link Utility, for example).
  - 3) Select and right click on My Computer on desktop, select Manage to open Computer Management window.
  - 4) Expand Services and Applications > Services, find and locate Wireless Zero Configuration in the Services list on the right side.
  - 5) Right click Wireless Zero Configuration, and then select Properties.
  - 6) Change Startup type to Automatic, click on Start button and make sure the Service status is Started. And then click OK.

#### If you can find other wireless network except your own, please follow the steps below:

- Check the WLAN LED indicator on your wireless router/modem.
- Make sure your computer/device is still in the range of your router/modem. Move it closer if it is currently too far away.
- Go to Wireless or Advanced > Wireless > Wireless Settings, and check the wireless settings. Double check your wireless Network Name and SSID is not hided.

#### If you can find your wireless network but fail to connect, please follow the steps below:

- Authenticating problem/password mismatch:
  - Sometimes you will be asked to type in a PIN number when you connect to the wireless network for the first time. This PIN number is different from the Wireless Password/Network Security Key, usually you can only find it on the label of your router.



- 2) If you cannot find the PIN or PIN failed, you may choose Connecting using a security key instead, and then type in the Wireless Password/Network Security Key.
- 3) If it continues to show note of Network Security Key Mismatch, it is suggested to confirm the wireless password of your wireless router.

Note: Wireless Password/Network Security Key is case sensitive.

- Windows unable to connect to XXXX / Can not join this network / Taking longer than usual to connect to this network:
  - Check the wireless signal strength of your network. If it is weak (1~3 bars), please move the router closer and try again.
  - Change the wireless Channel of the router to 1, 6 or 11 to reduce interference from other networks.
  - Re-install or update the driver for your wireless adapter of the computer.

# FCC compliance information statement



Product Name: BE3600/BE3200 Dual-Band Wi-Fi 7 Router Model Number: Archer BE220/Archer BE3200

Component Name	Model
I.T.E. Power Supply	T120200-2B1

#### Responsible party:

#### **TP-Link Systems Inc.**

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

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 46 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

- FCC regulations restrict the operation of this device to indoor use only.
- This device cannot be used to provide connections between separate buildings or structures.

# FCC compliance information statement

Product Name: I.T.E. Power Supply Model Number: T120200-2B1 Responsible party: TP-Link Systems Inc. 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

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- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
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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 Systems Inc.**, 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: 2025-05-06

# CE Mark Warning

# **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**

#### Frequency band: 5150 - 5250 MHz:

Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted. Limited outdoor use: If used outdoors, equipment shall not be attached to a fixed installation or to the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft systems (UAS) is limited to within the 5170 - 5250 MHz band.

# Frequency band: 5250 - 5350 MHz:

Indoor use: Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted. Outdoor use is not permitted.

#### Frequency band: 5470 - 5725 MHz:

Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft systems (UAS) are not permitted.

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

# UKCA Mark UK CA

# **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 27 cm 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 27 cm de distance entre la source de rayonnement et votre corps.

For indoor use only Seulement à usage intérieur

# Industry Canada Statement

CAN ICES-003 (B)/NMB-003(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。
- 不要私自拆開機殼或自行維修,如產品有故障請與原廠或代理商聯繫。

#### 限用物質含有情況標示聲明書

設備名稱: BE3600 Dual-Band Wi-Fi 7 Router/ BE3200 Dual-Band Wi-Fi 7 Router Equipment name 型號(型式): Archer BE220/Archer BE3200 Type designation (Type)				rcher BE3200		
Restricted substances and its chemical symbols						
單元 Unit	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)
РСВ	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
外殼	$\bigcirc$	0	0	0	0	0
電源供應器	_	0	0	$\bigcirc$	$\bigcirc$	0

其他及其 配件	_	0	0	0	0	0
備考1. <sup>*</sup> 超出0.1 wt % 及 <sup>*</sup> 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.						
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: "〇" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.						
備考3. <sup>°</sup> <sup>°</sup> 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.						



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

EHC



# 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.
- This product can be wall-mounted. The installation Max. height is more than 2m.
- 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

Note: The product label can be found at the bottom of the product and its I.T.E. power supply. Symbols may vary from products.

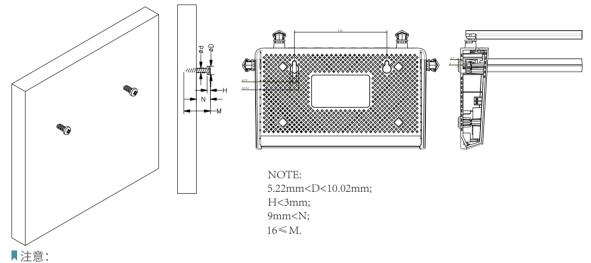
Symbol	Explanation
	Class II equipment
Ē	Class II equipment with functional earthing
$\sim$	Alternating current
	Direct current
᠅ᢆ᠊᠍᠊᠅	Polarity of d.c. power connector
$\bigtriangleup$	For indoor use only
4	Dangerous voltage
	Caution, risk of electric shock
VI	Energy efficiency Marking
	Protective earth
Ţ	Earth
$\downarrow$	Frame or chassis
¢.	Functional earthing

Symbol	Explanation
	Caution, hot surface
$\underline{\wedge}$	Caution
• III	Operator's manual
(	Stand-by
$\bigcirc$	"ON"/"OFF" (push-push)
	Fuse
- <u>-</u> N	Fuse is used in neutral N
	RECYCLING 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. 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.
Rei	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction
μ	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US)
3	Switch without contact gap (Semiconductor switching device)

# Appendix I

定位您的路由器

- •產品不應放置在會受潮濕或過高溫度的地方。
- 將路由器放置在能夠連接多個設備並接上電源的地方。
- •請確保線和電源線放置在安全位置,以免造成絆倒的危險。
- 路由器可以放置在架子上或桌面上。
- 將路由器遠離具有強烈電磁干擾的設備,例如藍牙設備、無線電話和微波爐。
- •通常,路由器放置在水平的表面上,例如在架子上或桌面上。該設備還可以安 裝在牆上,如下圖所示。



螺絲頭直徑為5.22mm<D<10.02mm,兩個螺絲之間的距離為113mm。從牆壁突出的螺絲需要約8.7mm的基底,並且螺絲的長度至少需要16mm才能承受產品的重量。

# 產品標籤上符號的解釋

符號可能因產品而異。

注意:產品標籤可以在產品底部和其I.T.E.電源供應器上找到。

注意:產品標籤可在產品底部找到。

符號	說明
	二級設備
Ē	具有接地功能的二級設備
$\sim$	交流電
	DC電壓

符號	說明
♦€♦	輸出端點的極性
$\bigtriangleup$	僅供室內使用
4	危險電壓
	請注意,有觸電的危險
VI	能源效率標誌
	保護接地
Ţ	接地
$\rightarrow$	框架或外殼
Ē	功能接地
	請注意,表面過熱
$\wedge$	敬 <u>先</u> 言口
• III	操作手冊
(	待機
	"開啟"/"關閉" (按壓式)
	保險絲
₩.	保險絲用於中性線N
	回收 "這個產品帶有歐盟指令2012/19/EU中關於廢棄電氣電子設備(WEEE)的選擇性分類標 誌。這意味著,該產品必須按照該指令處理,以便進行回收或拆解,從而最大限度地減 少對環境的影響。用戶可以選擇將產品交給有資格的回收機構,或在購買新的電器或電 子設備時將其交給零售商進行回收。"
Gu	請小心,避免長時間以高音量收聽。

符號	說明
	斷線,所有電源插頭
m	迷你間隙結構開關
μ	"小間隙結構開關(US版本) 小間隙/小斷開結構的開關(非US版)"
٤	無接觸間隙的開關(半導體開關設備)

#### 運作溫度: 0°C~40°C (32°F~104°F)

適配器應安裝在設備附近,並應易於接近。

請使用製造商提供的電源適配器。如果您有任何問題,請隨時與我們聯繫。