User Guide

Wi-Fi 6 Range Extender

RE500X/RE600X/RE700X

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Contents

About This Guide 1

Chapter 1. Get to Know About Your Extender 3

1. 1. Product Overview 4
1. 2. Appearance 4
1. 2. 1.LED Explanation 5
1. 2. 2.Button Description 5

Chapter 2. Set Up Internet Connection 6

2. 1. Power On the Extender 7
2. 2. Set Up the Extender 7
2. 2. 1.Method 1: Via the TP-Link Tether App 7
2. 2. 2.Method 2: Via a Web Browser 8
2. 2. 3.Method 3: Via the WPS Button 12

Chapter 3. EasyMesh with Seamless Roaming 14

3. 1. What's an EasyMesh Network 15
3. 2. How to Set Up an EasyMesh Network 16
3. 3. How to Manage an EasyMesh Network 16

Chapter 4. TP-Link Cloud Service 17

4. 1. Register a TP-Link ID 18
4. 2. Change Your TP-Link ID Information 18
4. 3. Manage the User TP-Link IDs 19
4. 3. 1.Add TP-Link ID to Manage the Extender 20
4. 3. 2.Remove TP-Link ID(s) from Managing the Extender 20
4. 4. Manage the Extender via the TP-Link Tether App 21

Chapter 5. Customize Your Network 22

5. 1. Check Internet Status 23
5. 2. Configure Wireless Network 24
5. 3. Change LAN Settings 26
5. 4. Adjust Wi-Fi Coverage 27
5. 5. Set Access Control 28
5. 6. Set High Speed Mode 30

Chapter 6. Use Your Extender as an Access Point 32

6. 1. Set Up the Extender as an Access Point 33

6. 2. Connect Wireless Devices to the Extender 35
Method 1: Connect to the extender manually 35
Method 2: Connect to the extender via WPS 35
6. 3. LED Explanation for the Access Point Mode 36

Chapter 7. Manage Your Extender 37

7. 1. Set System Time 38
7. 2. Control LEDs 38
7. 3. Set Power Schedule 39
7. 4. Upgrade the Firmware 40
7. 5. Backup and Restore Configuration Settings 41
7. 6. Change Login Password 42
7. 7. Check System Log 43

FAQ 44

About This Guide

This guide is a complement to Quick Installation Guide. The Quick Installation Guide provides instructions for quick internet setup, while this guide contains details of each function and demonstrates how to configure them.

Note: Features available in this range extender may vary by model and software version. Range extender 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 range extender experience.

Conventions

In this guide the following conventions are used:

Convention	Description
Underline	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 and so on.
>	The menu structures to show the path to load the corresponding page. For example, Settings > System Tools > Firmware Upgrade means the Firmware Upgrade page is under the System Tools menu that is located in the Settings tab.
Note:	Ignoring this type of note might result in a malfunction or damage to the device.
Tip:	Indicates important information that helps you make better use of your device.

More Info

The latest software, management app and utility are available from Download Center at https://www.tp-link.com/support.

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

Operating temperature, storage temperature, and other specifications can be found on the product page at https://www.tp-link.com.

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

Our Technical Support contact information can be found at the Contact Technical Support page at https://www.tp-link.com/support.

Disclaimer

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage per ft² are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

*The product may not be compatible with routers or gateways with firmware that has been altered, is based on open source programs, or is non-standard or outdated.

*Uninterrupted Streaming is designed for devices that support the 802.11k/v standard.

*Up to 4x Capacity refers to 4x increase in median throughput under dense environment compared to 11ac wave 2 range extender.

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

*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 EasyMesh-compatible function is still being developed on some models and will be supported in subsequent software updates.

*Unified management is available for TP-Link EasyMesh-compatible devices. This feature is not guaranteed for devices from other vendors.

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.

Chapter 1

Get to Know About Your Extender

This chapter introduces what the extender can do and its appearance.

It contains the following sections:

- Product Overview
- Appearance

1. 1. Product Overview

Bring Dead Zones Back to Life

Tired of Wi-Fi "dead zones"? The TP-Link extender is connected to your router wirelessly, strengthening its signal and expanding its coverage into areas that could not otherwise be reached.

Easy Installation & Quick Position

The extender works with any standard wireless router. Instantly connect the extender to a router by pressing the router's WPS button (if available) followed by the extender's WPS button. Alternatively, follow the Quick Setup instructions on the extender's web management page.

Once the extender is connected to a router, you can relocate it to your preferred location with no further configuration required. The intelligent signal light can help to find the best location.

Easy Management with the TP-Link Tether App

Tether provides a simple, intuitive way to access and manage your extender with your smart devices.

1. 2. Appearance



Note:
The provided plug may differ from the picture due to different regional power specifications .

1. 2. 1. LED Explanation

You can check the extender's working status by following the LED Explanation table.

Name	Status	Indication
(Power)	On/Off	The extender is on or off.
	Blinking	The system is starting up or firmware is being upgraded.
(Signal)	Solid blue	The extender is connected to your router's wireless network and is in a suitable location.
	Solid red	The extender is receiving a weak signal. Try relocating it closer to your router.
	Blinking	WPS connection is in progress.
	Off	No wireless connection is established.
2.4G	On/Off	The extender is connected or not connected to the 2.4GHz wireless network of your router.
5G	On/Off	The extender is connected or not connected to the 5GHz wireless network of your router.

1. 2. 2. Button Description

The buttons are on the side panel of the product.

Button	Description
/ / WPS	Press the WPS button on your router, and immediately press this button on the extender for 1 second. The LED of the extender should change from blinking to solid on, indicating successful WPS connection.
Reset	Use a pin to press the button for 1 second to reset the extender.

Chapter 2

Set Up Internet Connection

This chapter introduces how to boost your host wireless coverage. Please follow the step-by-step instructions to set up the internet connection.

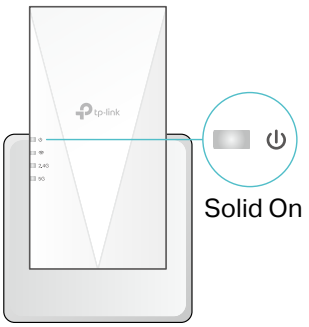
It contains the following sections:

- Power On the Extender
- Set Up the Extender

2. 1. Power On the Extender

Plug the extender into an electrical outlet next to your router, and then wait until the Power LED turns solid on.

Note: For safety, only plug the extender in upright direction as shown below.



2. 2. Set Up the Extender

There are three ways to set up the extender: via the TP-Link Tether app, via a web browser, or via the WPS button.

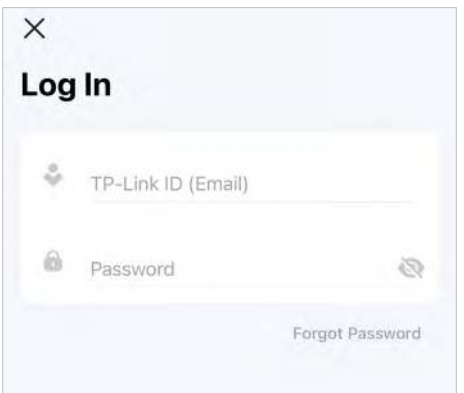
2. 2. 1. Method 1: Via the TP-Link Tether App

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.

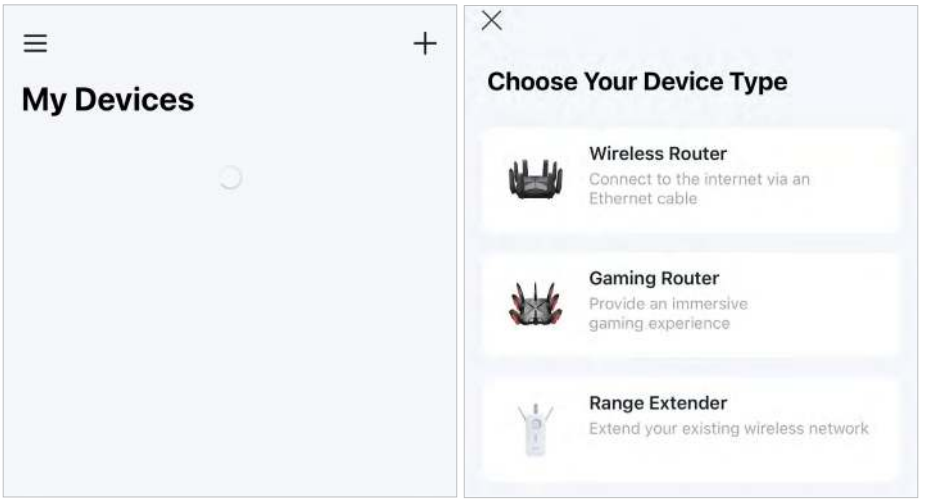


2. Launch the Tether app and log in with your TP-Link ID.

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



3. Tap the + icon on the upper-right corner and select Range Extender.



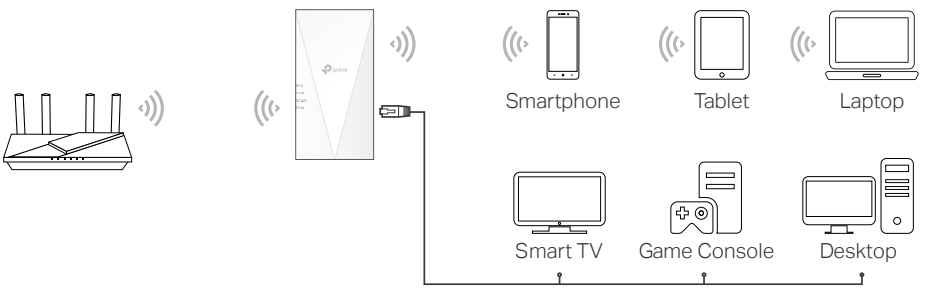
4. Follow app instructions to set up your extender.

If the extender connects to an EasyMesh router, it will copy the router's wireless settings for seamless roaming. For more information about EasyMesh, refer to EasyMesh with Seamless Roaming.

5. Follow app instructions to relocate your extender.

Tip:
For more intuitive location assistance, access extender settings via Tether and go to find Location Assistant. You can also manage your extender via Tether, such as controlling LEDs, sharing passwords of your networks and blocking devices.

6. Enjoy! Connect your devices to the extender wirelessly or via an Ethernet cable, then enjoy the internet.



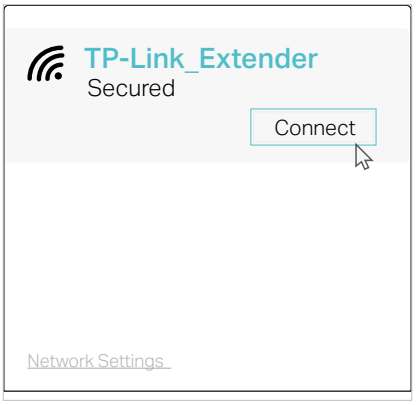
2. 2. 2. Method 2: Via a Web Browser

1. Connect your computer to the extender wirelessly as follows:

- For Windows Users

1) Unplug the Ethernet cable from your computer (if any).

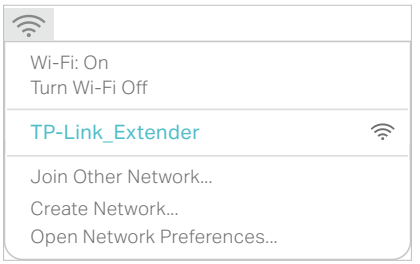
2) Click the Wi-Fi icon on the taskbar and connect to the extender's wireless network: TP-Link_Extender.



- For Mac OS X Users

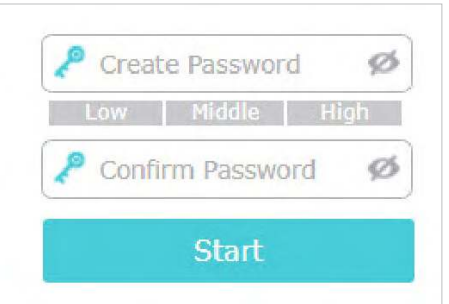
1) Unplug the Ethernet cable from your computer (if any).

2) Click the Wi-Fi icon in the top right corner of the screen, and connect to the extender's network: TP-Link_Extender.



2. Follow the instructions of the Quick Setup Wizard to connect the extender to your main router.

1) Launch a web browser, enter http://www.tplinkrepeater.net or http://192.168.0.254 in the address bar, and then create a password to log in.

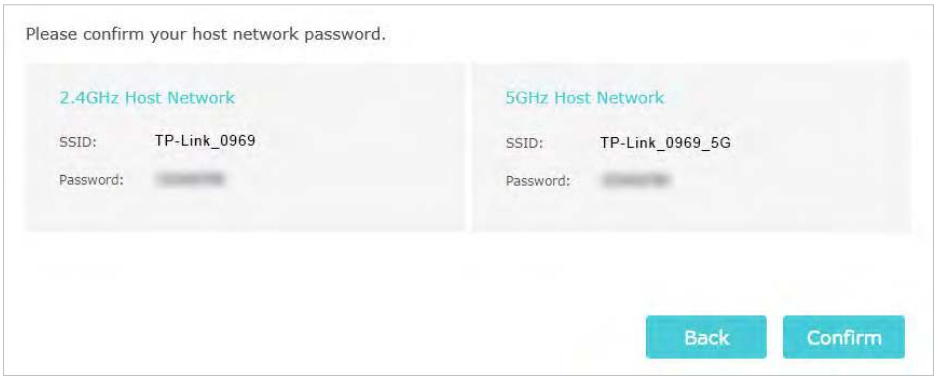


Note:
If the login window does not appear, please refer to FAQ.

2) Select your main router's 5GHz SSID (network name) or 2.4GHz SSID, enter its password (NOT the password you just created for management), and click Next.

Note:
If your router does not support 5GHz wireless network, please click Skip to continue.

3) Confirm your main network password.

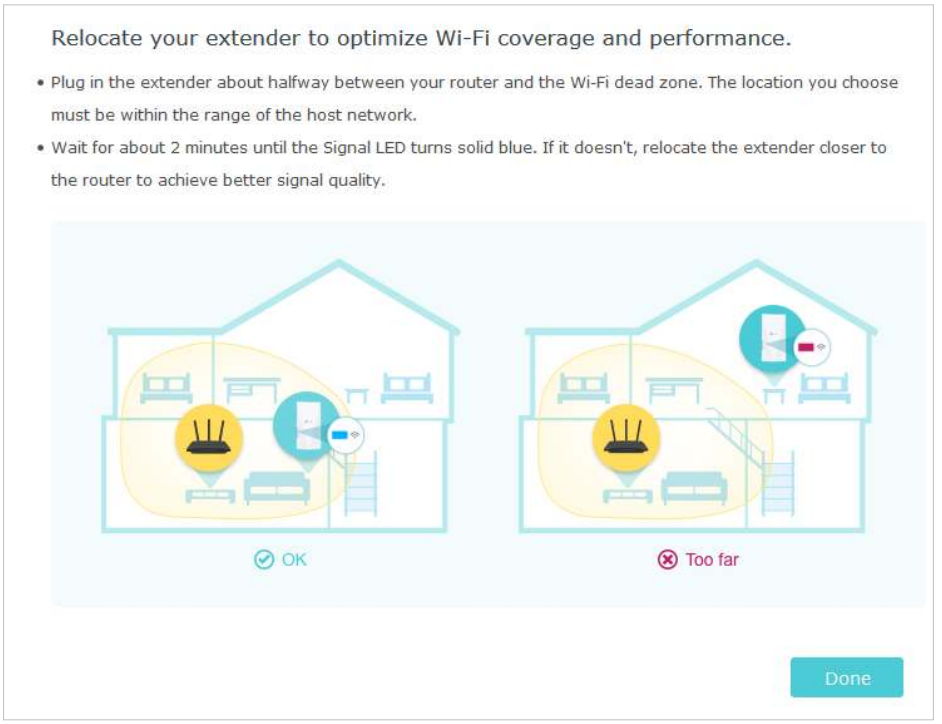


4) Either keep the default SSIDs (network names) or customize them for the extended networks, and then click Next.

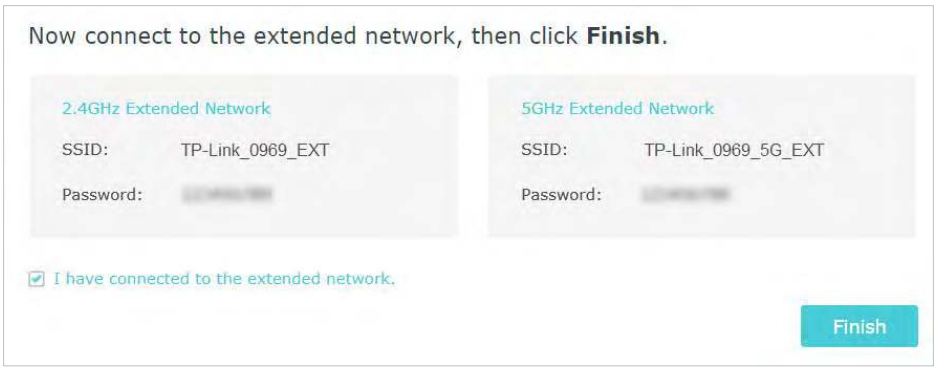
Tip:
If you connect the extender to a TP-Link EasyMesh router, the extender will automatically join the router's EasyMesh network and copy the router's wireless settings. For more information, refer to EasyMesh with Seamless Roaming.



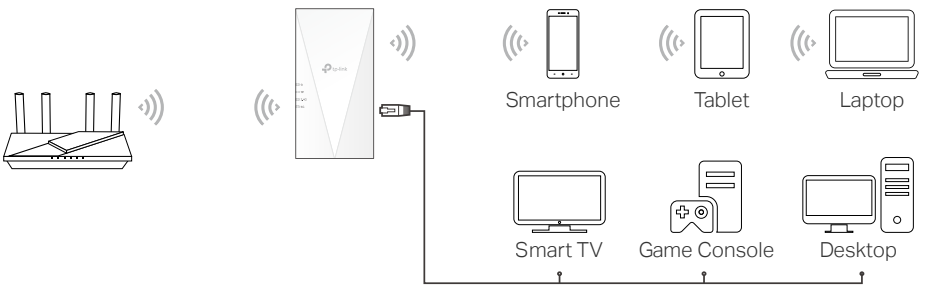
5) Follow web instructions to relocate your extender for optimal Wi-Fi coverage and performance, and then click Done.



6) Note down your extended network information and finish the setup.



7) Enjoy! Connect your devices to the extender wirelessly or via an Ethernet cable, then enjoy the internet.

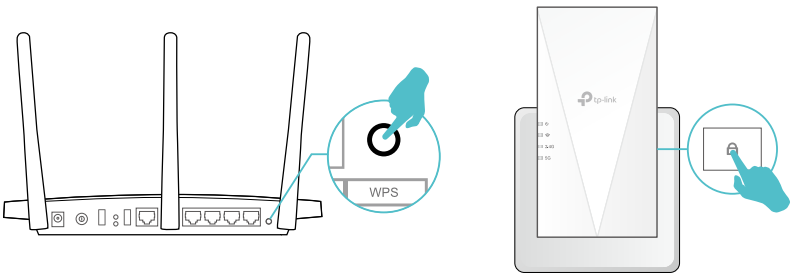


2. 2. 3. Method 3: Via the WPS Button

Use this way if your router has a WPS button. The button might look like one of these: .

1. Activate the WPS function on your router by pressing the WPS button.

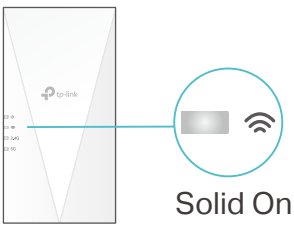
Note:
If you don't know how to do it, refer to your router's user manual, or you can use other methods to set it up.



2. Within 2 minutes, press the WPS button on the extender for 1 second, and the LED starts blinking. Wait for the LED, 2.4GHz LED and 5GHz LED to turn solid blue, indicating a successful connection.

Note:
If only the 2.4GHz or 5GHz LED is solid blue, check to see if the router has both 2.4GHz and 5GHz bands turned on. If both are turned on, try WPS again or use other methods.

3. If the extender connects to a dual band router, repeat steps 1 and 2 above to connect to the other band. Wait until the Signal LED turns solid on, and the setup is done.



Extended Network Names:
Router's network name with _EXT at the end
or
Same as your EasyMesh router

Passwords:
Same as your router

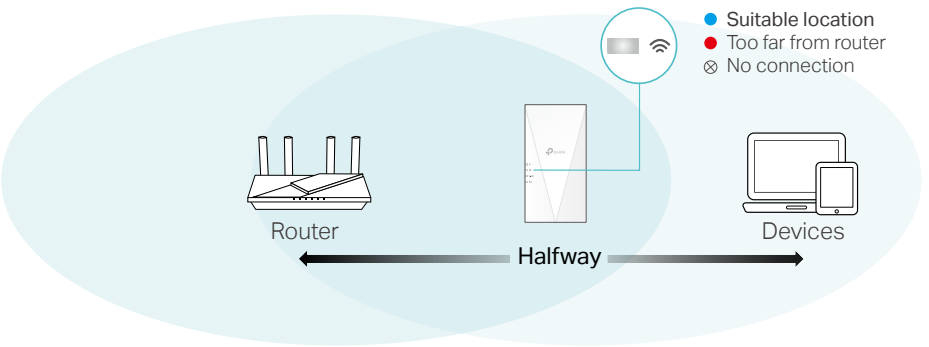
Note:
If you want to customize the extended network name, refer to Configure Wireless Network.

If you cannot find the network names with **_EXT** in your Wi-Fi network list, this means that the extender has been connected to an EasyMesh router and automatically copied its wireless settings. For more information, refer to EasyMesh with Seamless Roaming.

4. Relocate your extender for optimal Wi-Fi coverage and performance.

1) Plug in the extender about halfway between your router and the Wi-Fi dead zone. The location you choose must be within the range of your router.

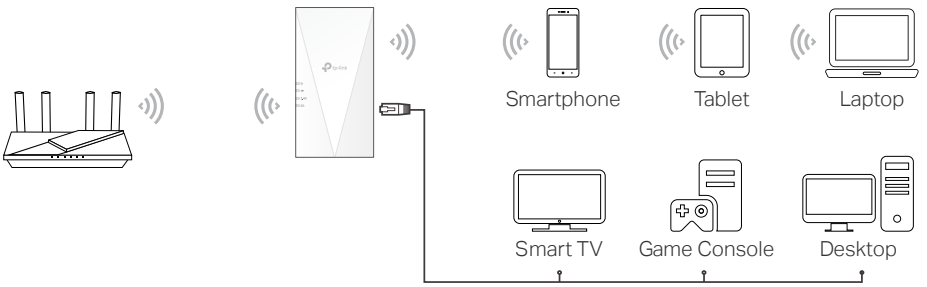
2) Wait for about 2 minutes until the Signal LED turns solid blue. If it doesn't, relocate the extender closer to the router to achieve better signal quality.



Tip:

To minimize signal interference, please choose a location which is far away from Bluetooth devices and other household electronic devices, such as cordless phones, microwave ovens and baby monitors.

5. Enjoy! Connect your devices to the extender wirelessly or via an Ethernet cable, then enjoy the internet.



Chapter 3

EasyMesh with Seamless Roaming

This chapter introduces the EasyMesh feature.

It contains the following sections:

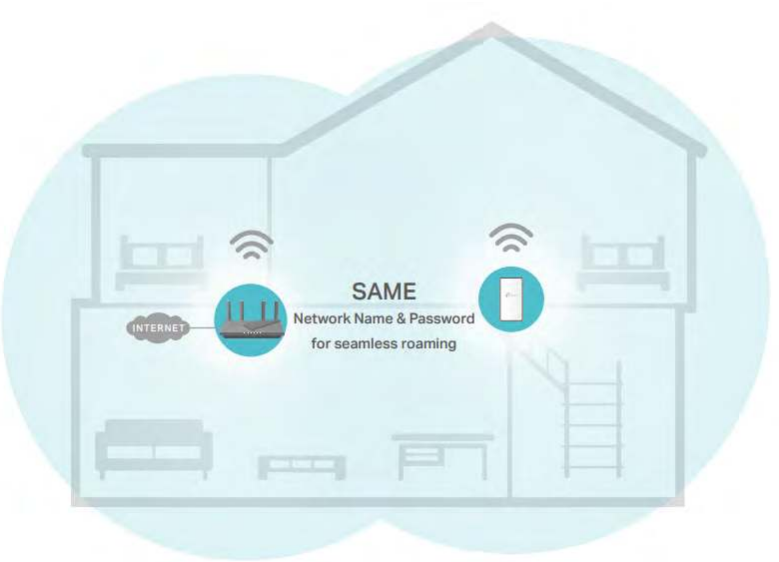
- What's an EasyMesh Network
- How to Set Up an EasyMesh Network
- How to Manage an EasyMesh Network

3. 1. What's an EasyMesh Network

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

Note:

- Routers and range extenders must be compatible with EasyMesh or OneMesh™. Firmware upgrades may be required.
- 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 EasyMesh-Compatible function is still being developed on some models and will be supported in subsequent software updates.



Flexible Scalability

Flexibly scale your home networking with different vendors,* different topologies, different Protocols and different product categories.

Seamless Roaming

Connects mobile devices to your routers or extenders that provide the best coverage. Devices compatible with EasyMesh also share a single Wi-Fi name so you stay connected in every room.

One-Click Settings

Press the WPS button on the main router and the satellite device within 2 minutes of each other, then the EasyMesh network will set up.

For more information, visit https://www.tp-link.com/easymesh/.

3. 2. How to Set Up an EasyMesh Network

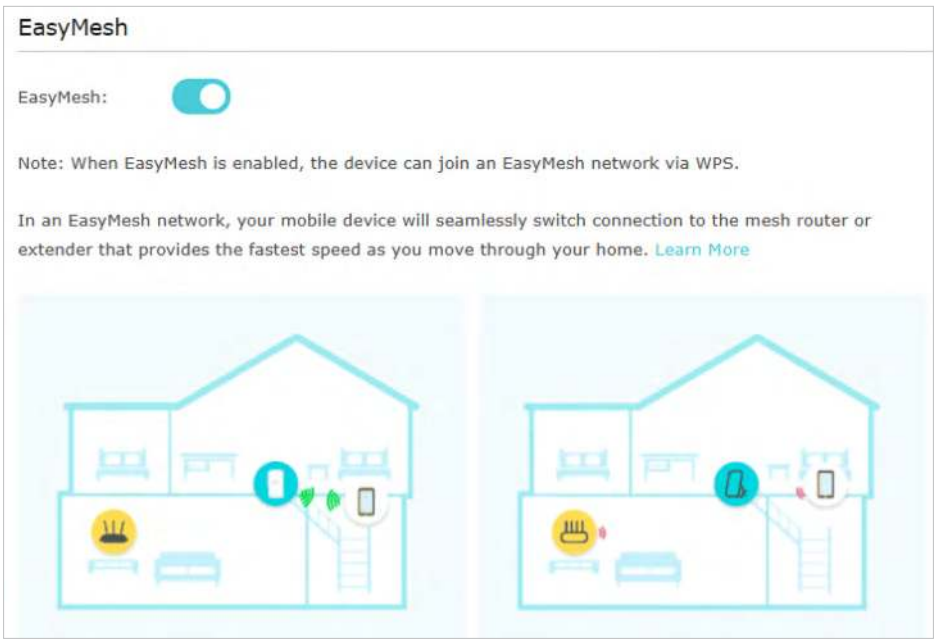
1. Make sure your router is compatiable with EasyMesh or OneMesh™.
2. Connect the extender to your router by referring to the provided Quick Installation Guide or Set Up Internet Connection. The extender will automatically join your router's mesh network.

3. 3. How to Manage an EasyMesh Network

- **To leave or join an EasyMesh network:**

1. Visit http://www.tplinkrepeater.net, and log in with the password you set for the extender.
2. Go to Settings > EasyMesh.
3. Toggle off or on Join EasyMesh according to your needs.

Note: This function is available only when the extender is connected to an EasyMesh router.



- **To change wireless settings:**

Simply change wireless settings on your EasyMesh router, the extender will automatically copy the settings.

- **To manage devices in the EasyMesh network:**

1. Connect your computer or smartphone to the extender's or router's network.
2. Log in to your router's web management page (http://tplinkwifi.net).
3. Go to the EasyMesh page to view and manage all mesh devices and their clients.

Chapter 4

TP-Link Cloud Service

TP-Link Cloud service provides a better way to manage your cloud devices. Log in to your cloud device 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 on your smartphone or tablet. To ensure that your cloud device stays new and gets better over time, the TP-Link Cloud will notify you when an important firmware upgrade is avaliable. 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 cloud device, and the Tether app with which you can manage your home network no matter where you may find yourself.

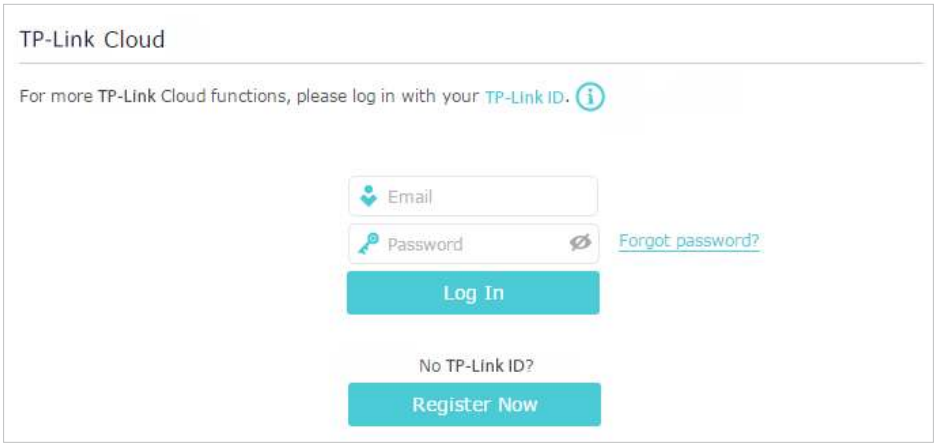
It contains the following sections:

- Register a TP-Link ID
- Change Your TP-Link ID Information
- Manage the User TP-Link IDs
- Manage the Extender via the TP-Link Tether App

4. 1. Register a TP-Link ID

When you log in after initial setup, the web page will ask whether you need TP-Link Cloud service. You can also access the TP-Link Cloud settings as follows:

1. Visit http://tplinkrepeater.net, and log in with the password you set for the extender.
2. Go to Settings > TP-Link Cloud.
3. Click Register Now and follow the instructions to register a TP-Link ID.



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

Notes:

- 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 Extender via the TP-Link Tether App to install the app and register a new one.
- If you want to unbind the admin TP-Link ID from your extender, please go to Settings > TP-Link Cloud, an click Unbind in the Device Information section.

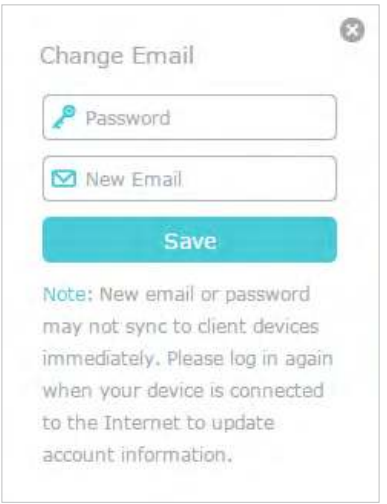
4. 2. Change Your TP-Link ID Information

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

1. Visit http://tplinkrepeater.net, and log in with your TP-Link ID.
2. Go to Settings > TP-Link Cloud, and focus on the Account Information section.

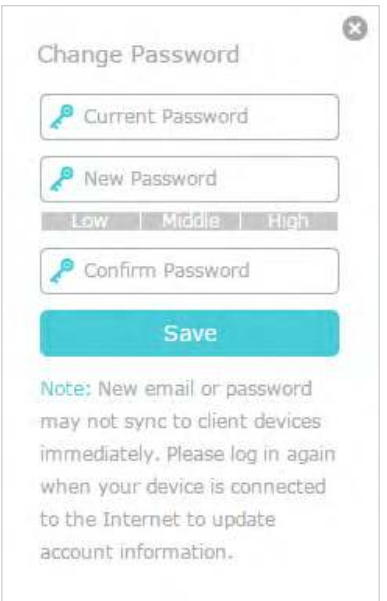
- **To change your email address**:

1. Click behind the Email.
2. Enter the password of your TP-Link ID, then a new email address. And click Save.



- **To change your password:**

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



4. 3. Manage the User TP-Link IDs

The TP-Link ID used to log in to the extender 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 extender as Users. All accounts can monitor and manage the extender locally or remotely, but user accounts cannot:

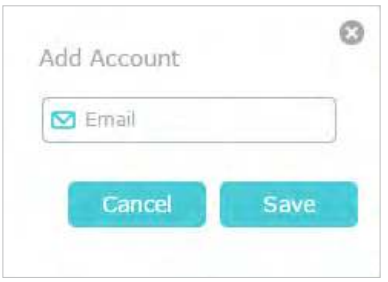
- Reset the extender to its factory default settings either on the web management page or in the Tether app.

- Add/remove other TP-Link IDs to/from the extender.

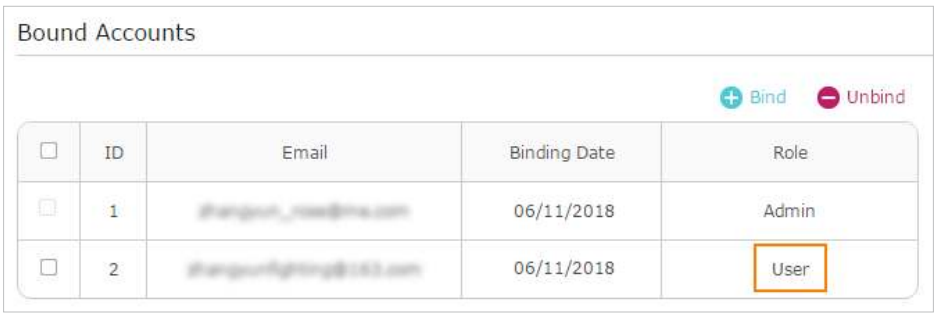
4. 3. 1. Add TP-Link ID to Manage the Extender

1. Visit http://tplinkrepeater.net, and log in with your TP-Link ID.
2. Go to Settings > TP-Link Cloud, 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. Please refer to Manage the Extender via the TP-Link Tether App to install the app and register a new TP-Link ID.

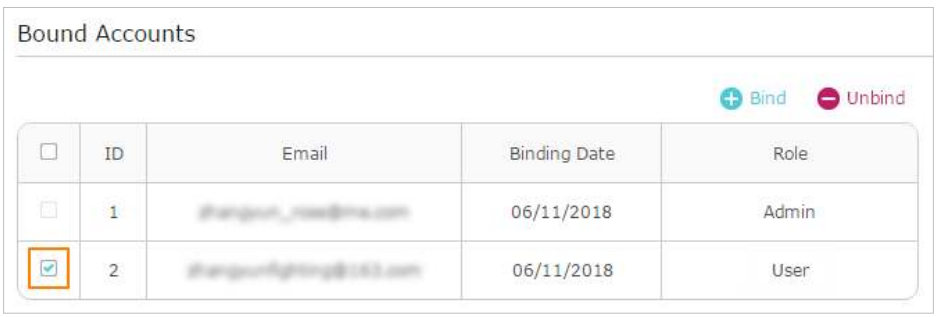


4. The new TP-Link ID will be displayed in the Bound Accounts table as a User.



4. 3. 2. Remove TP-Link ID(s) from Managing the Extender

1. Visit http://tplinkrepeater.net, and log in with your TP-Link ID.
2. Go to Settings > TP-Link Cloud, 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.



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

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

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

Chapter 5

Customize Your Network

This chapter guides you on how to configure network settings that are available for this extender.

It contains the following sections:

- Check Internet Status
- Configure Wireless Network
- Change LAN Settings
- Adjust Wi-Fi Coverage
- Set Access Control
- Set High Speed Mode

5. 1. Check Internet Status

You can view the internet status of your extender to check whether you have successfully set up the extended network(s).

1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Status to view the internet status of your extender.
   - The extender runs normally.



   - The extender fails to connect to the host networks. Please go to Settings > Wireless > Connect to Network to check whether the host network passwords are correct. If the problem still exists, relocate the extender closer to the router to achieve better signal quality.



   - The extender is connected to the host networks, but is not transmitting data. Please check the internet connection of your router.



   - The extender is connected to the router abnormally. Please go to Settings > Network and try setting your extender to obtain an IP address automatically.



Click the icon of the Internet/Router/Range Extender/Clients to view corresponding information.

5. 2. Configure Wireless Network

If you want to extend another host network after Quick Setup, you can refer to this section. Moreover, you can change the wireless settings for your extended networks.

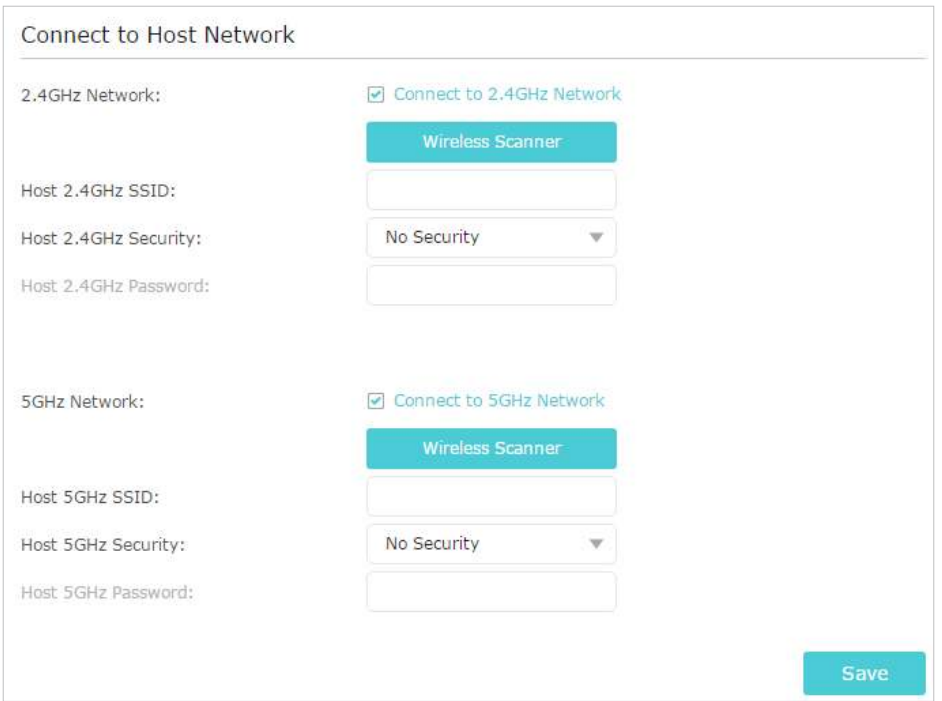
Tip:
If the extender is in your router's EasyMesh network, it will automatically copy wireless settings from your router. No wireless settings is needed for the extender.

Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.

Note:
Here we take the configuration of the 2.4GHz network as an example. If the 5GHz network is available on your extender, please refer to the instructions to set your 5GHz network.

- **To extend another host network:**

1. Go to Settings > Wireless > Connect to Network.
2. Enable Connect to 2.4GHz Network and click Wireless Scanner to find all available networks.



3. Select the 2.4GHz host network you want to extend.

Note:
If the network you want to extend is on but not listed, please try the following steps.
· Move the extender closer to your router, and rescan for networks.
· You can manually enter the SSID (network name) and password of the network you want to extend, and click Save.

4. Once a main network is selected, the SSID and security type will be automatically filled in. If the selected network is encrypted, enter the password in the Password field.

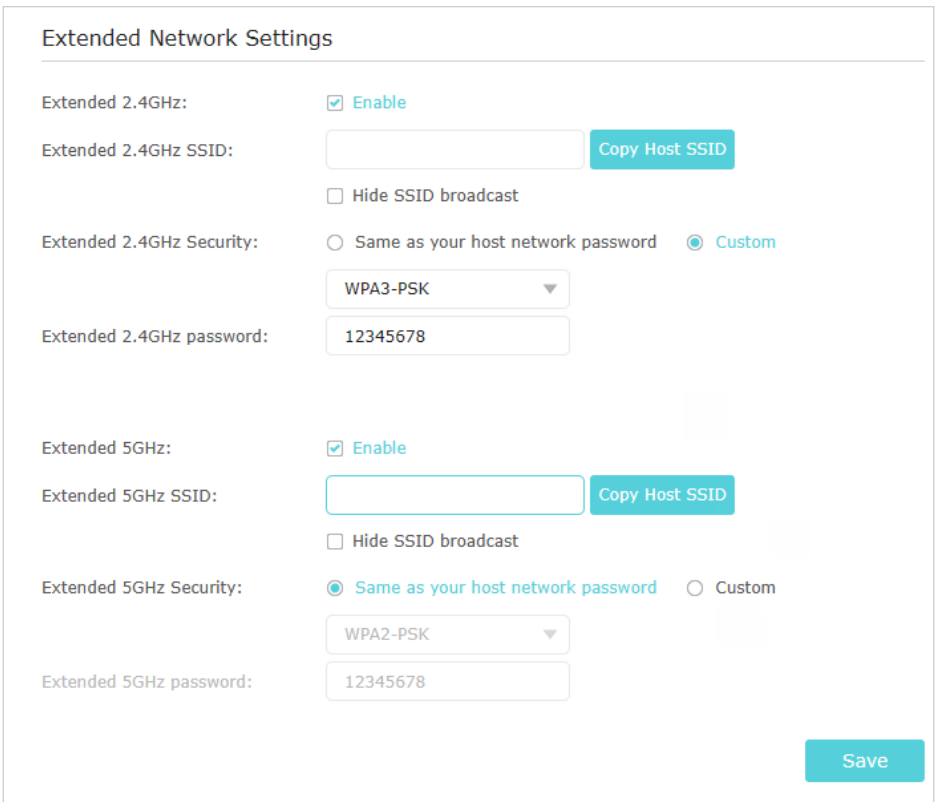
5. Click Save.

- **To enable or disable the extended network:**

1. Go to Settings > Wireless > Extended Network.
2. Extended networks are enabled by default. If you want to disable the wireless function of a certain band, just clear the Enable checkbox. In this case, all the wireless settings of this band will be invalid.
3. Click Save.

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

1. Go to Settings > Wireless > Extended Network.
2. Create a new SSID in Extended 2.4GHz SSID or click Copy Host SSID. The value is case-sensitive.



3. Click Save.

Note:
If you have changed the wireless settings via a wireless device, you will be disconnected after the settings are applied. Please write down the new SSID for future use.

- **To change the security of the extended network:**

1. Go to Settings > Wireless > Extended Network.
2. Set the Security mode of your extended network.

- You can simply select Same as your host network password.
- Or click Custom, specify the extended network's security mode and password (case-sensitive). If you select No Security, no password is required.

3. Click Save.

- **To hide the SSID of the extended network:**

1. Go to Settings > Wireless > Extended Network.
2. Select Hide SSID broadcast, and the corresponding SSID will not be displayed when wireless devices scan for local wireless networks. You need to manually enter the SSID to join the network.
3. Click Save.

- **To configure wireless settings:**

1. Go to Settings > Wireless > Wireless Settings.
2. Configure the functions according to your needs, and click Save.



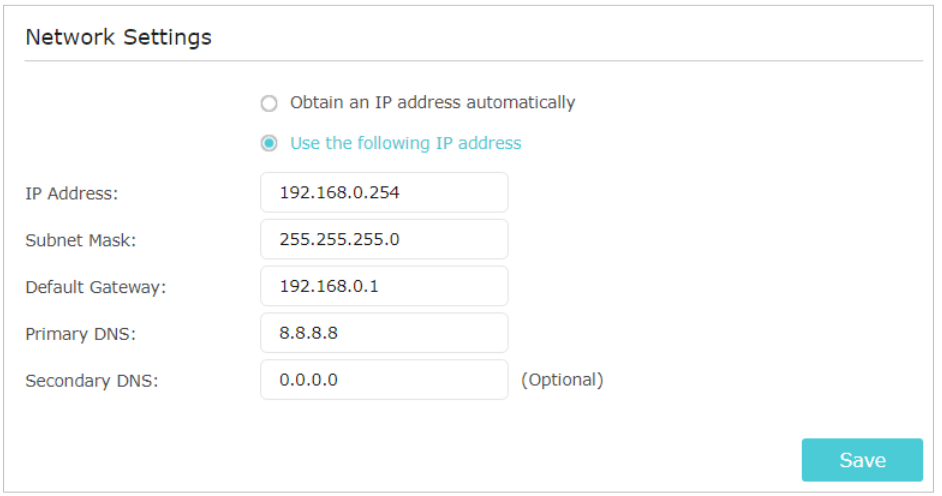
- **TWT (Target Wake Time):** allows 802.11ax devices and clients to negotiate their periods to transmit and receive data packets. Clients only wake up at TWT sessions and remain in sleep mode for the rest of the time, which significantly extend their battery life. It is disabled by default.
- **OFDMA/MU-MIMO:** 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. MU-MIMO (Multi-User Multiple-Input Multiple-Output) enables the device to simultaneously send data to multiple clients, significantly enhancing network efficiency.

5. 3. Change LAN Settings

The extender is preset with a default LAN IP 192.168.0.254, with which you can log in to the 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 http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Network.
3. Select Use the following IP address.
4. Enter a new IP Address as needed and leave the Subnet Mask as the default settings .
5. Enter the gateway that is in the same subnet as the IP address. The gateway is usually the LAN IP address of your router.
6. Enter the DNS IP address provided by your ISP.

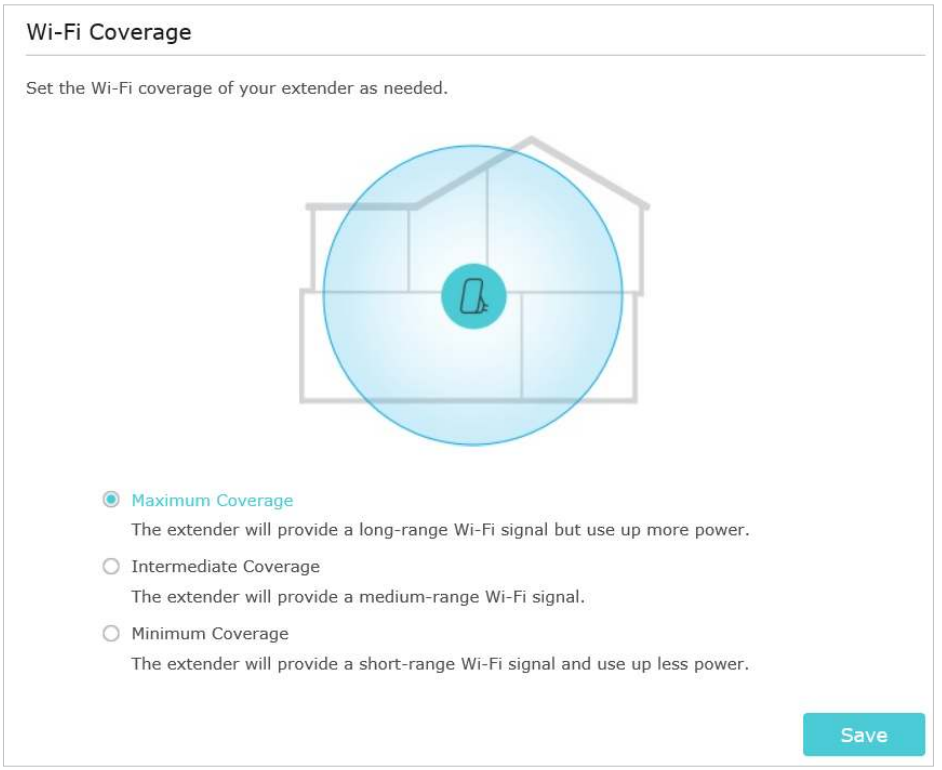


7. Click Save.

5. 4. Adjust Wi-Fi Coverage

You can set the extender's Wi-Fi coverage depending on how large you want your Wi-Fi area to be.

1. Visit http://www.tplinkrepeater.net and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Advanced Settings > Wi-Fi Coverage.
3. Select your desired Wi-Fi coverage level for the extender.



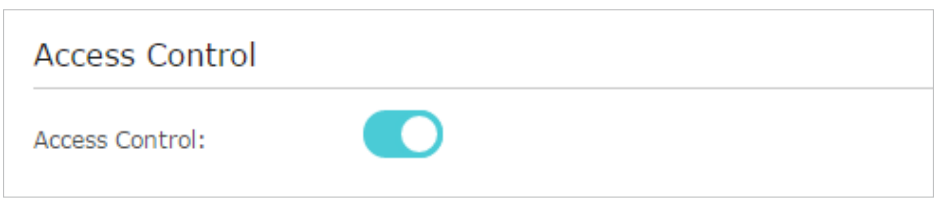
4. Click Save.

5. 5. Set Access Control

Access Control allows you to permit or block specific devices from accessing the internet for a specific period.

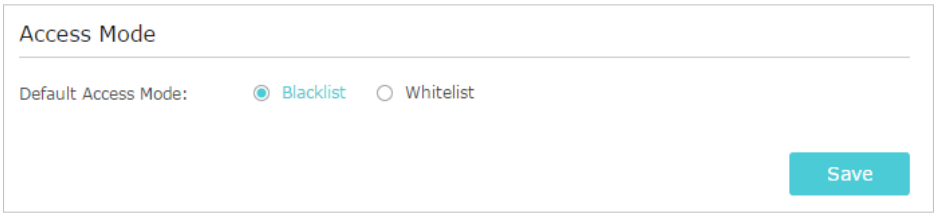
Tip:
If the extender is in your router's EasyMesh network, it will automatically copy access control settings from your router. No access control settings is needed for the extender.

1. Visit http://www.tplinkrepeater.net and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Advanced Settings > Access Control.
3. Enable Access Control.

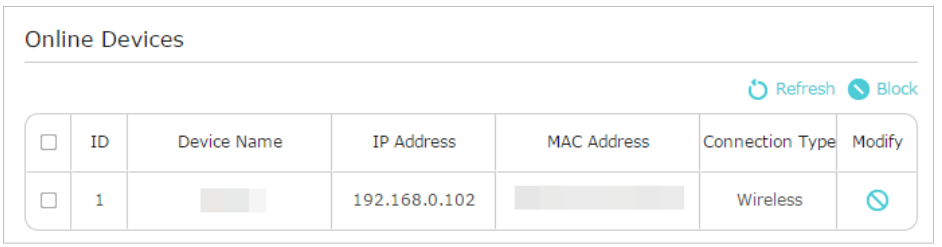


- **To block specific device(s):**

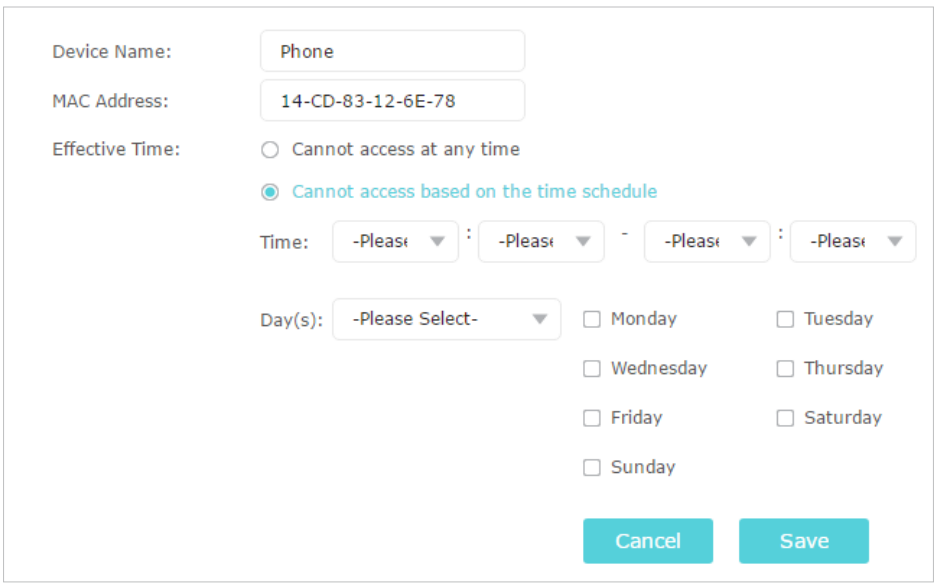
1. Select Blacklist and click Save.



2. Select the device to be blocked in the Online Devices table by ticking the corresponding checkbox.
3. Click Block and the selected device(s) will be added to the Devices in Blacklist table.



4. Click in the Devices in Blacklist table to set the Effective Time for a certain entry as needed.



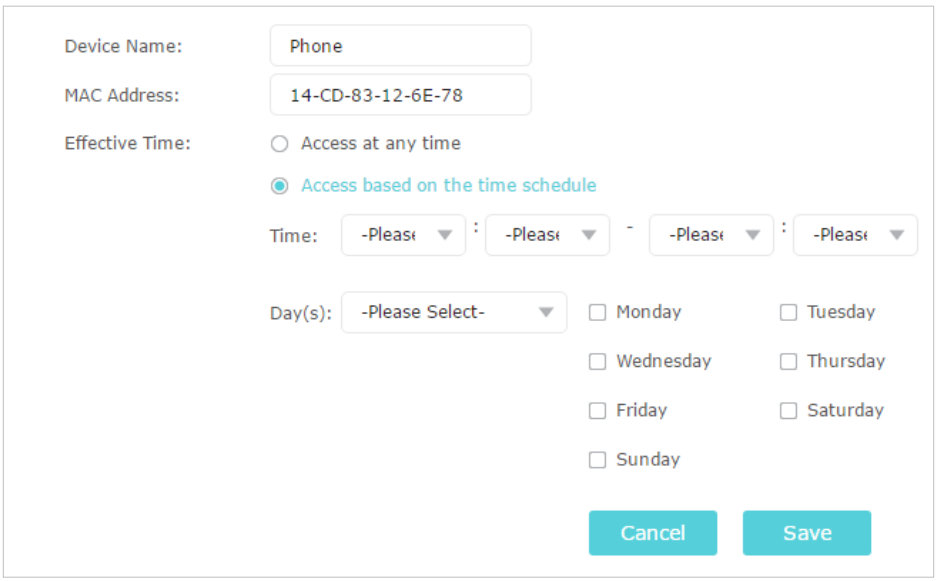
5. Click Save.

- **To permit specific device(s):**

1. Select Whitelist and click Save.



2. Click Add in the Devices in Whitelist table. Enter the Device Name and MAC Address. And you can set the Effective Time for a certain entry as needed.



3. Click Save.

5. 6. Set High Speed Mode

The High Speed feature switches off one of the wireless bands to leave one high-performance, super-fast network, ideal for HD streaming and gaming applications.

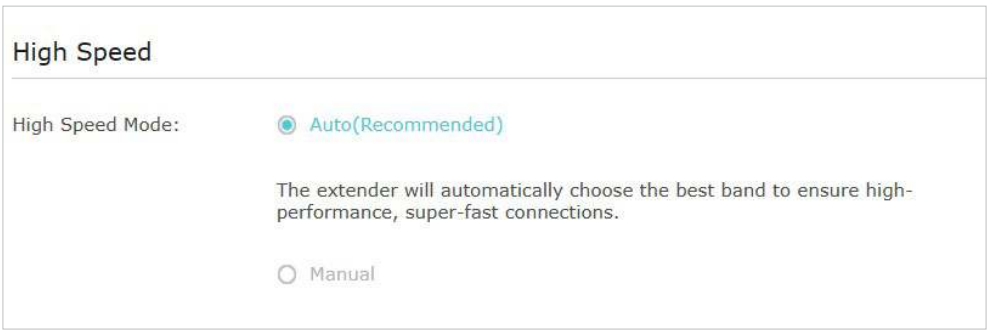
If most of your devices are connected to one wireless band, this feature can increase the overall performance of your wireless network.

Notes:

1. This function is not available when the extender is in an EasyMesh network.
2. Before enabling this feature, please go to Settings > Wireless > Extended Network and check that the 2.4GHz and 5GHz bands are both enabled. Additionally, if you are going to disable the 2.4GHz network, it's recommended to first make sure all your wireless devices support 5GHz network connection.

1. Visit http://www.tplinkrepeater.net and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Advanced Settings > High Speed.
3. Enable High Speed Mode.

4. Select the Auto mode. The extender will decide which band the high-speed network will work on based on its wireless connection to your main router. The other band will be disabled.



5. Click Save.

Chapter 6

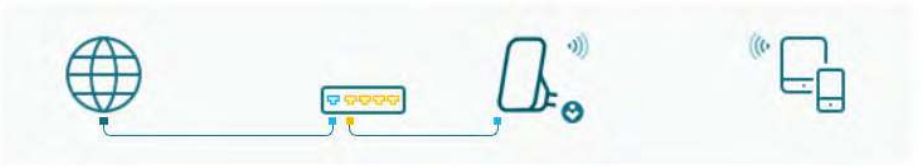
Use Your Extender as an Access Point

This chapter explains how to use the extender as an access point.

It contains the following sections:

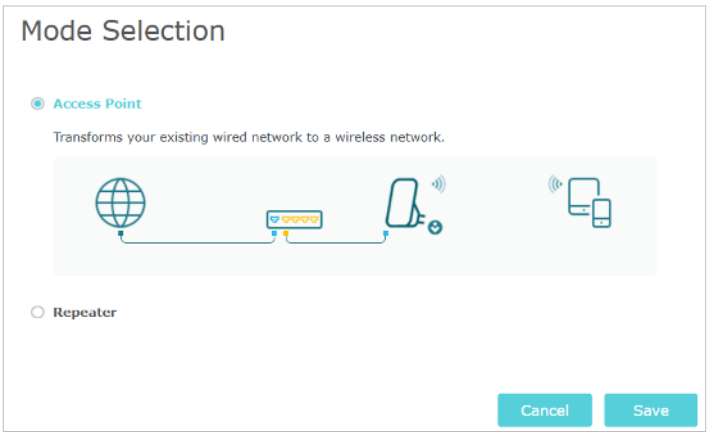
- Set Up the Extender as an Access Point
- Connect Wireless Devices to the Extender
- LED Explanation for the Access Point Mode

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

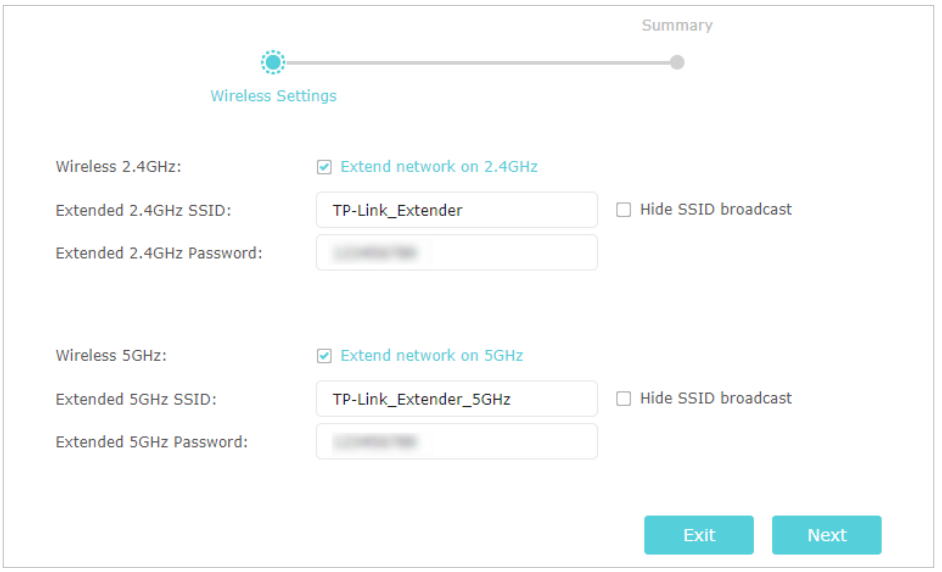


6. 1. Set Up the Extender as an Access Point

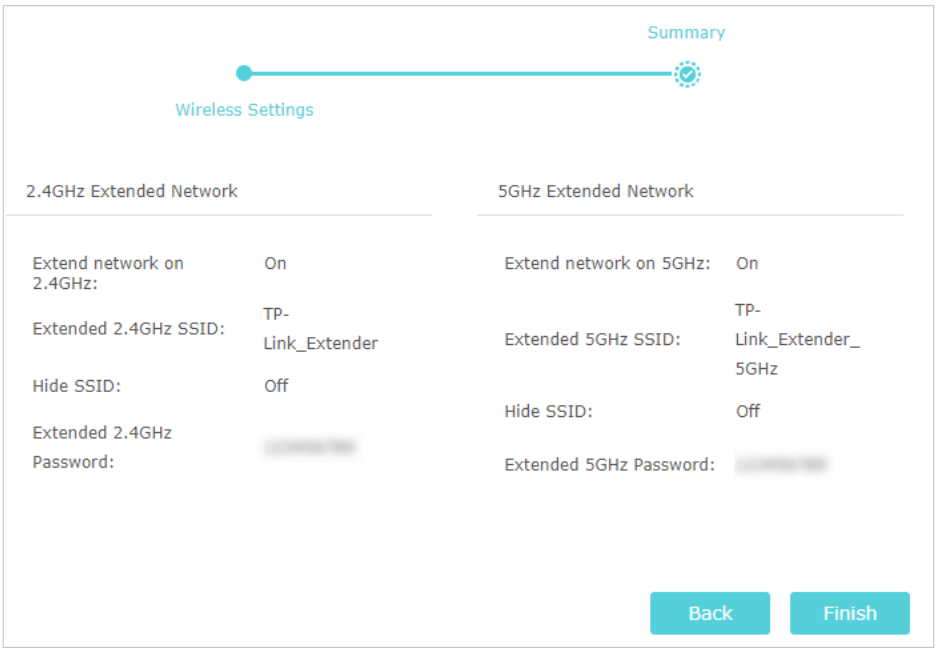
1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Click Mode in the top right corner of the page. Select Access Point and click Save. The extender will reboot and switch to Access Point mode.



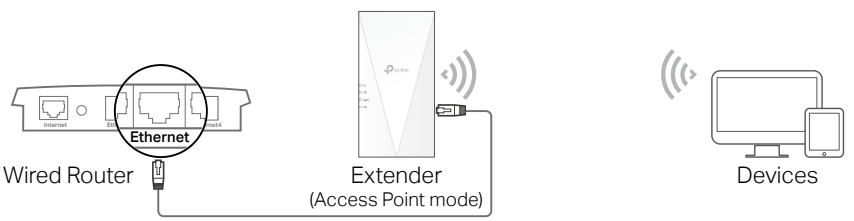
3. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
4. Go to Quick Setup to configure your extender.
   1) Configure your wireless settings and click Next.



2) Confirm the information and click Finish.



5. Connect the extender to your modem or wired router via an Ethernet cable. Now you can enjoy the Wi-Fi.



6. 2. Connect Wireless Devices to the Extender

Method 1: Connect to the extender manually

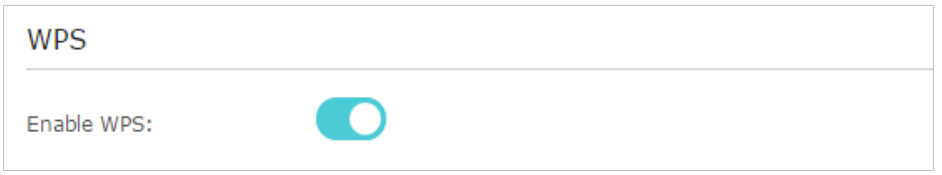
You can connect your wireless devices to the extender by using the extender's wireless network names and passwords.

Method 2: Connect to the extender via WPS

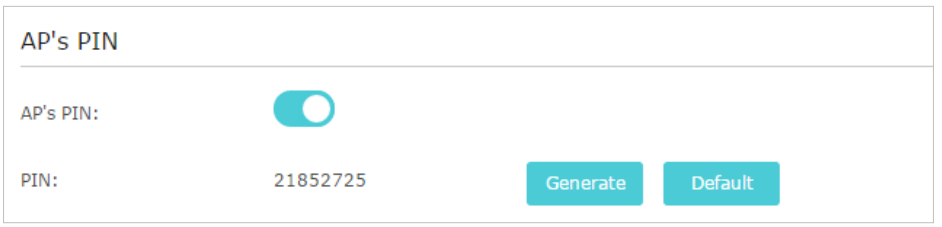
Wi-Fi Protected Setup (WPS) provides an easier way to set up a secure Wi-Fi connection.

Wireless devices that support WPS, including Android phones, tablets and most USB network cards, can be connected to your extender through this method (not supported by iOS devices).

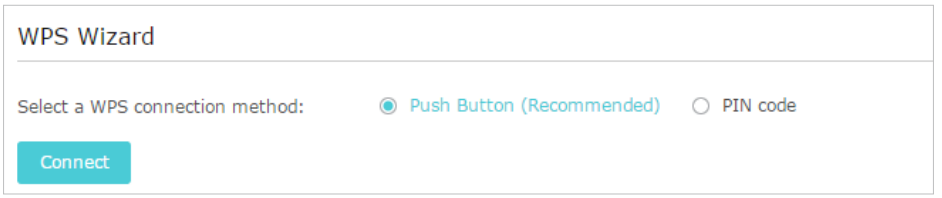
1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Wireless > WPS.
3. Enable WPS.



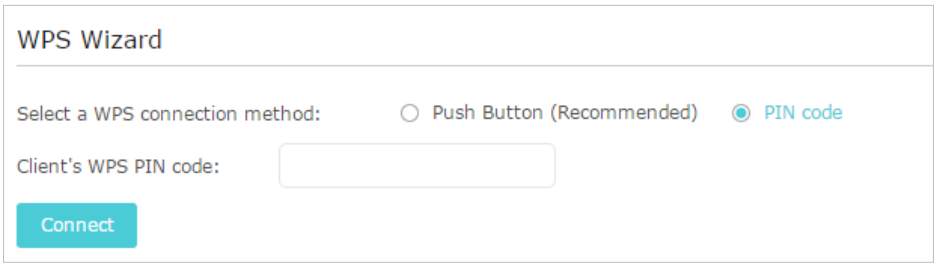
4. Connect via WPS:
   - AP's PIN: Enable AP's PIN and enter the PIN on your device. You can click Generate to get a new PIN or click Default to restore the PIN to its factory one.



   - Push Button (Recommended): Click Connect and push the WPS button on the client device.



   - PIN code: Enter the client's PIN, and click Connect.



6. 3. LED Explanation for the Access Point Mode

When the extender works in the Access Point mode, you can check its working status by following the LED Explanation table below.

Name	Status	Indication (For Access Point Mode)
(Power)	On/Off	The extender is on or off.
	Blinking	The system is starting up or firmware is being upgraded.
(Signal)	On	A WPS connection is established.
	Blinking	WPS connection is in progress. This may take up to 2 minutes.
	Off	A WPS connection has been established for more than 5 minutes or WPS connection failed.
2.4G	On/Off	The 2.4 GHz wireless band is enabled or disabled.
5G	On/Off	The 5 GHz wireless band is enabled or disabled.

Chapter 7

Manage Your Extender

This chapter presents how to manage and maintain your extender.

It includes the following sections:

- Set System Time
- Control LEDs
- Set Power Schedule
- Upgrade the Firmware
- Backup and Restore Configuration Settings
- Change Login Password
- Check System Log

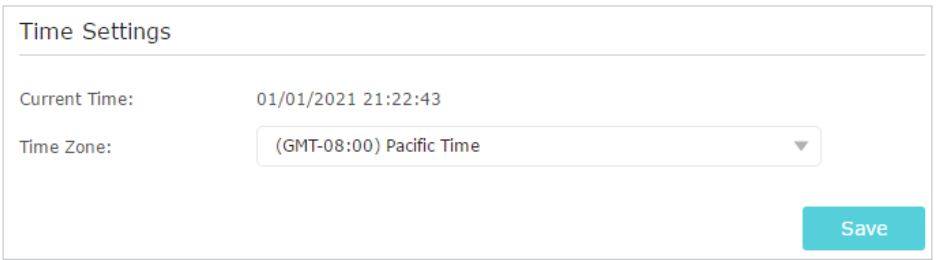
7. 1. Set System Time

The System Time of the extender will be used for time-based function such as the Power Schedule function. If you have enabled the Daylight Saving Time feature, the system time will be sychronized with the daylight saving time you configure.

1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > System Tools > Time Settings.

- **To get system time:**

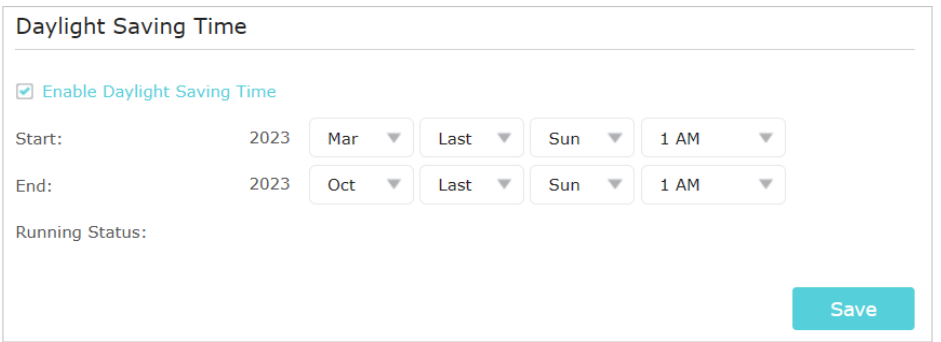
1. Select your local Time Zone from the drop-down list.



2. Click Save.

- **To set up Daylight Saving Time:**

1. Select Enable Daylight Saving Time.



2. Select the Start and End date and time of the daylight saving time at your local time zone.
3. Click Save.

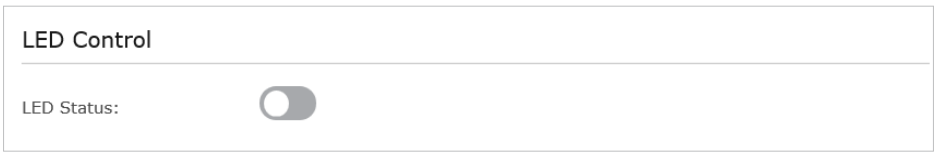
7. 2. Control LEDs

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

1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > System Tools > LED Control.

- **To turn off the LEDs:**

Disable LED Status.

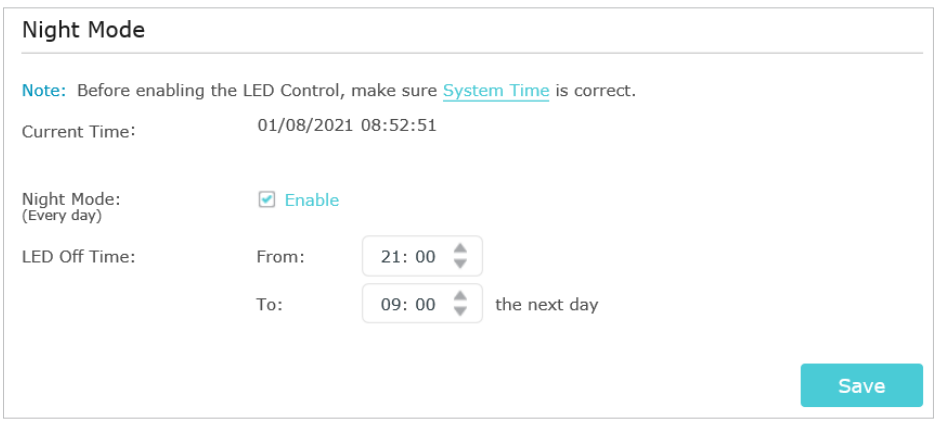


- **To specify a time period when LEDs are off:**

1. Select Night Mode.
2. Specify the LED off time period.

Note: The effective time schedule for Night Mode is based on the system time of the extender. Refer to Set System Time to get the correct system time.

3. Click Save.



7. 3. Set Power Schedule

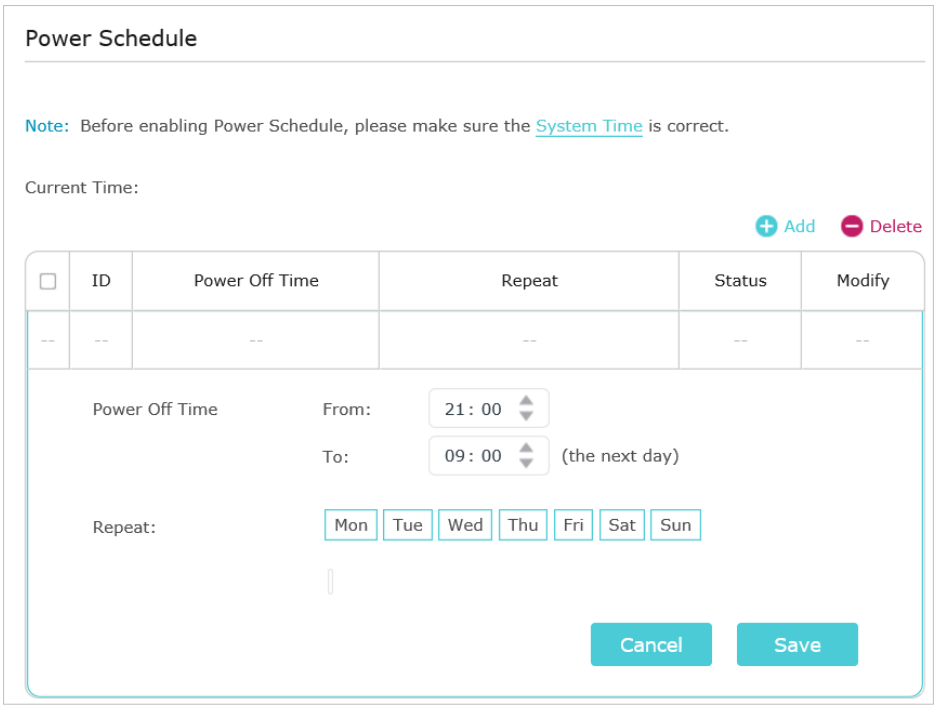
The Power Schdule feature allows you to specify a time period during which the extender is off.

1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Advanced Settings > Power Schedule.

- **To specify a time period when the extender is off:**

1. Click Add.
2. Specify the power off time period and repetitive days.

Note: The effective time schedule for Power Schedule is based on the system time of the extender. Refer to Set System Time to get the correct system time.



3. Click Save.

7. 4. Upgrade the Firmware

TP-Link is committed to improving product features, giving you a better network experience. We will inform you through the web management page if there's any update firmware available for your extender. Also, the latest firmware will be released at the TP-Link official website www.tp-link.com, and you can download it from the Support page for free.

Notes:

- Make sure the latest firmware file is matched with the hardware version (as shown in the download section of the Support page).
- Make sure that you have a stable connection between the extender and your computer.
- Backup your extender configuration.
- Do NOT power off the extender during the firmware upgrade.

- **To upgrade the firmware online:**

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

   Alternatively, you can go to Settings > System Tools > Firmware Upgrade, and click Check for upgrade to see whether a new firmware is released.



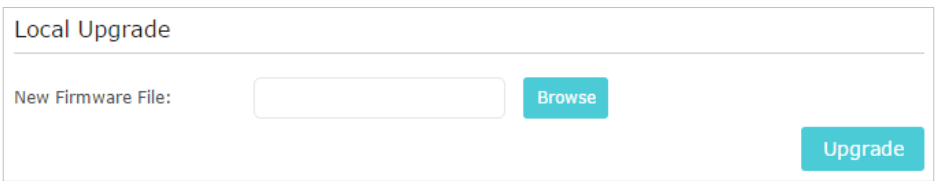
3. Focus on the Online Upgrade section, and click Upgrade.



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

- **To upgrade the firmware locally:**

1. Download the latest firmware file for the extender from our website www.tp-link.com.
2. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
3. Go to Settings > System Tools > Firmware Upgrade.
4. Click Browse to locate the downloaded new firmware file, and then click Upgrade.



5. Wait a few minutes for the firmware upgrade to complete and the extender to reboot.

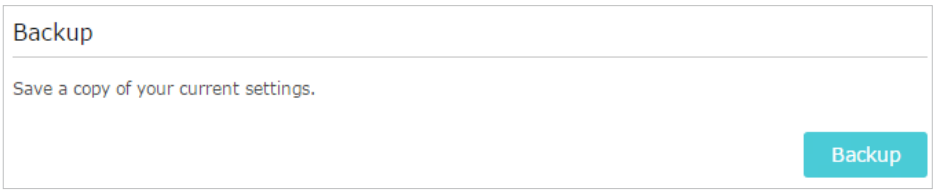
7. 5. Backup and Restore Configuration Settings

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

1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > System Tools > Backup & Restore.

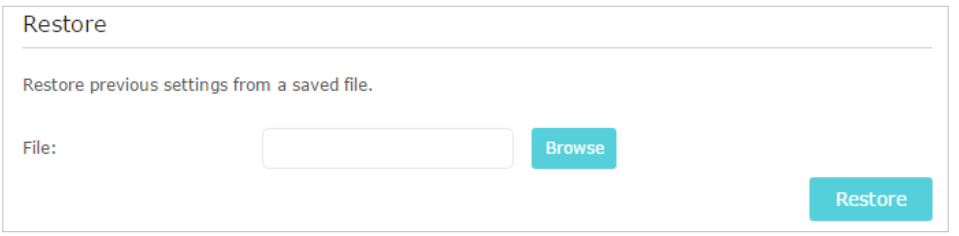
- **To backup configuration settings:**

Click Backup to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored on your computer.



- **To restore configuration settings:**

1. Click Browse to locate the backup configuration file stored on your computer, and click Restore.

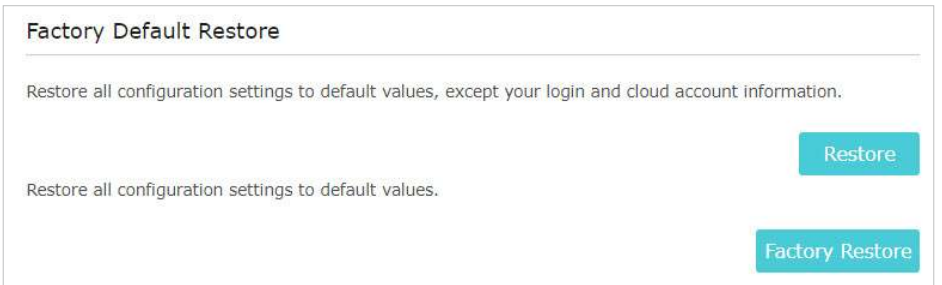


2. Wait a few minutes for the restore and reboot.

Note: During the restore process, do not power off or reset the extender.

- **To reset the extender to factory default settings:**

1. Click Factory Restore to restore all configuration settings to default values, or click Restore if you want to keep you login and cloud account information.



2. Wait a few minutes for the reset and reboot.

Notes:

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

7. 6. Change Login Password

The account management feature allows you to change your login username and password of the web management webpage.

1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > System Tools > Admin Account.
3. Enter the old password. Then enter the new password twice (case-sensitive) and click Save.



4. Use the new password for future logins.

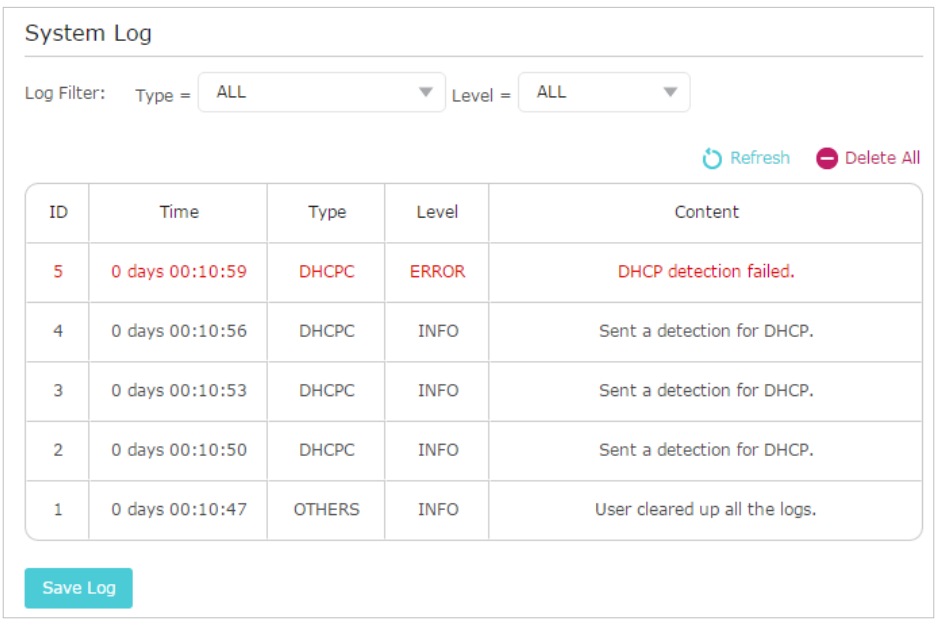
7. 7. Check System Log

If the extender is not working properly, you can save the system log and send it to our technical support team.

1. Visit http://www.tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > System Tools > System Log.

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

1. Choose the type and level of the system log as needed.
2. Click Save Log to save the system logs to a local disk.



FAQ

Q1. How to reset the extender to its factory default settings?

- With the extender powered on, use a pin to press the RESET button for 1 second. The extender will reboot.
- Log in to the extender's web management page. Go to Settings > System Tools > Backup & Restore and click Factory Restore.

Q2. What should I do if I forget my login password?

Refer to FAQ > Q1 to reset the extender, and then visit http://www.tplinkrepeater.net to create a new login password.

Note: The extender must be reconfigured after a reset to access the internet. Please note down your login password for future logins.

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

The extender shares the same wireless passwords as those of your host networks.

Q4. What should I do if I can't access the web management page?

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

- If your computer is wirelessly connected, make sure that you have connected to the extender's SSID.
- Make sure your computer is configured as Obtain an IP address automatically and Obtain DNS server address automatically.
- Verify that http://www.tplinkrepeater.net is correctly entered in the web browser and press Enter.
- Use the IP address to access the extender. The default IP is 192.168.0.254. If the extender is connected to the router, you should go to your router's DHCP client list to obtain the extender's current IP address.
- Reset the extender and try again.

Q5. I have enabled wireless MAC filter, wireless access control, or access control list (ACL) on my router. What should I do before configuring the extender?

When a device connects through the extender to your router, the MAC address of the device shown on the router is translated to another MAC address. If your router's MAC filter, wireless access control, or ACL is enabled, the devices connected to the extender cannot get an IP address from the extender and cannot access the Internet.

To solve this problem, please follow the steps below:

1. Log in to your router and disable the MAC filter, wireless access control or ACL.

Note: For more information about how to disable your router's MAC filter, wireless access control or ACL, please refer to your router's user guide.

2. Power on your extender, and run the Quick Setup to configure your extender.
3. Connect all of your devices to the extended network.
4. On your router, add all the Online Devices' MAC addresses to your router's MAC filter table.
5. Enable the router's MAC filter, wireless access control, or ACL to complete the configuration.

FCC compliance information statement

Product Name: AX1500/AX1800/AX3000 Wi-Fi 6 Range Extender

Model Number: RE500X/RE600X/RE700X

Responsible Party:

TP-Link USA Corporation

Address: 10 Mauchly, Irvine, CA 92618

Website: https://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 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

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

Issue Date: 2024-01-11

CE Mark Warning

CE

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

OPERATING FREQUENCY (the maximum transmitted power)

2400 MHz -2483.5 MHz (20dBm)

5150 MHz -5250 MHz (23dBm)

5250 MHz -5350 MHz (23dBm)

5470 MHz -5725 MHz (30dBm)

EU Declaration of Conformity

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

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

RF Exposure Information

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

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

National Restrictions

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

UKCA Mark

UK
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.

	UK

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:

1. 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:

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

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

Radiation Exposure Statement:

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

Déclaration d'exposition aux radiations:

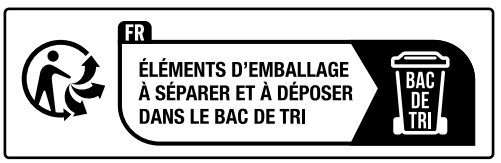
Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

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

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음.



NCC Notice & BSMI Notice

注意!

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

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切斷電源。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： Equipment name: AX1500/AX1800/AX3000 Wi-Fi 6 Range Extender						型號（型式）： Type designation (Type): RE500X/RE600X/RE700X
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應板	–	○	○	○	○	○
其他及其配件	○	○	○	○	○	○

備考1.〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。

Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

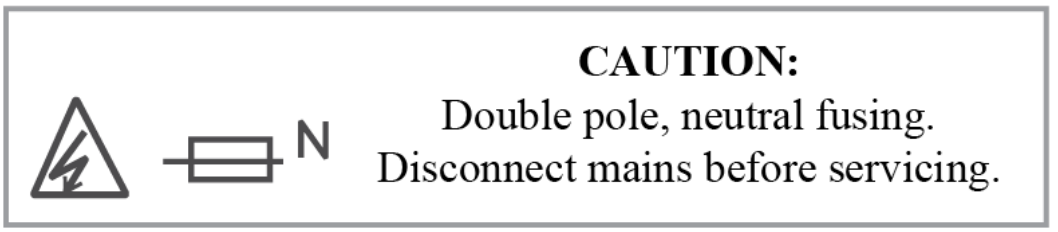
備考3.〝－〞係指該項限用物質為排除項目。

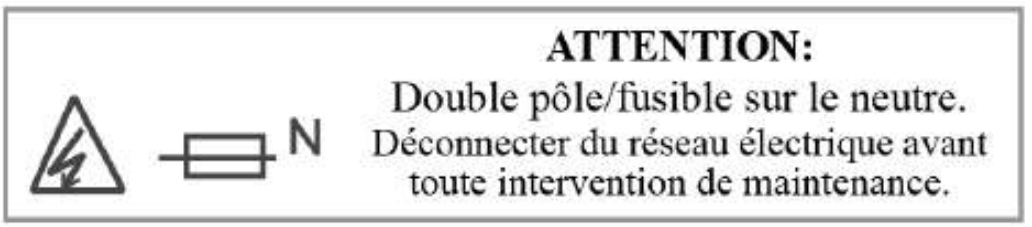
Note 3：The “－” indicates that the restricted substance corresponds to the exemption.

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

Safety Information

- Keep the device away from water, fire, humidity or hot environments.

- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use the device where wireless devices are not allowed.
- Make sure the power socket has a good contact with the ground.
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- 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 back of the product. Symbols may vary from products.

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of d.c. power connector

Symbol	Explanation
	For indoor use only
	Dangerous voltage
	Caution, risk of electric shock
	Energy efficiency Marking
	Protective earth
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON"/"OFF" (push-push)
	Fuse
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.
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs

Symbol	Explanation
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)
ε	Switch without contact gap (Semiconductor switching device)