User Guide

AC2600 MU-MIMO Wi-Fi Range Extender

RE650

© 2020 TP-Link 1910012834 REV2.0.0

Contents

About This Guide 1

Chapter 1. Get to Know About Your Extender 2

1. 1. Product Overview. 3
Bring Dead Zones Back to Life 3
Easy Installation & Quick Position 3
Easy Management with the TP-Link Tether App 3
1. 2. Appearance 3

Chapter 2. Set Up Internet Connection 5

2. 1. Power On the Extender 6
2. 2. Set Up the Extender 6
2. 2. 1.Method 1: Via the TP-Link Tether App. 6
2. 2. 2.Method 2: Via a Web Browser. 8
2. 2. 3.Method 3: Via the WPS Button. 11

Chapter 3. OneMesh™ with Seamless Roaming. 14

3. 1. What's a OneMesh™ Network. 15
3. 2. How to Set Up a OneMesh™ 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 26
5. 5. Set Access Control 27
5. 6. Set High Speed Mode. 29

Chapter 6. Manage Your Extender 31

6. 1. Set System Time 32

6. 2. Control LEDs 32
6. 3. Set Power Schedule 33
6. 4. Upgrade the Firmware 34
6. 5. Backup and Restore Configuration Settings 35
6. 6. Change Login Password 36
6. 7. Check System Log 37

Chapter 7. More Features of Your Extender 39

7. 1. Use Your Extender as a Wireless Adapter 40
7. 2. Transform Your Existing Wired Network to a Wireless One 40
Method 1: Connect to the extender manually 42
Method 2: Connect to the extender via WPS 42

FAQ 43

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, Advanced > Wireless > MAC Filtering means the MAC Filtering function page is under the Wireless menu that is located in the Advanced 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.

Speed/Coverage Disclaimer

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

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 iOS or Android devices.

1. 2. Appearance

1. 2. 1. LED Explanation

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

Name	Status	Indication
(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.
2.4GHz	On	The extender is connected to the 2.4GHz wireless network of your router.
	Off	No 2.4GHz wireless connection.
5GHz	On	The extender is connected to the 5GHz wireless network of your router.
	Off	No 5GHz wireless connection.
Power	On	The extender is on.
	Blinking	The system is starting up or firmware upgrade is in progress.
	Off	The extender is off.

1. 2. 2. Port and Button Description

Ports or Buttons	Description
WPS Button	Press the WPS button on your router, and immediately press the WPS button on the extender. The LED of the extender should change to solid blue, indicating successful WPS connection.
Power Button	Press the Power button to turn on or off the extender.
LED Button	Press the LED button to turn on or off all the LEDs.
Reset (Hole)	Use a pin to press and hold the Reset button for 1 second to reset the extender.
Ethernet Port	Connect your Ethernet-only device to the Ethernet port of the extender to join the Wi-Fi network.

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:

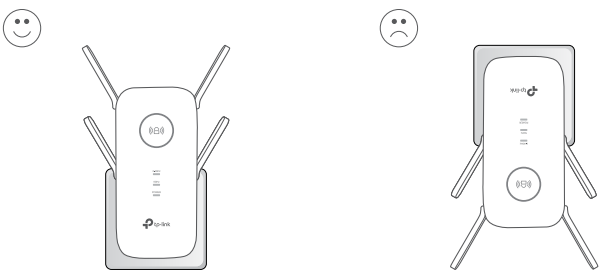
- Power On the Extender
- Set Up the Extender

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.

Attention:

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



2. 2. Set Up the Extender

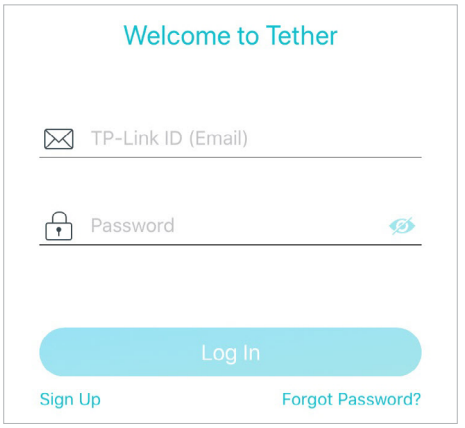
There are three ways to set up the extender: via the TP-Link Tether app, via a web browser, or via the WPS button.

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

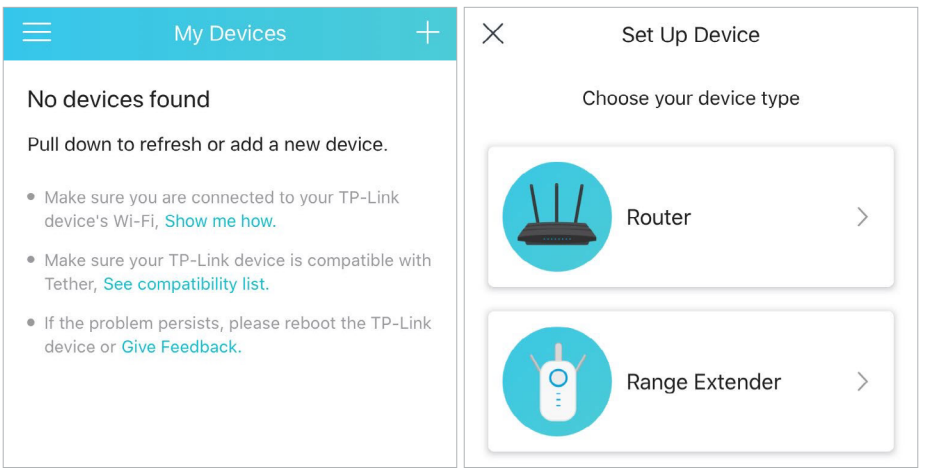
1. Launch the Apple App Store or Google Play Store and search TP-Link Tether or simply scan the QR code to download and install the app.

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

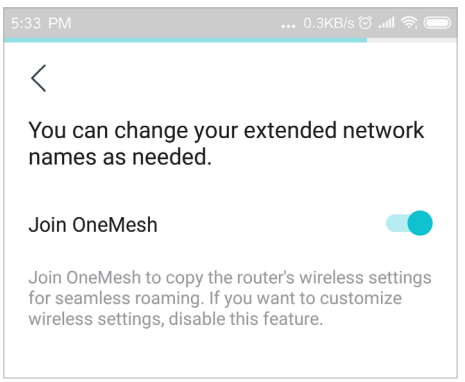
Note: If you don't have a TP-Link ID, create one first.



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



4. Follow app instructions to set up your extender.
5. (Optional) If your host router supports OneMesh, you can enable Join Onemesh to copy the router's wireless settings for seamless roaming. For more information about Onemesh, refer to OneMesh™ with Seamless Roaming.



6. Relocate your extender to optimize Wi-Fi coverage and performance, and enjoy the extended network.

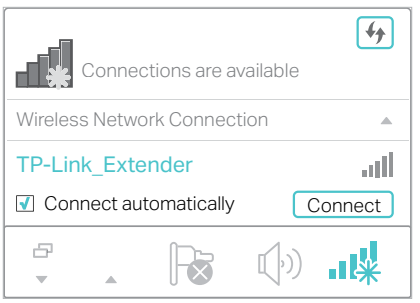
Tip:
For more intuitive location assistance, access extender settings via Tether and go to Tools > Location Assistant. You can also manage your extender via Tether, such as controlling LEDs, sharing passwords of your networks and blocking devices.

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).

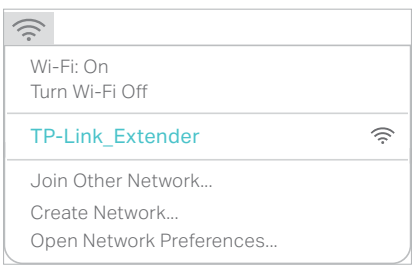
   2) Click the Wi-Fi icon on the taskbar and connect to the extender's wireless network: TP-Link_Extender.



   - For Mac OS X Users

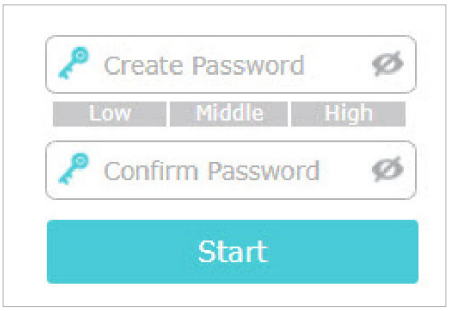
   1) Unplug the Ethernet cable from your computer (if any).

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



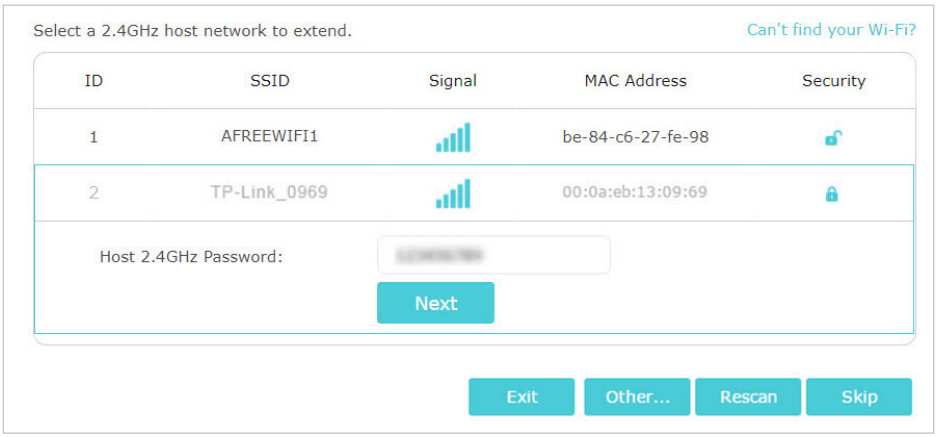
2. Follow the instructions of the Quick Setup Wizard to connect the extender to your host router.

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

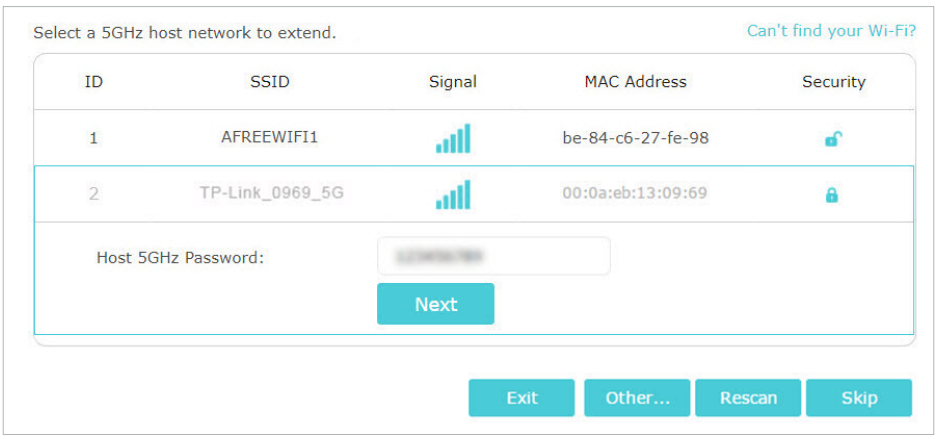


Note:
If the login window does not appear, please refer to FAQ.

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

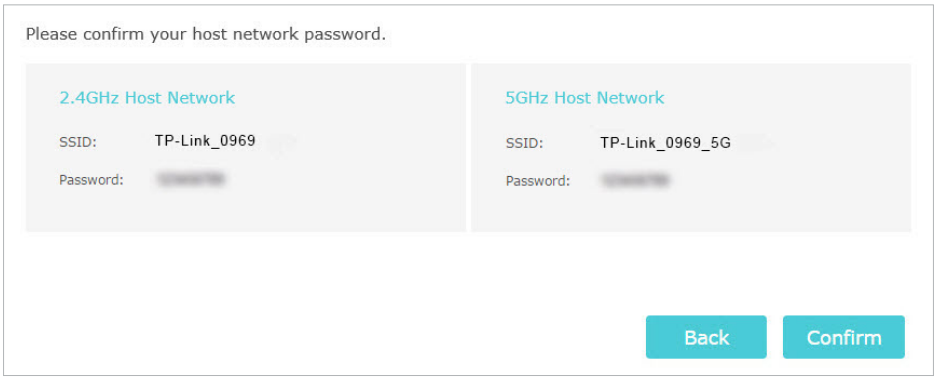


3) Select your host router's 5GHz SSID (network name), enter its password (NOT the password you just created for management), and click Next.



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

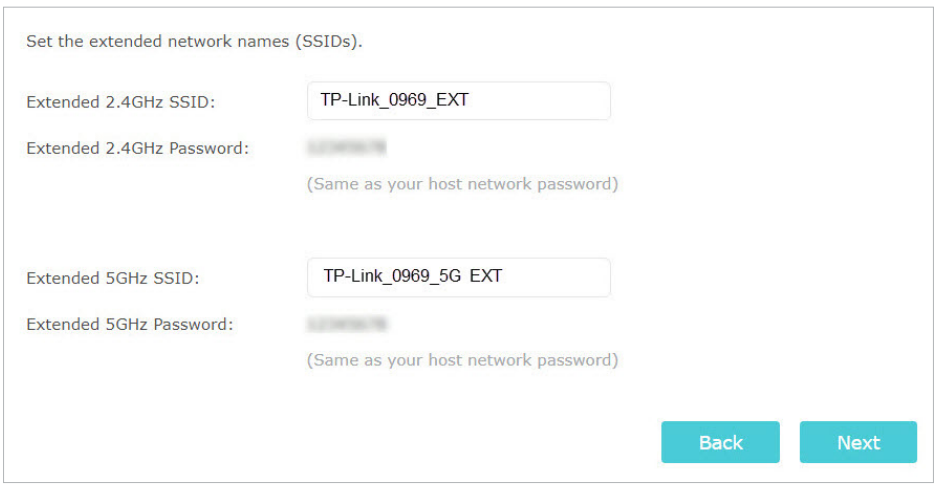
4) Confirm your host network password.



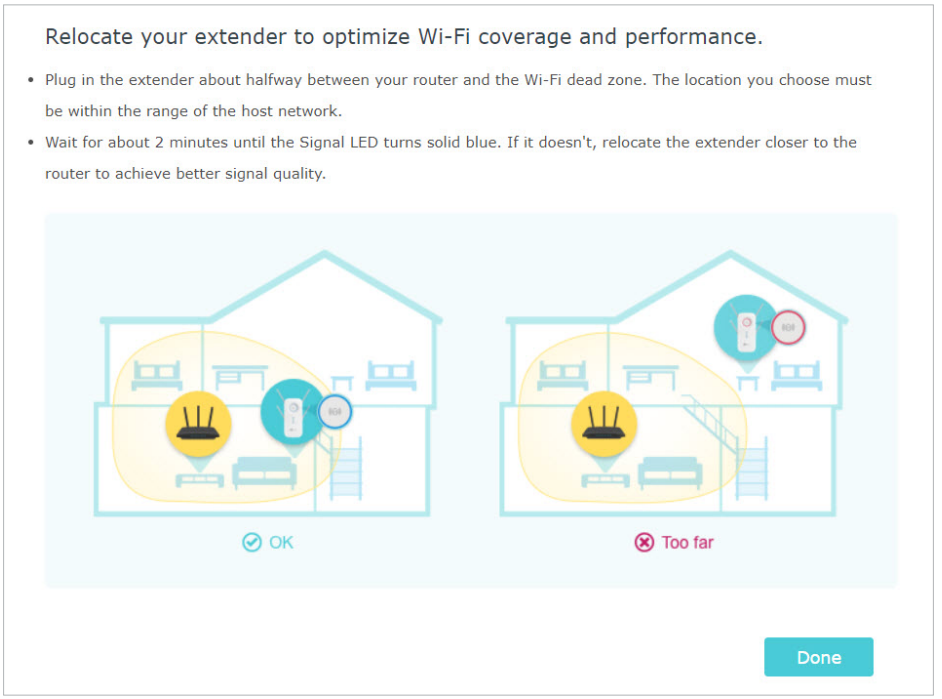
5) Either keep the default SSIDs (network names) or customize them for the extended networks, and then click Next.

Tip:

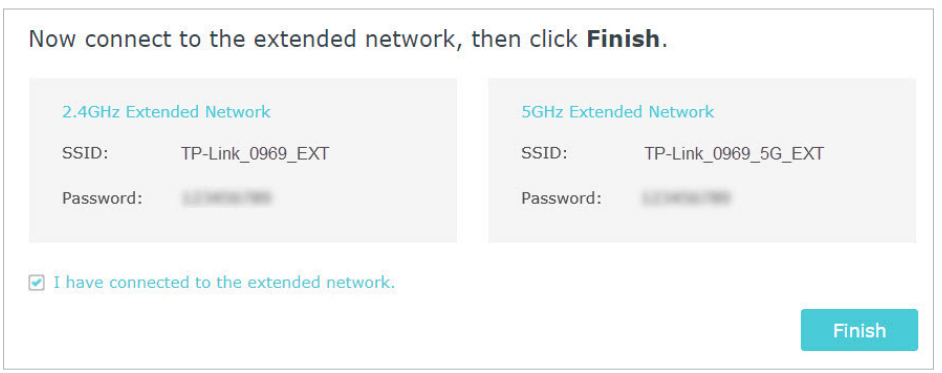
If you connect the extender to a TP-Link OneMesh router, the extender will automatically join the router's OneMesh network and copy the router's wireless settings. For more information, refer to OneMeshTM with Seamless Roaming.



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



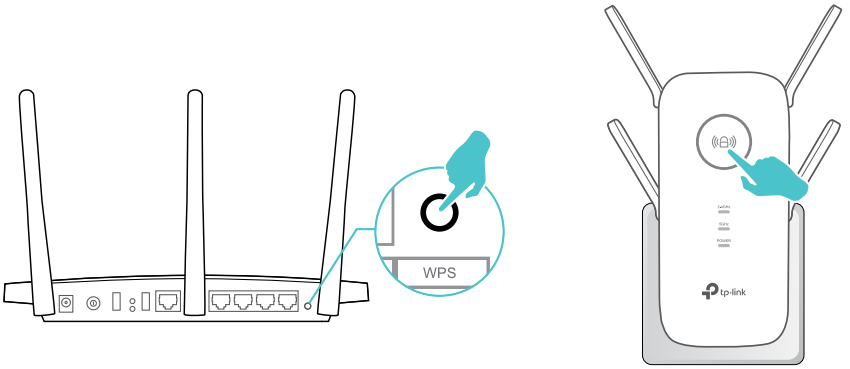
7) Enjoy! Connect to the extended network and enjoy the internet.



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: | WPS | .

1. Press the WPS button on your host router, and then press the WPS button on the extender for 1 second within 2 minutes.

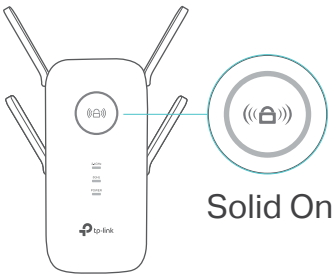


Note:
For more information about using WPS button on your host router, please refer to the router manufacturer's user guide.

2. Wait until the Signal LED changes from blinking to solid on, which indicates that the WPS connection is successful.

Note:
If the LED does not turn solid on, try again or refer to Method 1: Via the TP-Link Tether App or Method 2: Via a Web Browser.

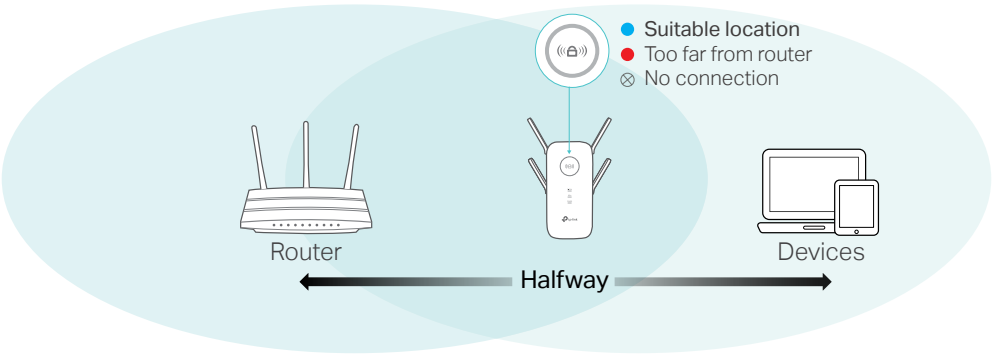
3. If the extender connects to a dual band router, repeat steps 1 and 2 above to connect to the other band.
4. Wait until the Signal LED turns solid on, and the setup is done.



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

Note:
- For more information about OneMesh, refer to OneMeshTM with Seamless Roaming.
- If you want to customize the extended network name, refer to Configure Wireless Network.

5. 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.

6. Enjoy! Connect to the extended network and enjoy the internet.

Chapter 3

OneMesh™ with Seamless Roaming

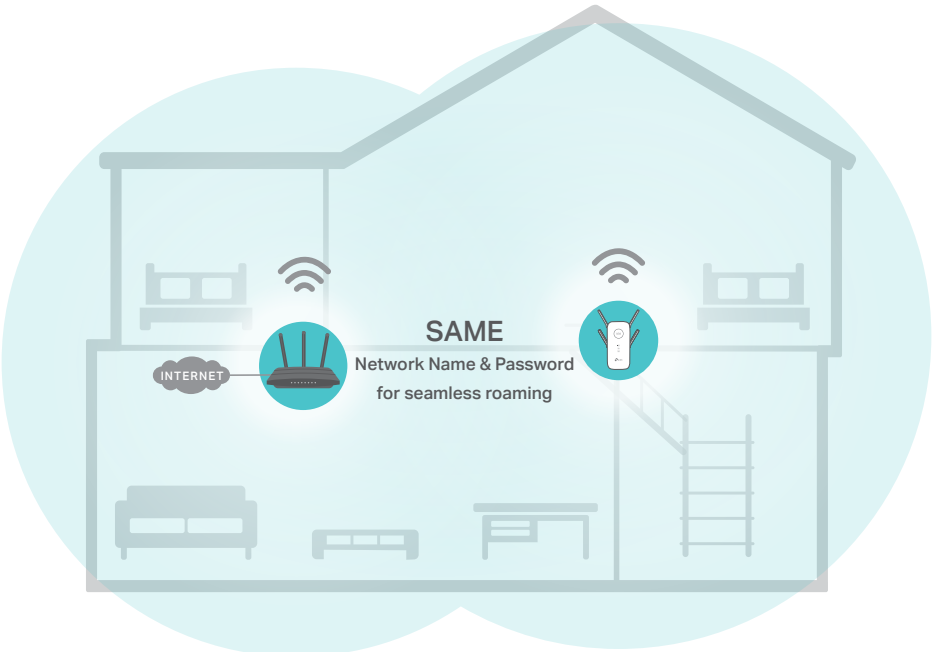
This chapter introduces the TP-Link OneMesh™ feature.

It contains the following sections:

- What's a OneMesh™ Network
- How to Set Up a OneMesh™ Network

3. 1. What's a OneMesh™ Network

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



Unified Wi-Fi Network

Router and extenders share the same wireless settings, including network name, password, access control settings and more.

Seamless Roaming

Devices automatically switch between your router and extenders as you move through your home for the fastest possible speeds.

Easy Setup and Management

Set up a OneMesh™ network with a push of WPS buttons. Manage all network devices on the Tether app or at your router's web management page.

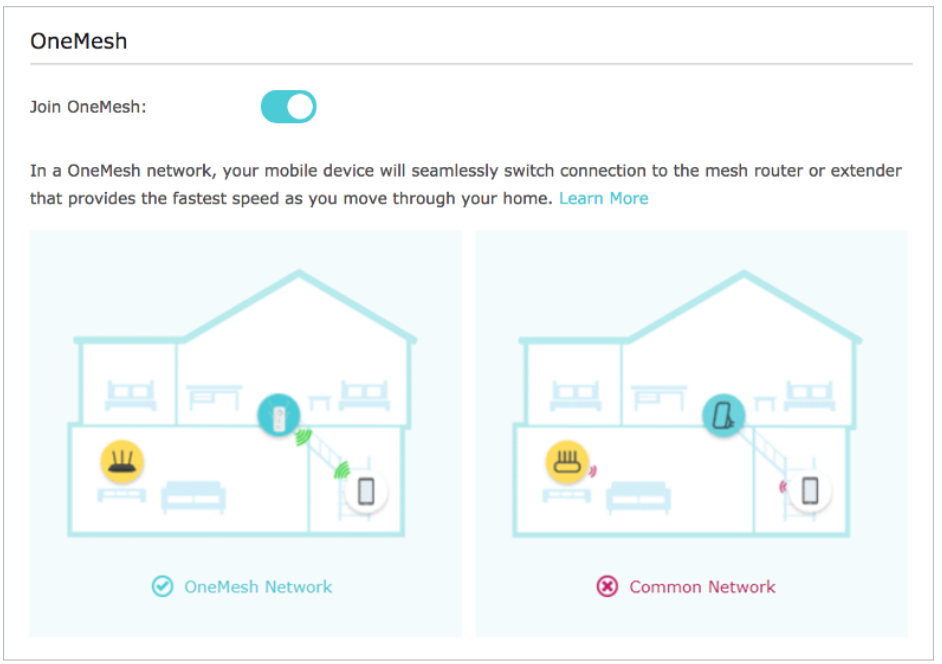
To check full list of TP-Link OneMesh™ devices, scan the QR code, or visit https://www.tp-link.com/onemesh/compatibility.

3. 2. How to Set Up a OneMesh™ Network

Once the extender is connected to a TP-Link OneMesh™ router via any method, the extender will automatically join the router's OneMesh™ network and copy the router's wireless settings. You can manage all mesh devices in the OneMesh™ network all on your router's web page.

If you want to remove the extender from the OneMesh™ network, follow the steps below:

1. Visit http://tplinkrepeater.net, and log in with the password you set for the extender.
2. Go to Settings > OneMesh and toggle off Join OneMesh.



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.

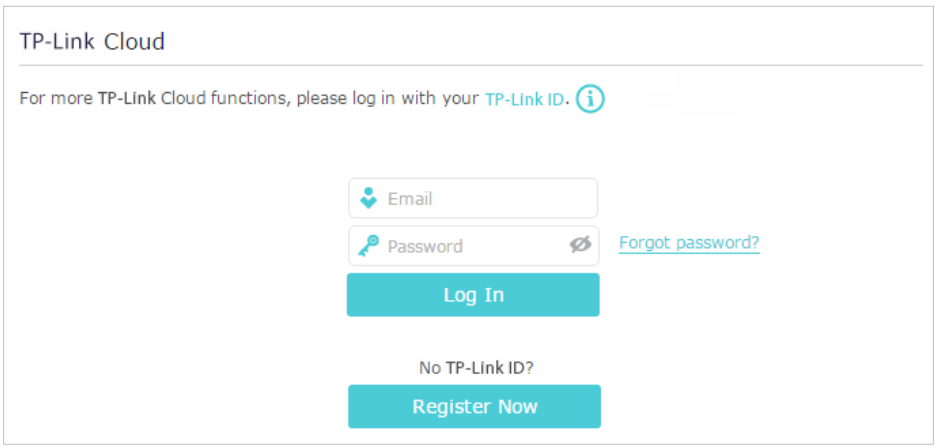
It contains the following sections:

- 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.

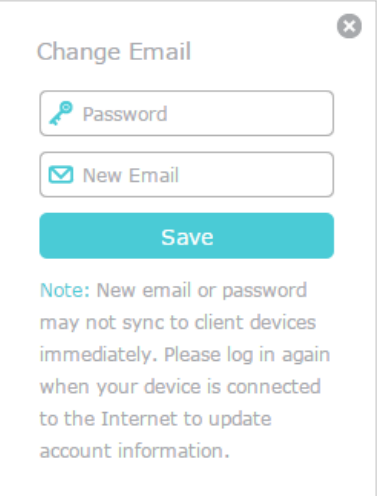
4. 2. Change Your TP-Link ID Information

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.

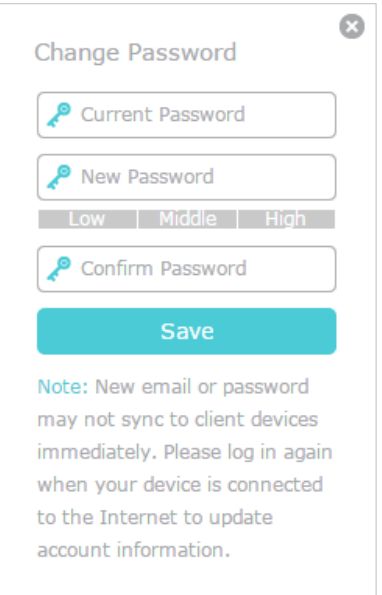
- **To change your email address**:

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:

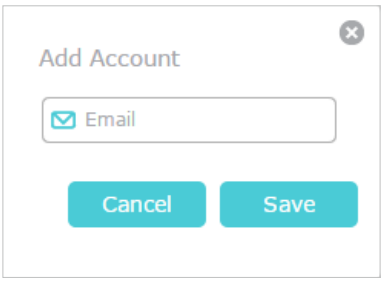
- Reset the extender to its factory default settings either on the web management page or in the Tether app.

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

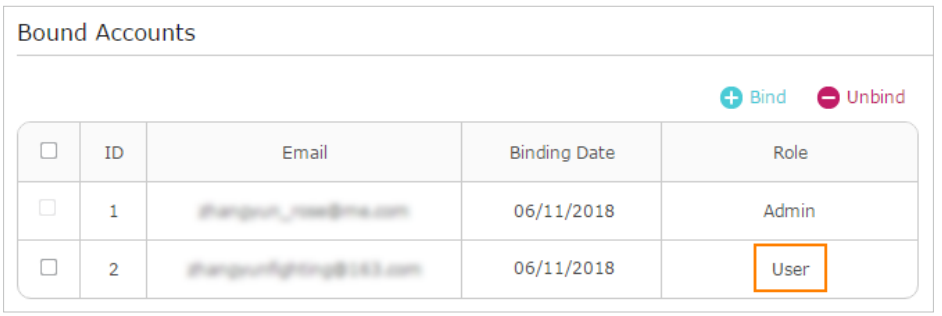
4. 3. 1. Add TP-Link ID to Manage the Extender

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.

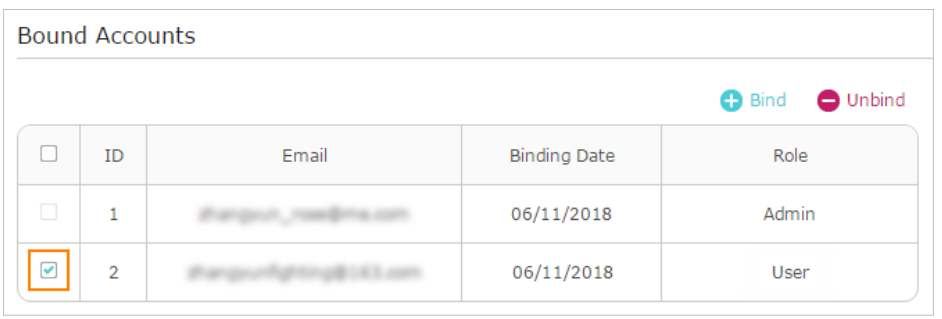


4. The new TP-Link ID will be displayed in the Bound Accounts table as a User.



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 host 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.

Chapter 5

Customize Your Network

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

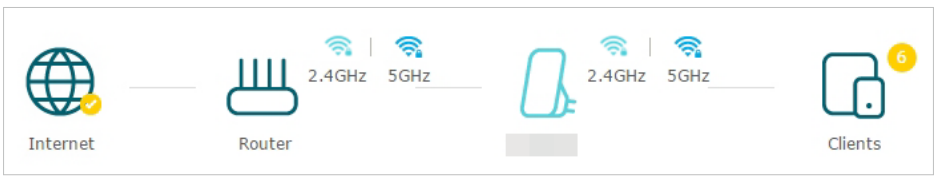
It contains the following sections:

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

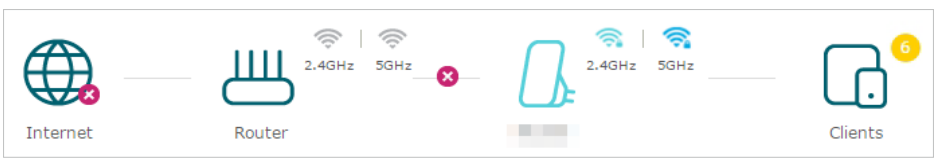
5. 1. Check Internet Status

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

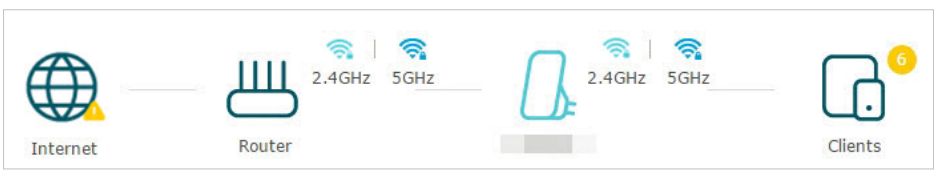
1. Visit http://tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Status to view the internet status of your extender.
   - The extender runs normally.



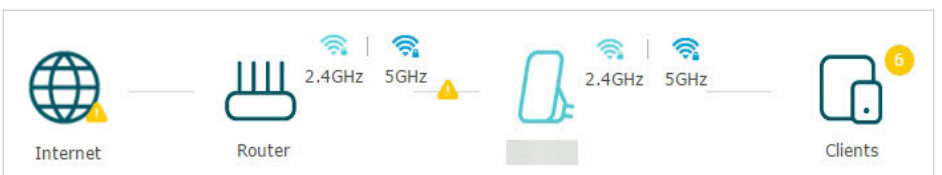
   - The extender fails to connect to the host networks. Please go to Settings > Wireless > Connect to Network to check whether the host network passwords are correct. If the problem still exists, relocate the extender closer to the router to achieve better signal quality.



   - 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.

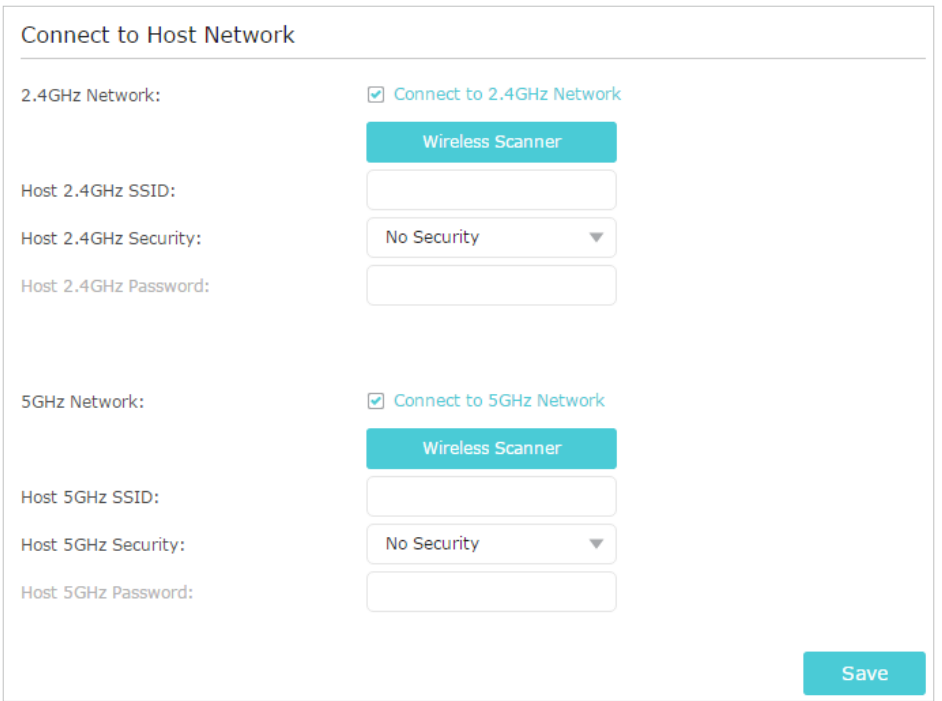
Tip:
If the extender is in your router's OneMesh network, it will automatically copy wireless settings from your router. No wireless settings is needed for the extender.

Visit http://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 host 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.

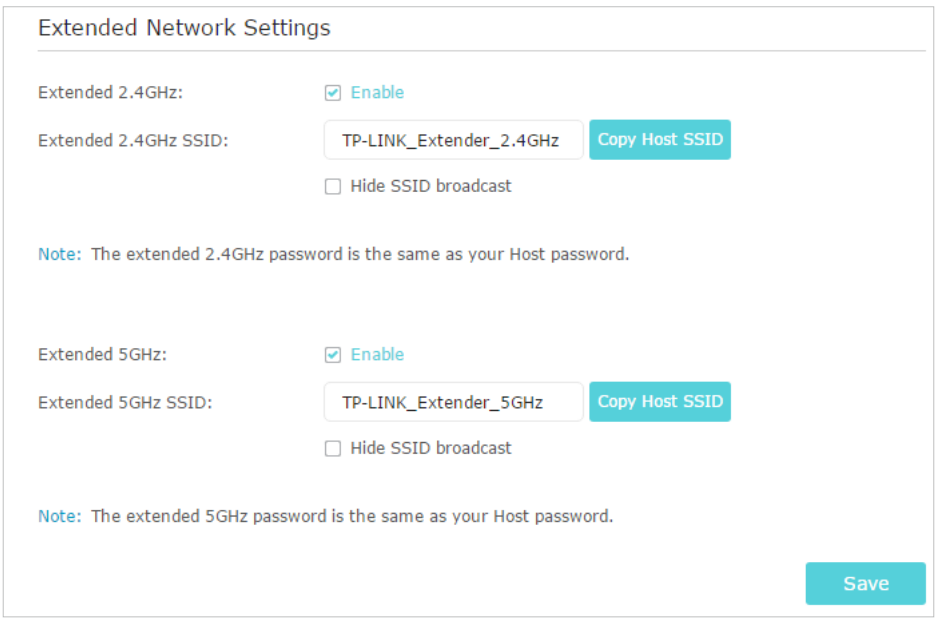
5. Click Save.

- **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.

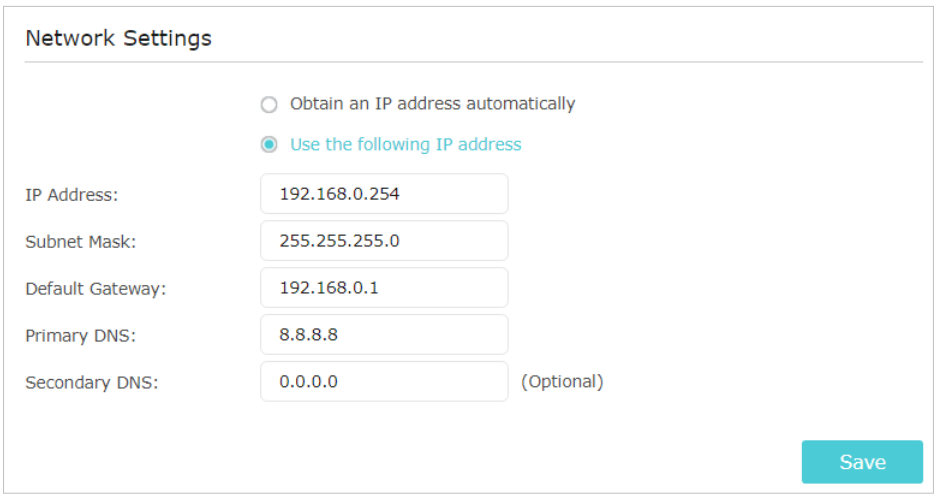
- **To hide the SSID of the extended network:**

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.

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://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.

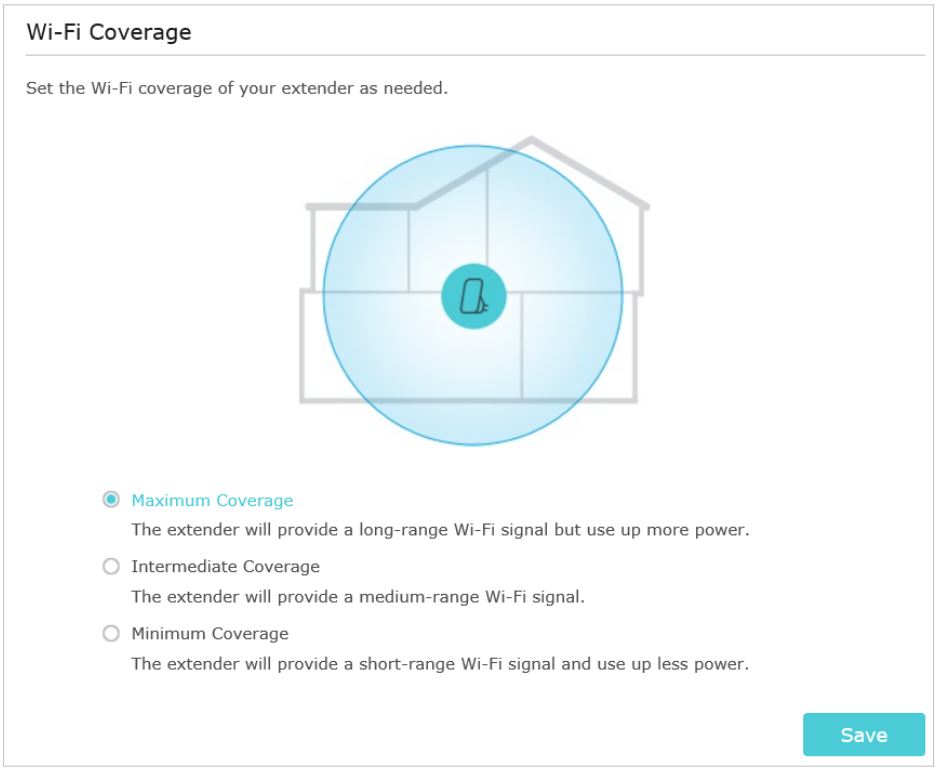


7. Click Save.

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://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.



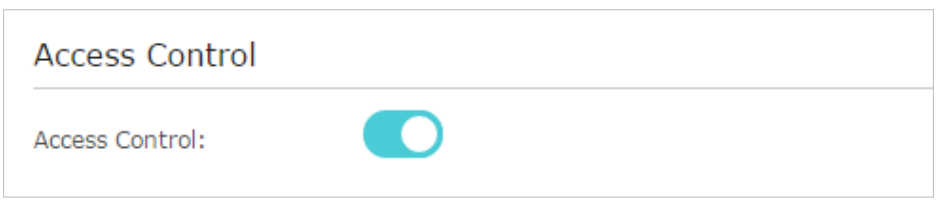
4. Click Save.

5. 5. Set Access Control

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

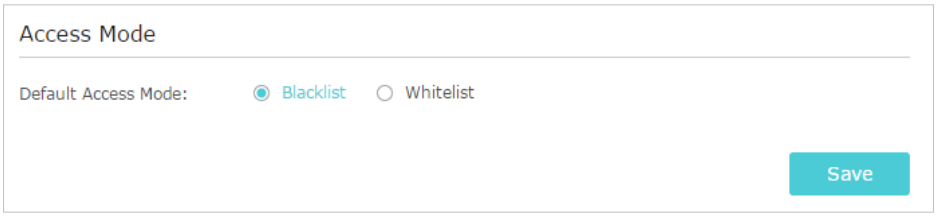
Tip:
If the extender is in your router's OneMesh network, it will automatically copy access control settings from your router. No access control settings is needed for the extender.

1. Visit http://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.

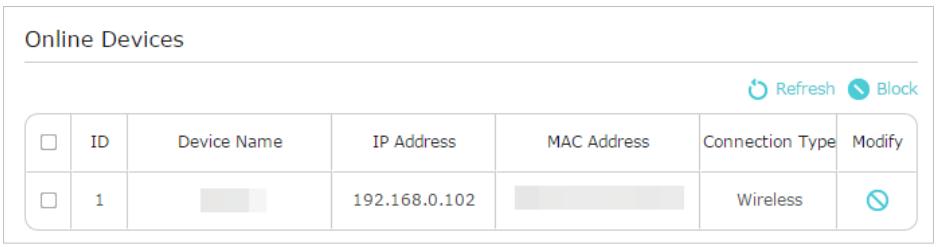


- **To block specific device(s):**

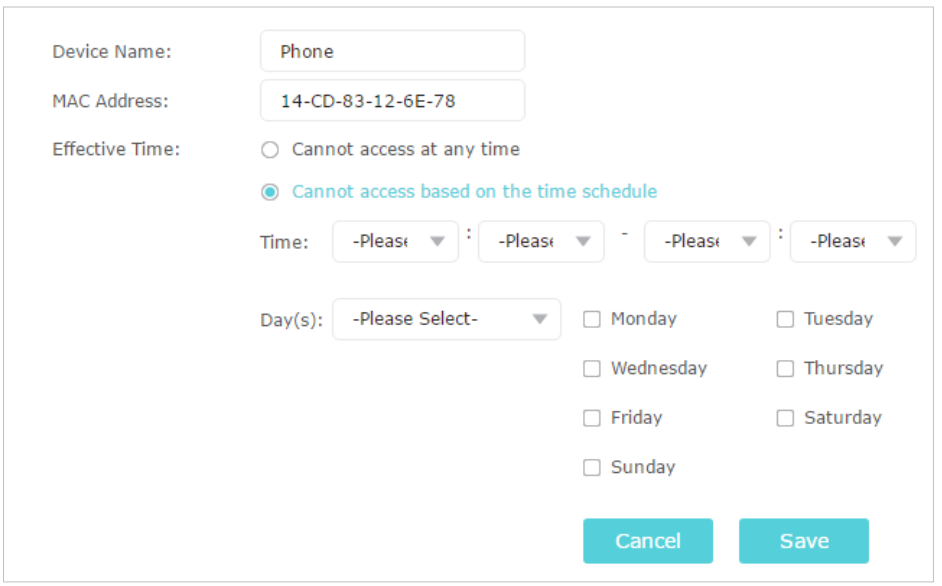
1. Select Blacklist and click Save.



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.

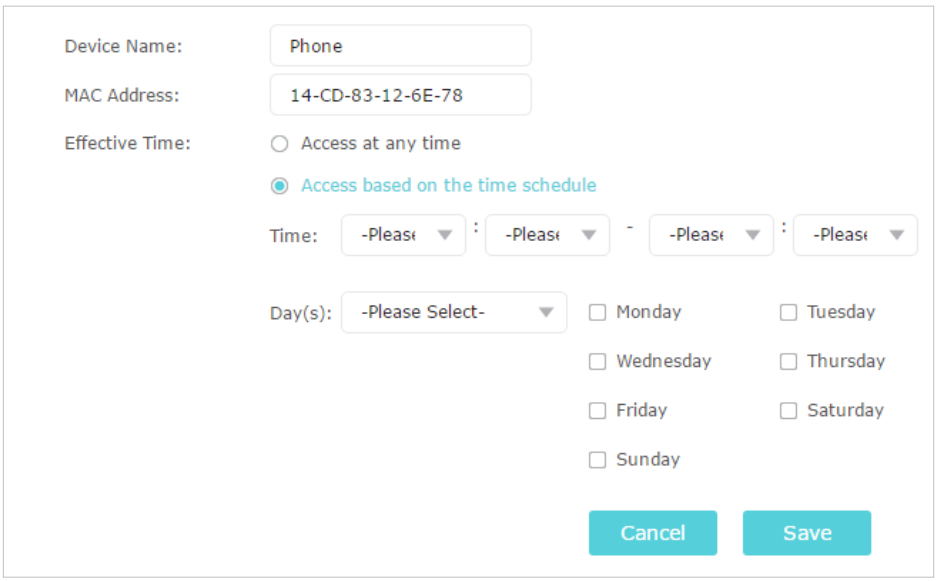


5. Click Save.

- **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.

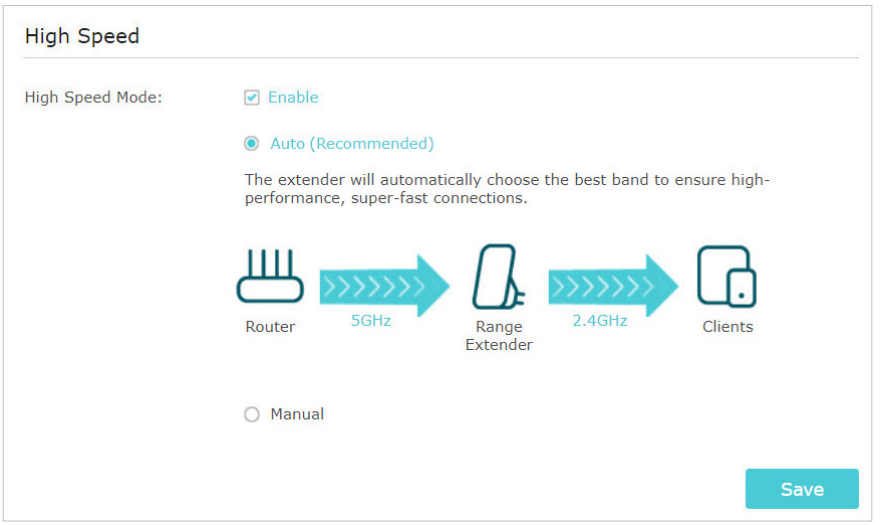
If most of your devices are connected to one wireless band, this feature can increase the overall performance of your wireless network.

Notes:

1. This function is not available when the extender is in a OneMesh 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://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 router.



5. Click Save.

Chapter 6

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

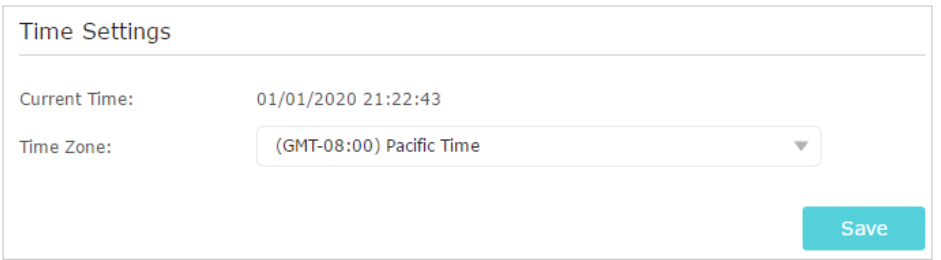
6. 1. Set System Time

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://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:**

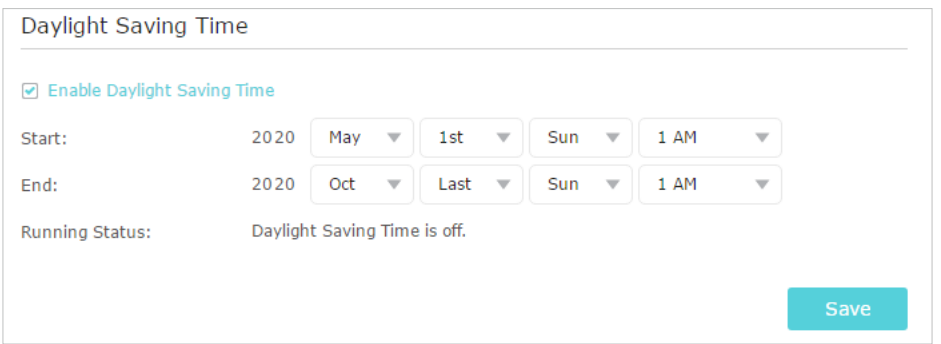
1. Select your local Time Zone from the drop-down list.



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.

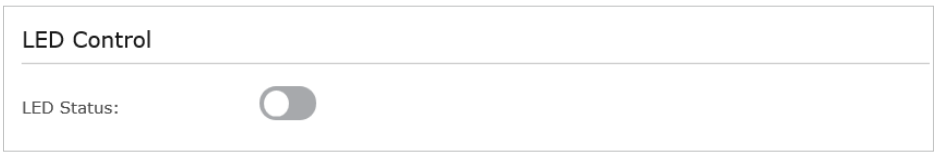
6. 2. Control LEDs

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

1. Visit http://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.

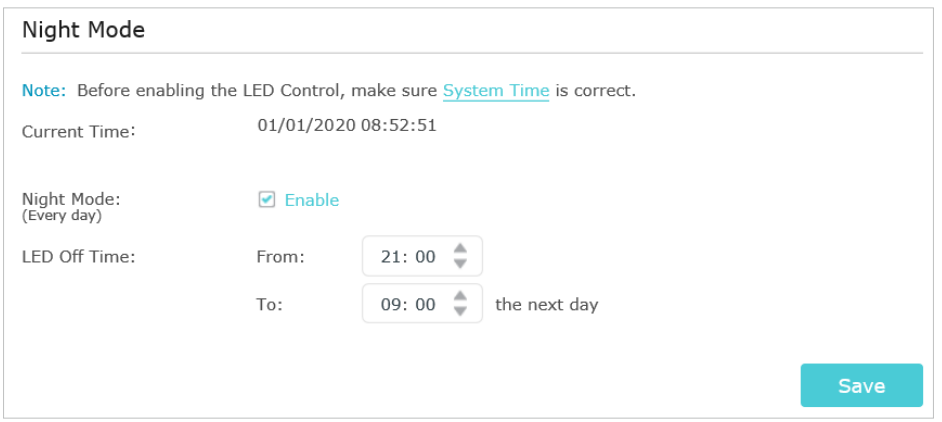


- **To specify a time period when LEDs are off:**

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.



6. 3. Set Power Schedule

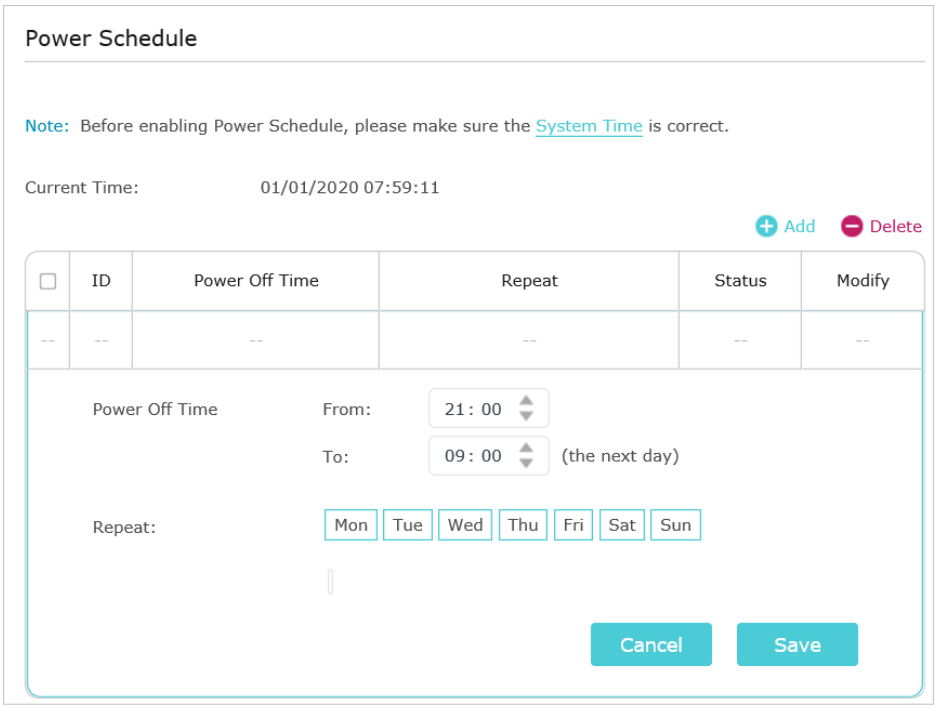
The Power Schdule feature allows you to specify a time period during which the extender is off.

1. Visit http://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.

6. 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.

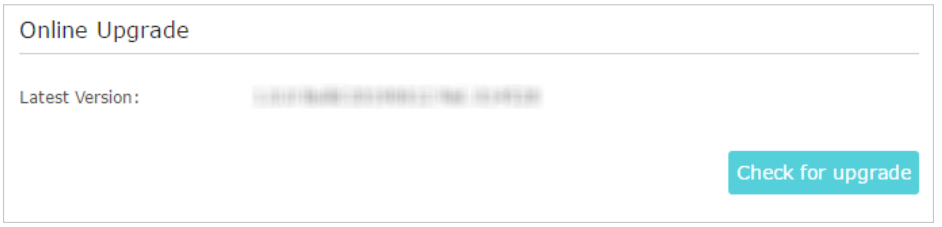
Notes:

- 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.

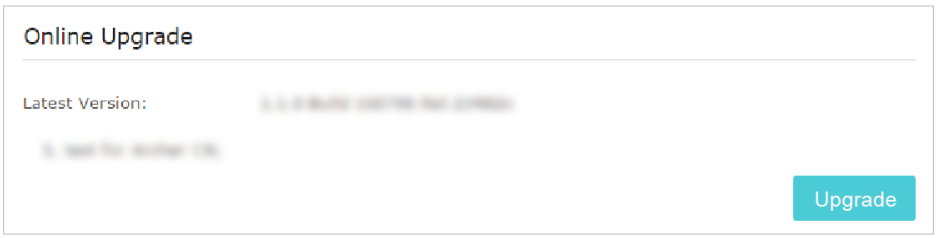
- **To upgrade the firmware online:**

1. Visit http://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.



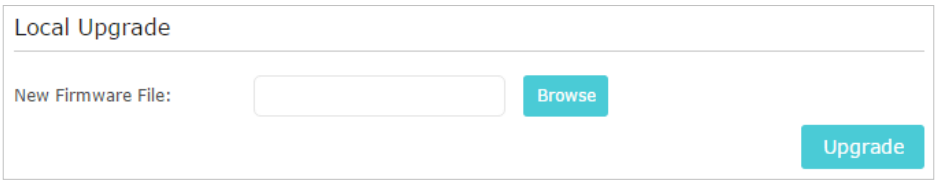
3. Focus on the Online Upgrade section, and click Upgrade.



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://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.

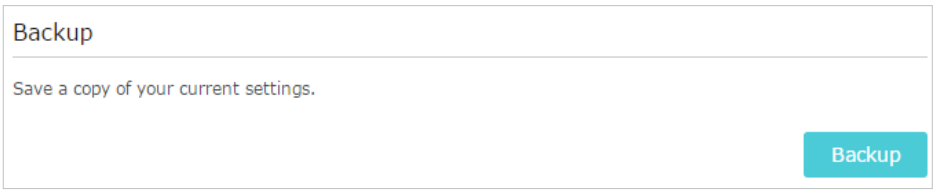
6. 5. Backup and Restore Configuration Settings

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://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.

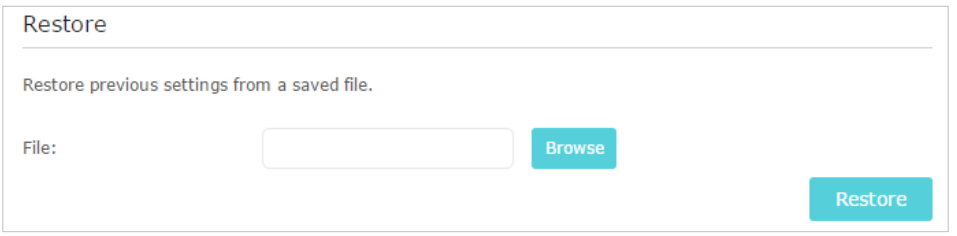
- **To backup configuration settings:**

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.

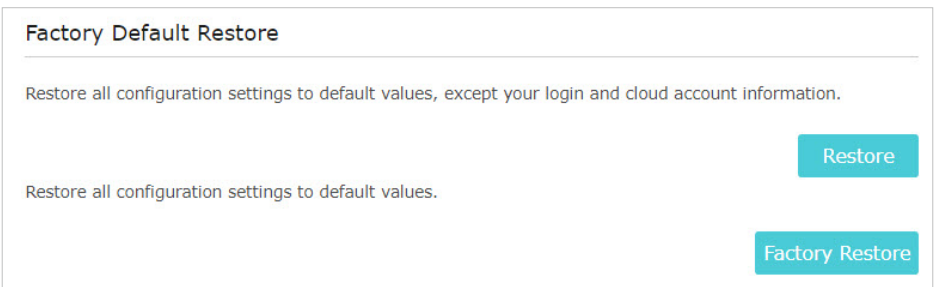


2. Wait a few minutes for the restore and reboot.

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.

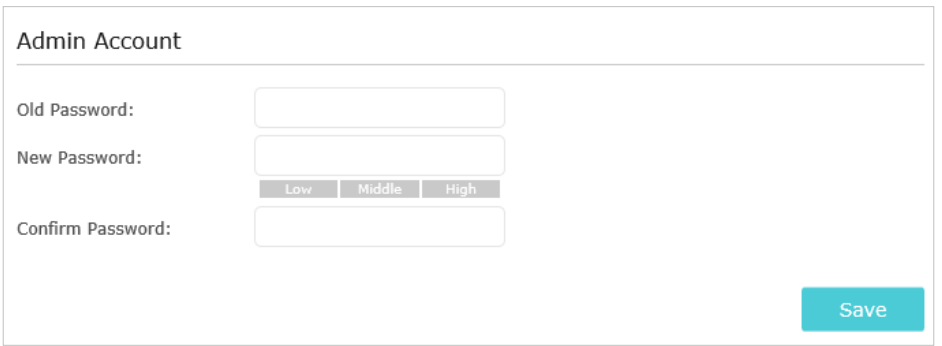
Notes:

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

6. 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://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.

6. 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://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.

System Log

Log Filter: Type = ALL Level = ALL

Refresh Delete All

ID	Time	Type	Level	Content
5	0 days 00:10:59	DHCPC	ERROR	DHCP detection failed.
4	0 days 00:10:56	DHCPC	INFO	Sent a detection for DHCP.
3	0 days 00:10:53	DHCPC	INFO	Sent a detection for DHCP.
2	0 days 00:10:50	DHCPC	INFO	Sent a detection for DHCP.
1	0 days 00:10:47	OTHERS	INFO	User cleared up all the logs.

Save Log

Chapter 7

More Features of Your Extender

This chapter explains how to use the extender as a wireless adapter and as an access point.

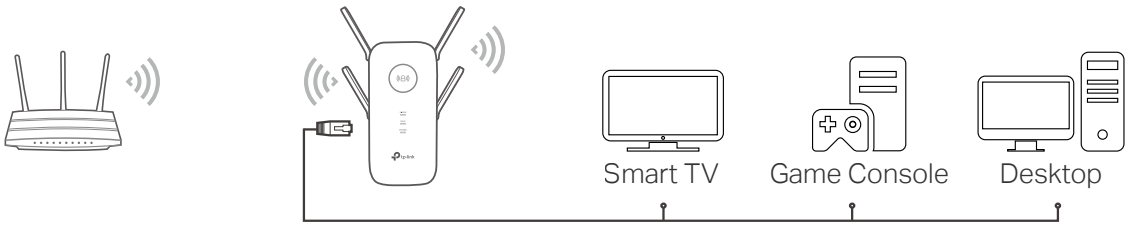
It contains the following sections:

- Use Your Extender as a Wireless Adapter
- Transform Your Existing Wired Network to a Wireless One

7. 1. Use Your Extender as a Wireless Adapter

The extender can be used as a wireless adapter to connect any wired-only device, such as a Blu-ray player, game console, DVR, or smart TV, to your wireless network.

After configuration, you can connect an Ethernet-enabled device to the extender via an Ethernet cable.

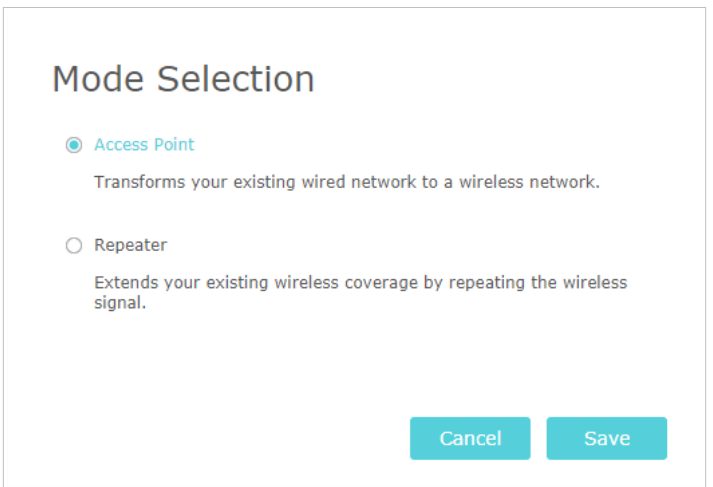


7. 2. Transform Your Existing Wired Network to a Wireless One

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

7. 2. 1. Set Up the Extender as an Access Point

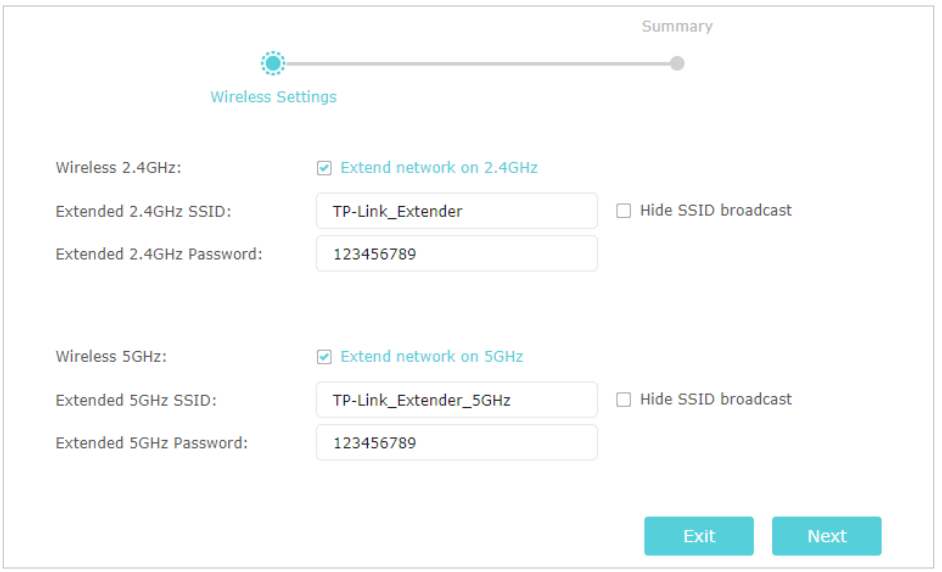
1. Visit http://tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Click Mode in the top right corner of the page. Select Access Point and click Save. The extender will reboot and switch to Access Point mode.



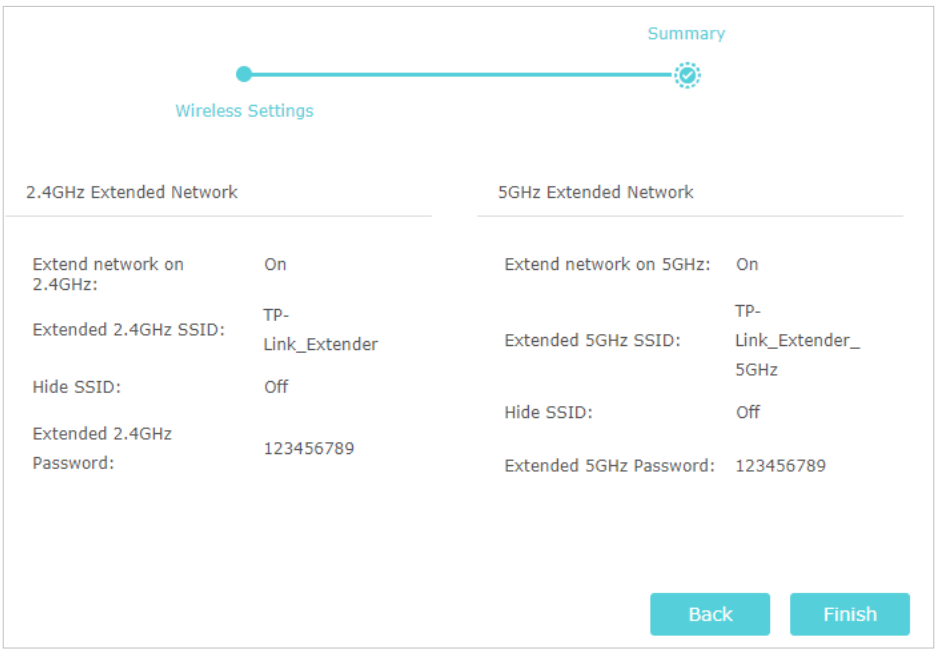
3. After rebooting, connect the extender to your modem or wired router via an Ethernet cable.

4. Visit http://tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
5. Go to Quick Setup to configure your extender.

   1) Configure your wireless settings and click Next.



   2) Confirm the information and click Finish. Now, you can enjoy Wi-Fi.



7. 2. 2. Connect Your Wireless Devices to the Extender

Method 1: Connect to the extender manually

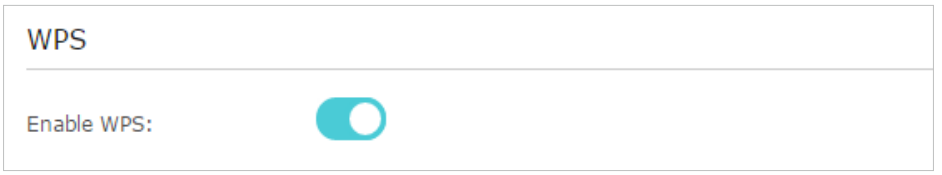
You can connect your wireless devices to the extender by manually entering the wireless password on your device.

Method 2: Connect to the extender via WPS

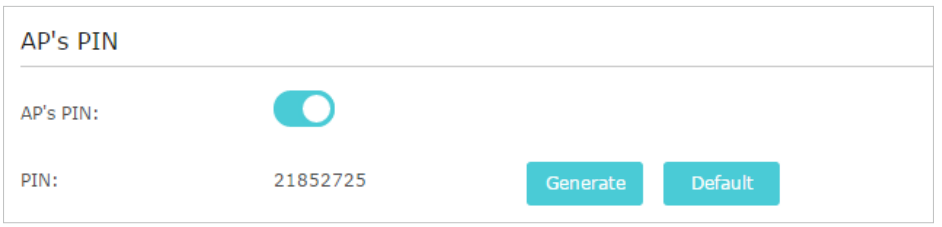
Wi-Fi Protected Setup (WPS) provides an easier way to set up a secure Wi-Fi connection.

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).

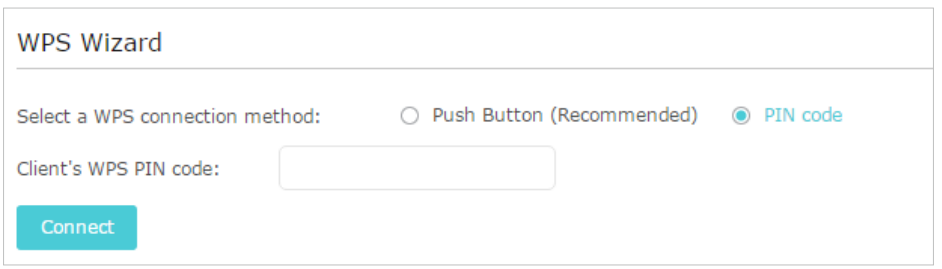
1. Visit http://tplinkrepeater.net, and log in with your TP-Link ID or the password you set for the extender.
2. Go to Settings > Wireless > WPS.
3. Enable WPS.



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.



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://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://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: AC2600 MU-MIMO Wi-Fi Range Extender

Model Number: RE650

Responsible Party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc.

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

Website: http://www.tp-link.com/us/

Tel: +1 626 333 0234

Fax: +1 909 527 6803

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."

This device is restricted in indoor environment only.

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: 2020-12-10

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 and 2011/65/EU and (EU)2015/863.

The original EU declaration of conformity may be found at https://www.tp-link.com/en/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.

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

	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

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

해당 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice

注意！

依據 低功率電波輻射性電機管理辦法

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

第十四條　低功率射頻電機之使用不得影響飛航安全及干擾合法通信；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。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

4.7.9.1應避免影響附近雷達系統之操作。

4.7.9.2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 AC2600 MU-MIMO Wi-Fi Range Extender				型號（型式）： Type designation (Type) RE650		
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	—	○	○	○	○	○
天線	○	○	○	○	○	○

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.

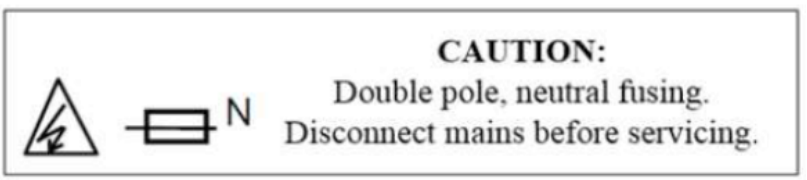
EAC

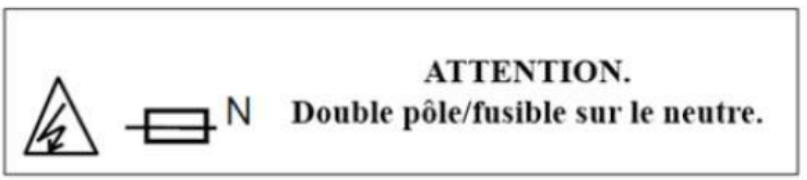
Safety Information

- 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.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Make sure the power socket has a good contact with the ground.
- Operating Temperature: 0°C ~ 40°C（32°F ~ 104°F）

  Storage Temperature: -40°C ~ 60°C（-40°F ~ 140°F）

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





Explanations of the symbols on the product label

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	For indoor use only

Symbol	Explanation
	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.
	Protective earth
	Caution, risk of electric shock
N	Fuse is used in neutral N