



User Guide

300Mbps Wi-Fi Range Extender with AC Passthrough
TL-WA860RE

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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.

When using this guide, please notice that features of the extender may vary slightly depending on the model and software version you have, and on your location, language, and internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide the following conventions are used:

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons, 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.
Tips:	Indicates important information that helps you make better use of your device.

More Info

- The latest software, management app and utility are available from the [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 range extender.
- Specifications can be found on the product page at <https://www.tp-link.com>.
- A community is provided for you to discuss our products at <https://community.tp-link.com>.
- Our Technical Support contact information can be found at 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 per ft² 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. The device also reduces signal interference to ensure reliable Wi-Fi coverage throughout your home or office.

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 Tether APP

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



1.2. Appearance



■ **Note:** TL-WA860RE(European version) is used for demonstration in this guide. The provided plug and integrate electrical socket 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
 (Signal)	Green	The extender is connected to your router's wireless network and is in a suitable location.
	Red	The extender is receiving a weak signal. Try relocating it closer to your router.
	Off	No wireless connection is established.
WPS	On/Off	The light remains on for 5 minutes when a WPS connection is established, then turns off.
	Blinking	WPS connection is in progress.
 (Power)	On	The extender is on.
	Blinking	The extender 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 host router, and immediately press the WPS button on the extender. The WPS LED of the extender should change from blinking to solid on, indicating successful WPS connection.
RESET Button	With the extender powered on, use a pin to press the RESET button for 1 second.
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.

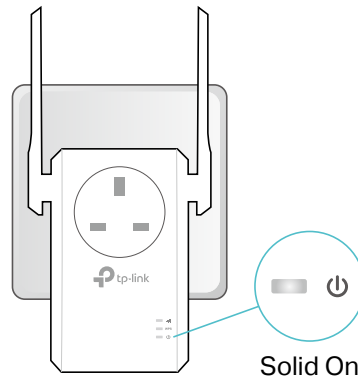
It contains the following sections:

- [Power On the Extender](#)
- [Set Up the Extender](#)

2.1. Power On the Extender

Plug the extender into an electrical outlet **near your host 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 WPS button, via the TP-Link Tether app, or via a web browser.

2.2.1. Method 1: Via the WPS Button

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



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 WPS LED turns 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 2: Via the TP-Link Tether App](#) or [Method 3: Via a Web Browser](#).

- The extender uses your router's network name with **_EXT** at the end, and shares the same password as your router.




Extended Network Name:
Router's network name with **_EXT** at the end

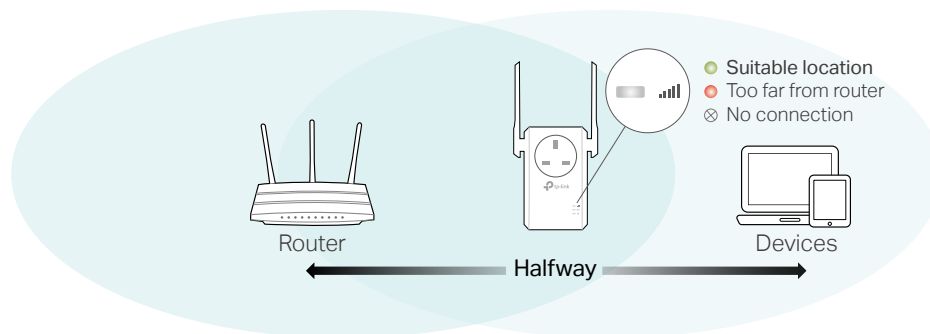
Password:
Same as your router

Note:

- For some early firmware versions, the extender shares the same network name as your router.
- If you want to customize the extended network name, refer to [Configure Wireless Network](#).

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

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



Tips:

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.

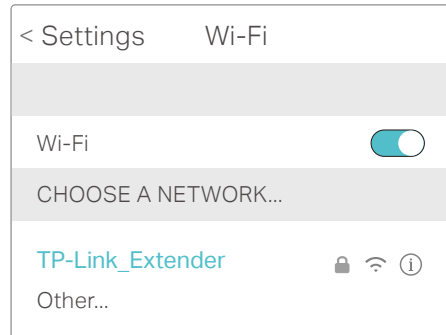
- Enjoy!** Connect to the extended network and enjoy the internet.

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

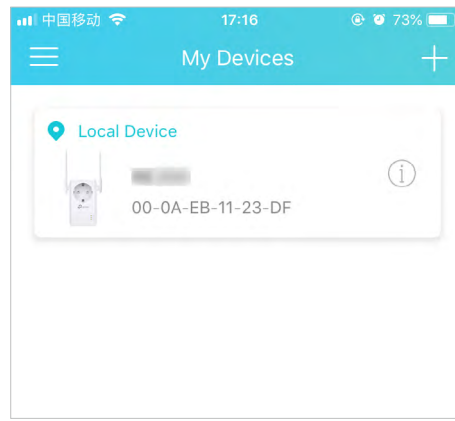
- Launch the Apple App Store or Google Play Store and search **TP-Link Tether** or simply scan the QR code to download and install the app.



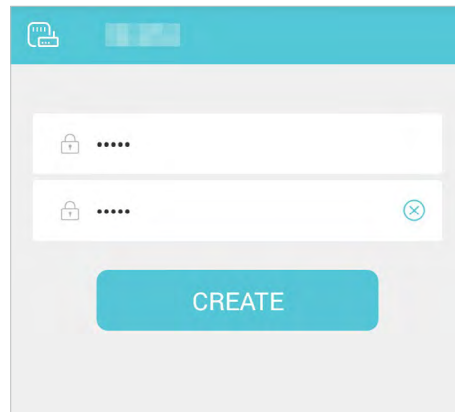
- Go to Wi-Fi Settings and connect your device to the extender's wireless network: **TP-Link_Extender**.



3. Launch Tether and select your extender from the Local Device list.



4. Create a password to log in.



5. Follow app instructions to set up and relocate your extender.

Tips:

For more intuitive location assistant, 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.

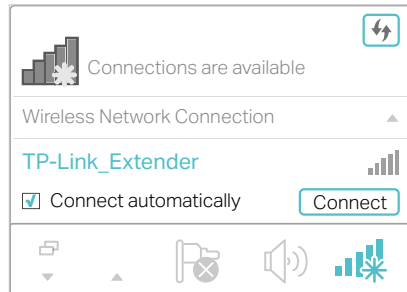
2. 2. 3. Method 3: Via a Web Browser

Note:

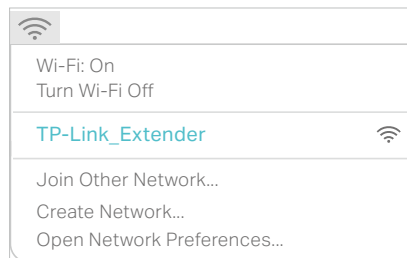
Features of the extender may vary slightly depending on the firmware version you have.

1. Connect your computer to the extender via your Ethernet cable, or connect 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](#).

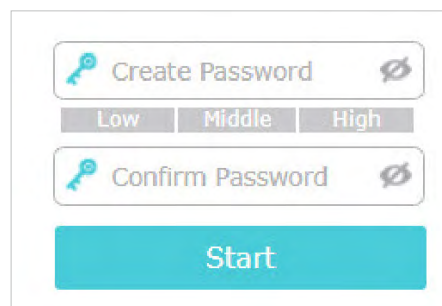


- For Mac OS X Users
 - 1) Unplug the Ethernet cable from your computer (if any).
 - 2) Click the Wi-Fi icon in the top right corner of the screen, and connect to the extender's network: [TP-Link_Extender](#).



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.



☞ **Tips:** 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](#).

Select a 2.4GHz host network to extend. [Can't find your Wi-Fi?](#)

ID	SSID	Signal	MAC Address	Security
1	AFREEWIFI1		be-84-c6-27-fe-98	
2	TP-Link_0969		00:0a:eb:13:09:69	

Host 2.4GHz Password:

[Next](#)

[Exit](#) [Other...](#) [Rescan](#)

- 3) Confirm your host network password.

Please confirm your host network password.

2.4GHz Host Network

SSID: TP-Link_0969

Password:

[Back](#) [Confirm](#)

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

Set the extended network name (SSID).

Extended 2.4GHz SSID:

Extended 2.4GHz Password:


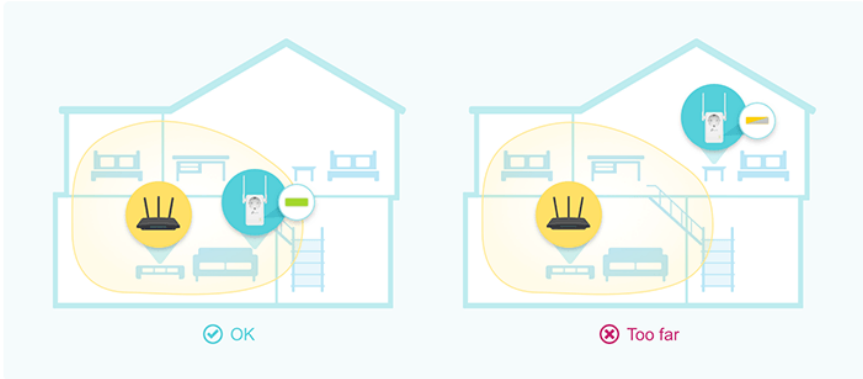
(Same as your host network password)

[Back](#) [Next](#)

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

Relocate your extender to optimize Wi-Fi coverage and performance.

- Make sure the Signal LED turns solid on. [LED not on?](#)
- 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 the host network.
- Wait for about 2 minutes until the Signal LED turns solid green. If it doesn't, relocate the extender closer to the router to achieve better signal quality.



Done

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

Now connect to the extended network, then click **Finish**.

2.4GHz Extended Network

SSID: TP-Link_0969_EXT

Password:

I have connected to the extended network.

Finish

Chapter 3

Customize Your Network

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

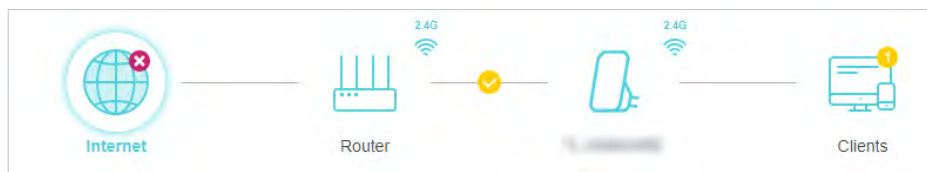
It contains the following sections:

- [Check Internet Status](#)
- [Configure Wireless Network](#)
- [Change LAN Settings](#)
- [Adjust Wi-Fi Coverage](#)
- [Set Access Control](#)

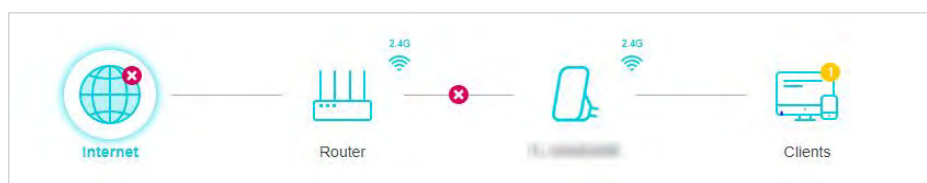
3. 1. Check Internet Status

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

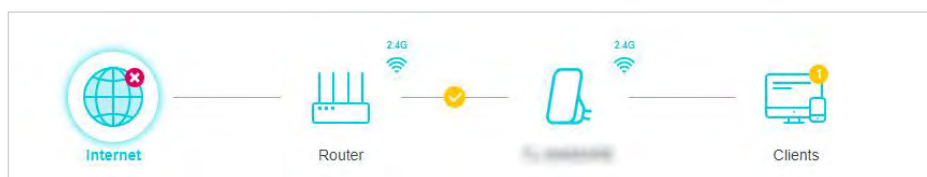
1. Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.
2. Go to **Settings** > **Status** to view the internet status of your extender.
 - The extender is functioning normally.



- The extender is not connected to the host network. Please go to **Settings** > **Wireless** > **Connect to Network** to verify the password of the host network. If the problem still exists, relocate the extender closer to the router to achieve better signal quality.



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



- 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 Internet/Router/Range Extender/Clients icon to view corresponding information.

3.2. 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 network.

Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.

- **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.

Connect to Host Network

2.4GHz Network: [Connect to 2.4GHz Network](#)

[Wireless Scanner](#)

Host 2.4GHz SSID:

Host 2.4GHz Security:

Host 2.4GHz Password:

[Save](#)

3. Select the host network you want to extend.

- **Note:**

If the network you want to extend is on but not listed, please try the following steps.

1. Move the extender closer to your router, and click [Rescan](#) in the top-right corner of the list.
 2. You can manually enter the parameters 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 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. Devices must join the network manually in order to connect.
3. Click [Save](#).

3.3. 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 the password you set for the extender.
2. Go to [Settings](#) > [Network](#).
3. Select [Use the following IP address](#).

Network Settings

Obtain an IP address automatically

Use the following IP address

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS:

Secondary DNS: (Optional)

[Save](#)

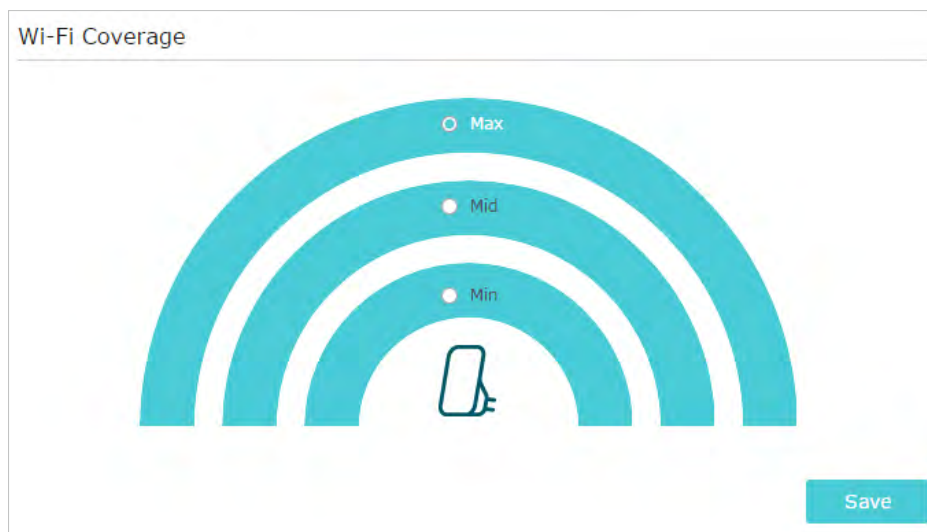
4. Enter a new [IP Address](#) as needed, and leave the subnet mask as the default settings.
5. Enter the gateway that is in the same subnet as the [IP Address](#). The gateway is usually the LAN IP address of your extender.
6. Leave the primary and secondary DNS addresses as the default settings.
7. Click [Save](#).

3.4. 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 the password you set for the extender.

2. Go to [Settings](#) > [Advanced Settings](#) > [Wi-Fi Coverage](#).
3. Select [Min](#), [Mid](#) or [Max](#) to adjust your Wi-Fi coverage of the extender.

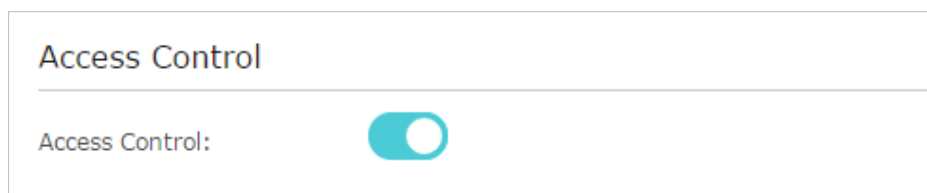


4. Click [Save](#).

3.5. Set Access Control

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

1. Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.
2. Go to [Settings](#) > [Advanced Settings](#) > [Access Control](#).
3. Enable [Access Control](#).



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

■ **Note:**

Devices connected to the extender via an Ethernet cable cannot be blocked.

1. Select [Blacklist](#) and click [Save](#).

Access Mode

Default Access Mode: Blacklist Whitelist

[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.

Online Devices

[Refresh](#) [Block](#)

<input type="checkbox"/>	ID	Device Name	IP Address	MAC Address	Connection Type	Modify
<input type="checkbox"/>	1		192.168.0.102		Wireless	Block

4. Click [Block](#) in the [Devices in Blacklist](#) table to set the [Effective Time](#) for a certain entry as needed.

Device Name:

MAC Address:

Effective Time: Cannot access at any time
 Cannot access based on the time schedule

Time: : - :

Day(s): Monday Tuesday
 Wednesday Thursday
 Friday Saturday
 Sunday

[Cancel](#) [OK](#)

5. Click [OK](#).

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

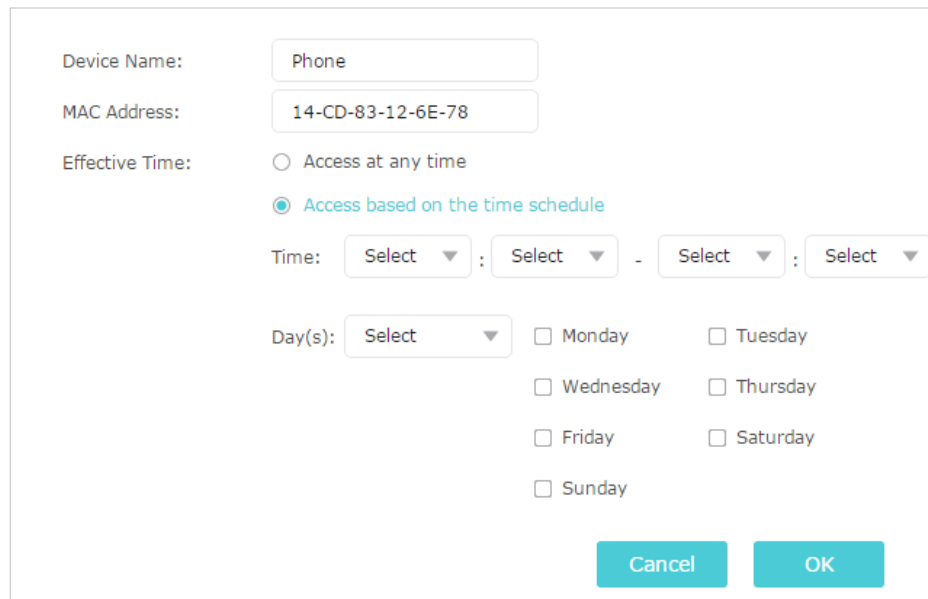
1. Select [Whitelist](#) and click [Save](#).

Access Mode

Default Access Mode: Blacklist Whitelist

[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.



The screenshot shows a configuration dialog box for adding a device to a whitelist. It contains the following fields and options:

- Device Name:** A text input field containing the value "Phone".
- MAC Address:** A text input field containing the value "14-CD-83-12-6E-78".
- Effective Time:** Two radio button options:
 - Access at any time
 - Access based on the time schedule
- Time:** A time selection interface consisting of four dropdown menus separated by colons and a hyphen, all currently set to "Select".
- Day(s):** A dropdown menu set to "Select" followed by seven checkboxes for the days of the week:
 - Monday
 - Tuesday
 - Wednesday
 - Thursday
 - Friday
 - Saturday
 - Sunday
- Buttons:** Two buttons at the bottom right: "Cancel" and "OK".

3. Click [OK](#).

Chapter 4

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](#)

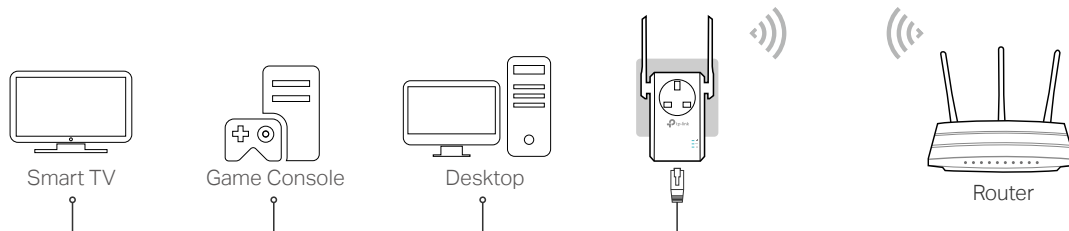
4. 1. Use Your Extender as a Wireless Adapter

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.

■ **Note:**

Extenders that have no Ethernet port do not support this feature.

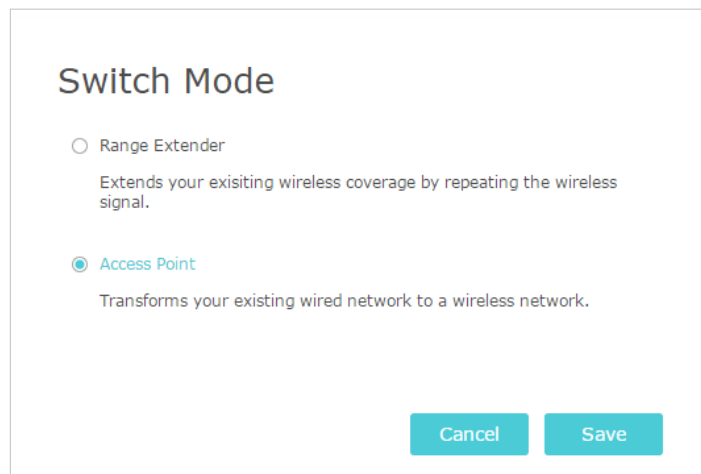


4. 2. Transform Your Existing Wired Network to a Wireless One

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

4. 2. 1. To Set Up the Extender as an Access Point

1. Visit <http://tplinkrepeater.net>, and log in with 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 the password you set for the extender.
5. Go to **Quick Setup** to configure your extender.
 - 1) Configure your wireless settings and click **Next**.

Summary

Wireless Settings

Wireless 2.4GHz: Extend network on 2.4GHz

Extended 2.4GHz SSID: Hide SSID broadcast

Extended 2.4GHz Password:

Exit Next

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

Summary

Wireless Settings

2.4GHz Extended Network

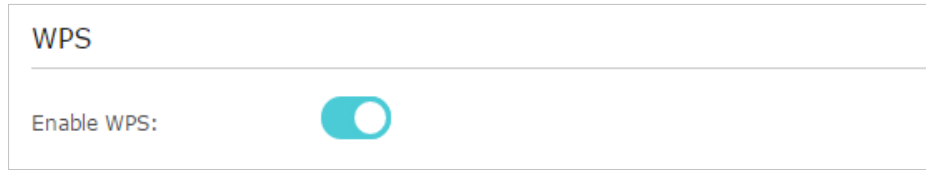
Extend network on 2.4GHz:	On
Extended 2.4GHz SSID:	TP-Link_7B00
Hide SSID:	Off
Extended 2.4GHz Password:	12345670

Back Finish

4. 2. 2. To Connect Your Wireless Devices 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 the password you set for the extender.
2. Go to **Settings** > **Wireless** > **WPS**.
3. Enable **WPS**.

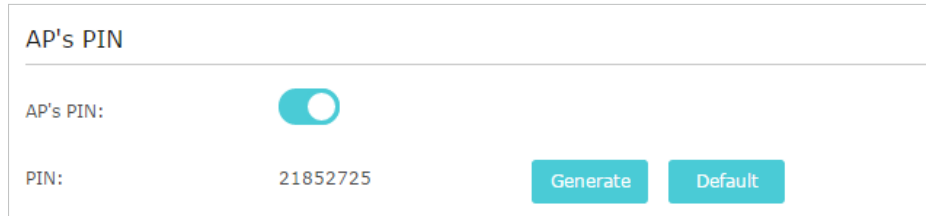


WPS

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.

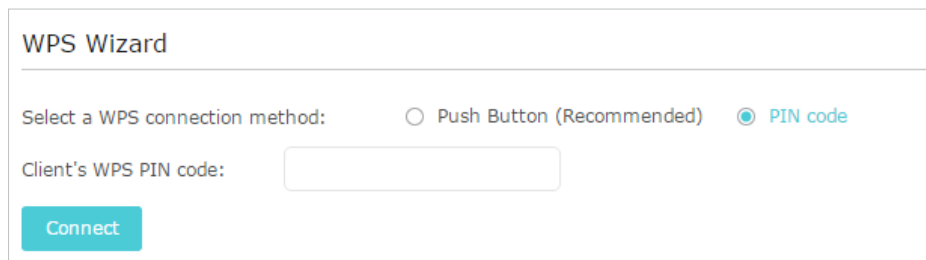


AP's PIN

AP's PIN:

PIN: 21852725 [Generate](#) [Default](#)

- Push Button (Recommended): Click [Connect](#) and push the WPS button on the client device.
- PIN code: Enter the client's PIN, and click [Connect](#).



WPS Wizard

Select a WPS connection method: Push Button (Recommended) PIN code

Client's WPS PIN code:

[Connect](#)

Chapter 5

Manage Your Extender

This chapter presents how to manage and maintain your extender.

It includes the following sections:

- [Set Up System Time](#)
- [Control LEDs](#)
- [Power Schedule](#)
- [Upgrade the Firmware](#)
- [Backup and Restore Configuration Settings](#)
- [Change Admin Account](#)
- [System Log](#)

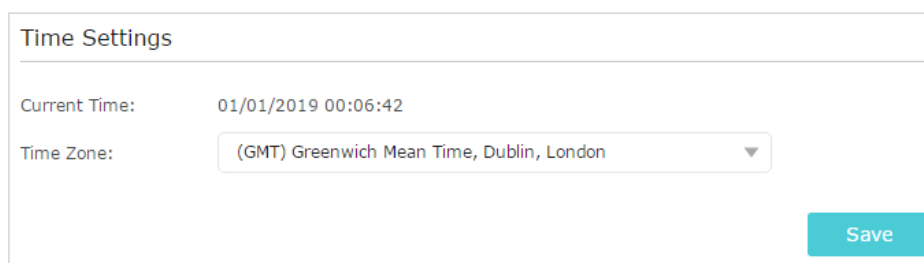
5.1. Set Up System Time

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

1. Visit <http://tplinkrepeater.net>, and log in with 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.



Time Settings

Current Time: 01/01/2019 00:06:42

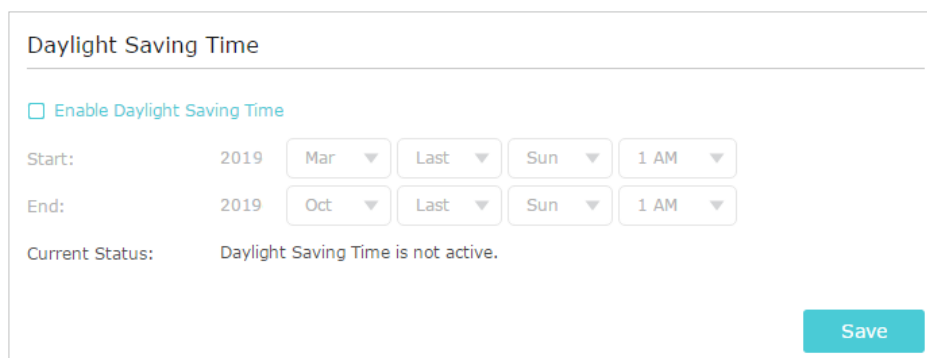
Time Zone: (GMT) Greenwich Mean Time, Dublin, London

Save

2. Click [Save](#).

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

1. Select [Enable Daylight Saving Time](#).



Daylight Saving Time

Enable Daylight Saving Time

Start: 2019 Mar Last Sun 1 AM

End: 2019 Oct Last Sun 1 AM

Current Status: Daylight Saving Time is not active.

Save

2. Select the [Start](#) and [End](#) date and time of the daylight saving time at your local time zone.

3. Click [Save](#).

5.2. Control LEDs

The LEDs of the extender indicate its activities and status. You can enable the Night Mode feature to specify a time period during which the LEDs are off.

1. Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.

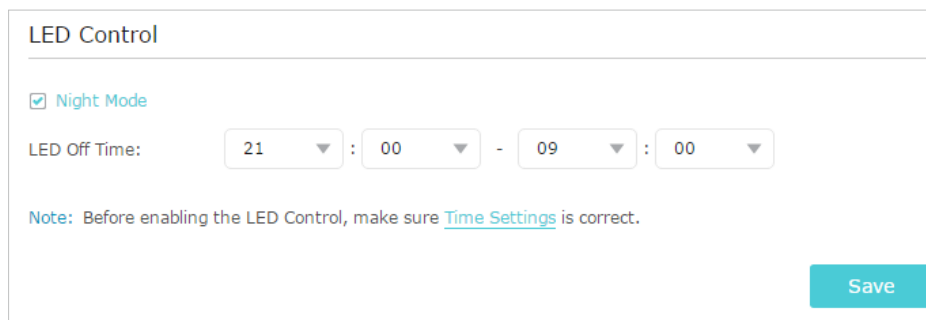
2. Go to [Settings](#) > [System Tools](#) > [LED Control](#).

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

1. Select [Night Mode](#).

2. Specify a time period in the [LED Off Time](#) field, and the LEDs will be off during this period.

3. Click [Save](#).



LED Control

[Night Mode](#)

LED Off Time: 21 : 00 - 09 : 00

Note: Before enabling the LED Control, make sure [Time Settings](#) is correct.

[Save](#)

5.3. Power Schedule

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

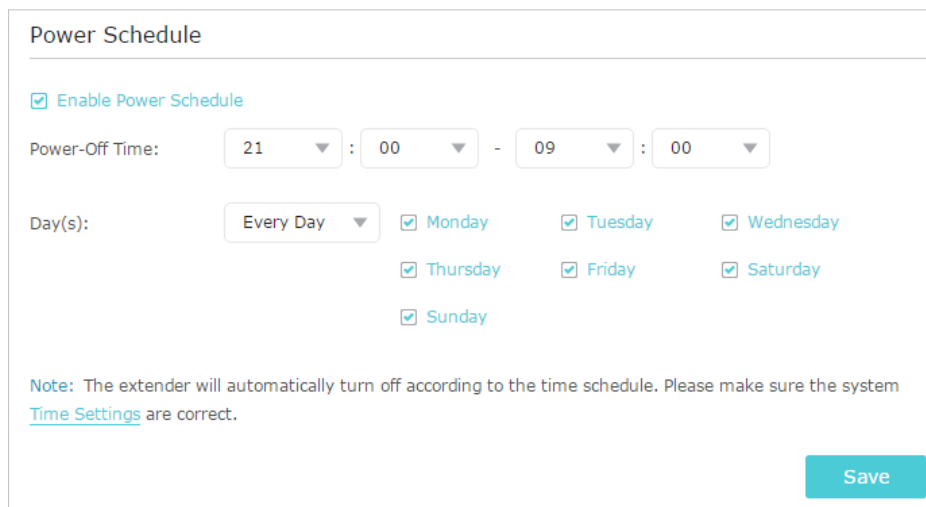
1. Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.

2. Go to [Settings](#) > [Advanced Settings](#) > [Power Schedule](#).

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

1. Select [Enable Power Schedule](#).

2. Specify a time period in the [Power-Off Time](#) field and days in the [Day\(s\)](#) field, and the extender will be off during this period.



Power Schedule

[Enable Power Schedule](#)

Power-Off Time: 21 : 00 - 09 : 00

Day(s): [Every Day](#) [Monday](#) [Tuesday](#) [Wednesday](#)
 [Thursday](#) [Friday](#) [Saturday](#)
 [Sunday](#)

Note: The extender will automatically turn off according to the time schedule. Please make sure the system [Time Settings](#) are correct.

[Save](#)

3. Click [Save](#).

5.4. Upgrade the Firmware

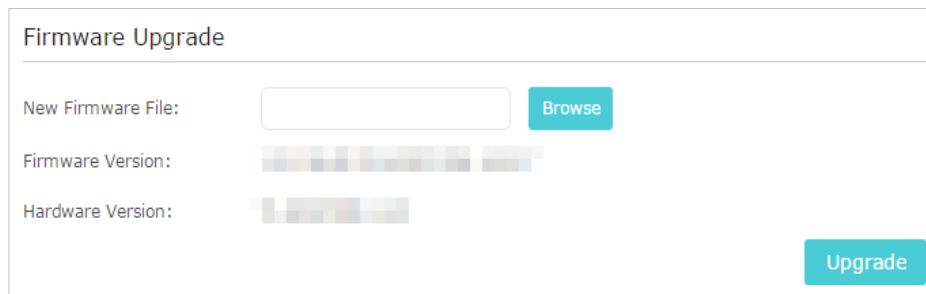
TP-Link is committed to improving product features, giving you a better network experience. You can download the latest firmware file from the [Support](#) page at our website www.tp-link.com and upgrade the extender to the latest firmware version.

■ **Note:**

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

• **To upgrade the firmware:**

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 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](#).



The screenshot shows a web interface titled "Firmware Upgrade". It contains three input fields: "New Firmware File:" with a text box and a "Browse" button; "Firmware Version:" with a text box; and "Hardware Version:" with a text box. A large "Upgrade" button is located at the bottom right of the form.

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

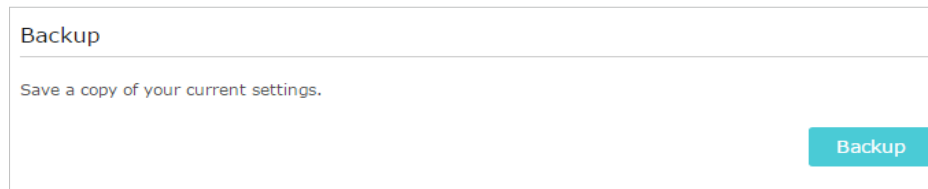
5.5. Backup and Restore Configuration Settings

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 the password you set for the extender.
2. Go to [Settings](#) > [System Tools](#) > [Backup & Restore](#).

- **To backup configuration settings:**

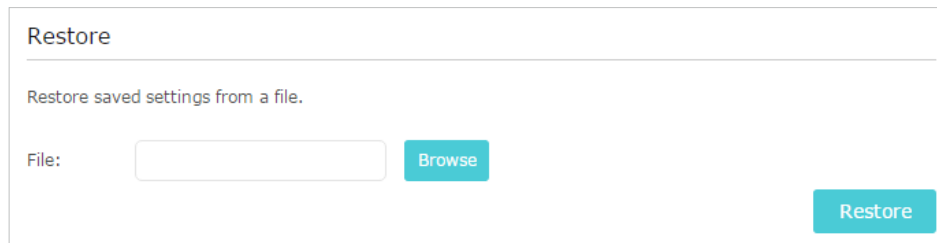
Click [Backup](#) to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored on your computer.



The screenshot shows a web interface titled "Backup". Below the title is a horizontal line, followed by the text "Save a copy of your current settings." In the bottom right corner, there is a teal button labeled "Backup".

- **To restore configuration settings:**

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



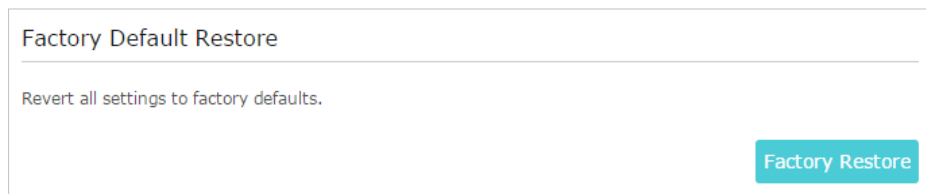
The screenshot shows a web interface titled "Restore". Below the title is a horizontal line, followed by the text "Restore saved settings from a file." Below this text is a "File:" label, a text input field, and a teal button labeled "Browse". In the bottom right corner, there is a teal button labeled "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 reset the extender.



The screenshot shows a web interface titled "Factory Default Restore". Below the title is a horizontal line, followed by the text "Revert all settings to factory defaults." In the bottom right corner, there is a teal button labeled "Factory Restore".

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

▀ **Note:**

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

5.6. Change Admin Account

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

1. Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.
2. Go to [Settings](#) > [System Tools](#) > [Admin Account](#).

3. Enter the old password, then the new password twice (both case-sensitive) and click [Save](#).

Admin Account

Old Password:

New Password:

Confirm Password:

Done! Use the new password for future logins.

5.7. System Log

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

1. Visit <http://tplinkrepeater.net>, and log in with 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 = Level =

ID	Time	Type	Level	Content
1	0 days 00:10:02	OTHERS	INFO	User cleared up all the logs.

FAQ

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

- With the extender powered on, use a pin to press the **RESET** button for 1 second.
- 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 create a new password for future login attempts.

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

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

The factory default wireless password is printed on the label of the extender.

If the password has been altered, please connect your computer to the extender using an Ethernet cable and follow the steps below:

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

Q4. What should I do if I cannot access the web management page?

This can happen for a variety of reasons. Please try the following.

- If your computer is wirelessly connected, make sure that you have connected to the extender's SSID.
- If your computer is connected via an Ethernet cable, please make sure that the connection is stable.
- Make sure your computer is set to obtain an IP address and 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 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.

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FCC compliance information statement



Product Name: 300Mbps Wi-Fi Range Extender with AC Passthrough

Model Number: TL-WA860RE

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: 2023-08-08

CE Mark Warning



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

OPERATING FREQUENCY (the maximum transmitted power)

2400 MHz -2483.5 MHz (20dBm)

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 <http://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.

UKCA Mark



UK Declaration of Conformity

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

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

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.

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！

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。

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。

- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 不要私自拆開機殼或自行維修，如產品有故障請與原廠或代理商聯繫。

限用物質含有情況標示聲明書

設備名稱：300Mbps Wi-Fi Range Extender with AC Passthrough		型號（型式）：TL-WA860RE				
Equipment name		Type designation (Type)				
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺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	—	○	○	○	○	○
<p>備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “—” 係指該項限用物質為排除項目。 Note 3: The “—” indicates that the restricted substance corresponds to the exemption.</p>						



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



Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use the device where wireless devices are not allowed.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.

- For passthrough devices, plug the power strips into the integrated electrical sockets of the devices, but devices of the same or another type not be stacked in normal use.
















- Plug the powerline devices into the wall outlets with earthing connection.
- Do not touch the external surfaces for long periods.
- Operating Temperature: 0°C ~40°C
- 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: 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
	For indoor use only
	Dangerous voltage
	Caution, risk of electric shock
	Energy efficiency Marking
	Protective earth

Symbol	Explanation
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON"/"OFF" (push-push)
	Fuse
	Fuse is used in neutral N
	<p>RECYCLING</p> <p>This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.</p> <p>User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.</p>
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction
μ	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US)
ε	Switch without contact gap (Semiconductor switching device)