



User Guide

300Mbps USB Wi-Fi Range Extender
TL-WA820RE

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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.
symbols on the web page	<ul style="list-style-type: none"> Click to edit the corresponding entry. Click to delete the corresponding entry.

More Info

The latest software, management app and utility are available from the [Download Center](#) at 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 <http://www.tp-link.com>.

A Technical Support Forum is provided for you to discuss our products at <http://forum.tp-link.com>.

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

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

1. 1. 1. Bring Dead Zones Back to Life

Tired of Wi-Fi “dead zones”? The TP-Link extender is connected to your router wirelessly, strengthening and expanding its signal into areas it can't reach on its own. The device also reduces signal interference to ensure reliable Wi-Fi coverage throughout your home or office.

1. 1. 2. 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 RE/WPS button, or by following the step-by-step Quick Setup instructions of the extender's web management page.

Once the extender is connected to an existing router, you can take it to an ideal place, no more further configurations. The intelligent signal light can help to find the best location.

1. 1. 3. Easy Management with the Tether APP


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

1.2. Appearance




LED Explanation

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

Name	Status	Indication
 RE LED	Solid Blue	The extender is connected to the router and is in a good location.
	Solid Red	The extender is not connected to any router, or is connected to the router but too far away from it.
	Blinking Blue	The extender is connecting to the router.
	Blinking Red	The extender is starting up.
	Off	No active connection.

Port and Button Description

Ports or Buttons	Description
------------------	-------------

 (WPS/RESET Button)	To use the WPS function, press the WPS button on your host router, and immediately press the WPS/RESET button on the extender. The RE LED of the extender should change from blinking to solid blue, indicating successful WPS connection.
	To reset the extender, press and hold this button until the RE LED turns off momentarily, and then release the button.
USB Port	For connecting the extender to a USB power adapter.

Chapter 3

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.

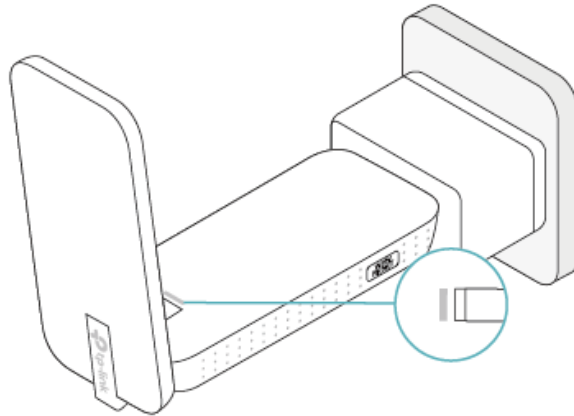
It contains the following sections:

- [Quick Setup](#)
- [Position Your extender](#)




2.1. Quick Setup

2.1.1. Power on


Plug the extender into an electrical outlet [near your host router](#), and then wait until the RE LED is solid on.



2.1.2. Connect to the host network

There are two ways to connect to the host network: via the WPS button or via a web browser. Using the WPS button is an easier way to extend your host network. We recommend you to use this way if your router has a WPS button. The button might look like one of these:    .

Method One: Via the WPS button

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



☞ Tips:

- Some ISP gateways disable the WPS function by default. If the WPS connection fails, please refer to [Method Two: Via a web browser](#).
- For more information about using WPS button on your host router, please refer to the router manufacturer's user guide.

2. Relocate your extender referring to [Position Your extender](#).

3. **Enjoy!** The extended network shares the same wireless network name and password as that of your host network.

Method Two: Via a web browser


1. Connect your computer to the extender's wireless network.

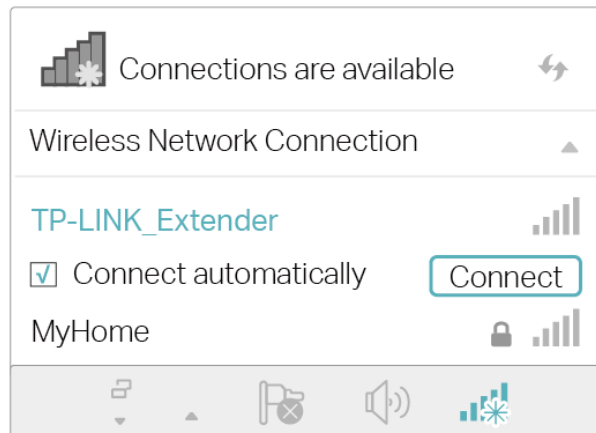
 **Tips:**

Before connecting, please find the SSID (network name) on the label of the extender.

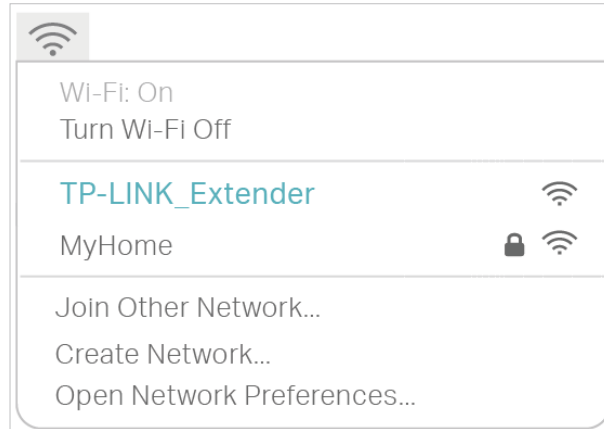
- For Windows Users
 - 1) Unplug the Ethernet cable from your computer (if any).
 - 2) Click the Wireless Network Connection icon on the taskbar.



- 3) Click the refresh icon  and connect to the extender's wireless network: [TP-LINK_Extender](#).

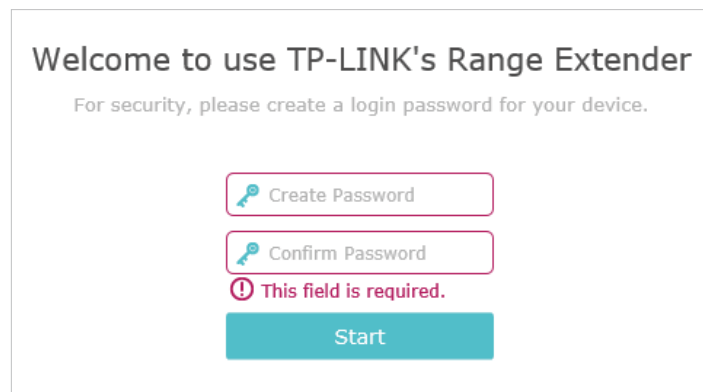


- For Mac OS X Users
 - 1) Unplug the Ethernet cable from your computer (if any).
 - 2) Click the Wi-Fi icon in the top right corner of the screen, and connect to the extender's network: [TP-LINK_Extender](#).



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

- 1) Launch a web browser and type <http://tplinkrepeater.net> in the address field. Create a password for secure management purpose, and then click **Start**.



☞ **Tips:**

If the login window does not pop up, please refer to the [FAQ](#).

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

Wireless Settings

2.4GHz Host Network Summary

Please select 2.4GHz host network.

ID	SSID	Signal	MAC Address	Security
4	TP-LINK_0101		00:0a:eb:13:01:01	

Host 2.4GHz Password:

Next

Exit Other... Rescan

- 3) Either keep the default SSID (network name) or customize it for the 2.4GHz extended network, and then click [Next](#).

Wireless Settings

2.4GHz Host Network Summary

Extended 2.4GHz SSID: [Copy Host SSID](#)

Hide SSID broadcast


Note: The extended 2.4GHz password is the same as your Host password.

Back Next

- 4) Verify your wireless settings and click [Save](#).


Wireless Settings

2.4GHz Host Network Summary



2.4GHz

Router



2.4GHz

Range Extender

Router

2.4GHz Wireless

SSID: TP-LINK_0101

Password: 12345678

Range Extender

2.4GHz Wireless

SSID: TP-LINK_0101

Hide SSID: Off

Password: 12345678

Back Save

- 5) **Enjoy!** Connect to the extended network and enjoy the internet. The extended network shares the same wireless password as those of your host network, but may have different network names if you have customized the SSID during the configuration.

Wireless Settings

2.4GHz Host Network Summary

Congratulations!

Now, connect to your new extended network and enjoy the Internet.

2.4GHz Wireless

SSID: TP-LINK_0101

Password: 12345678

I am connected to the extended network.


Finish

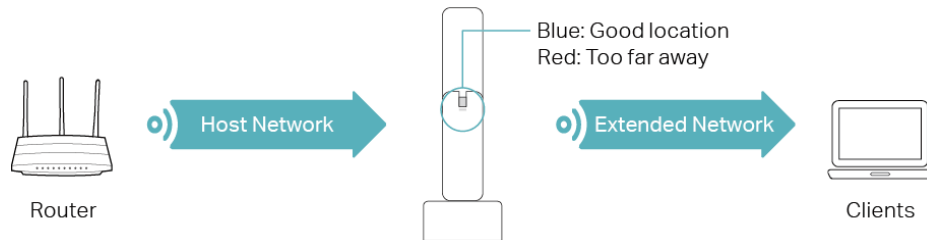
📌 **Tips:**

Since the performance of the extended network will be affected by the distance between your extender and host router, we highly recommend you to relocate your extender referring to [Position Your extender](#).

2.2. Position Your extender

Please follow the instructions below to achieve optimal performance of your extender.

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 the host network.
2. Wait until the RE LED  turns solid blue. If it doesn't, relocate the extender closer to the router to achieve a better signal quality.



🔗 **Tips:**

- If the LED still doesn't turn solid blue, please refer to [FAQ](#).
- 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.

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](#)
- [Specify DHCP Server Settings](#)
- [Adjust Wi-Fi Coverage](#)
- [Set Access Control](#)

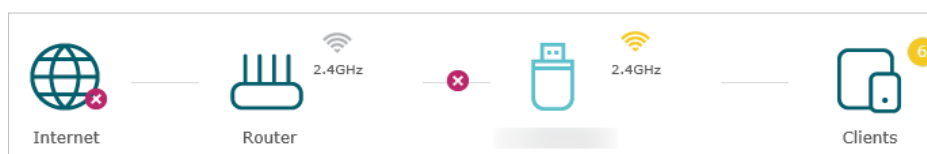
3.1. Check Internet Status

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

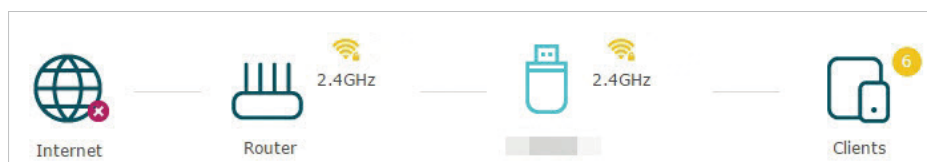
1. Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.
2. Go to **Settings** > **Status** to view the Internet status of your extender.
 - The extender is functioning normally.



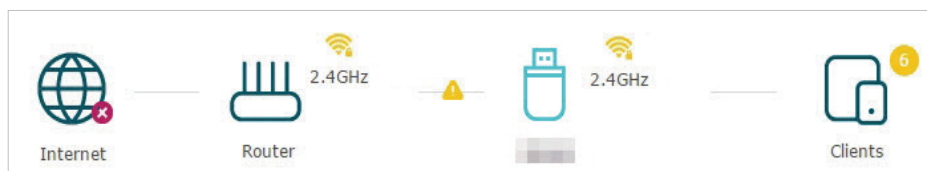
- The extender is not connected to the host network. Please go to **Settings** > **Wireless** > **Connect to Network** to check the password of the host network. If the problem still exists, please refer to the [FAQ](#) section.



- 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.

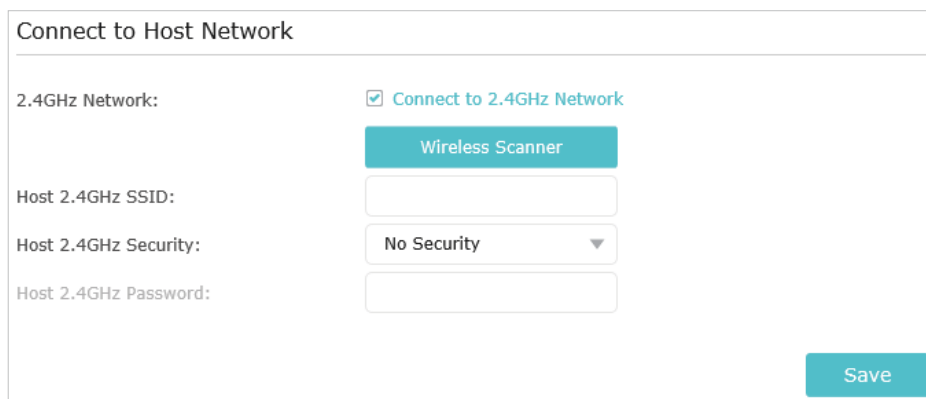
3.2. Configure Wireless Network

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.



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.

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 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 [Host 2.4GHz Password](#) field.
5. Click [Save](#).

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

1. Go to [Settings](#) > [Wireless](#) > [Extended Network](#).
2. Extended network is enabled by default. If you want to disable the wireless function, just clear the [Enable](#) checkbox. In this case, all the wireless settings 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.

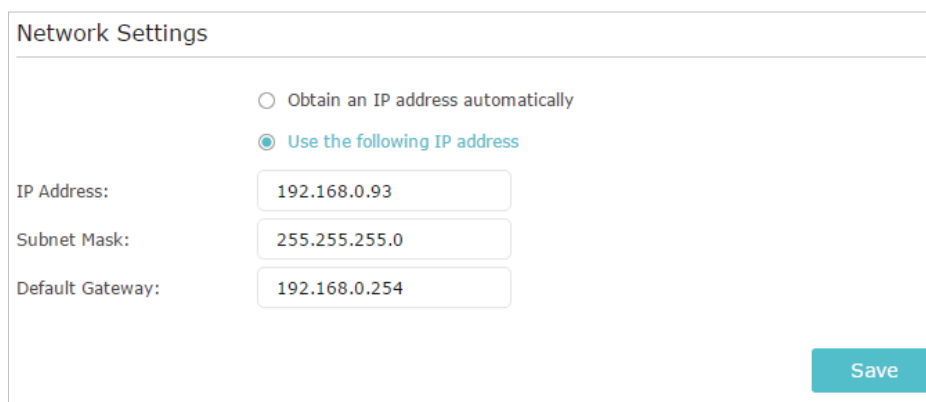
➤ **To hide the SSID of the extended network:**

1. Go to [Settings](#) > [Wireless](#) > [Extended Network](#).
2. Select [Hide SSID broadcast](#), and the 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](#).
4. Enter a new IP address as needed and leave the [Subnet Mask](#) as the default settings and enter the gateway that is in the same subnet as the IP address. The gateway is usually the LAN IP address of your extender.



The screenshot shows the 'Network Settings' page. At the top, there are two radio buttons: 'Obtain an IP address automatically' (unselected) and 'Use the following IP address' (selected). Below this, there are three input fields: 'IP Address' with the value '192.168.0.93', 'Subnet Mask' with the value '255.255.255.0', and 'Default Gateway' with the value '192.168.0.254'. A 'Save' button is located at the bottom right of the form.

5. Click [Save](#).

3.4. Specify DHCP Server Settings

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

1. Visit <http://tplinkrepeater.net>, and log in with the password you set for the extender.
2. Go to **Settings > Network**.

➤ **To specify the IP address that the extender assigns:**

DHCP Server Settings

DHCP Server: Auto On Off

IP Address Pool: -

Address Lease Time: minutes (1 default, 2880 maximum)

Default Gateway: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

[Save](#)

1. Select **Auto** (recommended) or **On** to enable the DHCP Server.
2. Enter the starting and ending IP addresses in the **IP Address Pool**.
3. Enter other parameters if the ISP requires them. The **Default Gateway** is automatically filled in and is the same as the LAN IP address of the extender.
4. Click **Save**.

➤ **To view the DHCP Client List:**

You can view the information of the DHCP clients connected to the extender in the DHCP Client List.

DHCP Client List

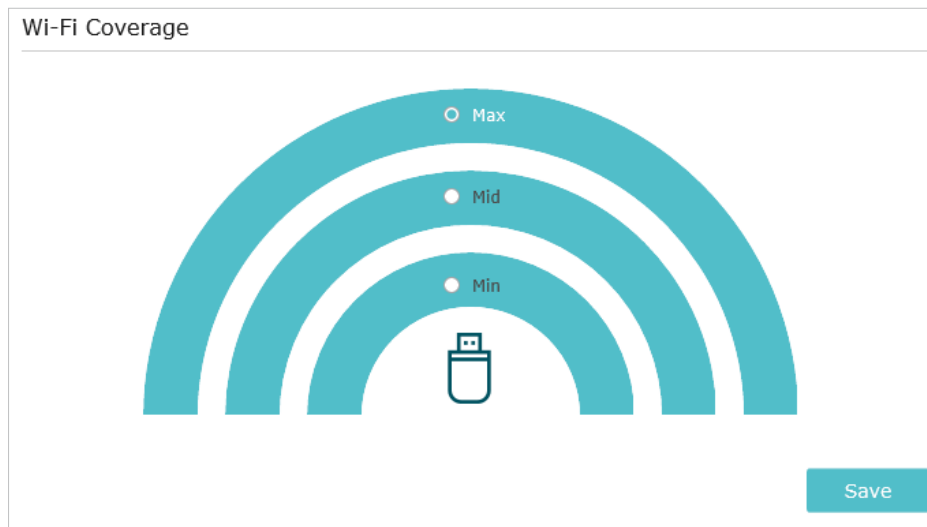
Client Number: 1 [Refresh](#)

ID	Client Name	MAC Address	Assigned IP Address	Lease Time
1	[REDACTED]	FC-AA-14-C4-3D-0C	192.168.0.100	00:00:43

3. 5. 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.

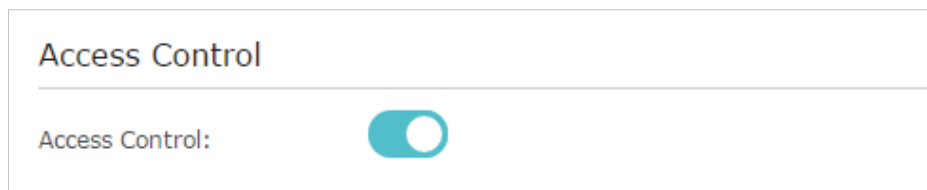


4. Click **Save**.

3.6. Set Access Control

Access Control allows you to permit or block specific devices from accessing the 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**.

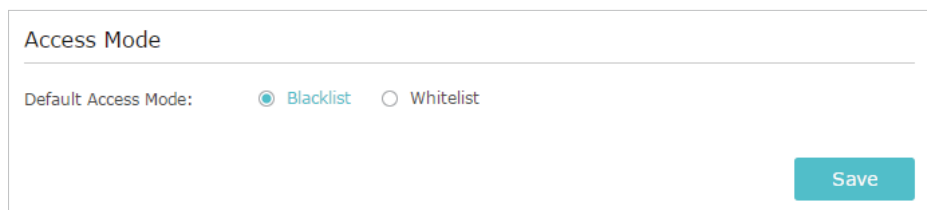


➤ **To block specific device(s):**

Note:

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

1. Select **Blacklist** and click **Save**.



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	

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

Device Name:

MAC Address:

Effective Time: Access at any time
 Access based on the time schedule

Time: : - :

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

5. Click **OK**.

➤ **To permit specific device(s):**

1. Select **Whitelist** and click **Save**.

Access Mode

Default Access Mode: Blacklist Whitelist

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.

Device Name:

MAC Address:

Effective Time: Access at any time
 Access based on the time schedule

Time: : - :

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

3. Click **OK**.

Chapter 4

Manage Your Extender

This chapter presents how to manage and maintain your extender.

It includes the following sections:

- [Set Up System Time](#)
- [Control LEDs](#)
- [Upgrade the Firmware](#)
- [Backup and Restore Configuration Settings](#)
- [Change Login Password](#)
- [System Log](#)

4.1. 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.

The screenshot shows the 'Time Settings' page. It displays the 'Current Time' as 01/01/2016 00:05:29. Below that, the 'Time Zone' is set to '(GMT+01:00) Berlin, Stockholm, Rome, Bern, Brussels' with a dropdown arrow. A teal 'Save' button is located at the bottom right of the form.

2. Click [Save](#).

➤ To set up Daylight Saving Time:

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

The screenshot shows the 'Daylight Saving Time' page. The 'Enable Daylight Saving Time' checkbox is checked. The 'Start' date is set to 2016 Mar Last Sun 1 AM, and the 'End' date is set to 2016 Oct Last Sun 1 AM. The 'Current Status' is 'Daylight Saving Time is not active.' A teal 'Save' button is located at the bottom right of the form.

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

3. Click [Save](#).

4.2. Control LEDs

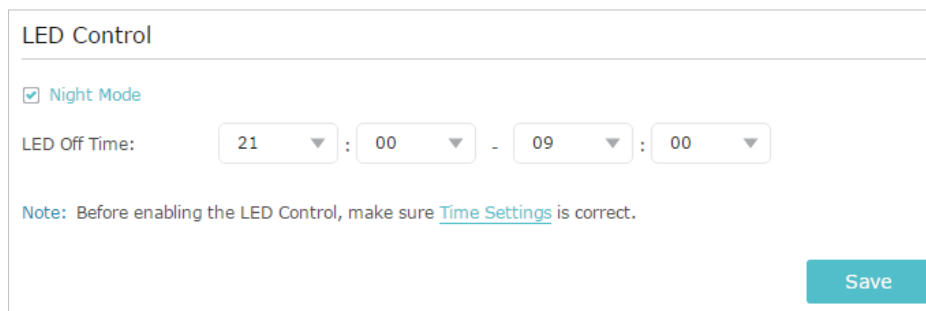
The LEDs of the extender indicate its activities and status. You can enable the Night Mode feature to specify a time period during which the LEDs are off.

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 during which 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](#)

4.3. Upgrade the Firmware

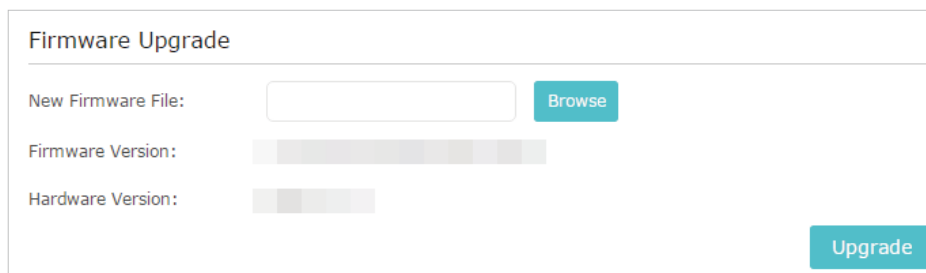
TP-Link is committed to improving product features, giving you a better network experience. You can download the latest firmware file from the [Support](#) page at our website www.tp-link.com and upgrade the extender to the latest firmware version.

■ **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](#).



Firmware Upgrade

New Firmware File: [Browse](#)

Firmware Version:

Hardware Version:

[Upgrade](#)

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

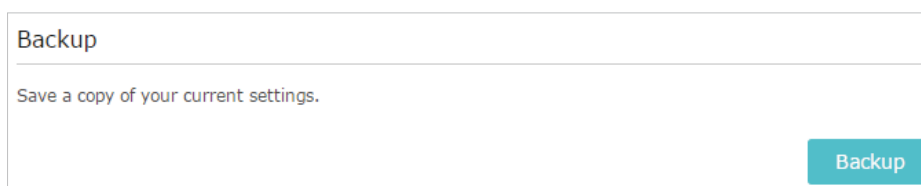
4.4. Backup and Restore Configuration Settings

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.



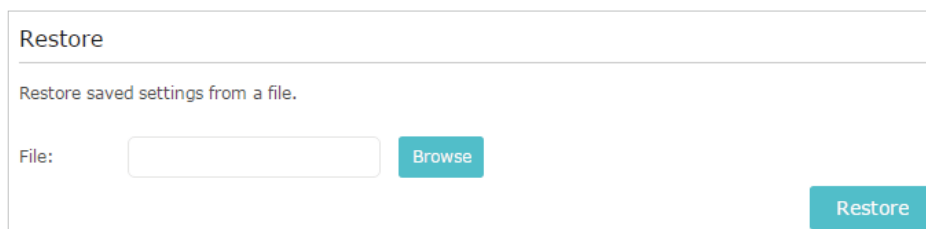
Backup

Save a copy of your current settings.

[Backup](#)

➤ To restore configuration settings:

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



Restore

Restore saved settings from a file.

File: [Browse](#)

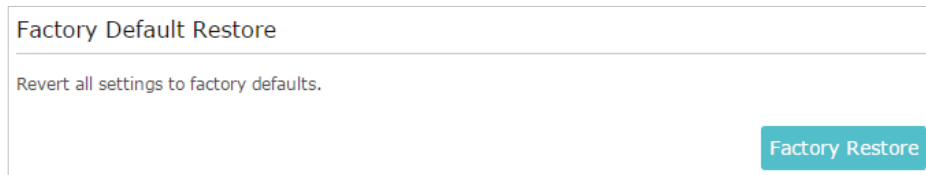
[Restore](#)

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.



Factory Default Restore

Revert all settings to factory defaults.

Factory Restore

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

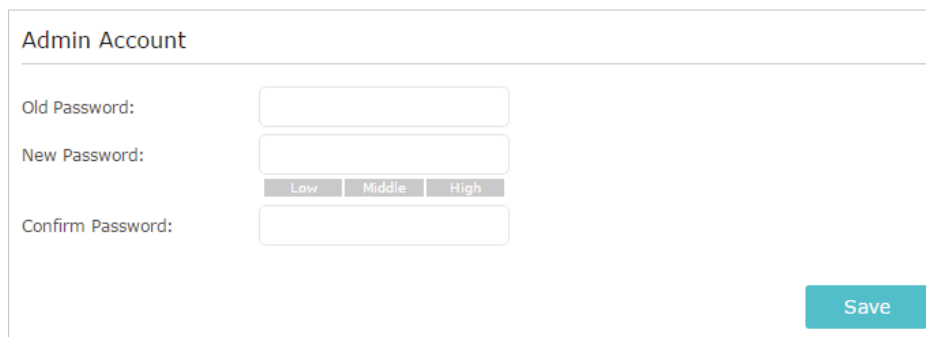
■ **Note:**

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.

4.5. Change Login Password

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

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:

Low Middle High

Confirm Password:

Save

4. Use the new password for future logins.

4.6. 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 = 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](#)

FAQ

Q1. What should I do if I can't access the extender's web management page after entering <http://tplinkrepeater.net>?

- Make sure your computer is connected to the extended network.
- Make sure your computer's setting is set to obtain an IP address and DNS server address automatically.
- 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 connect to its wireless network. Enter <http://tplinkrepeater.net> or <http://192.168.0.254> in the web browser and press **Enter**.

Q2. How can I reset the extender?

- With the extender powered on, press and hold the WPS/RESET button  for more than 5 seconds until the RE LED  turns off momentarily, and then release the button.
- **Note:** After the extender restarts, you need to configure it again by following Option ONE or Option TWO.

Q3. Why doesn't the RE LED turn solid blue ?

- If you failed to connect the extender to the router using web browser, you may have entered an incorrect Wi-Fi password for your host router during the configuration. Log in to the extender's web management page to check the password and try again.
- The extender may be out-of-range. Please move it **closer** to the router. If the RE LED still doesn't turn solid blue, reset the extender and then go through the configuration again.

Q4. What should I do if I forget the password of the extender's web management page?

- Refer to FAQ > Q2 to reset the extender and then visit <http://tplinkrepeater.net> to create a new login password.


Q5. I enabled wireless MAC filter, wireless access control, or access control list (ACL) on my router and what should I do to configure and use 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, and make sure the router's link LED remains lit.
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 STATEMENT



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."

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.

RF Exposure Information

This device meets the EU requirements (1999/5/EC 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.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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'utilisateur de 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

당해 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。

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。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。



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




Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

Explanations of the symbols on the product label

Symbol	Explanation
	AC voltage
	Indoor use only

Symbol	Explanation
	<p data-bbox="422 241 1369 273">RECYCLING</p> <p data-bbox="422 273 1369 399">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 data-bbox="422 399 1369 472">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>

