User Guide

AV1000 Powerline AX1500 Wi-Fi 6 Extender
TL-WPA7817

 1910013603 REV1.0.0

Contents

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 in typical scenarios.

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

Conventions

In this guide the following conventions are used:

Convention	Description
Powerline extender	Stands for AV1000 Powerline Wi-Fi Extender without any explanation.
Teal_Underlined	Hyperlinks are in teal and underlined. You can click to redirect to a website or a specific section.
Teal	Key information appears in teal, including management page text such as menus, items, buttons and so on.
>	The menu structures to show the path to load the corresponding page. For example, Wireless > MAC Filter means the MAC Filter function page is under the Wireless menu.
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	• click to edit the corresponding entry. • click to delete the corresponding entry. • click to enable or disable the corresponding entry.

More Info

- The latest software, management app and utility are available from the Download Center at https://www.tp-link.com/support/download/.
- The Quick Installation Guide (QIG) can be found where you find this guide or inside the product packaging.
- Specifications can be found on the product page at https://www.tp-link.com.
- Our Technical Support contact information can be found at the Contact Technical Support page at https://www.tp-link.com/support.
- TP-Link Community is provided for you to discuss our products and share knowledge at https://community.tp-link.com/.

Compatibility Disclaimer

- *Compatible with all HomePlug AV and AV2 Standard Powerline adapters. This product may not be compatible with routers or gateways with firmware that has been altered, is based on open source programs, or are non-standard or outdated.

Wi-Fi 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 2

Get to Know Your Powerline Extender

This chapter introduces the powerline extender by detailing its main features and appearance.

It contains the following sections:

2. 1. Product Overview

TP-Link's Powerline Wi-Fi Extender is a combined wired/wireless network expansion device. With the help of your home's existing electrical circuitry, it can extend your Wi-Fi to wherever you want in your house.

Ethernet ports and built-in antennas enable the powerline Wi-Fi extender to provide wired and wireless access for multiple computers and mobile devices.

With an array of additional features, the powerline Wi-Fi extender is the perfect choice for your home or business network.

2. 2. Main Features

- HomePlug AV2 Standard Compliant: Provides users with stable, high-speed data transfer rates of up to 1000 Mbps on a line length of up to 300 meters.
- One-Touch Wi-Fi Configuration: With just a tap, copy your router's wireless settings onto the extender to share the same SSID and password.
- Gigabit Ethernet for Reliable Connections: Provide warp-speed wired connections for 4K HD streaming, lag-free gaming, and more.
- Easy Setup and Management: Quickly set up a secured Powerline network with Plug & Play and easily manage it via the tpPLC app, Utility, and/or Web Interface.

2. 3. Product Appearance

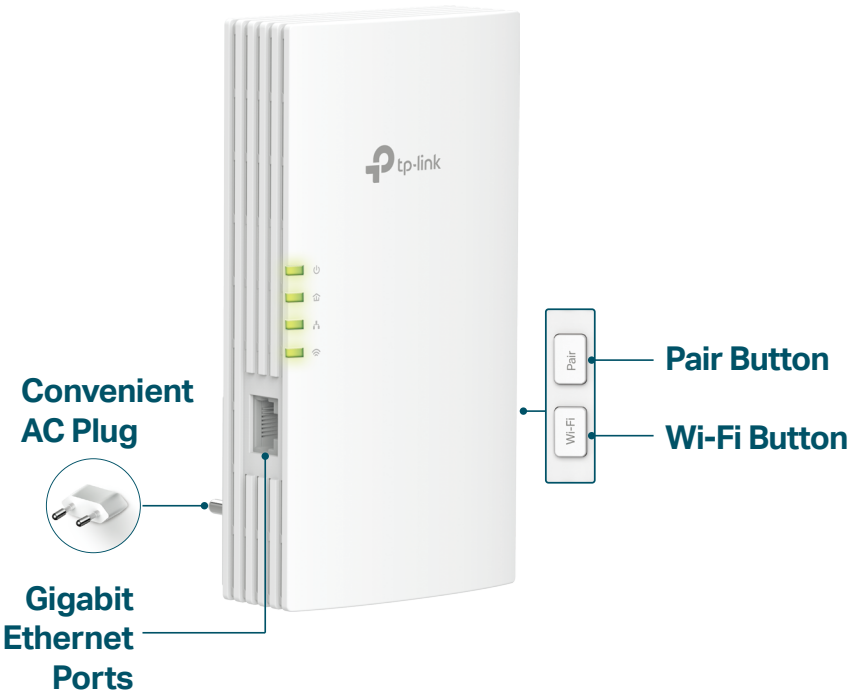
Your powerline extender may differ in appearance slightly from that depicted because of the region and product version. European version is used for demonstration in this guide.

2. 3. 1. LED Legend

LEDs indicate the powerline extender's working status. For more details, please refer to the following table.

Name	Status	Indication
Power	On/Off	The powerline extender is on or off.
	Blinking	Quickly: Pairing is in progress. Slowly: Power-saving Mode is on.*(TL-PA7017 Only)
Powerline	On	The powerline extender is connected to the powerline network and is in a suitable location.
	Off	The powerline extender is not connected to any powerline network.
Ethernet	On	At least one Ethernet port is connected to a powered-on device.
	Off	No Ethernet port is connected to a powered-on device.
Wi-Fi	On	The wireless function is enabled.
	Off	The wireless function is disabled.
	Blinking	The powerline extender is syncing wireless network settings.

2. 3. 2. Physical Interface



Ethernet Port

Connect the Ethernet ports to your wired devices, such as a computer, a router or a game console, via Ethernet cables.

Pair/Reset Button

Press and hold the button for 1 second to join a powerline network. Go to To Set Up a New Secure Wireless Network for more information.

Press and hold the Pair button for at least 6 seconds, then release the button to reset the adapter/extender to default settings.

Wi-Fi Button

Press and hold the button for 1 second to copy wireless settings from the main router to the extender. Go to Wi-Fi Clone for more information.

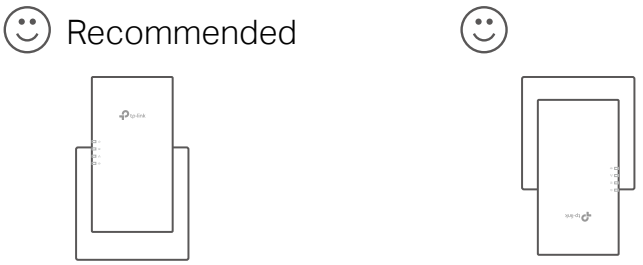
Press and hold the button for about 5 seconds to turn the wireless function on or off. The wireless function is on by default.

Plug

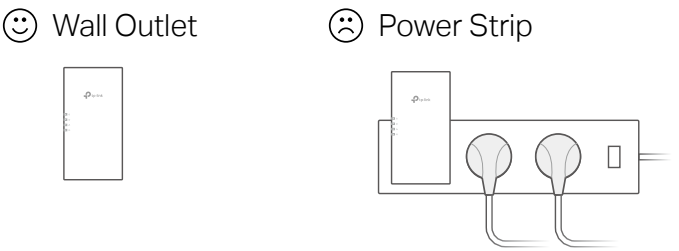
The powerline adapter has a Plug that can be connected to any standard power socket.

Note:

1. The provided plug may differ from the picture due to different regional power specifications.
2. Use the product in below directions.



3. Plug the product directly into a wall socket instead of a power strip.



Chapter 2

Initial Use

This chapter guides you on how to use the powerline extender when you first open the package.

It contains the following sections:

2. 1. To Set Up a New Secure Wireless Network

I want to:

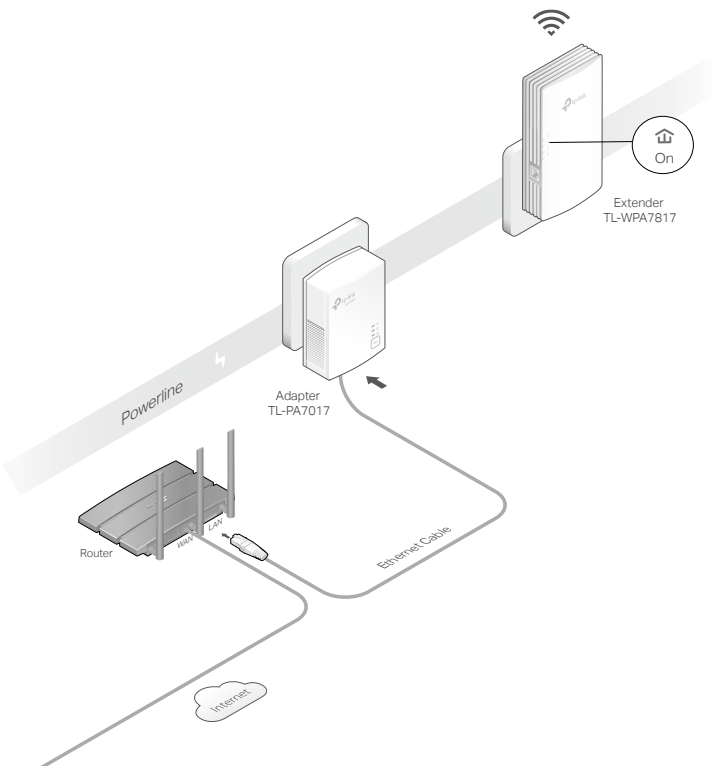
Use the Powerline Wi-Fi Kit to set up a new secure wireless network in my house.

For example, I have a wireless router in my house, but the wireless signal cannot reach every corner. So I bought a Powerline Wi-Fi Kit to extend the wireless network. The Powerline Wi-Fi Kit includes a powerline adapter and a powerline extender.

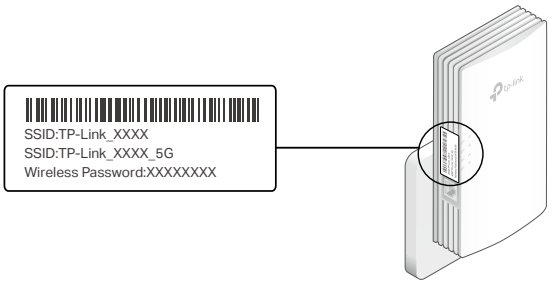
How can I do that?

Method 1: Plug and Play

1. Connect the powerline adapter to an available LAN port of the router.
2. Plug the powerline adapter into a wall socket.
3. Plug the powerline extender into a power outlet on the same service panel. Wait until the extender's Powerline LED turns on.



4. Relocate the new extender to the Wi-Fi "dead" zone. Connect your devices to the internet using the SSIDs (network name) and password printed on the label at the side of the extender.



Done!

Now enjoy the internet with the SSIDs and password printed on the label!

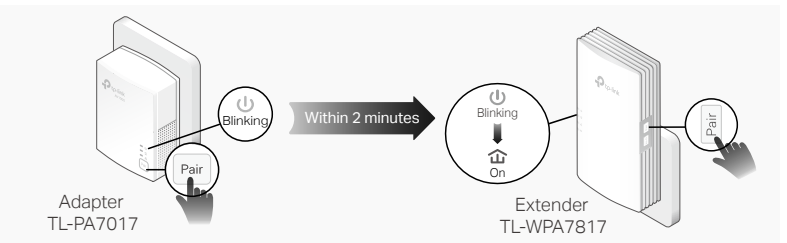
Method 2. Pairing

1. Connect the powerline adapter to an available LAN port of the router.
2. Plug the powerline adapter into a wall socket.
3. Plug the powerline extender into a wall socket near the adapter.
4. Pair the powerline devices.

a . Press the Pair button on the powerline adapter for 1 second. The Power LED starts blinking.

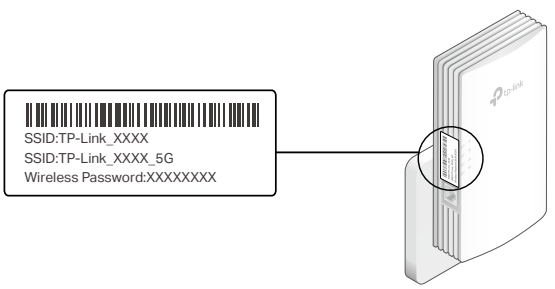
Note: If the Power LED does not blink, press the Pair button again.

b . Within two minutes, press the Pair button on the powerline extender for 1 second. The Power LED starts blinking. When the Powerline LED turns solid on, the pairing process is complete.



5. Relocate the new extender to the Wi-Fi “dead” zone. Connect your devices to the internet using the SSIDs (network name) and password printed on the label at the side of the extender.

Note: A blinking Powerline LED indicates poor signal strength. Move the extender to another location.



Done!

Now enjoy the internet with the SSIDs and password printed on the label!

2. 2. To Extend the Existing Wireless Network

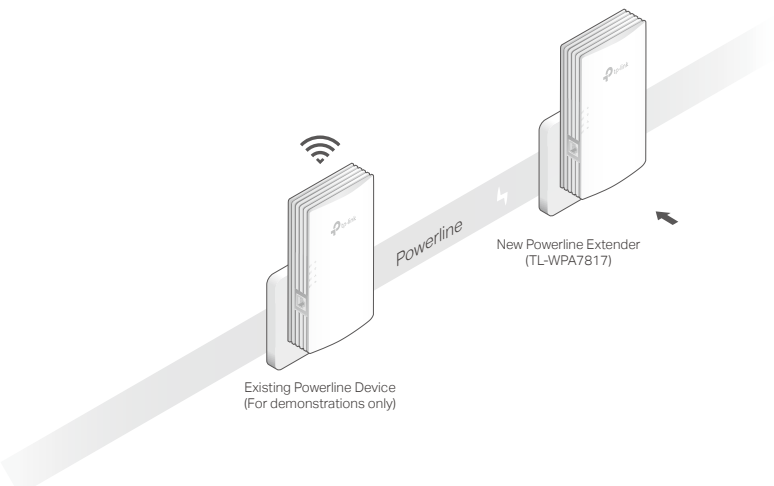
I want to:

Extend the existing wireless network by adding a new powerline extender to the existing powerline network.

For example, I already set up a wireless network using powerline devices, but the wireless network is still not big enough to reach the top floor. So I bought a new powerline extender to extend the wireless network.

How can I do that?

1. Plug the new powerline extender into a wall socket near one of the existing powerline extender.



2. Check the new extender's Powerline LED . Is it on?

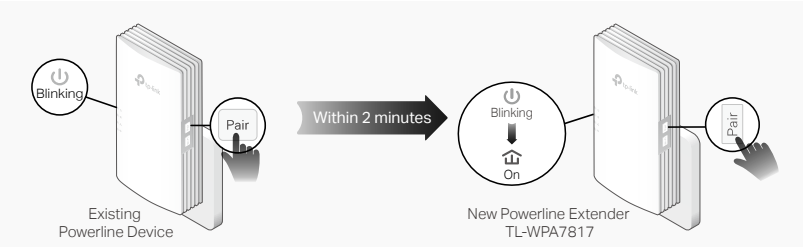
- If it is on, follow Step 4 > A.
- If it is off, follow Step 3 and Step 4 > B.

3. Join the new powerline extender into the existing powerline network by pairing two powerline devices.

   a . Press the Pair button on the existing powerline device for 1 second. The Power LED starts blinking.

   Note: If the Power LED does not blink, press the button again.

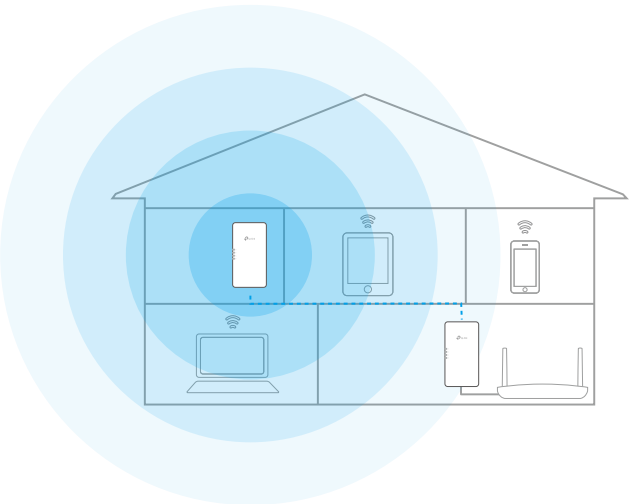
   b . Within two minutes, press the Pair button on the new powerline extender for 1 second. The Power LED starts blinking. When the Powerline LED turns solid on, the pairing process is complete.



4. Relocate the new extender to the Wi-Fi “dead” zone.

   A . Use the SSID (network name) and password on the on the label at the side of the new extender to connect to the internet.

   B . Use the SSID (network name) and password of your existing wireless network to connect.



Done!

Enjoy the internet through your extended network!

Chapter 3

Configuring via Web Management Interface

The powerline extender has a management interface to configure all settings. The management interface can be opened on any device that has a web browser, such as Internet Explorer, Chrome or Firefox. This chapter is going to give detailed information on what functions the powerline extender has and how to configure them.

It contains the following sections:

3. 1. Management Interface

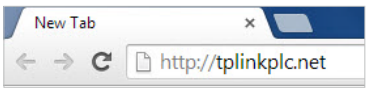
3. 1. 1. Log In

There are two methods to log in to the management interface.

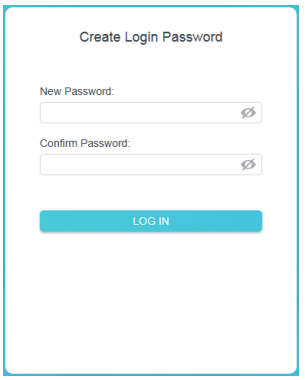
Method 1: Via web browser

Follow the steps below:

1. Connect your device to the powerline extender wirelessly.
2. Launch a web browser and type in http://tplinkplc.net to open the management interface.



3. Create a password for future login attempts.



Method 2: Via tpPLC utility

Follow the steps below:

1. Connect your computer to the powerline extender via an Ethernet cable or wirelessly.
2. Obtain and install the tpPLC Utility from the product's Support page at https://www.tp-link.com.
3. Open the utility, move your mouse over your powerline extender, and click the icon that appears beside it.
4. Create a password for future login attempts.

Method 3: Via tpPLC app

Follow the steps below:

1. Get the tpPLC app from the Apple App Store or Google Play, or simply scan the QR code.

2. Connect your device to the powerline extender wirelessly.
3. Launch the tpPLC app and find the model of your device.
4. Manage your powerline extender as needed.

3. 1. 2. Change the Login Account

Follow the steps below to change the account.

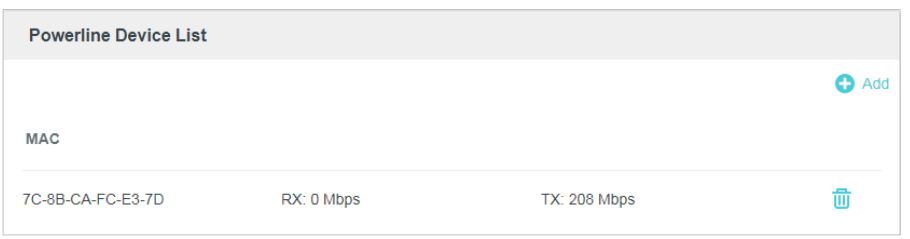
1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to System > Change Login Password.
3. Follow instructions on the page to set a new password. A strong password should be at least 8 characters in length, combining uppercase and lowercase letters, numbers and punctuations.
4. Click SAVE to make the settings effective.

3. 2. Manage Powerline Network

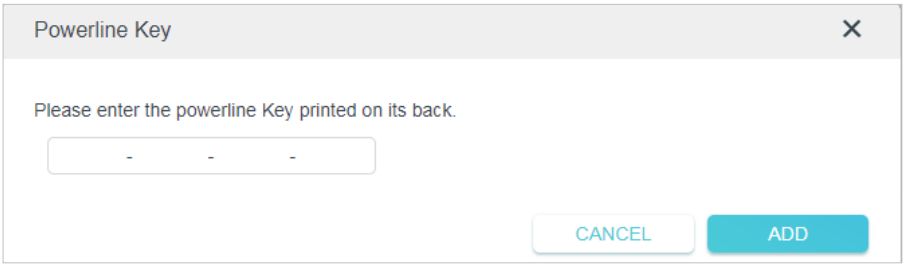
A powerline network is formed of powerline devices, including adapters and extenders. Powerline devices in the same powerline network share the same powerline network name.

3. 2. 1. Add a New Device to the Powerline Network

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to the Status page and click the Powerline Network icon to open the Powerline Device List.



3. Click the add icon and enter the Powerline Key of the device you want to add. The Powerline Key contains 16 capital letters, formed like XXXX-XXXX-XXXX-XXXX. It is printed on the back of the powerline device.



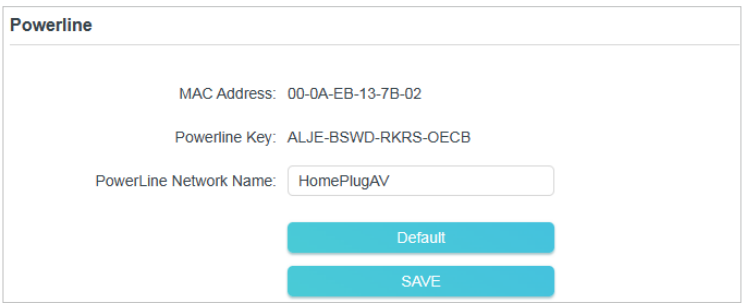
4. Click ADD to add the device.

3. 2. 2. Change Powerline Network Name

You can change the extender's powerline network name to add it to or remove it from a powerline network.

Follow the steps below to change the name.

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Powerline > Powerline Settings.



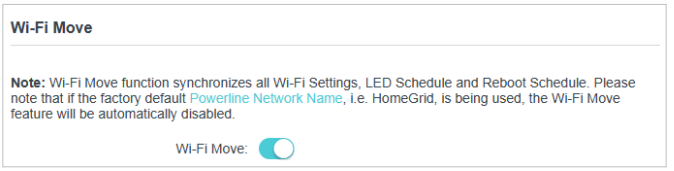
3. Change the Powerline Network Name. You can also click Default to use the default network name, e.g. HomePlugAV. However, if the default name is used, the Wi-Fi Move function will be automatically disabled.
4. Click SAVE to make the settings effective.

3. 3. Wi-Fi Move

Wi-Fi Move is enabled by default. With the feature enabled, any changes made to the Wi-Fi settings and LED schedules of one powerline extender will be automatically synchronized to other powerline extenders whose Wi-Fi Move feature is also enabled on the same powerline network .

Follow the steps below to enable the Wi-Fi Move feature:

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Wi-Fi > Wi-Fi Move.
3. Toggle on WiFi Move to enable the feature.



Note:

When Wi-Fi Move is enabled, the following features will be synced: Wireless SSID & Password, Wireless Security, Wireless Mode, Wireless Radio Status, Wi-Fi Schedules, LED Schedules, Wi-Fi Clone Settings, MAC Filter Settings, Parental Controls, and Guest Network.

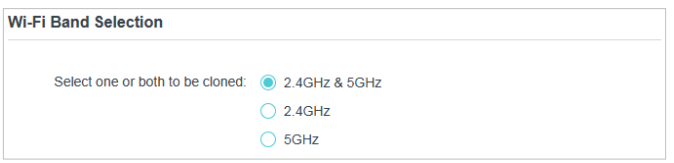
3. 4. Wi-Fi Clone

I want to:

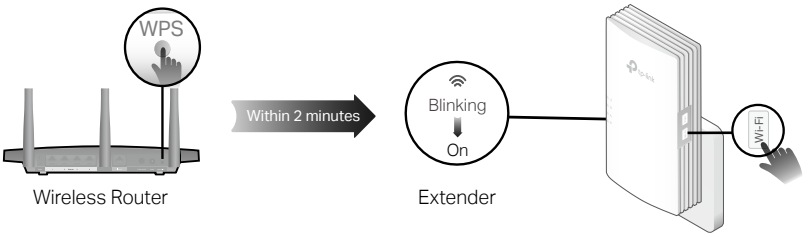
Copy wireless settings from my router to my extender, so I can use the same SSID and password to access the internet in my house.

How can I do that?

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Wi-Fi > Wi-Fi Clone.
3. Select a Wi-Fi band or both to be cloned. 2.4GHz & 5GHz is selected by default.



4. Before cloning, make sure your router supports the same band as your extender. If you do not know how to check this, go to your router's User Guide for more information.
5. Plug your extender near your router.
6. Press the WPS button on your router.
7. Within two minutes, press the Wi-Fi button on the side panel of the extender.



Done!

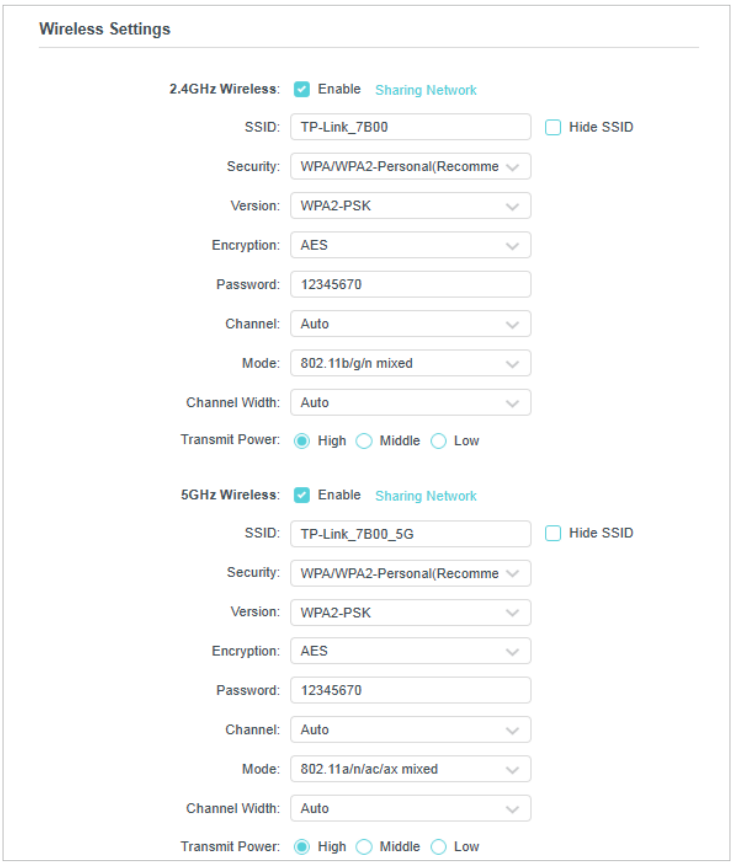
When the corresponding Wi-Fi LED blinks quickly for 3 seconds and then stays on. It's done!

3. 5. Wireless Network

3. 5. 1. Customize Wireless Settings

The powerline extender's wireless network name (SSID) and password, and security option are preset in the factory. The preset SSID and password can be found on the product label and Wi-Fi Info Card. You can customize the wireless settings according to your needs.

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Wi-Fi > Wireless Settings page.



To enable or disable the wireless function:

Select the box to enable the wireless function. Deselect the box to disable wireless function. If disabled, all wireless settings will be ineffective.

To change the wireless network name (SSID) or hide SSID :

The default SSID is TP-Link_XXXX for 2.4GHz network and TP-Link_XXXX_5G for 5GHz network, and the default password is printed on the label at the side panel of the extender. You can change the default ones by directly entering new ones in the field. SSID is up to 32 characters, and the value in both SSID and password is case-sensitive.

Note:

Remember to write down the new SSID and password, for you may be disconnected when new settings are effective.

To customize more advanced settings

Security and Version: Select an option from the Security and Version drop-down list. We recommend you don't change the default settings unless necessary. If you select No Security, no password is required.

Ecryption: You can select either Auto(Recommended), TKIP or AES.

Password: Set the password of the Wi-Fi network.

Channel: Select the channel you want to use from the drop-down list. This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.

Mode: Select the desired mode for 2.4GHz Wi-Fi and 5GHz Wi-Fi.

2.4GHz Wi-Fi:

- 802.11n only: Select only if all of your wireless clients are 802.11n devices.
- 802.11g/n mixed: Select if you are using both 802.11g and 802.11n wireless clients.
- 802.11b/g/n mixed: Select if you are using a mix of 802.11b, 11g, and 11n wireless clients.

Note: When 802.11n only mode is selected, only 802.11n wireless clients can connect to the extender. It is strongly recommended that you select 802.11b/g/n mixed, so that all of 802.11b, 802.11g, and 802.11n wireless clients can connect to the extender.

5GHz Wi-Fi:

- 802.11ac only: Select only if all of your wireless clients are 802.11ac devices.
- 802.11n/ac mixed: Select if you are using both 802.11n and 802.11ac wireless clients.
- 802.11a/n/ac mixed: Select if you are using a mix of 802.11a, 11ng, and 11ac wireless clients.
- 802.11a/n/ac/ax mixed: Select if you are using a mix of 802.11a, 11ng, 11ac , and 11ax wireless clients.

Channel Width: Select the channel width. The default setting is Auto, which can adjust the channel width for your clients automatically.

Transmit Power: Select the level of transmit power. We recommend you choose High to have the best signal strength.

3. 5. 2. Wireless Clients

Follow the steps below to view detailed information of all wireless clients connected to the extender.

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Wi-Fi > Clients page.

3. Now you can view the detailed information, including device name, MAC address, connected wireless band, and IP address.

Tips: You can also see the wireless details by clicking the wireless clients icon on the Status > Wireless Clients page.

3. 6. LED Schedules

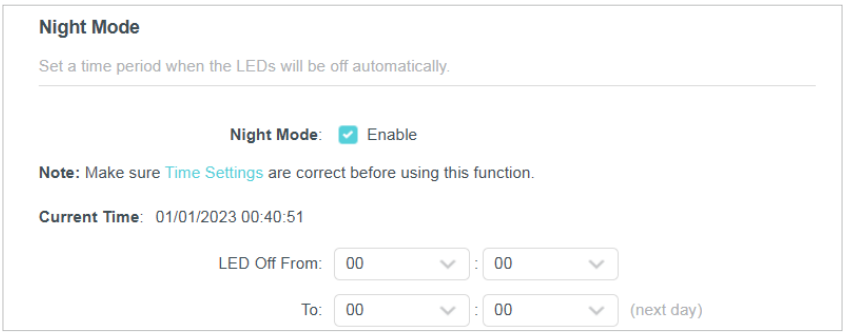
I want to:

Automatically turn off LEDs at times when I do not want light in my room.

For example, I want to turn LEDs off everyday from 00:00am to 7:00am.

How can I do that?

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net and log in with the password you set for the extender.
2. Go to System > LED Control.
3. Enable Night Mode and choose the LED off times.



4. Click SAVE.

Done!

Now your LEDs will be turned off automatically during the set time.

3. 7. Schedule Your Wireless Function

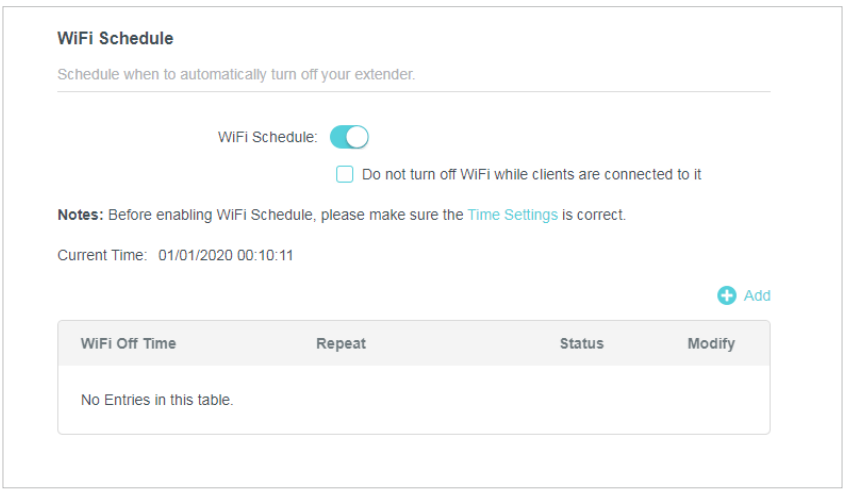
I want to:

Automatically turn off my wireless network at times when I do not need the wireless connection.

For example, I want to turn them off from 00:00am to 7:00am. Yet if I have my wireless devices connected to the extender at that time, I want the wireless on till all devices are disconnected from the internet.

How can I do that?

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net and log in with the password you set.
2. Go to WiFi > WiFi Schedule.

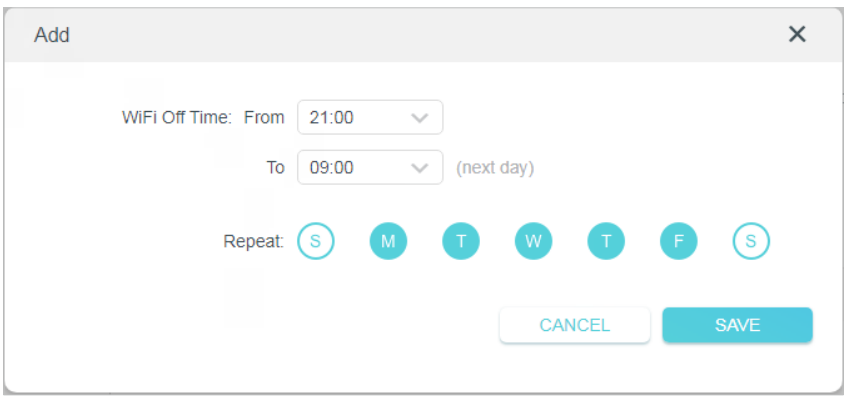


3. Toggle on the WiFi Schedule.

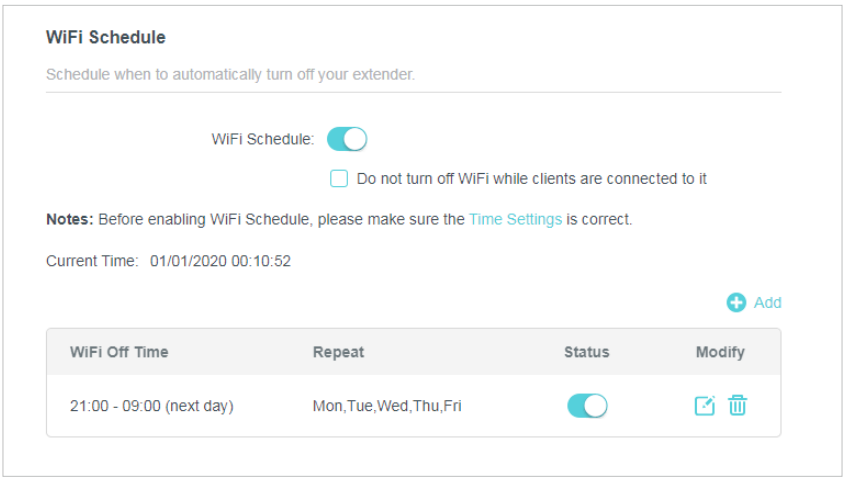
Note: If you check the box of Do not turn off Wi-Fi while clients are connected to it, the WiFI schedule are not enabled when any clients are connected to your extender.

4. Click Add to add an entry.
5. Choose WiFi Off Time from 21:00 to 09:00, and then check all boxes from Monday to Friday.

Note: Please make sure that the system time is correct before using this function.



6. Click SAVE to save the settings.



Done!

Now your Wi-Fi will be automatically turned off at 00:00 and turned on at 7:00am the next morning.

Note: The Wi-Fi LED will turn off if the wireless network is disabled.

3. 8. Parental Controls

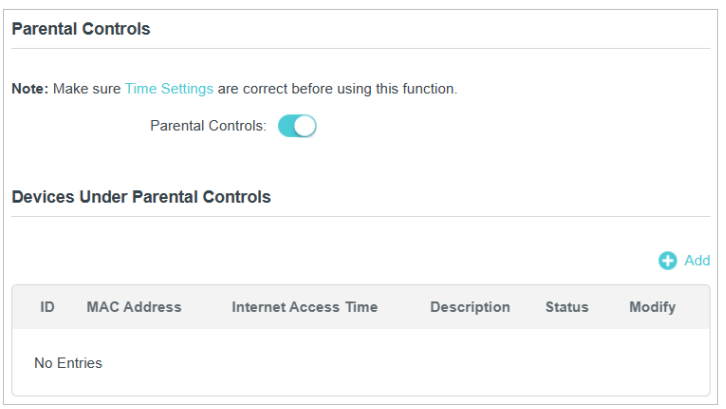
I want to:

Control when my children's wireless devices can access the internet.

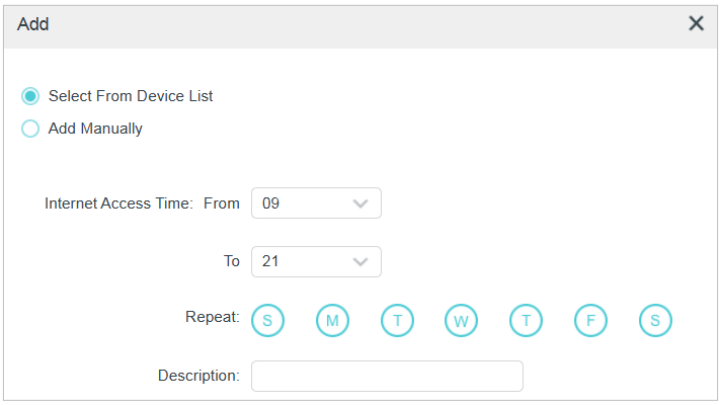
For example, I want to allow my children's wireless devices to access only from 9:00 (9AM) to 21:00 (9PM) on weekdays and not other times.

How can I do that?

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Wi-Fi > Parental Controls.



3. Toggle on Parental Controls.
4. Click Add.



5. Click Select from Device List and select the device to be controlled. Or select Add Manually and enter the MAC address manually.
6. Choose Internet Access Time from 9:00 to 21:00, and then check all boxes from Sunday to Saturday.
7. Give a Description to the device to be controlled.
8. Click SAVE to save the settings.

Note: Please make sure that the system time is correct before using this function.

Done!

Now the controlled device can access only from 9:00 (9AM) to 21:00 (9PM) on weekdays and not other times.

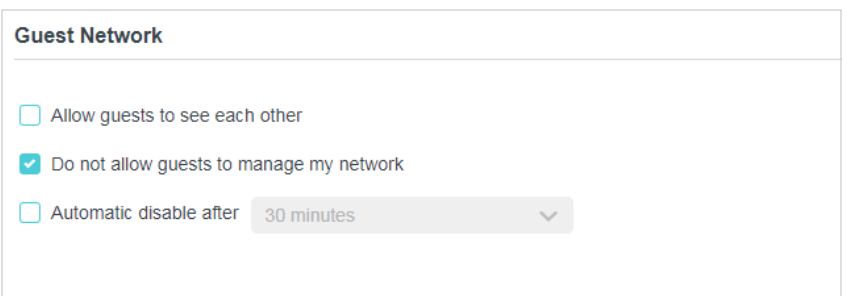
3. 9. Guest Network

I want to:

Create a network for my guests, providing internet access for them while at the same time limit the network authorities for guests to ensure network security and privacy.

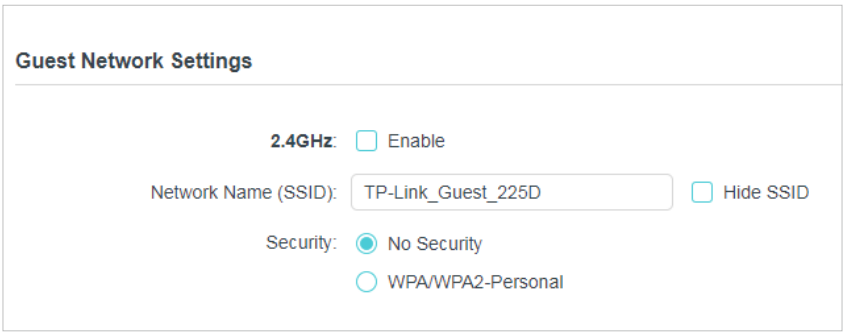
How can I do that?

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set.
2. Go to Wi-Fi > Guest Network.



3. Check the box of relative entry to limit network authorities.

4. Select 2.4GHz or 5GHz and configure the following settings.



To enable or disable the guest network function:

Select the box 2.4GHz or 5GHz to enable the guest network function. Deselect the box to disable guest network function. If disabled, all guest network settings of the corresponding band will be ineffective.

To change the guest network name (SSID) and password:

The default SSIDs are TP-Link_Guest_XXXX and TP-Link_Guest_XXXX_5G, and the default password is printed on the product label. You can change the default ones by directly entering new ones in the field. SSID is up to 32 characters, and the value in both SSID and password is case-sensitive.

Done!

Now you can tell your guests to connect to the guest network you created.

3. 10. MAC Filter

This function exploits the uniqueness of the MAC (Medium Access Control) address, a unique 12-digit hexadecimal address (for example, D8-5D-4C-B4-46-EA) of every network device, to determine if the device can or cannot access your wireless network.

I want to:

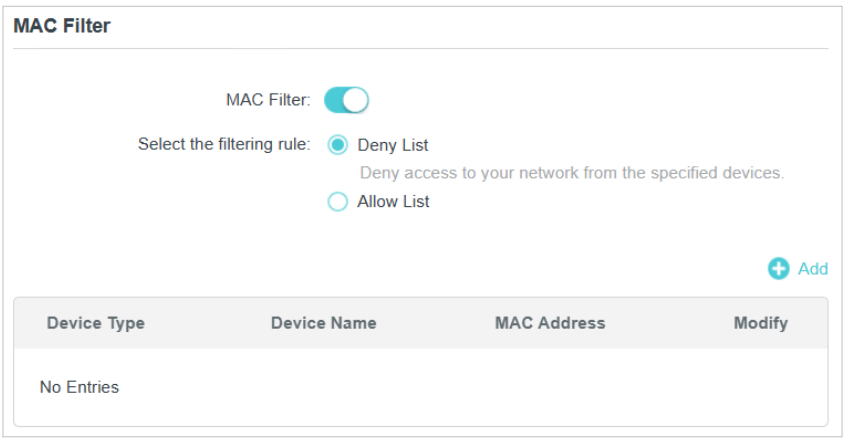
Prevent unauthorized users from accessing my wireless network by utilizing the network device's MAC address.

For example, I have a computer that is connected to my wireless network. Now, an unknown device (an intruder) is also using my wireless network, which affects my internet speed. I would like to control my wireless network with the following capabilities:

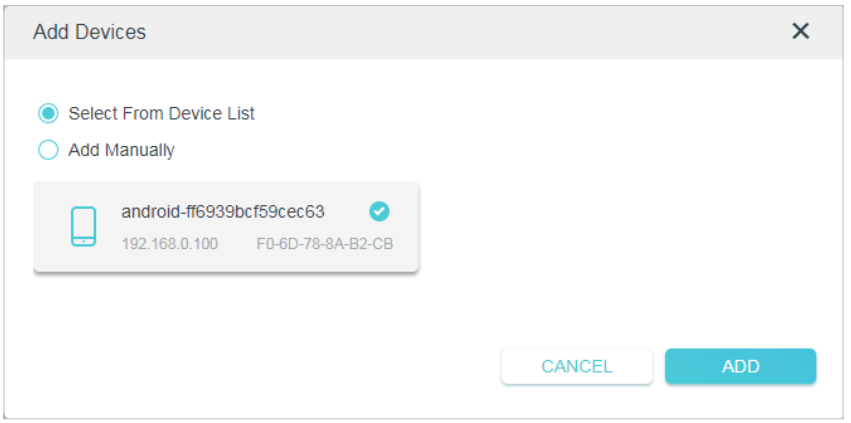
- My computer is always allowed to access the wireless network.
- The unknown device is not allowed to access the wireless network.
- I don't have to keep changing my wireless password as often.

How can I do that?

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Wi-Fi > MAC Filter.
3. Toggle on MAC Filter.
4. Select either of the filtering rules (here we select Black List).



5. Click Add to add devices to the list.



6. Select Select From Device List to see how many devices are now connected to the network. Select a device and click ADD to finish the settings.
7. You can also add devices manually. Select Add Manually, enter device name and the MAC address and click ADD to finish the settings.

Done!

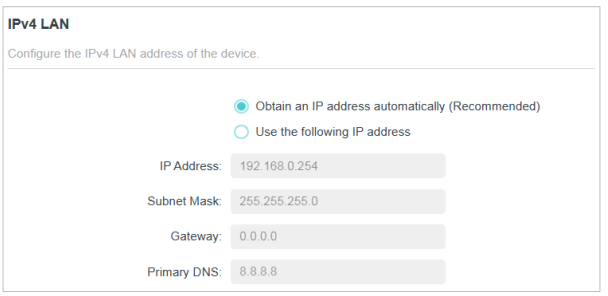
Now MAC Filter is implemented to protect your wireless network.

3. 11. Administration

3. 11. 1. LAN IP Address

Follow the steps below to configure LAN settings of the extender.

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Network > LAN Settings.



LAN Type: Select Obtain an IP address automatically to have your extender automatically obtain IP Address from the main router. Select Use the following IP address to manually configure the LAN parameters.

IP Address: The IP address of the powerline extender.

Subnet Mask: The subnet mask associated with IP address.

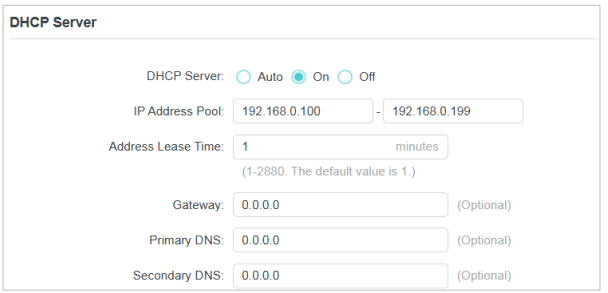
Gateway: The IP address of the gateway device.

Primary DNS: Input the DNS IP address provided by your ISP.

3. 11. 2. DHCP Server

When DHCP (Dynamic Host Configuration Protocol) Server is enabled, 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, and you can reserve LAN IP addresses for specified client devices.

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Network > DHCP Server.

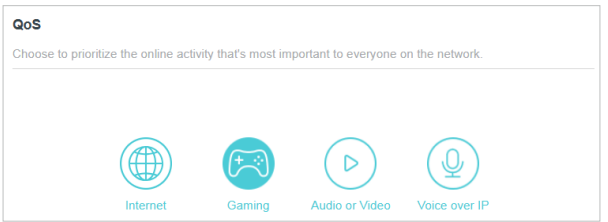


3. Choose On and fill in the parameters.
4. Enter the starting and ending IP addresses in the IP Address Pool.
5. Enter other parameters if the ISP offers. The Default Gateway is automatically filled in and is the same as the LAN IP address of the extender.
6. Click SAVE.

3. 11. 3. QoS

QoS (Quality of Service) allows you to prioritize connection of specific devices for a set duration. Devices set as high priority will be allocated more bandwidth and so continue to run smoothly even when there is heavy traffic on the network.

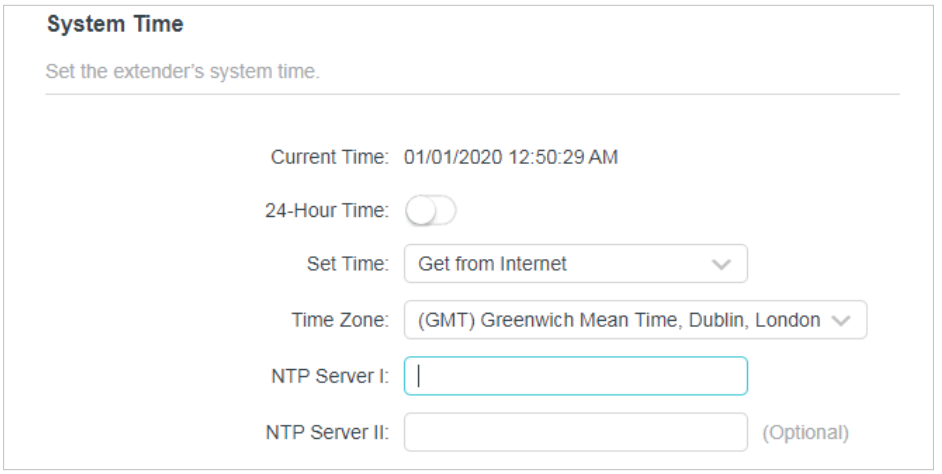
1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Network > QoS.
3. Choose the activity you want to prioritize.



3. 11. 4. Set Up System Time

System time is the time displayed while the extender is running. The system time you configure here will be used for other time-based functions like Parental Controls and Wi-Fi Schedules. You can manually set how to get the system time.

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to System > Time Settings.



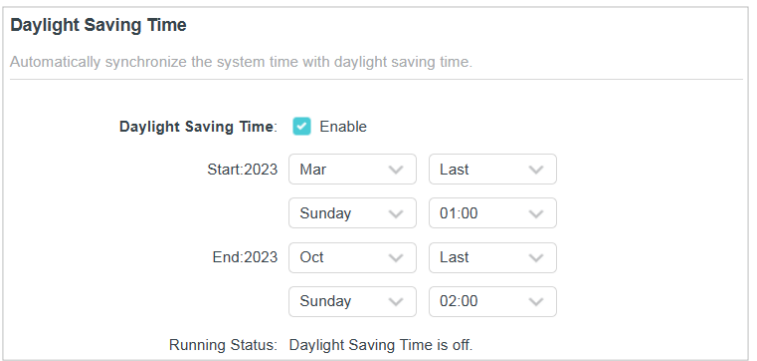
To automatically synchronize the time:

1. Select your local Time Zone from the drop-down menu.
2. In the NTP Server I field, enter the IP address or domain name of your desired NTP Server. (Optional)
3. In the NTP Server II field, enter the IP address or domain name of the second NTP Server. (Optional)
4. Click SAVE.

To manually set the date and time:

1. Select Manually.
2. Enter the current Date.
3. Set the current Time (In 24-hour clock format, e.g. 16:00:00 is 04:00PM).
4. Click SAVE.

To set up Daylight Saving time:



1. Check the box of Daylight Saving Time.
2. Select the correct Start date and time when daylight saving time starts at your local time zone.

3. Select the correct End date and time when daylight saving time ends at your local time zone.
4. Click SAVE.

3. 11. 5. Upgrade the Firmware

TP-Link is dedicated to improving and richening the product features, giving you a better network experience. We will release the latest firmware at our official website, you can download the latest firmware file from our website: www.tp-link.com and upgrade the firmware to the latest version.

Auto Update

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to System > Firmware Upgrade.
3. Focus on the Online Update section. Click CHECK FOR UPDATES to see whether the latest firmware is released.

4. Click UPDATE if there is new firmware.
5. Wait a few minutes for the upgrading and rebooting.

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

Local Update

1. Download the latest firmware file for the router from www.tp-link.com.

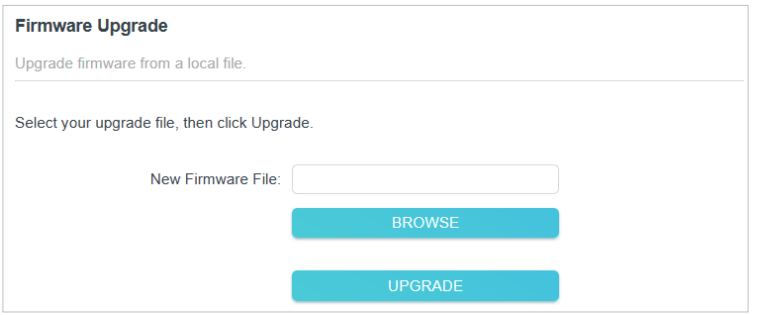
Note: The upgraded firmware version must correspond to the hardware.

2. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
3. Go to System > Firmware Upgrade.
4. Focus on the Firmware Upgrade section. Click BROWSE to locate the downloaded new firmware file, and click UPGRADE.
5. Wait a few minutes for the upgrading and rebooting.

Note:

1. Before upgrading the firmware, it's better to back up your current settings.
2. During the upgrading process, do not turn off or reset the extender.

3. If the upgrade is interrupted, it's possible your extender may stop working and its LEDs blink once a second. In this case, please connect your computer to the extender via an Ethernet cable, and set your computer to static IP 192.168.0.X and subnet mask 255.255.255.0. Then visit http://192.168.0.254 to complete the upgrade.



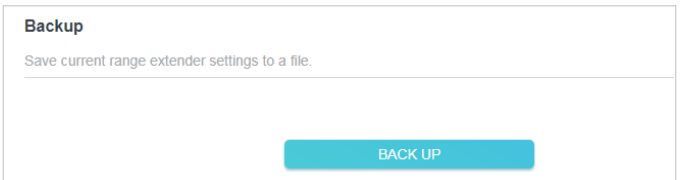
3. 11. 6. Back Up and Restore Configuration Settings

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

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to System > Backup & Restore.

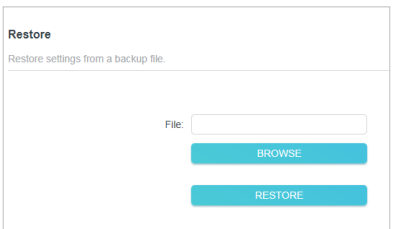
To backup configuration settings:

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



To restore configuration settings:

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

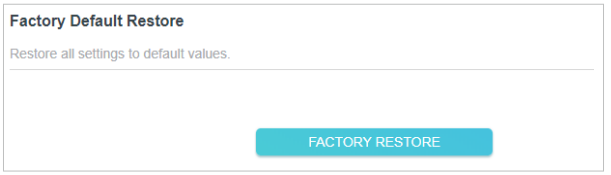


2. Wait a few minutes for the restoring and rebooting.

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

To reset the extender to factory default settings:

1. In the Factory Default Restore section, click FACTORY RESTORE.



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

Note:

1. During the resetting process, do not turn off the extender.
2. We strongly recommend you back up the current configuration settings before resetting the extender.

3. 11. 7. Change Login Password

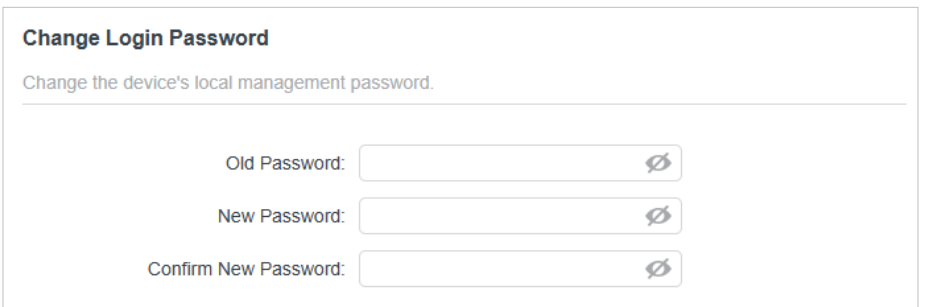
The account management feature allows you to change your login password of the web management page.

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to System > Change Login Password.
3. Enter the old password, then a new password twice (both case-sensitive). Click SAVE.

Note:

1. The new password must be 6-32 characters long and not include any spacing.

4. Use the new password for future logins.

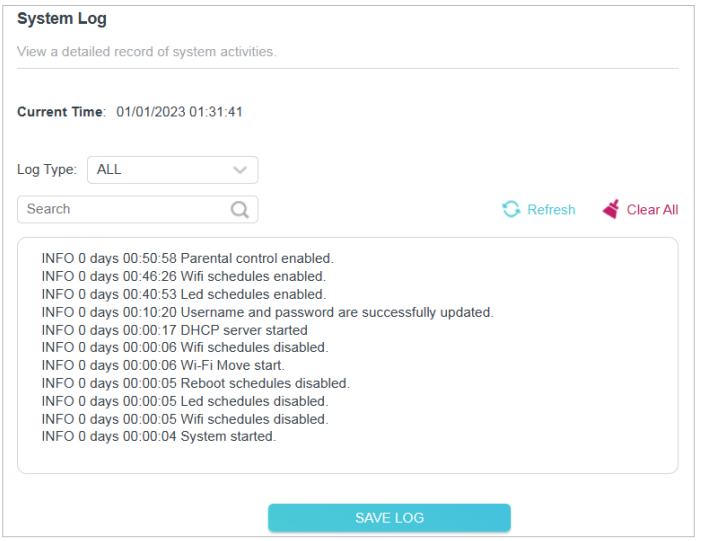


3. 11. 8. System Log

When the extender does not work properly, you can save the system log and send it to the technical support for troubleshooting.

Follow the steps below to save the system log:

1. Connect to the powerline extender wirelessly. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to System > System Log.
3. Choose the type of the system log according to your need.



4. Click SAVE LOG to save the system log to local.

Chapter 4

EasyMesh with Seamless Roaming

This chapter introduces the EasyMesh feature.

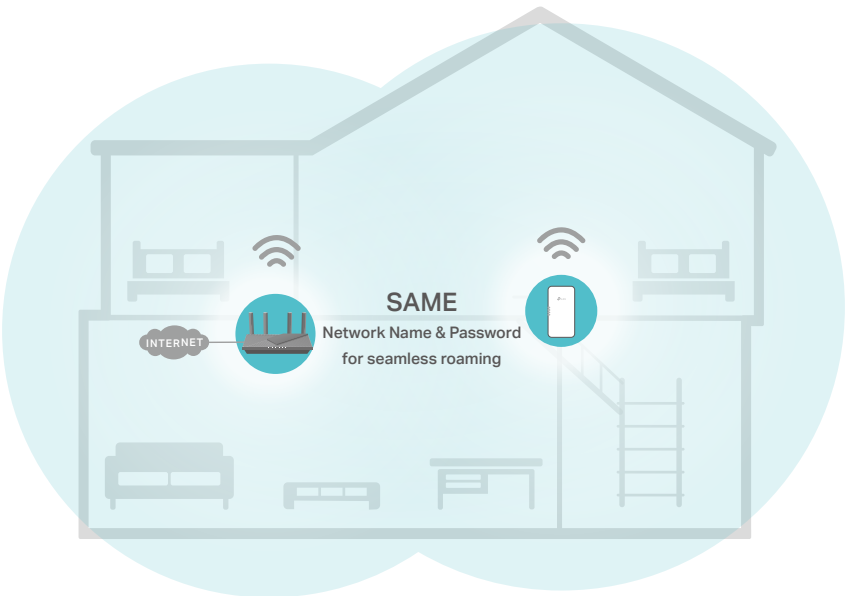
It contains the following sections:

4. 1. What's an EasyMesh Network

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

Note:

- Routers and range extenders must be compatible with EasyMesh or OneMesh™. Firmware upgrades may be required.
- TP-Link EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors.
- The EasyMesh-Compatible function is still being developed on some models and will be supported in subsequent software updates.



Flexible Scalability

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

Seamless Roaming

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

Easy Setup and Management

Easily set up and manage a unified Mesh network.

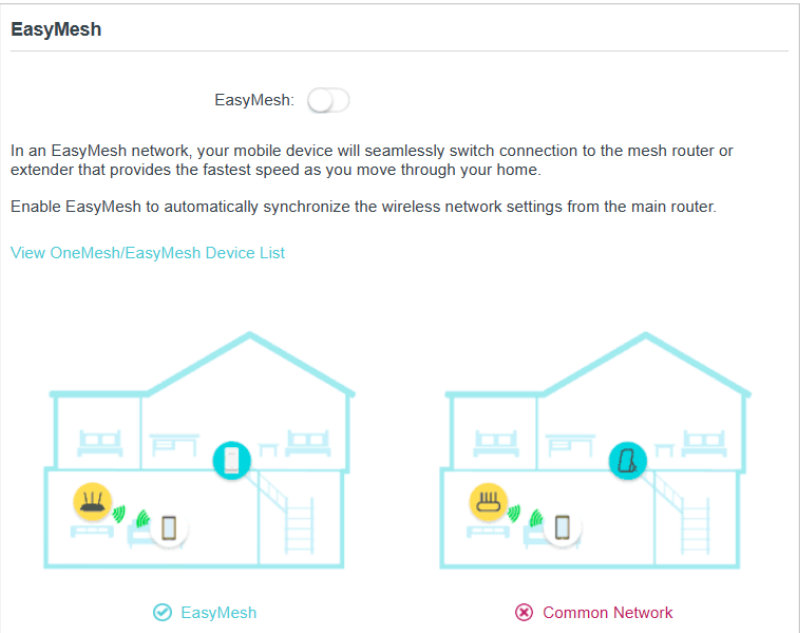
For more information, visit https://www.tp-link.com/easymesh/.

4. 2. How to Set Up an EasyMesh Network

1. Make sure your router is compatiable with EasyMesh or OneMesh™. Firmware updates may be required. For TP-Link EasyMesh-compatible products, visit https://www.tp-link.com/en/easymesh/product-list/.
2. Make sure your router is accessing the internet normally.
3. Follow To Set Up a New Secure Wireless Network to connect your computer to the extender wirelessly.
4. Choose any of the following methods to set up one unified EasyMesh network throughout your home.

Method 1: Via the Web Interface

1. Connect your device to the powerline extender wirelessly.
2. Visit http://tplinkplc.net, and log in with the password you set for the extender.
3. Go to Wi-Fi > EasyMesh.
4. Enable EasyMesh. The your powerline extender will automatically join an EasyMesh network and copy the wireless settings from the main router.



Method 2. Via the tpPLC app

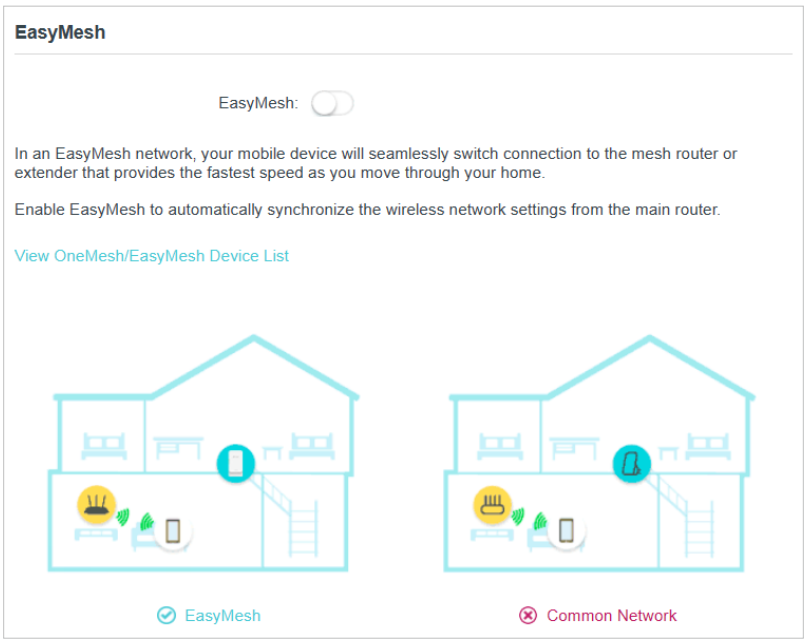
1. Connect your device to the powerline extender wirelessly.
2. Launch the tpPLC app, select your powerline extender and log in with a password.
3. Go to EasyMesh and enable it. Then your powerline extender will automatically join an EasyMesh network and copy the wireless settings from the main router.

4. 3. How to Manage an EasyMesh Network

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

1. Visit http://tplinkplc.net, and log in with the password you set for the extender.
2. Go to Wi-Fi > EasyMesh.
3. Toggle off or on EasyMesh according to your needs.

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



- **To change wireless settings:**

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

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

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

FCC STATEMENT

Product Name: **AV1000 Powerline AX1500 Wi-Fi 6 Extender**

Model Number: **TL-WPA7817**

Responsible party:

TP-Link USA Corporation

Address: 10 Mauchly, Irvine, CA 92618

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

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.

2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

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

Issue Date: 2024-02-08

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)

EU declaration of conformity

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

The original EU declaration of conformity may be found at

https://www.tp-link.com/en/ce

RF Exposure Information

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

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

National restrictions

Frequency band: 5150 - 5250 MHz:

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

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

UKCA Mark

UK
CA

UK Declaration of Conformity

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

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

National Restrictions

Attention: This device may only be used indoors in Great Britain.

Canadian Compliance Statement

1. 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.
2. 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;

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;

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)

CAN ICES-6/NMB-6

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice

NCC Notice

注意!

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

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

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

BSMI Notice

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。

設備名稱：AV1000 Powerline AX1500 Wi-Fi 6 Extender Equipment name						型號（型式）：TL-WPA7817 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	—	○	○	○	○	○
其他及其配件	—	○	○	○	○	○

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

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

備考2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

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

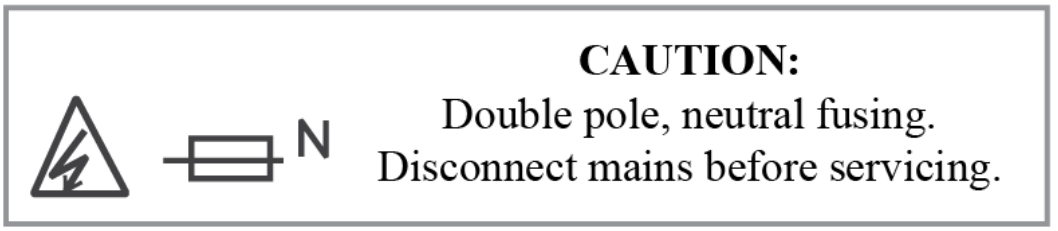
備考3.〝—〞係指該項限用物質為排除項目。

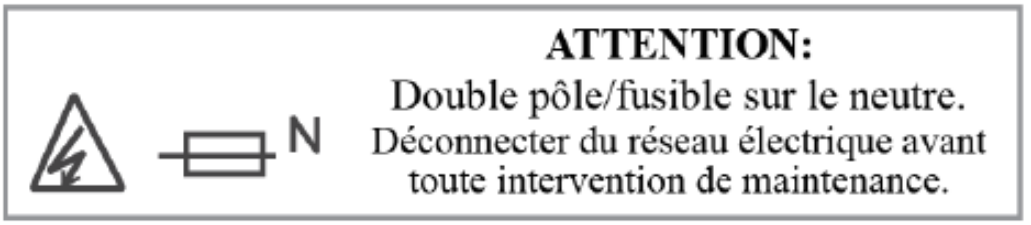
Note 3：The “—” indicates that the restricted substance corresponds to the exemption.

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

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use the device where wireless devices are not allowed.
- Plug the powerline devices directly into the wall outlets but not the power strips.
- Make sure the power socket has a good contact with the ground.



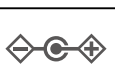


- Operating Temperature: 0°C ~ 40°C (32°F ~104°F)
- This product uses radios and other components that emit electromagnetic fields. Electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter more than 15 cm (6 inches) away from any pacemakers or other implanted medical devices. If you suspect your product is interfering with your pacemaker or any other implanted medical device, turn off your product and consult your physician for information specific to your medical device.

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

Explanations of the symbols on the product label

Note: The product label can be found at the back of the product. Symbols may vary from products.

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of d.c. power connector
	For indoor use only
	Dangerous voltage

Symbol	Explanation
	Caution, risk of electric shock
	Energy efficiency Marking
	Protective earth
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON"/"OFF" (push-push)
	Fuse
	Fuse is used in neutral N
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction

Symbol	Explanation
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)