

**TP-LINK®**

# **RE590T** **User Guide**

AC1900 Touch Screen Wi-Fi Range Extender

# Contents

<b>Chapter 1. About This Guide</b> .....	<b>1</b>
<b>Chapter 2. Get to Know About Your Extender</b> .....	<b>2</b>
1. 1. Product Overview .....	3
1. 2. Main Features .....	4
1. 3. Panel Layout .....	4
<b>Chapter 3. Quick Setup for Internet Connection</b> .....	<b>7</b>
2. 1. Connect the Hardware .....	8
2. 2. Configure the Extender .....	8
2. 3. Relocate the extender .....	13
2. 4. Enjoy the Internet .....	14
2. 5. Entertainment Adapter .....	14
<b>Chapter 4. Further Configuration</b> .....	<b>15</b>
3. 1. Quick Setup .....	16
3. 2. Wireless Settings .....	16
3. 3. Devices Control .....	17
3. 4. WPS .....	19
3. 5. LAN .....	19
3. 6. DHCP Server .....	20
3. 7. Clock .....	22
3. 8. Screen Settings .....	23
3. 9. Reboot & Reset .....	23
3. 10. Administrator Password .....	23
3. 11. About .....	24
3. 12. Firmware Upgrade .....	24
3. 13. Backup & Restore .....	25
3. 14. System Log .....	26
<b>Chapter 5. Appendix A: Troubleshooting</b> .....	<b>27</b>
<b>Chapter 6. Appendix B: Specifications</b> .....	<b>30</b>

# About This Guide

This guide provides details of each function and shows how to configure the extender appropriate to your needs. In addition to this guide, a Quick Installation Guide is also released with each TP-LINK extender. You are suggested to configure your extender for quick Internet setup following the published Quick Installation Guide before you get started with a further configuration.

## Conventions

In this guide the following conventions are used:

Convention	Description
range extender/ extender	Stands for AC1900 Touch Screen Wi-Fi Range Extender without any explanation.
parameters	Parameters provided in the screenshots are just references for setting up the device, which may differ from the actual situation. You can set the parameters according to your demand.
screenshots	The demonstrated screenshots may look a little different from the actual screen display or web page of your device due to the various firmware versions. Please just configure your product based on the actual screen display or web page.
<i>Blue Italic</i>	Hyperlinks are in blue italic. You can click to redirect to a website or a specific section.
Blue	Contents to be emphasized and texts on the screen and web page are in blue, including the menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, <a href="#">Advanced</a> > <a href="#">Wireless</a> > <a href="#">MAC Filtering</a> 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.

## Chapter 1

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# Get to Know About Your Extender

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

This chapter contains the following sections:

- *Product Overview*
- *Main Features*
- *Panel Layout*

## 1.1. Product Overview

### What This Product Does

The RE590T AC1900 Touch Screen Wi-Fi Range Extender is dedicated to Small Office/Home Office (SOHO) wireless network solutions. It can enlarge your existing wireless network and mobility while it also allows you to connect a wired device to a wireless environment. Increased mobility and the absence of cabling are beneficial for your network.

### Expanded coverage by up to 10,000 sq. ft.

Three external antennas help to extend wireless coverage by up to 10,000 sq.ft. and eliminate Wi-Fi dead zones. The dual core processor ensures excellent performance for your Wi-Fi range extender.

### Beam-forming Technology

Beam-forming technology allows the range extender to locate wireless devices and concentrate its wireless signal strength towards them to form stronger, more reliable connections.

### Effortless Touch Experience

With just a few taps on the 4.3 inch capacitive touchscreen, the intuitive menu allows you to set up your range extender and manage your network in a matter of seconds.

### Lag-free Online Gaming and 4K Streaming

Wireless 802.11ac technology provides combined speeds of up to 1900Mbps on the simultaneous 2.4GHz (600Mbps) and 5GHz (1300Mbps) bands. With speeds like that, you can enjoy lag-free online gaming and stream Ultra-HD video at the same time, on multiple devices, and still have plenty of network capacity left over.

### Gigabit-Class Wired Performance

Four Gigabit Ethernet ports support blazing-fast wired connections that reach speeds 10x greater than Fast Ethernet. This allows the RE590T to provide optimal performance for connected game consoles, PCs, smart TVs, etc.

### Technology Made Beautiful

The elegantly designed body exudes a natural aura of continuity in any environment. With the RE590T, you can proudly integrate a gracefully designed range extender into your personal decor.

## 1.2. Main Features

- Extend the Range of Any Wi-Fi Network and manage the extended network using the 4.3 inch capacity touchscreen.
- Three external antennas utilize Beam-forming technology to provide reliable connections and extended coverage by up to 10,000 sq ft.
- Wireless 802.11 ac technology provides up to 1900Mbps expanded dual band wireless speeds, ideal for lag-free online gaming and 4K video streaming.
- Gigabit Ethernet ports act as a wireless adapter to connect a wired device to your network at gigabit speeds.
- Dual core 1GHz processor ensures no interruption when simultaneously processing multiple wireless or wired tasks.
- TP-LINK Tether App allows easy access and management using any mobile device.
- Works with any Wi-Fi router or wireless access point.

## 1.3. Panel Layout

### 1.3.1. Top View



The extender features a 4.3 inch colorful touchscreen display, and you can configure and manage your extender with just a few taps.

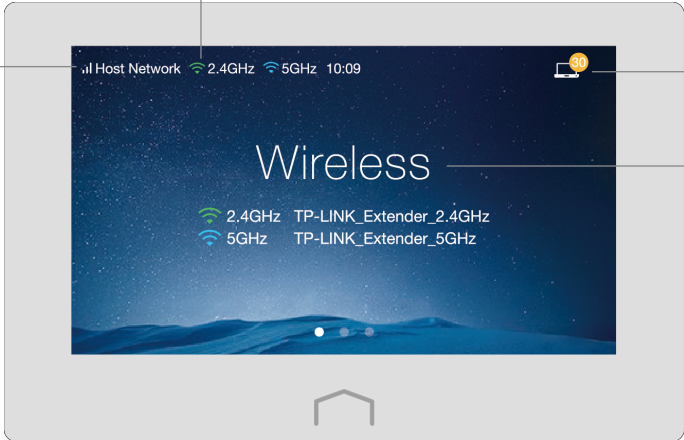
### Home Screen

**Signal Strength**  
Indicates the Wi-Fi signal strength between the extender and the router.

**Wireless Status**  
2.4GHz / 5GHz On:  
The extender is connected to the router's 2.4GHz / 5GHz wireless network.  
2.4GHz / 5GHz Off: No connection.

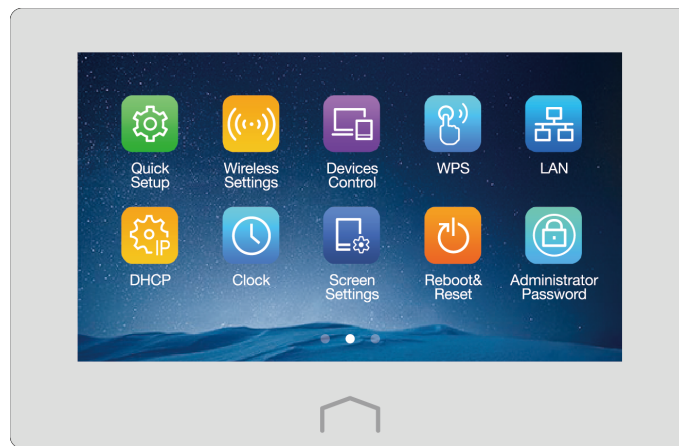
**Total Clients**  
Tap here to view the client information and to block specific clients from accessing the Internet.

**Wireless Settings**  
Tap here to change the host network and extended network settings.

The screenshot shows a tablet displaying the 'Wireless' home screen. At the top, it shows 'Host Network', signal strength bars, '2.4GHz', '5GHz', and the time '10:09'. The main title is 'Wireless'. Below it, there are two rows of wireless network information: '2.4GHz TP-LINK\_Extender\_2.4GHz' and '5GHz TP-LINK\_Extender\_5GHz'. At the bottom, there are three dots indicating the current page is the first of three.

### Menu Screen

Tap the icons on the menu screen to perform various function, such as Wireless Settings, WPS, Devices Control, ect



### 1.3.2. The Back Panel



The extender's back panel shows the connection ports, buttons and antennas. Refer to the following table for detailed instructions.

Item	Description
Power	For connecting the extender to a power socket via the provided power adapter.
Power On/Off	The switch for the power. Press it to power on or off your extender.
Ethernet (1, 2, 3, 4)	Used for connecting to Ethernet-enabled devices, such as smart TV, game console, desktop, DVR, etc.
Reset	With the extender powered on, use a pin to press and hold the Reset button until the RE590T logo displays.
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.



## Chapter 2

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# Quick Setup for Internet Connection

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This chapter introduces how to connect and configure your extender to extend the existing wireless coverage by repeating the wireless signal. Furthermore, the extender can also be used as a wireless adapter that connects Ethernet-only devices to your Wi-Fi network.

This chapter contains the following sections:

- *Connect the Hardware*
- *Configure the Extender*
- *Relocate the Extender*
- *Enjoy the Internet*
- *Entertainment Adapter*

## 2.1. Connect the Hardware

1. Install the antennas and position them vertically.
2. Plug the extender's adapter into an electrical outlet near your router. Then turn on the extender and wait until the system boot on the screen completes.

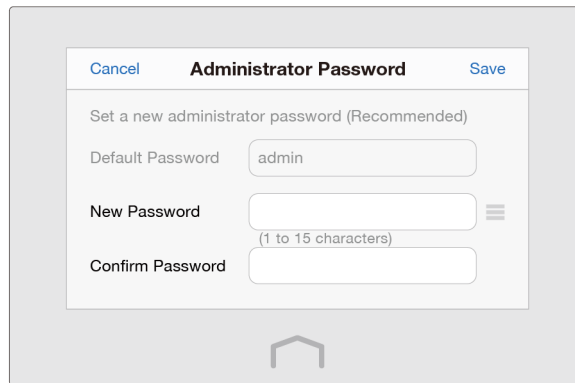
## 2.2. Configure the Extender

Here we will introduce three methods to configure the extender. Method ONE is recommended.

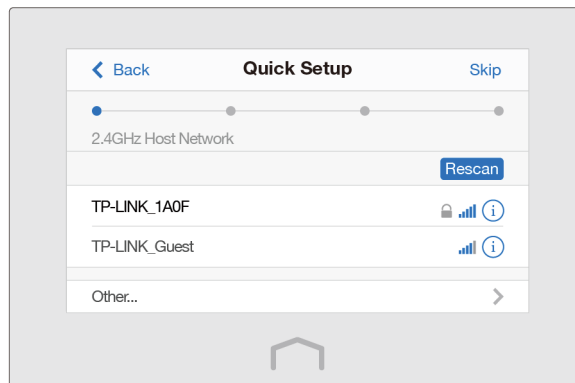
### 2.2.1. Method ONE: Using Touchscreen App

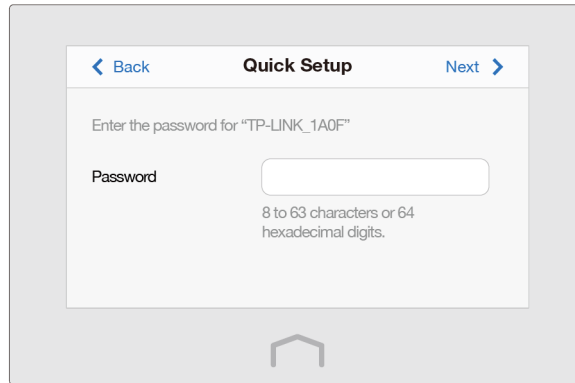
The touchscreen quick setup makes configuring the extender a breeze.

1. At first login, create a new administrator password (recommended) and tap [Save](#).



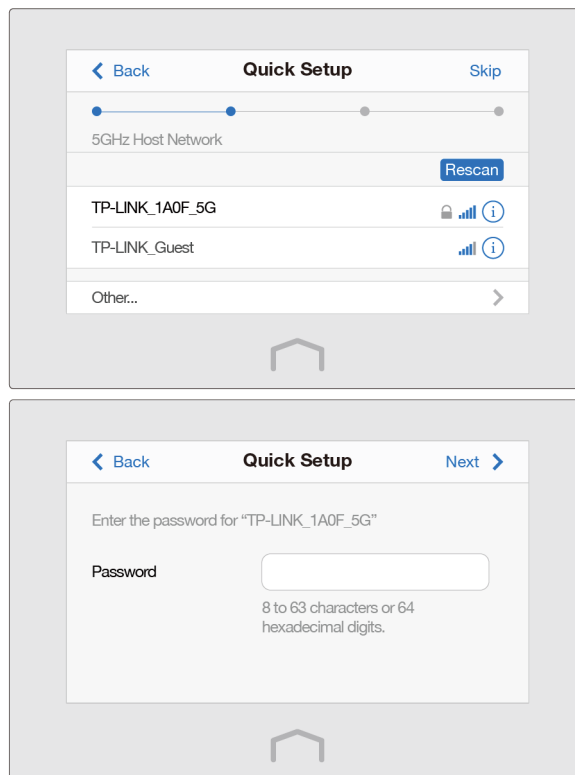
2. Select your host router's 2.4GHz wireless network and enter its password, then tap [Next](#).





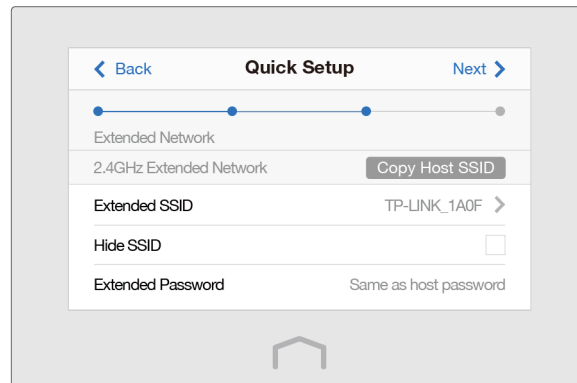
3. Select your host router's 5GHz wireless network and enter its password, then tap **Next**.

■ Note: If your host router does not support the 5GHz band, tap **Skip**.

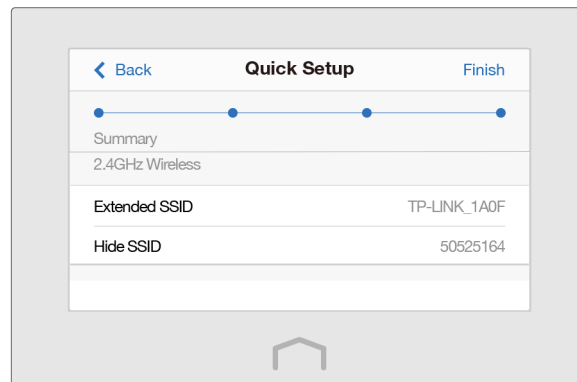


4. Either keep the default SSIDs or customize them for the 2.4GHz and 5GHz extended networks, then tap **Next**.

■ Note: Please swipe up for the 5GHz settings.



5. Verify your wireless settings and tap Finish. Corresponding Wi-Fi signal icon(s) (2.4GHz / 5GHz) at the top left of the touchscreen should be lit.



### 2. 2. 2. Method TWO: Using WPS (Wi-Fi Protected Setup)

1. Press the **WPS** button on your host router.
2. Tap **WPS** on the menu screen of the extender, and tap **Start WPS**. Once the WPS connection is successful, a success message will display.

### 2. 2. 3. Method THREE: Using Web-based Utility

The web-based utility can be used on any Windows, Macintosh or UNIX OS with a web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

1. Connect your computer to your extender wirelessly or via an Ethernet cable. The default SSID (Wireless Network Name) and Wireless Password are printed on the label at the bottom of your extender.
2. Launch a web-browser on your computer, type <http://tplinkrepeater.net> in the address bar, and use **admin** (all lowercase) for both username and password to log in.

A login form with a green border. It contains a username field with the text 'admin', a password field with six dots, and a green 'Login' button.

The first time you log in, created a new username and password, and click [Confirm](#).

A form titled 'Create a new username and password.' It has a close button in the top right. The form includes:
 

- 'New Username:' with a text input field containing 'Username'.
- 'New Password:' with a password input field showing six dots. Below it are three tabs: 'Low' (grey), 'Middle' (orange), and 'High' (grey).
- 'Confirm Password:' with a password input field showing six dots and a green checkmark icon to its right.
- A green 'Confirm' button at the bottom right.

3. Select your host router's 2.4GHz network and enter the password, then click [Next](#).

A network selection screen with a progress bar at the top showing four steps: '2.4GHz Host Network' (selected), '5GHz Host Network', 'Wireless Settings', and 'Summary'. Below the progress bar, it says 'Please select 2.4GHz host network or skip this network.' There is a table of available networks:

ID	SSID	Signal	MAC Address	Security
1	TP-LINK_1A0F		00-0A-EB-84-1A-0F	
2	CMCC-FREE		80-F6-2E-00-F6-22	

Below the table, there is a 'Host 2.4GHz Password:' field with the text '50525164' and a green 'Next' button. At the bottom, there are four buttons: 'Exit', 'Other...', 'Rescan', and 'Skip'.

4. Select your host router's 5GHz network and enter the password, then click [Next](#).

■ Note: If your router does not support the 5GHz band, click [Skip](#).

5GHz Host Network

2.4GHz Host Network

Wireless Settings

Summary

Please select 5GHz host network or skip this network.

ID	SSID	Signal	MAC Address	Security
<input checked="" type="radio"/> 1	TP-LINK_1A0F_5G		40-16-9F-00-11-24	
<input type="radio"/> 2	CMCC-FREE		80-F6-2E-00-F6-22	

Host 5GHz Password:

Next

Back Other... Rescan Skip

5. Either copy the host's SSIDs or customize them for the 2.4GHz and 5GHz extended networks, then click [Next](#).

5GHz Host Network

2.4GHz Host Network

Wireless Settings

Summary

Extended 2.4GHz SSID:

Hide SSID broadcast

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

Extended 5GHz SSID:

Hide SSID broadcast

**Note:** The extended 5GHz password is the same as your Host password.

Back Next



6. Verify your wireless settings and click [Finish](#).

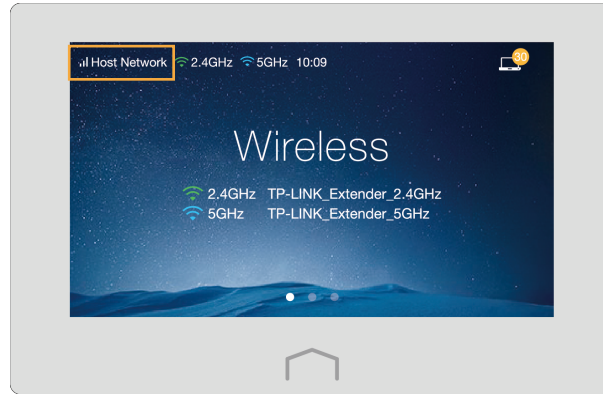


## 2.3. Relocate the extender

1. Place the extender halfway between your host router (Host Network) and the Wi-Fi dead zone.



2. Make sure the extender receives a strong signal (recommended signal strength  or ) from your host router. If not, relocate it closer to your router.



■ Note: Make sure to place the extender away from all Blue tooth devices and other household electronics.

## 2.4. Enjoy the Internet

Now, connect your devices to the extender wirelessly or via an Ethernet cable to enjoy the Internet.

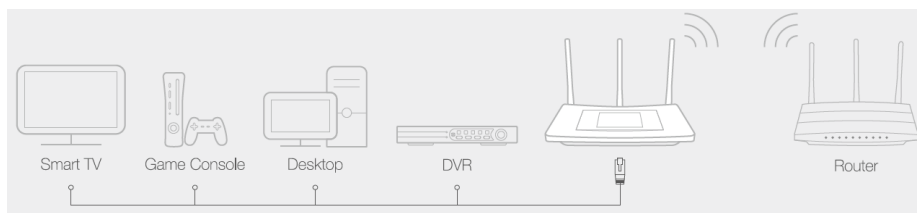


■ Note: Both extended networks share the same Wi-Fi passwords as those of your host networks, but may have different wireless network names if you have customized them during the configuration.

## 2.5. Entertainment Adapter

The extender can also be used as a wireless adapter that connects up to 4 Ethernet-only devices to your Wi-Fi network, such as a Blu-ray player, game console, DVR, smart TV, etc.

1. Connect to your extender to your Wi-Fi network by using either way introduced above.
2. Connect your Ethernet-only device to one of the extender's Ethernet ports via an Ethernet cable.





## Chapter 3

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# Further Configuration

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This chapter introduces configurations of the extender's various features, such as Devices Control, DHCP, Clock, etc. Follow this chapter to configure most features on touchscreen. Some other features, such as Firmware Upgrade, Backup & Restore, System Log, etc, can only be configured through web-based utility.

This chapter contains the following sections:

- *Quick Setup*
- *Wireless Settings*
- *Devices Control*
- *WPS*
- *LAN*
- *DHCP Server*
- *Clock*
- *Screen Settings*
- *Reboot & Reset*
- *Administrator Password*
- *About*
- *Firmware Upgrade*
- *Backup & Restore*
- *System Log*

## 3.1. Quick Setup




Please refer to *Method ONE: Using Touchscreen App* under Chapter 2 *Quick Setup for Internet Connection* to connect the extender to your existing wireless network.

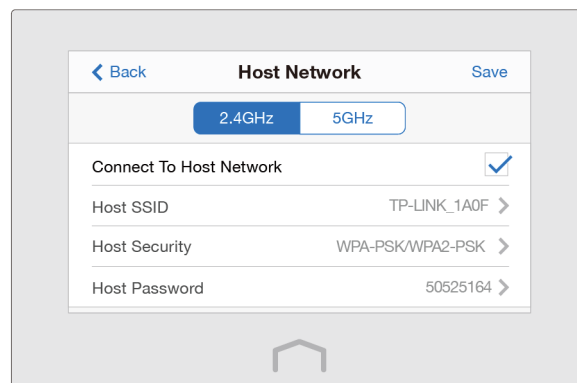
## 3.2. Wireless Settings



The Wireless Settings app helps you customize the wireless settings including the host network and extended network according to your needs.

### Set your host network

1. Tap **Wireless Settings**  on the menu screen, then tap **Host Network**.




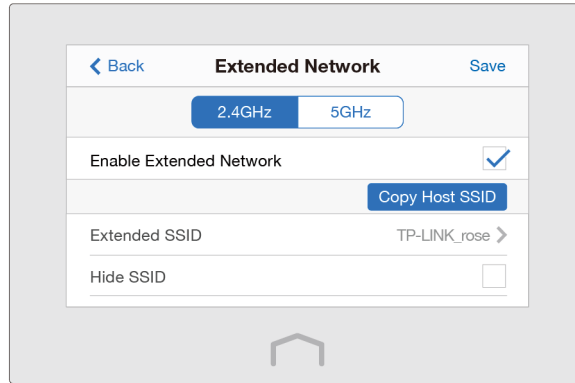
2. Tap **2.4GHz** or **5GHz** menu to set the 2.4GHz or 5GHz host network.
3. Select the **Connect To Host Network** checkbox. If not, you are choosing not to extend the host network's 2.4GHz or 5GHz band.
4. Tap **Host SSID** to scan the wireless networks around, and select the SSID of your host network.  
**Note:** If the host network you want to extend is on but not shown in the list, please try to move your extender closer to your host router, then tap **Rescan** or select **Other...** to enter the SSID manually.
5. Once a network is selected, the SSID and security settings of that network will automatically be filled in. Tap **Host Password** to enter the password of the host network in corresponding encryption.

■ **Note:** If the host network security is WEP, tap [Index](#) to select index same as host network.

6. Tap [Save](#).

## Set your extended network

1. Tap [Wireless Settings](#)  on the menu screen, then tap [Extended Network](#).



2. Tap [2.4GHz](#) or [5GHz](#) menu to set the 2.4GHz or 5GHz extended network.

3. Select the [Enable Extended Network](#) checkbox.

4. Either tap [Copy Host SSID](#) to copy the host router's SSID, or tap [Extended SSID](#) to create a new name for the extended network.

5. Select the [Hide SSID](#) checkbox if you want to hide your extender's SSID from the Wi-Fi network list, and you will need to manually join the network.

6. Tap [Save](#).

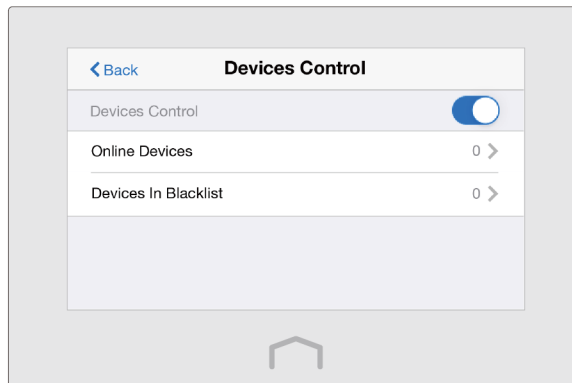
### 3.3. Devices Control



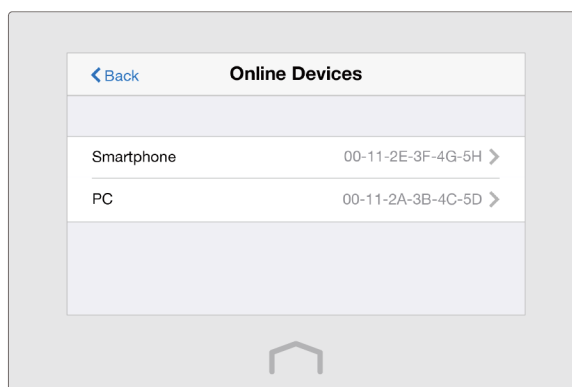
The Devices Control app helps to view the client information and block unauthorized users (wired or wireless) from connecting to your extender.

**I want to** Block some specific devices from connecting to my extender.

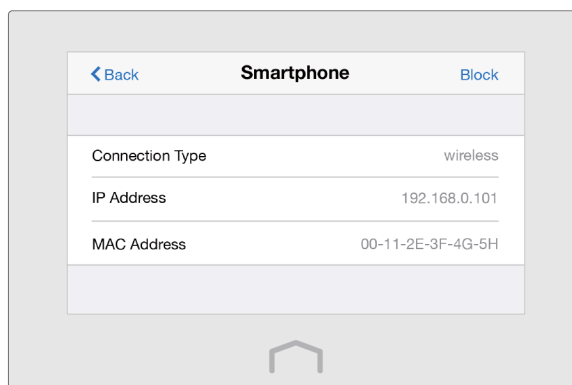
**How can I do that?** 1. Tap [Wireless Settings](#)  on the menu screen, then toggle the button to enable [Devices Control](#) function.



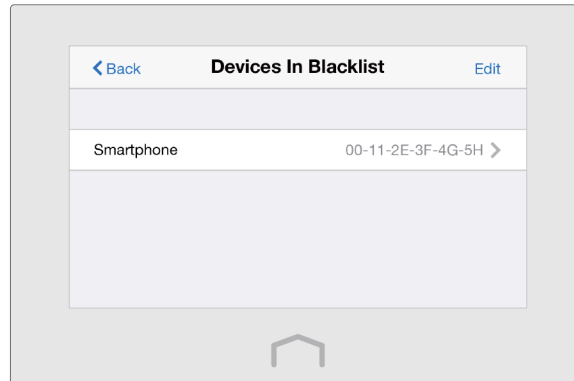
2. Tap **Online Devices** to view the connected clients.



3. Select the device(s) to be blocked and tap **Block**.



4. The blocked device(s) will be added to **Devices in Blacklist** automatically.



■ **Note:** If you want to add a device manually or delete a blocked device, tap **Edit** on the Devices In Blacklist page.

**Done!** Now devices in the blacklist cannot connect to your extender.

### 3.4. WPS




Please refer to *Method TWO: Using WPS (Wi-Fi Protected Setup)* under Chapter 2 *Quick Setup for Internet Connection* to connect the extender to your existing wireless network.

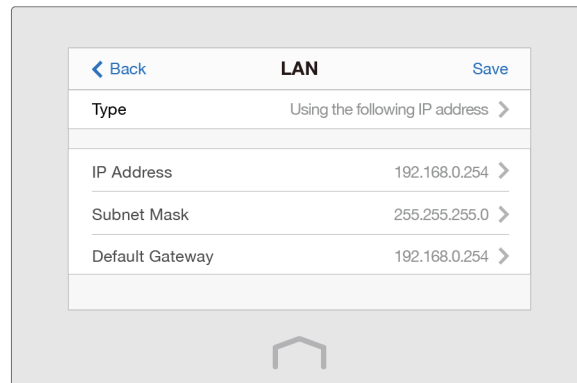
### 3.5. LAN



By default, your extender is set to obtain an IP address automatically from the host router. The LAN app allows you to use a specific IP address appropriate to your network demand.

■ **Note:** We do NOT recommend you change the IP address unless you are quite sure about the IP setting for special network demand. Random changes may lead to Internet disconnection.

1. Tap **LAN**  on the menu screen, then tap **Type** to select **Use the following IP address** and tap **Done**.



2. Tap **IP Address** to enter an IP address in dotted decimal notation. It should be in the same subnet as the host network.
3. Tap **Subnet Mask** to enter the subnet mask in dotted decimal notation. It determines the network portion and host portion of the IP address.
4. Tap **Default Gateway** to enter the gateway that is in the same subnet as the IP address in dotted decimal notation . It is usually the LAN IP address of your router.
5. Tap **Save**.


### 3.6. DHCP Server



The extender can be configured as a DHCP (Dynamic Host Configuration Protocol) server to assign IP addresses automatically to the devices on the LAN. To use the DHCP server function of your extender, you must set all computers on the LAN to "Obtain an IP Address automatically".

You can also manually reserve an IP address for a client that is connected to your extender. Once reserved, the IP address will only be assigned to the client by the DHCP server.

#### Set the DHCP server

1. Tap **DHCP Server**  on the menu screen, then select **DHCP Server**.
2. The **Enable DHCP Server** is set to be **Auto** by default, and the function will automatically be turn on or off according to the DHCP settings of the host network.

If you select **On**, please configure it manually.


- **IP Address Pool:** The start address and end address must be on the same subnet with the LAN IP. Your extender will assign addresses within this specified range to its clients.

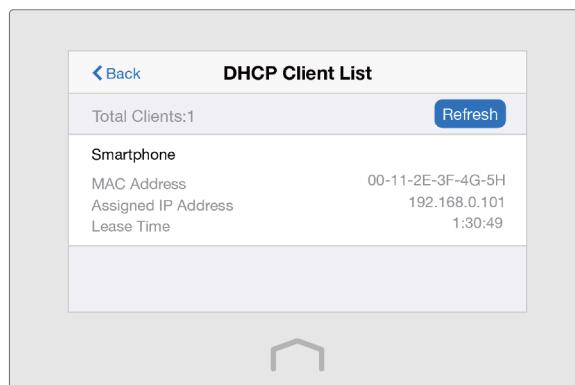
- **Address Lease Time:** The amount of time in which a DHCP client can lease its current dynamic IP address assigned by your extender. After the dynamic IP address expires, the client will be automatically assigned a new dynamic IP address.
- **Default Gateway (Optional):** Enter the LAN IP address of your extender.
- **Primary/Secondary DNS (Optional):** Enter this parameters as provided by your ISP.

If you select **Off**, please make sure the DHCP server of your host network is on. Otherwise, you have to set the IP address for each client manually.


3. Tap **Save**.

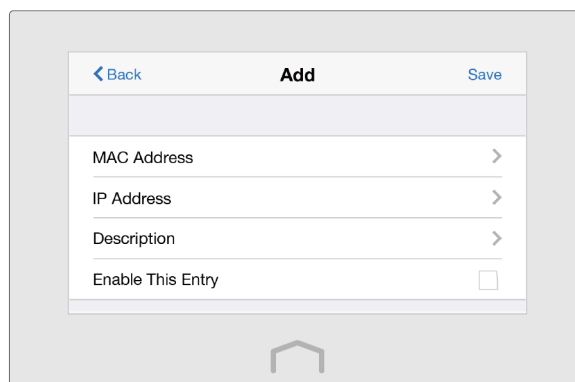
### View the client information

Tap **DHCP Server**  on the menu screen, then select **DHCP Client List**. On this page, the details of the clients connected to the extender are displayed as shown below.



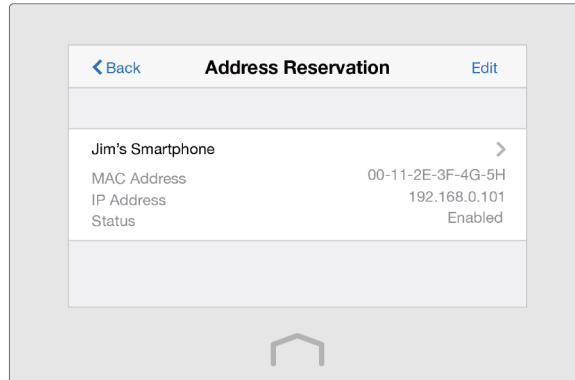
### Reserve an IP address

1. Tap **DHCP Server**  on the menu screen, then select **Address Reservation** and tap **Add**.



2. Enter the **MAC Address** of the device for which you want to reserve an IP address.
3. Specify the **IP Address** which will be reserved for the device.


4. Enter the Description for the device.
5. Check the **Enable This Entry** box and tap **Save** (shown as figure below).

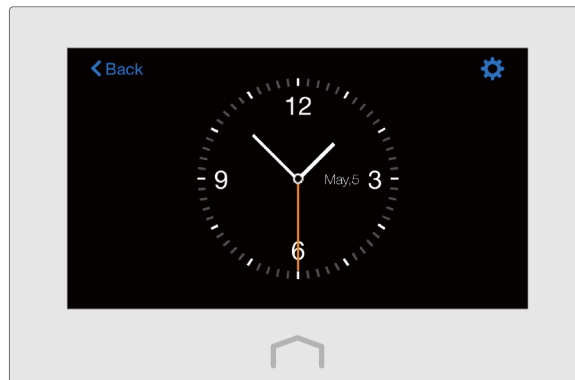


■ **Note:** If you want to modify a reserved address, tap the reserved address to modify it. If you want to add or delete a reserved address, tap **Edit** to set up according to your needs.



### 3.7. Clock





Tap **Clock**  on the menu screen, and you can see the current time and date got automatically from the Internet.



#### Set time zone

1. Tap **Clock**  on the menu screen, and tap .
2. Tap **Time Zone** to select your time zone and tap **Done**.
3. Tap **Save**.

#### Set clock type

1. Tap **Clock**  on the menu screen, and tap .




2. Tap **Clock Display** to select the clock type you prefer, then tap **Done**.
3. Tap **Save**.

### 3. 8. Screen Settings



The Screen Settings app helps to set the brightness and screen saver of your extender.

1. Tap **Screen Settings**  on the menu screen.
2. Drag the scroll bar to set the brightness of the screen.
3. Tap **Start screen saver after** to select the wait time and tap **Done**. By default, the screen saver will start if the screen is idle for 3 minutes.
4. Tap **Save**.

### 3. 9. Reboot & Reset



With Reboot & Reset app, you can restart your extender or reset it to its factory default settings.

Tap **Reboot & Reset**  on the menu screen.

- Tap **Reboot**, and the extender will shut down and boot again.
- Tap **Reset**, and all the settings you have configured will be erased and the extender will be set to its factory default settings.


■ **Note:** Please do NOT power off your extender during the rebooting or resetting process.

### 3. 10. Administrator Password



An administrator password is used to log in to the touchscreen page and web-management page of your extender. You are required to set a new administrator

password at your first login. You can also change it with the Administrator Password app.


1. Tap **Administrator Password**  on the menu screen.
2. Enter the old password. Enter the new password and enter again to confirm.
3. Tap **Save**.

■ **Note:**

1. If you disable this function, your touchscreen will be under no protection and anyone can change the settings of your extender through the touchscreen, but logging in through web-based management page still requires the password.
2. If you change the administrator password on the screen, logging into the web-based management page also requires the new password.

## 3.11. About



Tap **About**  on the menu screen, and you can see the product model, hardware version, and firmware version of your extender.

## 3.12. Firmware Upgrade

TP-LINK is dedicated to improving and enriching the product features, giving you a better network experience. We will release the latest firmware at TP-LINK official website, you can download the latest firmware file from our website and upgrade the firmware to the latest version.

1. On your computer, download the latest firmware file from our website <http://tp-link.com/en/support>
2. Launch a web-browser on your computer, type <http://tplinkrepeater.net> in the address bar, and enter the username and password you have set before, then click **Login**.
3. Go to **Settings > System Tools > Firmware Upgrade**.

Firmware Upgrade

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New Firmware File:  **Browse**

Firmware Version: 1.0.0 Build 20150603 Rel. 65141

Hardware Version: RE590T v1.0

**Upgrade**

4. Click [Browse](#) to locate the downloaded new firmware file, and click [Upgrade](#).
5. Wait a few moments for the upgrading and rebooting. During the process, do NOT turn off or reset your extender.

■ **Note:**

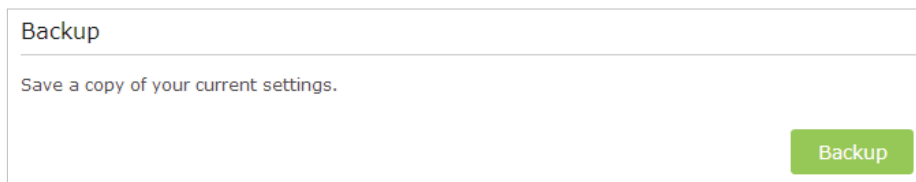
1. The upgraded firmware version must correspond to the hardware version.
2. Before upgrading the firmware, it's better to back up your current settings. Please refer to [Backup & Restore](#) for details.

## 3. 13. Backup & Restore

The configurations of the extender are stored as a file in the extender. You can back up the configuration file to your computer for future use and restore the extender to the previous settings from the backup file when needed.

### Backup

1. Launch a web-browser on your computer, and type <http://tplinkrepeater.net> into the address bar, and enter the username and password you have set before, then click [Login](#).
2. Go to [Settings](#) > [System Tools](#) > [Backup & Restore](#) page.

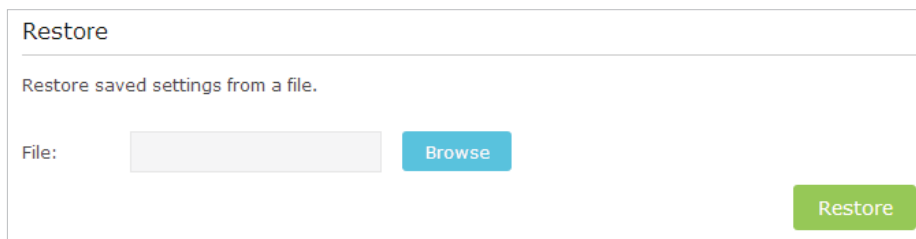


The screenshot shows a web interface titled "Backup". Below the title is a horizontal line, followed by the text "Save a copy of your current settings." In the bottom right corner, there is a green button labeled "Backup".

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

### Restore

1. Launch a web-browser on your computer, type <http://tplinkrepeater.net> in the address bar, and enter the username and password you have set before, then click [Login](#).
2. Go to [Settings](#) > [System Tools](#) > [Backup & Restore](#).



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

3. Click [Browse](#) to locate the previous backup configuration file, and click [Restore](#).
4. Wait for the restoring and then the extender will automatically reboot.

## 3. 14. System Log

System Log can help you know what happened to your extender, facilitating you to identify the malfunctions. When your extender does not work properly, you may need to save the system log and send it to the technical support for troubleshooting.

1. Launch a web-browser on your computer, type <http://tplinkrepeater.net> in the address bar, and enter the username and password you have set before, then click Login.
2. Go to [Settings](#) > [System Tools](#) > [System Log](#).

System Log

Log Filter: Type = ALL Level = ALL

↻ Refresh
🗑 Delete All

ID	Time	Type	Level	Content
1	0 days 01:54:05	DHCPS	INFO	Sent an ACK packet to 192.168.0.100
2	0 days 01:54:05	DHCPS	INFO	Received a request packet from C4:E9:84:1D:70:DD
3	0 days 01:53:35	DHCPS	INFO	Sent an ACK packet to 192.168.0.100
4	0 days 01:53:35	DHCPS	INFO	Received a request packet from C4:E9:84:1D:70:DD
5	0 days 01:53:05	DHCPS	INFO	Sent an ACK packet to 192.168.0.100
6	0 days 01:53:05	DHCPS	INFO	Received a request packet from C4:E9:84:1D:70:DD
7	0 days 01:52:35	DHCPS	INFO	Sent an ACK packet to 192.168.0.100
8	0 days 01:52:35	DHCPS	INFO	Received a request packet from C4:E9:84:1D:70:DD
9	0 days 01:52:05	DHCPS	INFO	Sent an ACK packet to 192.168.0.100
10	0 days 01:52:05	DHCPS	INFO	Received a request packet from C4:E9:84:1D:70:DD

⏪
1
2
3
4
⏩

Save Log

3. You can filter out and view the specific logs by choosing log type and level.
4. Click [Save Log](#) to save all the logs in txt file in your computer.

# Appendix A: Troubleshooting

## T1. What can I do if I forgot my administrator password?

You must restore the extender to its factory default settings, and create a new one.

## T2. How do I restore my extender to its factory default settings?

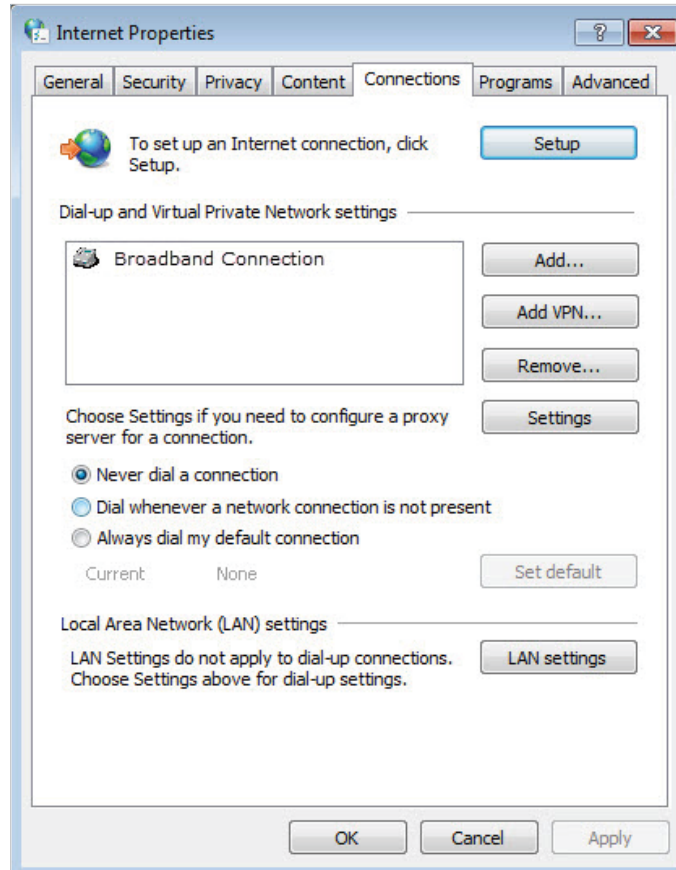
- Tap [Reboot & Reset](#) on the menu screen, and then tap [Reset](#).
- With the extender powered on, use a pin to press and hold the [Reset](#) button on the rear panel until the [RE590T](#) logo displays.

## T3. What can I do if I forgot my wireless network password?

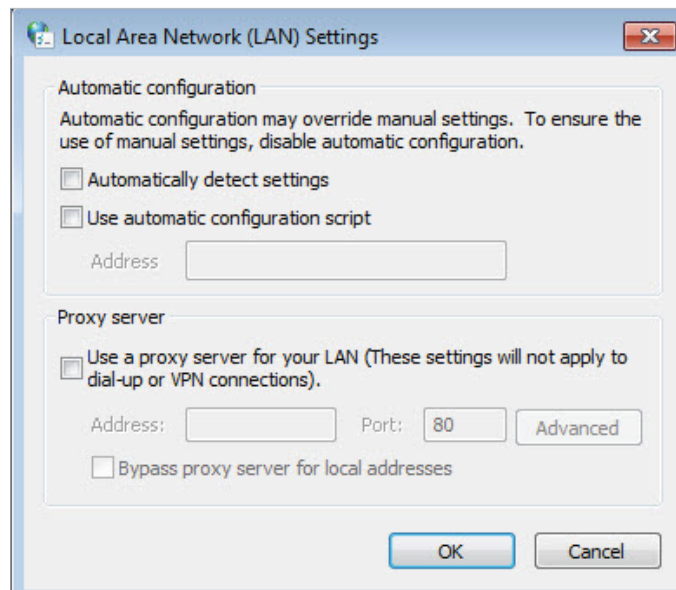
The password of the extended network is the same as that of your host network.

## T4. What can I do if I cannot log into the extender's web management page?

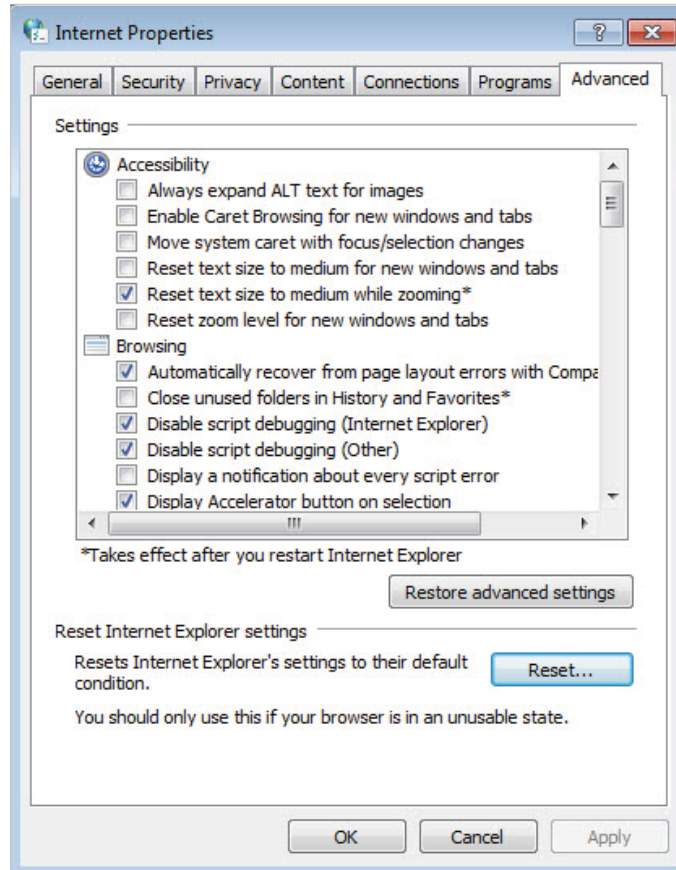
- Tap [Devices Control](#) on the menu screen to check if your computer is connected to the extender.
- Make sure your computer is configured to obtain an IP address and obtain DNS server address automatically.
- Make sure the default access (<http://tplinkrepeater.net>) you input is correct.
- Check your computer's settings:
  - 1) Go to [Start](#) > [Control Panel](#) > [Network and Internet](#), and click [View network status and tasks](#);
  - 2) Click [Internet Options](#) on the bottom left;
  - 3) Click [Connections](#), and select [Never dial a connection](#);



4) Click [LAN settings](#), deselect the following three options and click [OK](#);



5) Go to [Advanced](#) > [Restore advanced settings](#), and click [OK](#) to save the settings.



- Change a web browser or computer and try to log in again.
- Reset the extender to its factory default settings, then connect your computer to the extender and try to log in again. If the login fails, please contact the technical support.

# Appendix B: Specifications

## HARDWARE FEATURES

Interfaces	4*10/100/1000Mbps Ethernet Ports(RJ45)
Button	Reset Button, Power On/Off Button
Dimensions (W x D x H)	11.2 x 6.2 x 2.1 in. (284 x 157 x 52 mm)
Antenna	3 dual band detachable antennas
External Power Supply	12V/2.5A
Touch Screen	Screen Type: Capacitive Screen Size: 4.3 inch Screen Resolution: 128 ppi

## WIRELESS FEATURES

Wireless Standards	IEEE 802.11a/ac, IEEE 802.11b/g/n
Frequency	2.4GHz, 5GHz
Signal Rate	Up to 1300Mbps @5GHz, Up to 600Mbps @2.4GHzs
Reception Sensitivity	5GHz: 11a 6Mbps:-94dBm@10% PER 11a 54Mbps: -75dBm@10% PER 11ac HT20 MCS8: -66dBm@10% PER 11ac HT40 MCS9: -62dBm@10% PER 11ac HT80 MCS9: -59dBm@10% PER 2.4GHz: 11g 54M: -76dBm@10% PER 11n HT20 MCS7: -73dBm@10% PER 11n HT40 MCS7: -71dBm@10% PER
Wireless Functions	Concurrent Mode boost both 2.4G/5G Wi-Fi band, Devices Control, Domain Login Function
Wireless Security	64/128-bit WEP, WPA-PSK / WPA2-PSK
Transmission Power	CE: <20dBm(2.4GHz), <23dBm(5GHz), FCC: <30dBm

## OTHERS

System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista or Windows 7, 8, 8.1, Mac® OS, NetWare®, UNIX® or Linux.
Environment	Working Temperature: 0 °C ~ 40 °C (32 °F to 104 °F) Working Humidity: 10% ~ 90% RH (non-condensing) Storage Temperature: -40 °C ~ 70 °C (-40 °F to 158 °F) Storage Humidity: 5% ~ 90% RH (non-condensing)
Certifications	CE, FCC, RoHS



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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.

## National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

Note: Please don't use the product outdoors in France.

## 5150-5250 MHz

Country	Restriction	Reason/remark
Bulgaria	Not implemented	Planned
Croatia	License required	None
Italy	None	General authorization required if used outside own premises
Luxembourg	None	General authorization required for network and service supply (not for spectrum)
Russian Federation	No info	None

## Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). 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.

Cet appareil est conforme aux norms CNR exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

1. cet appareil ne doit pas provoquer d'interférences et
2. cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 3 dBi. Antennas not included in this list or having a gain greater than 3 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

### **Industry Canada Statement**

Complies with the Canadian ICES-003 Class B specifications.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with RSS 210 of Industry Canada. This Class B device meets all the requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### **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行；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。

減少電磁波影響，請妥適使用。

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。



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### 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.

**This product can be used in the following countries:**

AT	BG	BY	CA	CZ	DE	DK	EE
ES	FI	FR	GB	GR	HU	IE	IT
LT	LV	MT	NL	NO	PL	PT	RO
RU	SE	SK	TR	UA	US		