



# Easy Wi-Fi Extension Flexible Placement

**AC** 1900

Wi-Fi Range Extender **RE580D**

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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 26 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.”

This device is restricted in indoor environment only.

## CE Mark Warning



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

## RF Exposure Information

This device meets the EU requirements (1999/519/EC) 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

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
Belarus	Not implemented	
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund on Svalbard.
Italy	Implemented	The public use is subject to general authorisation by the respective service provider.
Russian Federation	Limited implementation	<p><b>1. SRD with FHSS modulation</b></p> <p>1.1. Maximum 2.5 mW e.i.r.p.</p> <p>1.2. Maximum 100 mW e.i.r.p. Permitted for use SRD for outdoor applications without restriction on installation height only for purposes of gathering telemetry information for automated monitoring and resources accounting systems. Permitted to use SRD for other purposes for outdoor applications only when the installation height is not exceeding 10 m above the ground</p>

surface.

1.3. Maximum 100 mW e.i.r.p. Indoor applications.

### 2. SRD with DSSS and other than FHSS wideband modulation

2.1. Maximum mean e.i.r.p. density is 2 mW/MHz. Maximum 100 mW e.i.r.p.

2.2. Maximum mean e.i.r.p. density is 20 mW/MHz. Maximum 100 mW e.i.r.p. It is permitted to use SRD for outdoor applications only for purposes of gathering telemetry information for automated monitoring and resources accounting systems or security systems.

2.3. Maximum mean e.i.r.p. density is 10 mW/MHz. Maximum 100 mW e.i.r.p. Indoor applications.

Ukraine	<b>Limited implementation</b>	e.i.r.p. ≤100 mW with built-in antenna with amplification factor up to 6 dBi.
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ATTENTION: Due to EU law, the country settings must be identical to the country where the device is operating (important due to non-harmonised frequencies in the EU).

Restricted to indoor use.

## Canadian Compliance Statement

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

1) This device may not cause interference, and

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil n' doit pas produire de brouillage, et
- 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This radio transmitter (IC: 8853A-RE580D / Model: RE580D) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list (Appendix), having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 8853A-RE580D / Model: RE580D) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste (Annexe), et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

### 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;
- 2) The maximum antenna gain permitted for devices in the band 5725-

5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

- 3) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

### Avertissement:

- 1) Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- 2) Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;
- 3) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

### 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 32cm 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 32 cm de distance entre la source de rayonnement et votre corps.

## Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B)

## Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음.

## NCC Notice & BSMI Notice

注意!

依據 低功率電波輻射性電機管理辦法

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

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行；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。



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



## Safety Information

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



- Use only power supplies which are provided by manufacturer and in the original packing of this product.

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	SG	SK	TR	UA	US	

## DECLARATION OF CONFORMITY

For the following equipment:

Product Description: **AC1900 Wi-Fi Range Extender**

Model No.: **RE580D**

Trademark: **TP-LINK**

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 1999/5/EC, Directives 2004/108/EC, Directives 2006/95/EC, Directives 1999/519/EC, Directives 2011/65/EU

The above product is in conformity with the following standards or other normative documents

**EN 300 328 V1.8.1: 2012-06**

**EN 301 489-1 V1.9.2:2011& EN 301 489-17 V2.2.1:2012**

**EN 55022:2010+AC:2011**

**EN 55024:2010**

**EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013**

**EN 50385:2002**

**EN 301 893 V1.7.1:2012-06**

The product carries the CE Mark:

**CE 1588** 

Person responsible for marking this declaration:



**Yang Hongliang**

**Product Manager of International Business**

Date of issue: 2015-06-19



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# 1

## Introduction

This chapter covers the following topics:

- **Product Overview**
- **Appearance**

## Product Overview

### What can your Extender do

The RE580D AC1900 Wi-Fi Range Extender is dedicated to Small Office/Home Office (SOHO) wireless network solutions. It will enlarge your existing wireless network and mobility within your wireless network while also allowing you to connect a wired device to a wireless environment. Increased mobility and the absence of cabling will be beneficial for your network.

The extender provides two options to finish the quick setup.

Option One: an easy wireless connection to the host network (equipped with WPS/QSS button) by [Using WPS](#) on the back panel.

Option Two: [Using your Web Browser](#) for installation and management.

Even though you may not be familiar with the extender, you can easily configure it with the help of this guide. Before installing the extender, please look through this guide to get the full information of the RE580D AC1900 Wi-Fi Range Extender.

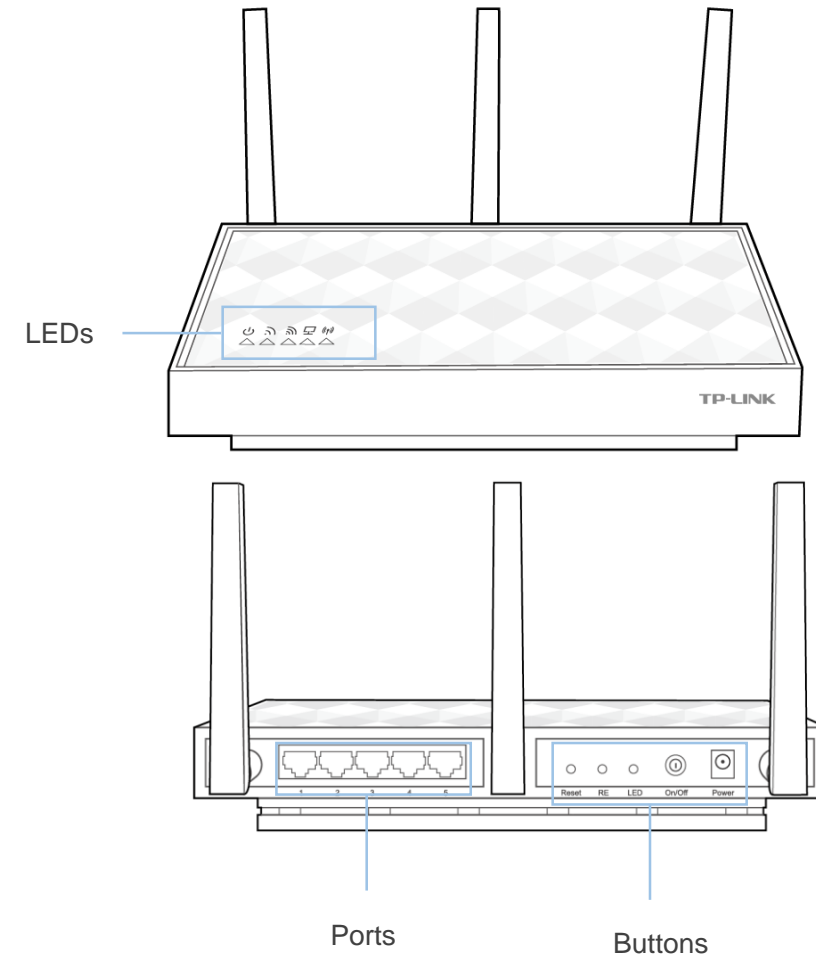
### Support for the 802.11ac wireless technology

With using IEEE 802.11ac wireless technology, this device can transmit wireless data at the rate of up to 600Mbps (2.4GHz) + 1300Mbps (5GHz). With multiple protection measures, including wireless LAN 64/128-bit WEP encryption, Wi-Fi protected Access (WPA2-PSK, WPA-PSK), the RE580D AC1900 Wi-Fi Range Extender delivers complete data privacy. It is also compatible with all IEEE 802.11n, IEEE 802.11a, IEEE 802.11b and IEEE 802.11g products.






## Main Features

- ◆ Complies with IEEE 802.11ac
- ◆ Provides multiple encryption security Types including: 64/128-bit WEP and WPA-PSK/WPA2-PSK
- ◆ Supports Built-in DHCP server
- ◆ Supports Firmware Upgrade
- ◆ Supports Web-based Management

## Appearance



## LED Explanation

Name	Status	Indication
 (RE)	Solid blue	The extender has established a secure connection, and the signal strength is adequate.
	Solid orange	The extender has established a secure connection, but the signal strength is too weak.
	Blinking	WPS connection is in process.
	Off	No active connection.
 (5GHz)/  (2.4GHz)	On	The extender is connected to the 2.4GHz or 5GHz wireless network of your host network.
	Off	No connection.
 (Power)	On	The extender is on.
	Blinking	The extender is initializing.
	Off	The extender is off.
 (Ethernet)	On	The Ethernet port is connected.
	Off	The Ethernet port is not connected.

## Button Explanation

- ◆ **(Range Extender/WPS) Button:** If your Wireless router supports WPS or QSS function, you can press the WPS or QSS button and then press the RE button to establish a secure connection between the Wireless router and the extender.
- ◆ **Reset Button:** This button is used to restore the extender's factory default settings.  
There are two ways to reset the extender:  
**Option One:** With the extender powered on, use a pin to press the **RESET** button until all the LEDs turn on momentarily, then release the button and wait the extender to reboot to its factory default settings.  
**Option Two:** Restore the default settings from "**System Tools > Backup & Restore**" of the extender's Web-based Management page.
- ◆ **LED Button:** You can press the LED button to light up or turn off all the LEDs. After the LEDs are off, the extender can still work normally.
- ◆ **Power Button :** You can press the Power button to turn on or off the extender.
- ◆ **Ethernet Port:** Five 10/100/1000Mbps RJ45 Ethernet ports used to add wireless connectivity to an Ethernet-enabled device such as Internet TV, DVR, Gaming console and so on. Please note that this port is not allowed to be connected with router.

# 2

## Connect the Extender to the Internet

This chapter covers the following topics:

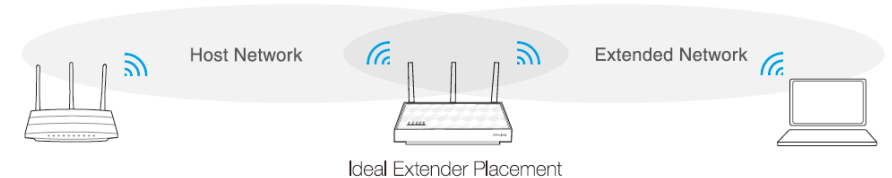
- **Before You Begin**
- **Basic Requirements**
- **Quick Setup**

### Before You Begin

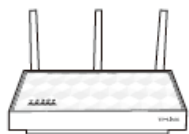
Please read this guide carefully before installing and using the device. The operating distance range of your wireless connection can vary significantly depending on the physical position of the wireless devices. Factors that can weaken signals by getting in the way of your network's radio waves are metal appliances or obstructions, and walls. Typical ranges vary based on the types of materials and background RF (radio frequency) noise in your home or office.

In order to optimize the performance of RE580D, please follow the instructions below to achieve an **ideal location** (please make sure it is always within the wireless coverage of the wireless router).

- **Half-way Between** - Generally, the ideal location for RE580D is half-way between the Wireless router and Wireless Client. If the wireless signal is not satisfactory, you may place RE580D somewhat nearer to the Wireless router.



- **No Obstacles and Spacious** - Clear obstacles in the way between RE580D and Wireless router. It's better to locate it in a spacious place, such as near the corridors.
- **No Interference** - Choose a location away from Bluetooth devices and other household electronics, such as cordless phone, microwave, and baby monitor, etc., to minimize signal interference.



Keep away from



## Basic Requirements

- ◆ Place your extender in a well-ventilated place far from direct sunlight, any heater or heating vent.
- ◆ Leave at least 2 inches (5cm) space around the device for heat dissipation.
- ◆ Turn off your extender and unplug the power adapter in a lighting storm to avoid damage.
- ◆ Use Web browser, such as Microsoft Internet Explorer 5.0 or above, Netscape Navigator 6.0 or above.
- ◆ Operating temperature of the extender should be 0°C~40°C (32°F~104°F).
- ◆ Operating humidity of the extender should be 10%~90%RH (Non-condensing).


## Quick Setup

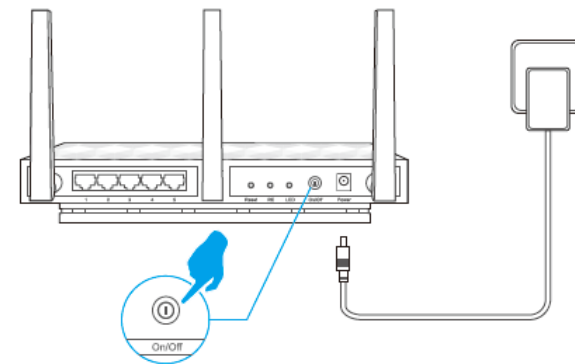
### Using WPS (Wi-Fi Protected Setup)



Your router should support WPS. Otherwise, please use [Using your web browser](#).

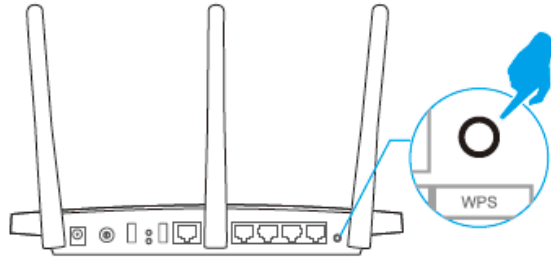
#### 1 Power On

Plug the extender into an electrical outlet near your router, and wait until the Power LED  is lit and solid blue.



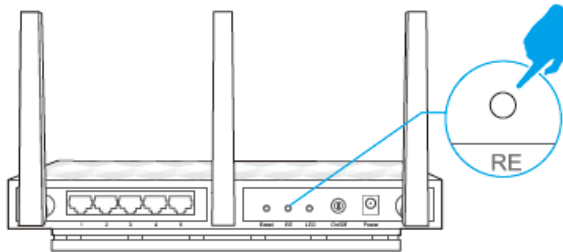
#### 2 Connect

- 1) Press the **WPS button** on your router.



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

- 2) Immediately press the **RE button** on your extender. The (📶) LED should change from flashing to solid, showing that WPS connection is successful.



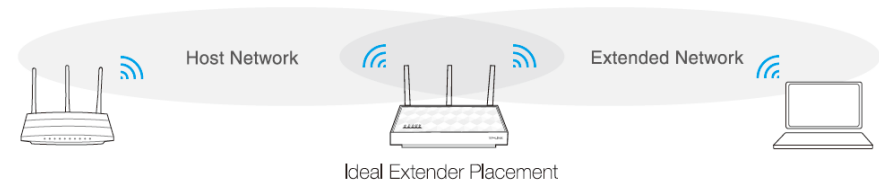
- If the RE LED does not change from flashing to solid, please refer to [Using your Web Browser](#).
- Some ISP gateways disable the WPS function by default, if the WPS method fails, please refer to [Using your Web Browser](#).

- 3) If you are connecting the extender to a dual-band router but only 2.4GHz (📶) or 5GHz (📶) LED is on, repeat step 1) and 2) again to connect the other band.

### 3 Relocate

Plug the extender into an electrical outlet about halfway between your router (Host Network) and the Wi-Fi dead zone.

Wait until the (📶) LED is lit with a solid blue. If not, relocate the extender closer to the router to achieve a good (or better) signal quality.



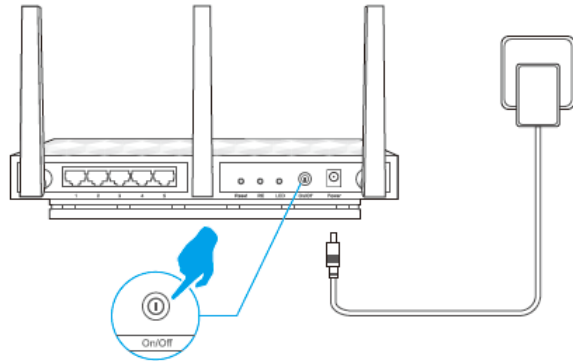
### Enjoy!

The extender shares the same wireless network name (SSID) and wireless password as your router.

# Using your Web Browser

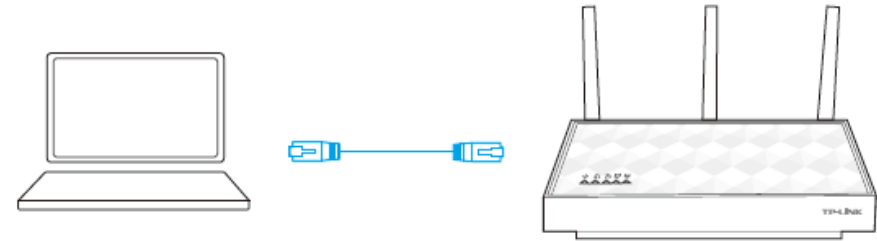
## 1 Power On

Plug the extender into an electrical outlet near your router, and wait until the Power LED is lit and solid blue.



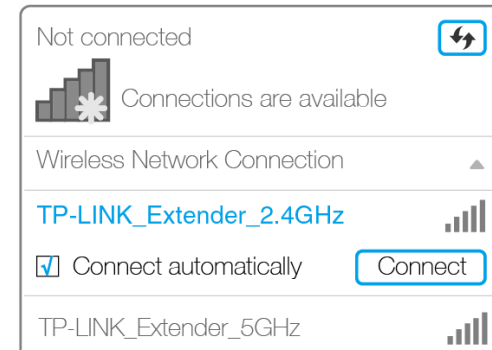
## 2 Connect to the Extender

- Connecting via Ethernet Cable
  - 1) Disable the Wi-Fi on your computer.
  - 2) Connect the extender to your computer via an Ethernet cable.



- Connecting via Wireless

Disconnect the Ethernet (wired) connection to your computer. Click the Wi-Fi icon on the taskbar and connect to the extender's network (e.g. TP-LINK\_Extender\_2.4GHz or \_5GHz).



## 3 Login

Launch a web browser and type **http://tplinkrepeater.net** into the URL field and use admin (all lowercase) for both Username and Password to log in.



admin

•••••

Login

## 4 Configure

- 1) Create a new username and password to log in the web management page, then click **Confirm**.

Create a new username and password.

New Username: username

New Password: ••••••••

Low Middle High

Confirm Password: •••••••• ✓

Confirm

- 2) Select your router's 2.4GHz host network and enter the password, then click **Next**.

2.4GHz Host Network | Wireless Settings | Region | 5GHz Host Network | Summary

Please select 2.4GHz host network or skip this network.

ID	SSID	Signal	MAC Address	Security
<input checked="" type="radio"/>	1	TP-LINK_508B	40-16-9F-BF-51-0C	🔒
<input type="radio"/>	2	TP-LINK_1A0F	00-0A-EB-84-1A-0F	🔒
<input type="radio"/>	3	TP-LINK_2642	00-0A-EB-0C-26-42	🔒
<input type="radio"/>	4	TP-LINK_ED2A	30-B5-C2-84-ED-2A	🔒
<input type="radio"/>	5	TP-LINK_Network	00-19-66-CA-8B-07	🔒
<input type="radio"/>	6	TP-LINK_0507	00-02-03-04-05-07	🔒
<input type="radio"/>	7	TP-LINK_4455	80-F6-2E-00-AB-71	🔒

Host 2.4GHz Password:

Next

Back Other... Rescan Skip

- 3) Select your router's 5GHz host network and enter the password, then click **Next**.

2.4GHz Host Network | Wireless Settings | 5GHz Host Network | Summary

Please select 5GHz host network or skip this network.

ID	SSID	Signal	MAC Address	Security
<input checked="" type="radio"/>	1	TP-LINK_508E_5G	40-16-9F-BF-50-8A	🔒
Host 5GHz Password:		<input type="text"/>	<input type="button" value="Next"/>	
<input type="radio"/>	2	TTNET_TP-LINK_5GHz_8044	40-16-9F-EA-80-44	🔒
<input type="radio"/>	3	TP-LINK_4455_5G	00-11-22-33-44-57	🔒
<input type="radio"/>	4	C3200_UES_516C_5G_1	C4-E9-84-8F-51-6B	🔒
<input type="radio"/>	5	rainie_5G	40-16-9F-BF-51-0E	🔒
<input type="radio"/>	6	C3200_UES_Guest_516C_5G_1	C4-E9-84-62-51-6A	🔒
<input type="radio"/>	7	TP-LINK_1B28_5G	00-19-66-08-1B-2A	🔒



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

- 4) Either keep the same SSIDs as your host network or create new names for the extended networks, then click **Next**.

2.4GHz Host Network | Wireless Settings | 5GHz Host Network | Summary

Extended 2.4GHz SSID:

Hide SSID broadcast

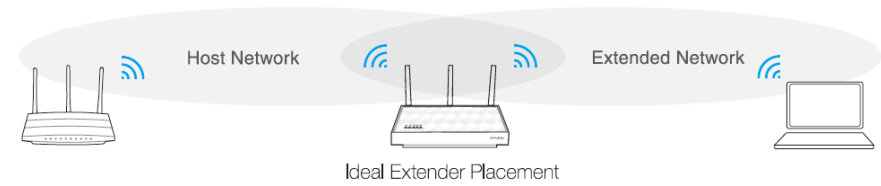
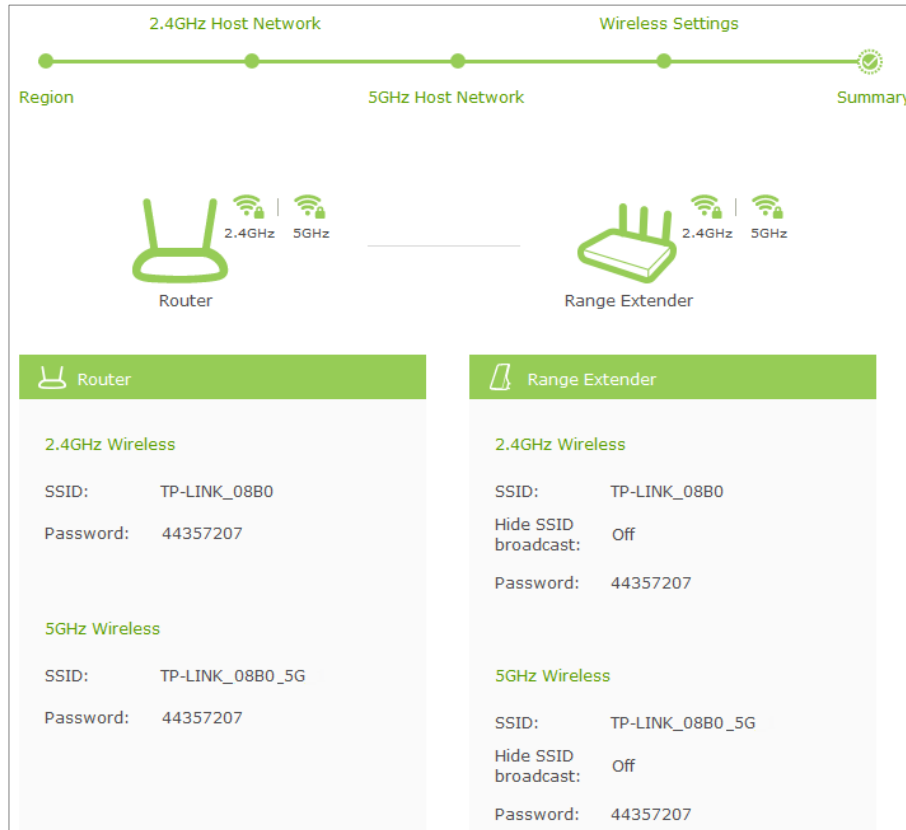
The extended 2.4GHz password is the same as your Host password.

Extended 5GHz SSID:

Hide SSID broadcast

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

- 5) Verify your wireless settings and click **Finish**. The corresponding LEDs (2.4GHz and 5GHz) should turn on and stay solid.




## Enjoy!

Both extended networks share the same Wi-Fi password as your main network, but may have different wireless network names if you customize the SSIDs during the configuration.

## 5 Relocate

Plug the extender into an electrical outlet about halfway between your router (Host Network) and the Wi-Fi dead zone.

Wait until the  LED is lit with a solid blue. If not, relocate the extender closer to the router to achieve a good (or better) signal quality.

# 3

## View the Information of the Extender

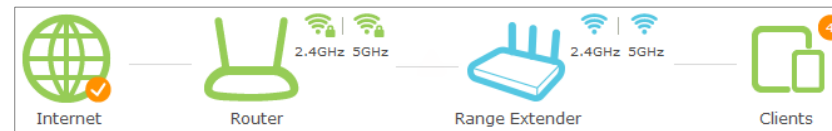
This chapter covers the following topics:

- **View the Extender's Current Status**
- **View the Information about the Host Network, the Extender and the Clients**

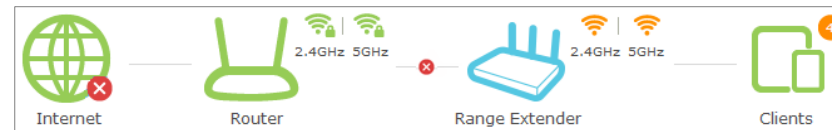
## View the Extender's Current Status

- 1) Launch a web browser and type in **<http://tplinkrepeater.net>**, then go to **Settings > Status** webpage.
- 2) You can view the network connection in the Status webpage.

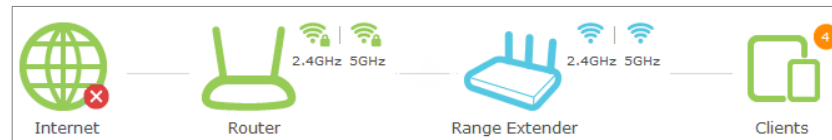
- The normal status.



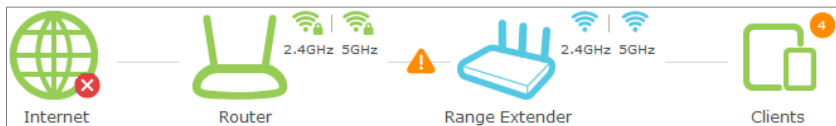
- The extender is failed to connect to the wireless network of your router.



- The extender is connected to the wireless network of your router, but no transmitting data. Please check your host network.



- The extender is connected to the router unnormally. Maybe the gateway is set incorrectly in the Static IP. You can select "Obtain an IP address automatically" on the "LAN Settings" page.



Instructions for the icons of 2.4GHz/5GHz wireless status:

Name	Instructions
	The wireless is on and encrypted.
	The wireless is on and unencrypted.
	Router: The wireless is off, or the connection is failed. Extender: The wireless is off.
	The icons are selected.

## View the Information about the Host Network, the Extender and the Clients

- 1) Launch a web browser and type in <http://tplinkrepeater.net>, then go to **Settings > Status** webpage.
- 2) Click the icons of your router, the extender and clients. The detailed instructions for the corresponding icon are displayed below.

**Range Extender**

<b>Extended 2.4GHz</b>		<b>Extended 5GHz</b>	
SSID:	TP-LINK_08B0	SSID:	TP-LINK_08B0_5G
Channel:	2	Channel:	36
MAC Address:	00:0A:EB:13:7B:00	MAC Address:	00:0A:EB:13:7B:02
<b>Wired</b>			
DHCP Server:	Auto (On)		
IP Address:	192.168.0.254		
Type:	Dynamic IP		

# 4

## Manage the Extended Network and Security Settings

This chapter covers the following topics:

- **Extend another Network**
- **Extender Settings**
- **Manage the Extender's Wi-Fi Security Settings**
- **Change the Extender's IP Address**
- **DHCP Server**

## Extend another Network

If you want to extend another network, you can refer to the following steps to finish it quickly.

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->Wireless->Connect to Network** webpage.
- 2) Enable **Connect to 2.4GHz/5GHz Network**. Then click **Wireless Scanner** to scan the network you want to extend.

Connect to Host Network

2.4GHz Network:  Connect to 2.4GHz Network  
Wireless Scanner

Host 2.4GHz SSID:

Host 2.4GHz Security: No Security ▼

Host 2.4GHz Password:

5GHz Network:  Connect to 5GHz Network  
Wireless Scanner

Host 5GHz SSID:

Host 5GHz Security: No Security ▼

Host 5GHz Password:

Save

3) Select the network you want to extend from the list.

Select a 2.4GHz Host Network Rescan

ID	SSID	Signal	MAC Address	Security
<input type="radio"/>	1	TP-LINK_08B0	E8:94:F6:FA:08:B0	
<input type="radio"/>	2	TP-LINK_Network	80:F6:2E:0A:A3:60	
<input type="radio"/>	3	TP-LINK_GUEST	80:F6:2E:00:AB:70	
<input type="radio"/>	4	TP-LINK_8B07	00:19:66:CA:8B:07	
<input type="radio"/>	5	hi	94:DE:80:5F:B4:07	
<input type="radio"/>	6	and-Business	80:F6:2E:00:AB:72	
<input type="radio"/>	7	TP-LINK_0E99	80:F6:2E:00:AB:71	
<input type="radio"/>	8	TP-LINK_abcd	FC:D7:33:10:0E:99	
<input type="radio"/>	9	TP-LINK_at12	94:DE:80:6F:B4:07	
<input type="radio"/>	10	TPGuest_2070	02:69:00:27:20:70	



If the network you want to extend is on but not shown in the list, please try by following the steps below.

- Move the extender closer to your router. Then click **Refresh** on the top-right corner of the list to scan the network again.
- You can also enter the information of the network manually you want to extend on the **Connect to Network** page. Then click **Save** to connect to the host network.

4) Once a network is selected, the SSID and security settings of that network will automatically fill in. If the host network is encrypted, enter the password in the box of the host wireless security.

Connect to Host Network

2.4GHz Network:  Connect to 2.4GHz Network

Host 2.4GHz SSID: TP-LINK\_08B0

Host 2.4GHz Security: WPA-PSK/WPA2-PSK

Host 2.4GHz Password: 12345678

5GHz Network:  Connect to 5GHz Network

Host 5GHz SSID: TP-LINK\_08B0\_5G

Host 5GHz Security: WPA-PSK/WPA2-PSK

Host 5GHz Password: 12345678



When **Host 2.4GHz/5GHz Security** is WEP, please select the index same with the host network.

5) Click **Save** to save the settings.

## 6) Relocate.

Plug in the extender halfway between your wireless router (Host Network) and the Wi-Fi dead zone.

Wait for the extender to reconnect and the (📶) LED turns solid blue. If not, relocate it closer to the router to achieve a good (or better) signal quality.

## Enjoy!

The extender shares the same wireless network name (SSID) and wireless password as your host network. If you want to change the wireless network name (SSID), please refer to [Extended Settings](#).

# Extender Settings

On the Extended Network page, you can enable or disable the wireless network of the extender, change and hide the wireless network name (SSID) of the extender.

- 1) Launch a web browser and type in <http://tplinkrepeater.net>, then go to **Settings->Wireless-> Extended Network** webpage.
- 2) Configure the settings as shown in the figure below.

Extended Network Settings

Extended 2.4GHz:  Enable

Extended 2.4GHz SSID:

Hide SSID broadcast

Extended 2.4GHz password is the same as the Host password.

Extended 5GHz:  Enable

Extended 5GHz SSID:

Hide SSID broadcast

Extended 5GHz password is the same as the Host password.

- ◆ **Extended 2.4GHz/5GHz:** Enable or disable the 2.4GHz/5GHz wireless function of the extender.
  - ◆ **Extended 2.4GHz/5GHz SSID:** Either copy the host SSID or create a new name using up to 32 characters. This field is case-sensitive.
  - ◆ **Hide SSID broadcast:** Select this checkbox if you want to hide the extender's SSID (of the 2.4GHz or 5GHz wireless network) from the Wi-Fi network list. If you want to connect to the hidden SSID, please enter the SSID and the password manually.
- 3) Click **Save** to save the settings.



# Manage the Extender's Wi-Fi Security Settings

## Change your Admin Account

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->System Tools->Admin Account** webpage.
- 2) Create a new username and password as shown in the figure below.

Admin Account

Old Username: admin

Old Password: .....

New Username: myre

New Password: .....

Low Middle High

Confirm Password: ..... ✓

Save

- ◆ **Old Username:** Enter your current username.
- ◆ **Old Password:** Enter your current password.
- ◆ **New Username:** Enter your new username.
- ◆ **New Password:** Enter your new password.
- ◆ **Confirm Password:** Re-enter your new password.

- 3) Click **Save** to save the settings.

## Control the Wireless Devices Access to the Extender

The Access Control function controls the devices connected to the extender by the wireless connection. For increased security, you can restrict access to the Wi-Fi network of your extender to allow only specific Wi-Fi devices in the white list. Devices that are in the black list cannot join the wireless network of the extender.

### Blacklist Mode

The devices in the Blacklist are not allowed to connect to the extender.

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->Wireless-> Access Control** webpage.
- 2) Click the button to enable the Access Control function.

Access Control: On


- 3) Select **Blacklist** as shown in the figure below, then click **Save** to save the settings.

Access Mode


Default Access Mode:  Blacklist  Whitelist

4) Add the device to the blacklist by following the ways.

- Add the Online Devices to the blacklist.

In the Online Devices list, you can view the information about the devices connected to the extender. For one device, you can click the icon  to add the device to the blacklist. For several devices, select them and click **Block** to add them at the same time.

Online Devices

<input type="checkbox"/>	ID	Device Name	IP Address	MAC Address	Connection Type	Modify
<input type="checkbox"/>	1	SophianiPhone77	192.168.0.101	70-14-A6-C7-40-84	Wireless	

- Add the device to the blacklist manually, if the device is not in the Online Devices list.

Click **Add**. Then enter the device name and MAC address in the figure below.

Devices in Blacklist

<input type="checkbox"/>	ID	Device Name	MAC Address	Modify
--	--	--	--	--

Device Name:

MAC Address:

- ◆ **Device Name:** Enter the device name.
- ◆ **MAC Address:** Enter the MAC address of the host in XX-XX-XX-XX-XX-XX format (e.g. 00-11-22-33-44-AA).

5) Click **OK** to save your settings.

### Whitelist Mode

Only the devices in the Whitelist are allowed to connect to the extender.

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->Wireless-> Access Control** webpage.
- 2) Click the button to enable the Access Control function.

Access Control:

- 3) Select **Whitelist** as shown in the figure below, then click **Save** to save the settings.

Access Mode

Default Access Mode:  Blacklist  Whitelist

4) Click the Add button.

Online Devices

ID	Device Name	IP Address	MAC Address	Connection Type
1	SophianiPhone77	192.168.0.101	70-14-A6-C7-40-84	Wireless

Devices in Whitelist

ID	Device Name	MAC Address	Modify
--	--	--	--

Device Name:

MAC Address:

- ◆ **Device Name:** Enter the device name.
- ◆ **MAC Address:** Enter the MAC address of the host in XX-XX-XX-XX-XX-XX format (e.g. 00-11-22-33-44-AA).

5) Click **OK** to save your settings.

### Modify or Remove a Device in the Blacklist/Whitelist

- 1) Launch a web browser and type in <http://tplinkrepeater.net>, then go to **Settings->Wireless-> Access Control** webpage.
- 2) You can modify or remove the devices in the Blacklist or Whitelist.

<input type="checkbox"/>	ID	Device Name	MAC Address	Modify
<input type="checkbox"/>	1	my phone	2A-47-56-85-67-10	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	2	host	48-89-11-25-57-95	<input type="checkbox"/> <input type="checkbox"/>

- Modify a Device in the Blacklist or Whitelist.

Click the icon , and then enter the device name and MAC address. Click **OK** to save the settings.

Device Name:

MAC Address:

- Remove a Device in the Blacklist or Whitelist.

For one device, you can click the icon  to remove the device from the list. For several devices, select them and click **Delete** to remove them at the same time.

# Change the Extender's IP Address

By default, the extender is set to obtain an IP address automatically from the front router. If you want to use a specific IP address appropriate to your network demand, please refer to the steps below.



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) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->Network** webpage.
- 2) Select **Use the following IP address**, then enter the IP address and gateway manually.

Host Network IP Address

Obtain an IP address automatically

Use the following IP address

IP address:

Subnet:

Default gateway:

- ◆ **IP Address:** Enter the IP address in dotted-decimal notation (192.168.0.254 by default).

- ◆ **Subnet:** Enter the subnet mask in dotted-decimal notation that determines the size of the network (255.255.255.0 by default).
- ◆ **Default Gateway:** 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.

- 3) Click the **Save** button to save the settings.

## DHCP Server

DHCP stands for Dynamic Host Configuration Protocol. The DHCP Server will automatically assign dynamic IP addresses to the devices on the network. This protocol simplifies network management and allows new wireless devices to be set to IP addresses automatically.



To use the DHCP server function of the device, you should configure all computers as "Obtain an IP Address automatically" mode.

## Settings

- **Set the DHCP Server status to Auto (by default)**

When the DHCP Server is Auto, the extender automatically detects to find the devices enabling the DHCP Server. If the DHCP Server of the device is enabled, the extender's DHCP Server is disabled. Otherwise, the extender's DHCP Server is enabled. The default is Auto.

- **Enable DHCP Server**

When the DHCP Server is **On**, please make sure that IP Address Pool, Default Gateway for the DHCP server and LAN IP address are in the same segment as the router. Otherwise, the extender cannot access the Internet.

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->Network** webpage.
- 2) If the DHCP Server is **On**, please configure it as shown in the figure below.

DHCP Server Settings

DHCP Server:  Auto  On  Off

IP Address Pool: 192.168.0.100 - 192.168.0.199

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

Default Gateway: 192.168.0.254 (Optional)

Primary DNS: 0.0.0.0 (Optional)

Secondary DNS: 0.0.0.0 (Optional)

Save

- ◆ **IP Address Pool:** Enter a range of IP address that can be leased to the clients. By default, the starting IP address is 192.168.0.100 and the ending IP address is 192.168.0.199.
- ◆ **Address Lease Time:** Enter the time duration that an IP address is leased to the client, between 1 and 2880 minutes. The default is 1 minute.
- ◆ **Default Gateway (Optional):** Enter the LAN IP address of your host network.

- ◆ **Primary DNS (Optional):** Enter the DNS IP address provided by your ISP.
- ◆ **Secondary DNS (Optional):** Enter the second DNS IP address provided by your ISP.

- 3) Click **Save** to save your changes.

- **Disable DHCP Server**

If the DHCP server of the extender is **Off**, please make sure the DHCP server of your router is on. Otherwise, you have to configure the IP address for each client manually.

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->Network** webpage.
- 2) Select **Off**, then click **Save** to save the settings.

## View the DHCP Client List

The DHCP Client List displays the Client Name, MAC Address, Assigned IP and Lease Time for each DHCP Client attached to the device.

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then log in to **Settings->Network** webpage.
- 2) You can view the information of the DHCP clients connected to the extender in the DHCP Client List.

DHCP Client List

Client Number: 1 🔄 Refresh

ID	Client Name	MAC Address	Assigned IP Address	Lease Time
1	WIN7-PC	D4-3D-7E-BF-61-5F	192.168.0.100	00:00:31

- ◆ **Client Name:** The name of the DHCP client.
- ◆ **MAC Address:** The MAC address of the DHCP client.
- ◆ **Assigned IP Address:** The IP address that is allocated to the client by the DHCP server.
- ◆ **Lease Time:** The time duration that the IP address is leased to the DHCP client.

Click **Refresh** to refresh the DHCP Client List.

# 5

## More Functions

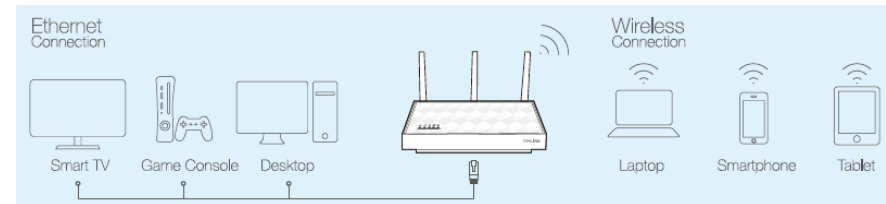
This chapter covers the following topics:

- **Entertainment Adapter**

## Entertainment Adapter

The extender RE580D can be used as a wireless adapter to connect any Ethernet-enabled device, such as a Blu-ray player, game console, DVR, or smart TV, to your wireless network.

After the extender connected to the Internet, you can connect an Ethernet-enabled device to the extender using an Ethernet cable.



By default, the Ethernet ports connect to the 5GHz wireless network. If you want the extender to connect to the 2.4GHz wireless network only, please follow the steps below to finish the settings:

- 1) Launch a web browser and type in **<http://tplinkrepeater.net>**, then go to **Settings->Network** webpage.
- 2) Select the radio button **2.4GHz** in the following figure.

The screenshot shows a web form titled 'Ethernet Port'. Below the title, there is a label 'Host Network for the Ethernet port:' followed by two radio buttons. The first radio button is labeled '2.4GHz' and is unselected. The second radio button is labeled '5GHz' and is selected, indicated by a green dot. At the bottom right of the form, there is a green button labeled 'Save'.

- 3) Click **Save** to save the settings.

# 6

## Manage the Extender

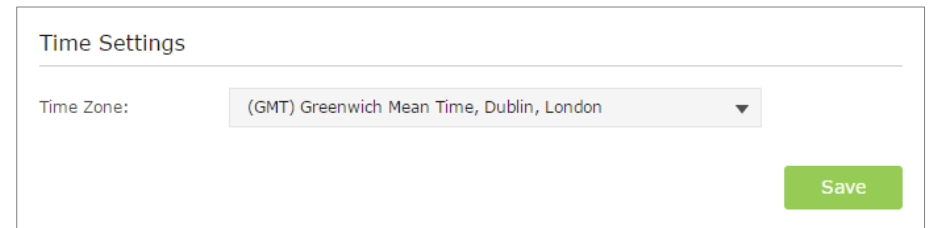
This chapter covers the following topics:

- **LED Control**
- **Firmware Upgrade**
- **Backup & Restore**
- **Factory Defaults**
- **System Log**
- **Reboot**
- **Logout**

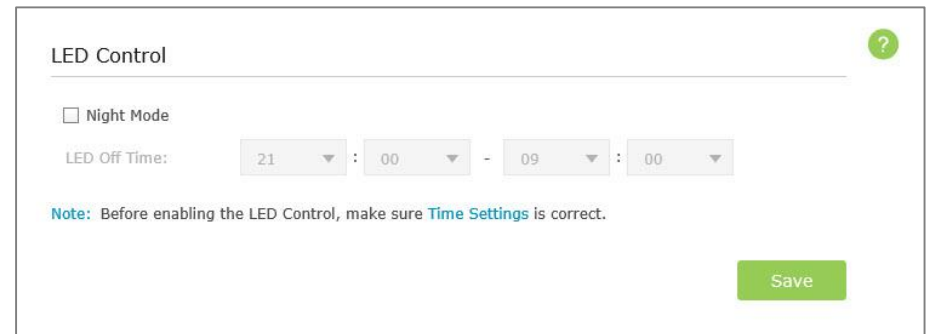
## LED Control

LED Control can turn off the LEDs at the specific time. The extender can still work normally after the LEDs are off.

- 1) Launch a web browser and type in <http://tplinkrepeater.net>, then go to **Settings-> System Tools -> Time Settings** webpage. Select the Time Zone of your location. Click **Save** to save your settings.



- 2) Go to **Settings-> System Tools -> LED Control** webpage, then set the time to turn off the LEDs.



- **Night Mode:** If the Night Mode box is checked, all the LEDs are off in the setting time.



- **LED Off Time:** Set the time to turn off the LEDs.

Click **Save** to save your settings.



Please DO NOT power off the extender during the upgrade process.

## Firmware Upgrade

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->System Tools->Firmware Upgrade** webpage.
- 2) You can view the firmware version and the software version. Search the latest firmware of your extender from the Support page at **www.tp-link.com**. Then download the latest firmware upgrade file to your computer.
- 3) Click **Browse** to locate and select the downloaded file.

Firmware Upgrade

---

New Firmware File:  **Browse**

Firmware Version: 1.0.0 Build 20150609 Rel. 42091

Hardware Version: RE580D v1.0

**Upgrade**

- 4) Click **Upgrade**. The upgrade takes a few minutes to complete and the extender will automatically reboot itself when finished.

## Backup & Restore

It is highly recommended to backup your current configurations, in case a recovery is needed to restore the system to a previous state or from the factory defaults.

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->System Tools->Backup & Restore** webpage.
- 2) Backup and restore the configuration on the **Backup & Restore** page.

- **Configuration Backup**

Click **Backup** to save your current configurations as a config.bin file on your computer. Make sure to save it in a safe location where you can retrieve it when needed.

Backup

---

Save a copy of your current settings.

**Backup**



Please DO NOT power off the extender during the backup process.

## • Configuration Restore

Click **Browse** to locate and select your backup file. Click **Restore** and then **YES** to restore the extender. The restore process may take a few minutes to complete and the extender will automatically reboot itself when finished.

Restore

---

Restore saved settings from a file.

File:



Please DO NOT power off the extender during the restore process.

## Factory Default Restore

Revert all settings to factory defaults.



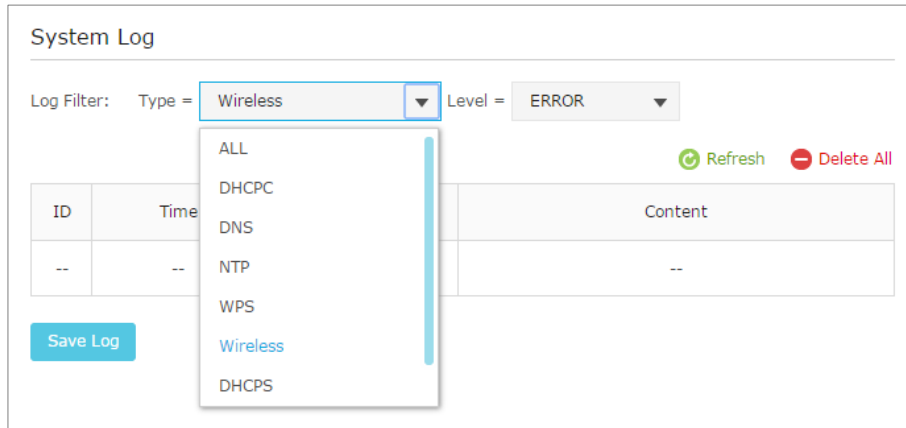
Factory Restore will erase all settings that you have configured for the extender. To re-login to the extender's management page, use the default admin for both username and password.

## System Log

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->System Tools-> System Log** webpage.
- 2) You can select the Log Type and Log Level in the Log Filter drop-down list. Here you can quickly trace the logs which you want to view.

## Factory Defaults

- 1) Launch a web browser and type in **http://tplinkrepeater.net**, then go to **Settings->System Tools-> Backup & Restore** webpage.
- 2) Click **Factory Restore** to reset your extender to its factory default settings in the figure below.



You can also click the following buttons to apply the settings.

- ◆ Click **Refresh** to update the system log.
- ◆ Click **Delete All** to permanently remove all logs.
- ◆ Click **Save Log** to save the system log as a **.txt** file on your computer.

## Reboot

- 1) Launch a web browser and type in **<http://tplinkrepeater.net>**.
- 2) Click **Reboot** on the top right corner to reboot the extender.

## Logout

- 1) Launch a web browser and type in **<http://tplinkrepeater.net>**.
- 2) Click **Logout** on the top right corner to log out the management webpage safely.

# 7

## Appendix

This chapter covers the following topics:

- **Factory Defaults**
- **Troubleshooting**
- **Specifications**
- **Glossary**

## Factory Defaults

Name	Status
Common Default Settings	
Username	admin
Password	admin
IP Address	192.168.0.254
Subnet Mask	255.255.255.0
Domain	http://tplinkrepeater.net
Wireless	
SSID	2.4GHz: TP-LINK_Extender_2.4GHz 5GHz: TP-LINK_Extender_5GHz
Wireless Security	Disabled
Access Control	Disabled

# Troubleshooting

## T1. How do I restore my extender's configuration to its factory default settings?

There are two ways to reset the extender:

- Option One: With the extender powered on, use a pin to press and hold the RESET button until all LEDs turn on momentarily, then release the button.
- Option Two: Restore the default settings from “**System Tools > Restore & Backup**” of the extender's Web-based Management page.



Once the extender is reset, the current configuration settings will be lost and you will need to reconfigure it.

## T2. What can I do if I forget my login password?

- Restore the extender's configuration to its factory default settings. If you don't know how to do that, please refer to previous **T1**;
- Use the default username and password: admin, admin;
- Try to reconfigure your extender by following the instructions of this guide.

## T3. What can I do if I cannot access the web-based configuration page?

- Check to verify all the connections (either wireless or wired ones) are proper. If yes, please proceed to the next step; otherwise, check the connections again.
- Try to obtain an IP address and gateway; if succeed, open your web-

browser, enter the default domain `http://tplinkrepeater.net` in the address field and get logged in. If you are unable to log in, please RESET the device, and then use the default IP address to get into the web-based configuration page, reconfigure the device.

- Feel free to contact our technical support, if the problem still persists.

## T4. How can I know that my wireless signal has been repeated and boosted by RE580D?

An easy way is to compare the signal strength of your target wireless network (symbolized by its SSID), with RE580D in operation vs. out of operation. Before comparison, you'd better make sure your computer can obtain an IP address from your target wireless network and thus access the Internet, either via RE580D or without.

## T5. Will the extender work if I connect the ETHERNET port of it to the router via Ethernet cable?

Sorry, it won't work. The extender is designed to connect wirelessly to the router, while the ETHERNET port is designed to connect with a wired device, like Internet TV, Gaming console, DVR and so on.

## T6. Why does the wireless transmission rate speed down, while the wireless signal is stronger after repeated by RE580D?

In compliance with the wireless transmission protocol, all the extender devices are set to work in half-duplex instead of full-duplex mode. In other words, the extender has to process one-way communication between your root Wireless router (or AP) and the terminal clients; so the transmission time will be double-increased, while the speed will be decreased. TP-LINK recommends that you connect to the extender when your home network connection is poor, or when you want a larger wireless coverage to eliminate “dead zones”.

# Specifications

General	
Standards and Protocols	IEEE 802.3, IEEE 802.3u, IEEE 802.11a, IEEE 802.11n, IEEE 802.11b, IEEE 802.11g, IEEE 802.1x, IEEE 802.11e, IEEE 802.11i, IEEE 802.11ac, TCP/IP, DHCP
Safety & Emission	CE
Ports	One 10/100/1000M Auto-Negotiation LAN RJ45 port
Antennas	Omni Directional antenna with 1.59dBi gain(2.4G) and 1.03dBi gain(5GB1)1.43dBi gain(5GB4)
Wireless	
Frequency Band	2.4GHz: 2.4~2.4835GHz 5GHz: 5.15~5.25GHz, 5.725~5.85GHz
Radio Data Rate	2.4GHz: 11n: up to 600Mbps 11g: 54/48/36/24/18/12/9/6Mbps 11b: 11/5.5/2/1Mbps 5GHz: 11ac: up to 1300Mbps 11a: 54/48/36/24/18/12/9/6Mbps

Security	WEP, WPA-PSK, WPA2-PSK
Physical and Environment	
Working Temperature	0°C~40°C (32°F~104°F)
Working Humidity	10% ~ 90% RH, Non-condensing
Storage Temperature	-40°C~70°C(-40°F~158°F)
Storage Humidity	5% ~ 95% RH, Non-condensing

## Glossary

- 802.11b** - The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- 802.11g** - specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- 802.11n** - 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for

interoperability of next-generation wireless local area networking (WLAN) products.

- **Access Point (Range Extender)** - A wireless LAN transceiver or "base station" that can connect a wired LAN to one or many wireless devices. Access points can also bridge to each other.
- **DNS** (Domain Name System) – An Internet Service that translates the names of websites into IP addresses.
- **Domain Name** - A descriptive name for an address or group of addresses on the Internet.
- **DoS** (Denial of Service) - A hacker attack designed to prevent your computer or network from operating or communicating.
- **DSL** (Digital Subscriber Line) - A technology that allows data to be sent or received over existing traditional phone lines.
- **ISP** (Internet Service Provider) - A company that provides access to the Internet.
- **MTU (Maximum Transmission Unit)** - The size in bytes of the largest packet that can be transmitted.
- **SSID** - A Service Set Identification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- **WEP** (Wired Equivalent Privacy) - A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- **Wi-Fi** –A trademark of the Wi-Fi Alliance and the brand name for products using the IEEE 802.11 family of standards.

- **WLAN** (Wireless Local Area Network) - A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.
- **WPA (Wi-Fi Protected Access)** - WPA is a security technology for wireless networks that improves on the authentication and encryption features of WEP (Wired Equivalent Privacy). In fact, WPA was developed by the networking industry in response to the shortcomings of WEP. One of the key technologies behind WPA is the Temporal Key Integrity Protocol (TKIP). TKIP addresses the encryption weaknesses of WEP. Another key component of WPA is built-in authentication that WEP does not offer. With this feature, WPA provides roughly comparable security to VPN tunneling with WEP, with the benefit of easier administration and use. This is similar to 802.1x support and requires a RADIUS server in order to implement. The Wi-Fi Alliance will call this, WPA-Enterprise. One variation of WPA is called WPA Pre Shared Key or WPA-Personal for short - this provides an authentication alternative to an expensive RADIUS server. WPA-Personal is a simplified but still powerful form of WPA most suitable for home Wi-Fi networking. To use WPA-Personal, a person sets a static key or "passphrase" as with WEP. But, using TKIP, WPA-Personal automatically changes the keys at a preset time interval, making it much more difficult for hackers to find and exploit them. The Wi-Fi Alliance will call this, WPA-Personal.