

Easy Wi-Fi Extension Flexible Placement AC 1900 Wi-Fi Range Extender RE580D

1910011262 REV 1.0.0

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FCC STATEMENT

FC

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 colocated 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

€1588

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	
Italy		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

Note: Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

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

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.

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

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

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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EHC

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		

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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

EN 301 893 V1.7.1

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 61000-3-2:2006+A1:2009+A2:2009

EN 61000-3-3:2013

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

EN 62311:2008

The product carries the CE Mark:

CE1588

Person responsible for marking this declaration:

Yang Hongliang Product Manager of International Business

Date of issue: 2015-06-19

TP-LINK TECHNOLOGIES CO., LTD.

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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 <u>Using WPS</u> on the back panel.

Option Two: <u>Using your Web Browser</u> 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.

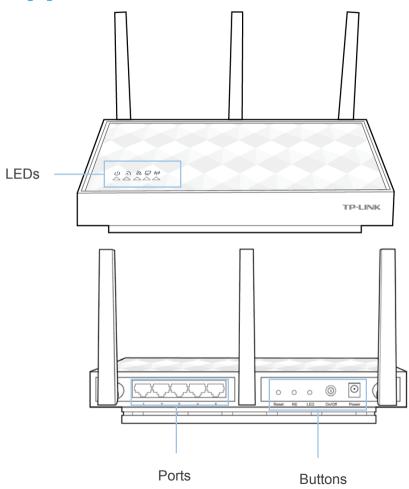
Support for the 802.11ac wireless technology

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

 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.

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.



Connect the Extender to the Internet

This chapter covers the following topics:

- Before You Begin
- Basic Requirements
- Quick Setup

Before You Begin

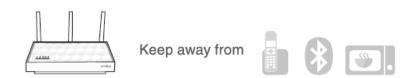
Please read this guide carefully before installing and using the device. The operating distance range of your wireless connection can vary significantly depending on the physical position of the wireless devices. Factors that can weaken signals by getting in the way of your network's radio waves are 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.



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 $0^{\circ}C \sim 40^{\circ}C$ (32°F $\sim 104^{\circ}F$).
- Operating humidity of the extender should be 10%~90%RH (Noncondensing).

Quick Setup

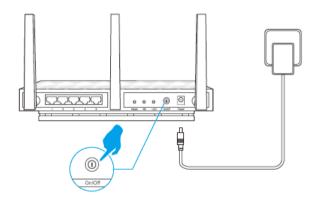
Using WPS (Wi-Fi Protected Setup)



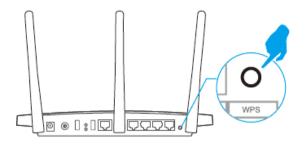
Your router should support WPS. Otherwise, please use <u>Using</u> your web browser.

Power On

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

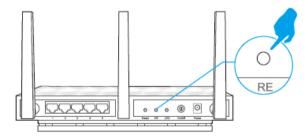


- 2 Connect
 - 1) Press the **WPS button** on your router/AP.



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 《合》 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 <u>Using your Web Browser</u>.

- Some ISP gateways disable the WPS function by default, if the WPS method fails, please refer to <u>Using</u> 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 (A) LED is lit with a solid blue. If not, relocate the extender closer to the router to achieve a good (or better) signal quality.



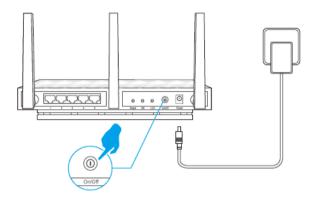
Enjoy!

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

Using your Web Browser

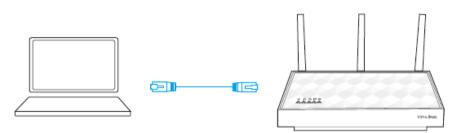
Power On

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



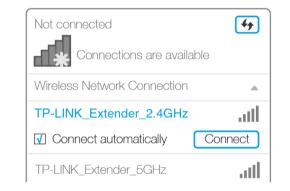
2 Connect to the Extender

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



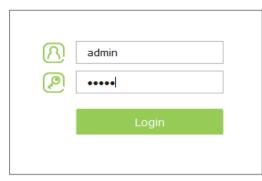
• Connecting via Wireless

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.



4 Configure

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

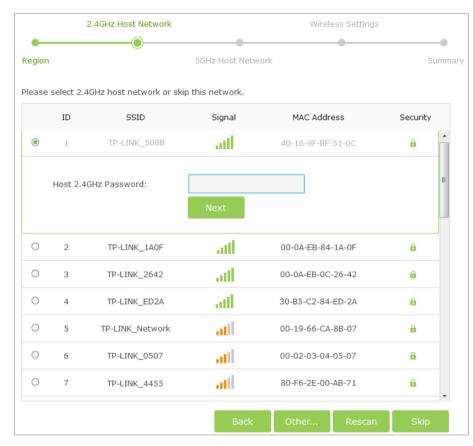
Create a new use	ername and pas	sword.
New Username:	username	
New Password:	•••••	
Confirm Password:	Low Middle H	igh 🕑

2) Select your region, then click **Next**.

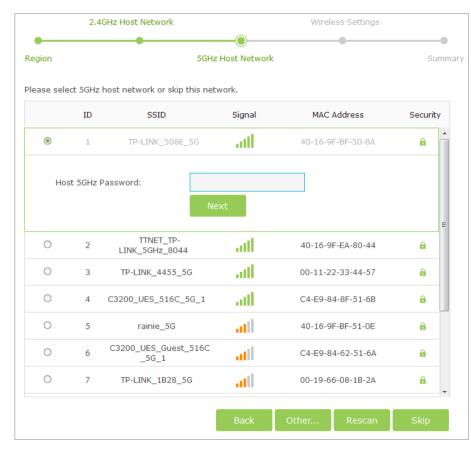
	0	0	0	0
Region		5GHz Host Network		Summar
Region:	China		*	
			Exit	Next

Per FCC regulations, all Wi-Fi products marketed in the U.S. are fixed to the U.S. region.

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



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

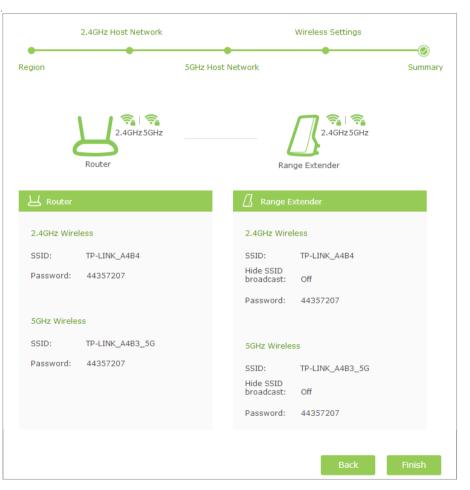


If your router does not support 5GHz wireless network, please click Skip to continue.

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



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



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 《合》 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!

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.



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

- 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.
(î:	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

- 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.





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.

- 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.

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

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

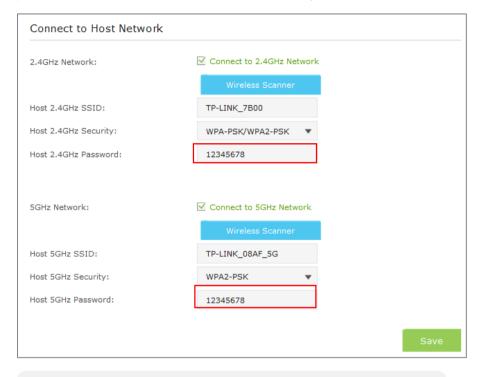
lect a 2.4GH	z Host Network			
				🕝 Rescar
	SSID	Signal	MAC Address	Security
0	TP-LINK_7B00	atl	00:0A:EB:13:7B:00	â
0	and-Business	atl	80:F6:2E:0A:A3:62	ď
0	CMCC-WEB	atl	80:F6:2E:0A:A3:60	o
0	CMCC-FREE	atl	80:F6:2E:0A:A3:63	ď
0	CMCC	atl	80:F6:2E:0A:A3:61	â
0	CMCC	atl	80:F6:2E:00:AB:71	â
0	and-Business	atl	80:F6:2E:00:AB:72	o
0	CMCC-WEB	atl	80:F6:2E:00:AB:70	o î
0	iTV-A94x	atl	38:E5:95:BE:18:4D	â
0	TP-LINK_4300	atl	00:16:6C:19:43:00	â 🔽

If the second se

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/ AP. 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.



(

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/AP (Host Network) and the Wi-Fi dead zone.

Wait for the extender to reconnect and the (A) 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 <u>Extended Network</u>.

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.

- 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.

ended 2.4GHz:	🗹 Enable	
ended 2.4GHz SSID:	TP-LINK_Extender_2.4GHz	Copy Host SSID
	Hide SSID broadcast	
nded 2.4GHz passwor	d is the same as the Host passwo	rd.
ended 5GHz:	🗹 Enable	
ended 5GHz: ended 5GHz SSID:	✓ Enable TP-LINK_Extender_5GHz	Copy Host SSID
		Copy Host SSID

- Extended 2.4GHz/5GHz: Enable or disable the 2.4GHz/5GHz host network.
- 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/5GHz wireless network) from the Wi-Fi network list. If you want to connect to the hiden SSID, please enter the SSID and the password manaully.
- 3) Click **Save** to save the settings.

Manage the Extender's Wi-Fi Security Settings

Change your Admin Account

- 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:	•••••	

- 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.

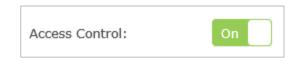
Control the Wireless Devices Access to the Extender

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.

- 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.



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

Access Mode			
Default Access Mode:	Iacklist	O Whitelist	
			Save

- 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 \bigcirc to add the device to the blacklist. For several devices, select them and click **Block** to add them at the same time.

				🕜 Refresh	S Block
ID	Device Name	IP Address	MAC Address	Connection Type	Modify
1	SophianiPhone77	192.168.0.101	70-14-A6-C7-40-84	Wireless	\odot

• 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.

			C	Add 😑 Delet
ID	Dev	ice Name	MAC Address	Modify
Dev	ice Name:	Intruder		
MAC	Address:	28-05-26-06-68-12		
			Cancel	ОК

- **Device Name:** Enter the device name.
- MAC Address: Enter the MAC address of the host in XX-XX-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.

- 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.



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

Access Mode			
Default Access Mode:	🔘 Blacklist	Whitelist	
			Save

4) Click the Add button.

								🕜 Refre
ID	De	Device Name IP Address MAC Address		Connection Type		De		
1	So	phianiPhone7 7	192.168.0.101	70-14-A6-C7-40-84		Wireless		
		n Whitelist					🕂 Add	🖨 Dele
	ID	1	Device Name		MA	MAC Address		Modify
		ce Name:		niphone77				
	Devi	ce Name: Address:	Sophiar	1iphone77 A6-C7-40-84				

- Device Name: Enter the device name.
- **MAC Address:** Enter the MAC address of the host in XX-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

- 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.

ID	Device Name	MAC Address	Modify
1	my phone	2A-47-56-85-67-10	20
2	host	48-89-11-25-57-95	0 1

Modify a Device in the Blacklist or Whitelist.

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

Device Name:	my phone		
MAC Address:	2A-47-56-85-67-10		
		Cancel	ок

Remove a Device in the Blacklist or Whitelist.

For one device, you can click the icon it 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.

- 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 Ad	ldress		
	 Obtain an IP address autor 		
	Ose the following IP address	S	
IP address:	192.168.0.254		
Subnet:	255.255.255.0		
Default gateway:	192.168.0.254		
			Save

 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 in the LAN 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. Otherwises, 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 segmengt as the router. Otherwises, the extender cannot access the Internet.

- 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 bleow.

DHCP Server Setting	S		
DHCP Server:	🔿 Auto 💿 On 🔿 Of	ff	
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.

- 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.

- 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.

ient Nu	mber: 1			🕝 Refres
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.



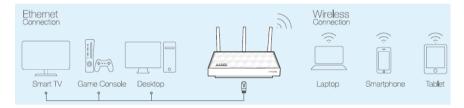
This chapter covers the following topics:

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 Ethernetenabled 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:

- 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.

SGHz	
	Save
	● 5GHz

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



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.

 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.

Time Settings			
Time Zone:	(GMT) Greenwich Mean Time, Dublin, London	•	
			Save

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

Off Time: 2										
		14	00	∇	Ξ	09		: 00	Ŧ	
			00					00		
Before enabling the LE	D Control,	make	e sure	Time s	Setti	ngs is co	orrect.			
Before enabling the LE	D Control,	make	e sure	Time s	Setti	ngs is co	orrect.			

 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.

Firmware Upgrade

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



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



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

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.

- 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.





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 sav	ed settings from a file.		
File:		Browse	
			Restore
		or off the extender during the res	toro

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

Factory Defaults

- 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.

Factory Restore

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

- 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.

Log Filter:	Type =	Wireless	T L	evel =	ERROR			
						-		
		ALL					🕝 Refresh	😑 Delete All
	_	DHCPC				-		
ID	Time	DNS				Cor	ntent	
		NTP						
		WPS						
Save Log		Wireless						
		DHCPS	1					

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.



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						
	2.4GHz: TP-LINK_Extender_2.4GHz					
SSID	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 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 webbrowser, 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
Wireless	
Frequency Band	2.4GHz: 2.4~2.4835GHz 5GHz: 5.15~5.25GHz
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 Environr	nent

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 directsequence 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.