

User Guide

AC1200 Dual Band Wi-Fi Router Archer C54

REV1.0.0 1910012708

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About This Guide

This guide is a complement of Quick Installation Guide. The Quick Installation Guide instructs you on quick internet setup, and this guide provides details of each function and shows you the way to configure these functions appropriate to your needs.

When using this guide, please note that features available of the router may vary by model and software version. Router's availability may also vary by region or ISP. All images, steps, and descriptions in this guide are only examples and may not reflect your actual experience.

Conventions

In this guide the following conventions are used:

Convention	Description
Underlined	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, Advanced > Wireless > MAC Filtering means the MAC Filtering function page is under the Wireless menu that is located in the Advanced tab.
Note:	 Ignoring this type of note might result in a malfunction or damage to the device.
Ø Tips:	Indicates important information that helps you make better use of your device.
Symbols on the web page	 Click to edit the corresponding entry. Click to delete the corresponding entry. Click to enable or disable the corresponding entry. Click to view more information about items on the page.

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

*Use of MU-MIMO requires clients to also support MU-MIMO.

More Info

- The latest software, management app and utility can be found at Download Center at https://www.tp-link.com/support.
- The Quick Installation Guide can be found where you find this guide or inside the package of the router.
- Specifications can be found on the product page at https://www.tp-link.com.
- A TP-Link Community is provided for you to discuss our products at <u>https://community.tp-link.com</u>.
- Our Technical Support contact information can be found at the Contact Technical Support page at https://www.tp-link.com/support.

Chapter 1

Get to Know About Your Router

This chapter introduces what the router can do and shows its appearance. It chapter contains the following sections:

- Product Overview
- Appearance

1.1. Product Overview

Enjoy internet with the dual-band Wi-Fi and 4 fast LAN ports. Equipped with 4 omnidirectional antennas, Archer C54 generates a 2.4 GHz Wi-Fi across your house and a fast 5 GHz Wi-Fi, letting the whole family enjoy reliable Wi-Fi on every device.

Moreover, it is simple and convenient to set up and use the TP-Link router due to its intuitive web interface and the powerful Tether app.

1.2. Appearance

1. 2. 1. Top Panel



The router's LEDs (view from left to right) are located on the front. You can check the router's working status by following the LED Explanation table.

LED Explanation:

LED	Status	Indication
	On	Power is on.
(Power)	Blinking	Blinking slowly: The system is starting up or firmware upgrade is in progress. Blinking quickly: WPS connection is in progress.
	Off	Power is off.

LED	Status	Indication
2 (2.4GHz	On	The 2.4GHz wireless band is enabled.
Wireless)	Off	The 2.4GHz wireless band is disabled.
(5GHz	On	The 5GHz wireless band is enabled.
Wireless)	Off	The 5GHz wireless band is disabled.
🖵 (LAN)	On	At least one powered-on device is connected to the router's LAN port.
	Off	No powered-on device is connected to the router's LAN port.
	Green On	Router Mode: Internet is available. Access Point Mode: The WAN port is connected. Range Extender Mode: The router is connected to the host network.
Ø (Internet)	Orange On	The WAN port is connected, but internet is not available.
(internet)	Off	Router Mode: The WAN port is not connected. Access Point Mode: The WAN port is not connected. Range Extender Mode: The router is not connected to the host network.

1. 2. 2. The Back Panel



The following parts (view from left to right) are located on the back panel.

Button and Port Explanation

Item	Description
Power Port	For connecting the router to a power socket via the provided power adapter.
WAN Port	For connecting to a DSL/Cable modem, or an Ethernet jack.
LAN Ports (1/2/3/4)	For connecting your PC or other wired devices to the router.
	Press the button for 1 second, and immediately press the WPS button on your client to start the WPS process.
WPS/RESET Button	Press and hold the button until all LEDs turn off to reset the router to its factory default settings.
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.

1.2.3. The Bottom

You can find the product label at the bottom of the router, then use default information on it to connect to the router.



Note:

- 1. Use the default network names (SSIDs) and password to join the networks. Or scan the QR code to join the preset 2.4 GHz network directly.
- 2. Internet is not available until network setup completed.

Chapter 2

Connect to the Internet

This chapter contains the following sections:

- Position Your Router
- Connect to the Internet

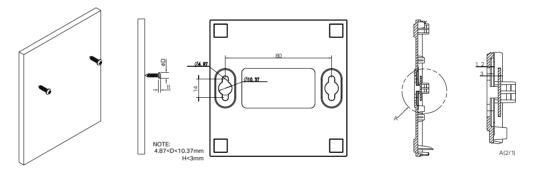
2.1. Position Your Router

With the router, you can access your network from anywhere within the wireless network coverage. However, the wireless signal strength and coverage vary depending on the actual environment of your router. Many obstacles may limit the range of the wireless signal, for example, concrete structures or thick walls.

For your security and best Wi-Fi performance, please:

- Do NOT locate the router in a place where it will be exposed to moisture or excessive heat.
- Keep away from the strong electromagnetic radiation and the device of electromagnetic sensitive.
- Place the router in a location where it can be connected to the various devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way to avoid a tripping hazard.

Generally, the router is placed on a horizontal surface, such as on a shelf or desktop. The device also can be mounted on the wall as shown in the following figure.



Note:

The diameter of the screw, 4.87mm<D<10.37mm, and the distance of two screws is 80mm. The screw that project from the wall need around 4mm based, and the length of the screw need to be at least 20mm to withstand the weight of the product.

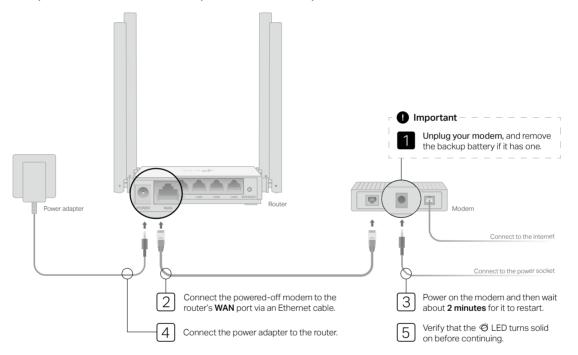
2.2. Connect to the Internet

The Router provides three working modes: Wireless Router, Range Extender and Access Point. You can choose the mode to better suit your network needs and follow the guide to complete the configuration.

2. 2. 1. Wireless Router Mode

1. Follow the steps below to connect your router.

If your internet connection is through an Ethernet cable from the wall instead of through a DSL / Cable / Satellite modem, connect the Ethernet cable directly to the router's WAN port, and then follow Step 4 and 5 to complete the hardware connection.



- 1) Power off the modem, and remove the backup battery if it has one.
- 2) Connect the powered-off modem to the router's **WAN** port with an Ethernet cable.
- 3) Turn on the modem, and then wait about 2 minutes for it to restart.
- 4) Connect the power adapter to the router.
- 5) Verify that the internet LED turns solid before continuing with the configuration.
- 2. Connect your computer to the router.

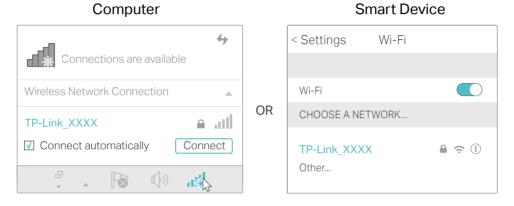
• Method 1: Wired

Turn off the Wi-Fi on your computer and connect your computer to the router's LAN port.

• Method 2: Wireless

- 1) Connect your device to the router's Wi-Fi using the SSID (network name) and Wireless Password printed on the label at the bottom of the router.
- 2) Click the network icon of your computer or go to Wi-Fi Settings of your smart device, and then select the SSID to join the network.

Note: If you are using a smart device, you can also scan the QR code to join the preset 2.4 GHz network directly.

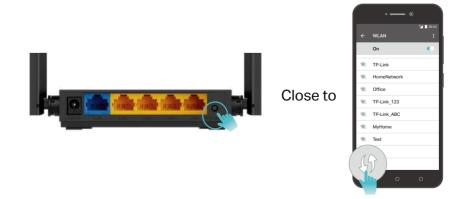


• Method 3: Use the WPS button

Wireless devices that support WPS, including Android phones, tablets, most USB network cards, can be connected to your router through this method.

Note:

- WPS is not supported by iOS devices.
- The WPS function cannot be configured if the wireless function of the router is disabled. Also, the WPS function will be disabled if your wireless encryption is WEP. Please make sure the wireless function is enabled and is configured with the appropriate encryption before configuring the WPS.
- 1) Tab the WPS icon on the device's screen. Here we take an Android phone as an example.
- 2) Immediately press the WPS button on your router.



3. Enter <u>http://tplinkwifi.net</u> in the address bar of a web browser. Create a password to log in.

Ξ

~ > C	1 1	🗅 hi	ttp://1	t <mark>plinkwifi</mark> .net	
-------	-----	------	---------	-------------------------------	--

Create an administrator pass	
For security purposes, create a local pa for login before starting the quick se	
New Password:	
	ø
Please enter 1-32 characters using a combination of numbers and symbols.	
Confirm Password:	
	ø

Note:

If the above screen does not pop-up, it means that your IE Web-browser has been set to a proxy. Go to menu Tools > Internet Options > Connections > LAN Settings, in the screen that appears, untick the Using Proxy checkbox, and click OK.

- 4. Follow the Quick Setup to set up the internet connection.
- 5. Enjoy! For wireless devices, you may have to reconnect to the wireless network if you have customized the SSID (wireless name) and password during the configuration.

2. 2. 2. Range Extender Mode

This mode boosts your home wireless coverage.

- 1. Connect the power adapter to the router.
- 2. Connect a computer to the router via an Ethernet cable or wirelessly by using the SSID (wireless name) and password printed on the bottom label of the router.
- **3.** Enter <u>http://tplinkwifi.net</u> in the address bar of a web browser. Create a password to log in.

$\leftrightarrow \Rightarrow \mathbf{C} \Leftrightarrow$	http://tplinkwifi.net		=

For security purposes, create a local password for login before starting the quick setup. New Password: Please enter 1-32 characters using a combination of numbers and symbols. Confirm Password:	Create an administrator passwo	
Please enter 1-32 characters using a combination of numbers and symbols.		
combination of numbers and symbols.	New Password.	
combination of numbers and symbols.		ø
Confirm Password:		
Ø	Confirm Password:	
		ø
	Let's Get Started	

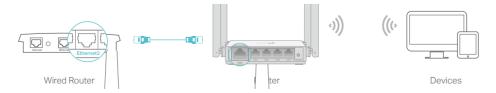
- 4. Click Change Mode in the top right corner and select Range Extender Mode. Wait for the router to reboot.
- 5. Follow the Quick Setup to set up the internet connection.
- 6. Relocate: Place the router between your host router and the Wi-Fi dead zone. The location you choose must be within the range of your existing host network.



7. Enjoy! You can customize the SSID and password of the extended network.

2. 2. 3. Access Point Mode

This mode transforms your existing wired network to a wireless network.



1. Connect the power adapter to the router.

- 2. Connect the router to your wired host router's Ethernet port via an Ethernet cable as shown above.
- **3.** Connect a computer to the router via an Ethernet cable or wirelessly by using the SSID (network name) and password printed on the bottom label of the router.
- 4. Enter <u>http://tplinkwifi.net</u> in the address bar of a web browser. Create a password to log in.

Create an administrator password
For security purposes, create a local password for login before starting the quick setup.
New Password:
ø
Please enter 1-32 characters using a combination of numbers and symbols.
Confirm Password:
Ø
Let's Get Started

Note:

If the above screen does not pop-up, it means that your IE Web-browser has been set to a proxy. Go to menu Tools > Internet Options > Connections > LAN Settings, in the screen that appears, untick the Using Proxy checkbox, and click OK.

- 5. Click Change Mode in the top right corner and select Access Point Mode. Wait for the router to reboot.
- 6. Follow the Quick Setup to set up the internet connection.
- **7.** Enjoy! Connect to the wireless network by using the SSID (network name) and password of the router.

Chapter 3

Log In to the Router

This chapter introduces how to log in to the web management page of the router.

With the web-based utility, it is easy to configure and manage the router. The webbased utility can be used on any Windows, Macintosh or UNIX OS with a Web browser, such as Microsoft the Internet Explorer, Mozilla Firefox or Apple Safari.

Follow the steps below to log in to your router.

- 1. Set up the TCP/IP Protocol in Obtain an IP address automatically mode on your computer.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

← → C ♠ []	http://tplinkwifi.net	
	Log In with Local Password	
	Local Password:	
	LOG IN	
	Forget Password?	

Note:

If the login window does not appear, please refer to the FAQ section.

Chapter 4

Configure the Router in Wireless Router Mode

This chapter presents how to configure the various features of the router working as a wireless router.

It contains the following sections:

- Operation Mode
- <u>Network</u>
- <u>Wireless</u>
- <u>NAT Forwarding</u>
- <u>Parental Controls</u>
- <u>QoS</u>
- Security
- <u>IPv6</u>
- System

4.1. Operation Mode

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Operation Mode.
- 3. Select the working mode as needed and click SAVE.

Operation Mode	
Select an operation mode according to your needs.	
Router Mode(Current) In this mode, the router can provide internet access for multiple wire mode is required most commonly.	d and wireless devices. This
	¢Ę.
 Access Point Mode In this mode, the router changes an existing wired network into a wired 	reless one.
 Range Extender Mode In this mode, the router boosts the existing wireless coverage in you 	ır home.
	«

4.2. Network

4.2.1. Status

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with password you set for the router.
- 2. Go to Advanced > Network > Status. You can view the current status information of the router.

Status		
Internet status overview is displayed on	this page.	
Internet		
	Connected	
Internet Connection Type:	Dynamic IP	
IP Address:	10.0.2.224	
Subnet Mask:	255.255.252.0	
Default Gateway:	10.0.0.1	
Primary DNS:	10.0.0.1	
Secondary DNS:	0.0.0.0	
LAN		
	00-19-66-CA-8B-07	
IP Address:	192.168.0.1	
Subnet Mask:	255.255.255.0	
DHCP Server		
DHCP Server:	Enabled	
IP Address Pool:	192.168.0.100-192.168.0.199	
Dynamic DNS		
Service Provider:	NO-IP	
Host Name:		
	Disconnected	
Status:	Disconnected	

- Internet This field displays the current settings of the internet, and you can configure them on the Advanced > Network > Internet page.
 - Status Indicates whether the router has been connected to the internet.
 - Internet Connection Type Indicates the way in which your router is connected to the internet.
 - IP Address The WAN IP address of the router.
 - Subnet Mask The subnet mask associated with the WAN IP address.
 - Default Gateway The Gateway currently used is shown here. When you use Dynamic IP as the internet connection type, click Renew or Release here to obtain new IP parameters dynamically from the ISP or release them.
 - Primary & Secondary DNS The IP addresses of DNS (Domain Name System) server.

- LAN This field displays the current settings of the LAN, and you can configure them on the Advanced > Network > LAN page.
 - MAC Address The physical address of the router.
 - IP Address The LAN IP address of the router.
 - Subnet Mask The subnet mask associated with the LAN IP address.
- DHCP Server This field displays the current settings of DHCP (Dynamic Host Configuration Protocol) Server, and you can configure them on the Network > DHCP Server page.
 - DHCP Server Indicates whether the DHCP server is enabled of disabled. It is enabled by default and the router acts as a DHCP server.
 - IP Address Pool The IP address range for the DHCP server to assign IP addresses.
- Dynamic DNS This field displays the current settings of the Dynamic DNS (Domain Name System), and you can configure them on the Advanced > Network > Dynamic DNS page.
 - Service Provider The Dynamic DNS service provider you have signed up for.
 - Host Name The Domain Name you have entered in the Dynamic DNS page.
 - Status The status of the Dynamic DNS service conenction.

4.2.2. Internet

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Network > Internet.
- 3. Set up the internet connection and click SAVE.

Dynamic IP

If your ISP provides the DHCP service, please select Dynamic IP, and the router will automatically get IP parameters from your ISP.

Click Renew to renew the IP parameters from your ISP.

Click Release to release the IP parameters.

Set up an internet connection with the se	ervice information provided by your ISP (internet service provider
Internet Connection Type:	Dynamic IP 🗸 🗸
IP Address:	10.0.2.224
Subnet Mask:	255,255,252.0
Default Gateway:	10.0.0,1
Primary DNS:	10.0.0.1
Secondary DNS:	0.0.0.0
	RENEW
	RELEASE
	▼ Advanced Settings
DNS Address:	Get Dynamically from ISP
Primary DNS:	10.0.0.1
Secondary DNS:	0.0.0.0
MTU Size:	1500 bytes
	The default is 1500, do not change unless necessary.
Host Name:	1911 100 100 100

- MTU Size The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU size unless required by your ISP.
- Host Name This option specifies the name of the router.
- Get IP with Unicast DHCP A few ISPs' DHCP servers do support the broadcast applications. If you cannot get the IP address normally, you can choose this option (it is rarely required).

Static IP

If your ISP provides a static or fixed IP address, subnet mask, default gateway and DNS setting, please select Static IP.

Set up an internet connection with the set	rvice information provided by your ISP (internet service provider).
Internet Connection Type:	Static IP V	
IP Address:	0.0.0.0	
Subnet Mask:	0.0.0.0	
Default Gateway:	0.0.0	
Primary DNS:	0.0.0.0	
Secondary DNS:	0.0.0.0	(Optional)
MTU Size:	1500 bytes	

- IP Address Enter the IP address in dotted-decimal notation provided by your ISP.
- Subnet Mask Enter the subnet mask in dotted-decimal notation provided by your ISP. Normally 255.255.255.0 is used as the subnet mask.
- Default Gateway Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- Primary/Secondary DNS (Optional) Enter one or two DNS addresses in dotteddecimal notation provided by your ISP.
- MTU Size The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU size unless required by your ISP.

PPPoE

If your ISP provides PPPoE connection, select PPPoE.

Internet Connection Type: PPPoE Username: Password: PAddress: 0.0.0.0 Primary DNS: 0.0.0 Secondary DNS: 0.0.0.0 Secondary DNS: 0.0.0.0 Secondary DNS: 0.0.0.0 Cecondary Connection: None Advanced Settings Secondary Connection: None None NTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name: (Leave blank unless ISP requires.)		0.0.0.0	Username: Password: IP Address: Primary DNS:
Password: IP Address: 0.0.0.0 Primary DNS: 0.0.0 Secondary DNS: 0.0.0 Secondary DNS: 0.0.0 Advanced Settings Secondary Connection: None MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:	ø	0.0.0.0	Password: IP Address: Primary DNS:
IP Address: 0.0.0.0 Primary DNS: 0.0.0.0 Secondary DNS: 0.0.0.0 Advanced Settings Secondary Connection: None MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:	ø	0.0.0.0	IP Address: Primary DNS:
Primary DNS: 0.0.0.0 Secondary DNS: 0.0.0.0 Advenced Settings Secondary Connection: None MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:		0.0.0.0	Primary DNS:
Secondary DNS: 0.0.0.0 Advanced Settings Secondary Connection: None MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:		0.0.0.0	
Secondary DNS: 0.0.0.0 Advanced Settings Secondary Connection: None MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:		0.0.0.0	
Advanced Settings Secondary Connection: None MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:			
Secondary Connection: None MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:			
MTU Size: 1480 bytes The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:			
The default is 1480, do not change unless necessary. Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:	~		
Service Name: (Leave blank unless ISP requires.) Access Concentrator Name:			MTU Size:
Access Concentrator Name:			Service Name:
	uires.)	(Leave blank unless ISP req	
(Leave blank unless ISP requires.)			Access Concentrator Name:
	uires.)		
Detect Online Interval: 10 seconds	econds	х	Detect Online Interval:
IP Address: Get Dynamically from ISP	~	Get Dynamically from ISP	IP Address:
DNS Address: Get Dynamically from ISP 🗸 🗸	\sim	Get Dynamically from ISP	DNS Address:
Primary DNS: 0.0.0.0		0.0.0.0	Primary DNS:
Secondary DNS: 0.0.0		0.0.0.0	Secondary DNS:
Connection Mode: Auto 🗸			

- User Name/Password Enter the user name and password provided by your ISP. These fields are case-sensitive.
- Secondary Connection It's available only for PPPoE connection. If your ISP provides an extra connection type, select Dynamic IP or Static IP to activate the secondary connection.
- MTU Size The default MTU size is 1480 bytes. It is not recommended that you change the default MTU size unless required by your ISP.
- Service Name The service name should not be configured unless you are sure it is necessary for your ISP. In most cases, leaving these fields blank will work.
- Access Concentrator Name The access concentrator name should not be configured unless you are sure it is necessary for your ISP. In most cases, leaving these fields blank will work.
- Detect Online Interval The router will detect Access Concentrator online at every interval. The default value is 10. You can input the value between 0 and 120. The value 0 means no detect.
- IP Address The default setting is to get an IP address dynamically from your ISP. If your ISP does not automatically assign IP addresses to the router, please select Use the Following IP Address and enter the IP address provided by your ISP in dotteddecimal notation.
- DNS Address The default setting is to get an IP address dynamically from your ISP.If your ISP does not automatically assign DNS addresses to the router, please select Use the Following DNS Addresses and enter the IP address in dotted-decimal notation of your ISP's primary DNS server. If a secondary DNS server address is available, enter it as well.
- Connection Mode Select an appropriate connection mode that determines how to connect to the internet.
 - Auto In this mode, the internet connection reconnects automatically any it gets disconnected.
 - On Demand In this mode, the internet connection will be terminared automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again.
 - Time-based In this mode, the internet connection is only established in a specific timeframe. If this option is selected, enter the start time and end time. Both are in HH:MM format.
 - Manual In this mode, the internet connection is controlled manually by clicking the Connect/Disconnect button. This mode also supports the Max Idle Time function as On Demand mode. Enter a maximum time (in minutes), the internet connection can be inactive before it is terminated into the Max Idle Time. The

default value is 15 minutes. If you want the internet connection remains active all the time, enter 0 (zero).

Note:

Sometimes the connection cannot be terminated although you have specified the Max Idle Time because some applications are visiting the internet continually in the background.

L2TP

If your ISP provides L2TP connection, please select L2TP.

Internet Connection Type:	L2TP	\sim
Usemame:	prine of the largest state over	
Password:	•••	ø
IP Address:	0.0.0	
Primary DNS:	0.0.0.0	
Secondary DNS:	0.0.0.0	
	Oynamic IP	
	O Static IP	
VPN Server IP/Domain Name:		
IP Address:	0.0.0.0	
Subnet Mask:	0.0.0.0	
Default Gateway:	0.0.0	
Primary DNS:	0.0.0.0	
Secondary DNS:	0.0.0.0	
MTU Size:	1460	
	The default is 1460, do not o	change unless necessary.
Connection Mode:	Auto	~

- Username/Password Enter the username and password provided by your ISP. These fields are case-sensitive.
- VPN Server IP/ Domain Name Enter the VPN server's IP address or domain name provided by your ISP.
- MTU Size The default MTU size is "1460" bytes, which is usually fine. It is not recommended that you change the default MTU Size unless required by your ISP.
- Connection Mode
 - Auto In this mode, the internet connection reconnects automatically any it gets disconnected.

- On Demand In this mode, the internet connection will be terminared automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again.
- Manual In this mode, the internet connection is controlled manually by clicking the Connect/Disconnect button. This mode also supports the Max Idle Time function as On Demand mode. Enter a maximum time (in minutes), the internet connection can be inactive before it is terminated into the Max Idle Time. The default value is 15 minutes. If you want the internet connection remains active all the time, enter 0 (zero).

Note:

Sometimes the connection cannot be terminated although you have specified the Max Idle Time because some applications are visiting the internet continually in the background.

PPTP

If your ISP provides PPTP connection, please select PPTP.

PPTP ~	
ee ie 🗸 🗸 🗸	
1	
ø	
0.0.0,0	
0.0.0.0	
0.0.0.0	
Oynamic IP	
O Static IP	
0.0.0.0	
0.0.0.0	
0.0.0.0	
0.0.0.0	
0.0.0.0	
1420	
The default is 1420, do not change ur	nless necessary.
: Auto 🗸	
	 0.0.0.0 1420 The default is 1420, do not change units

• Username/Password - Enter the username and password provided by your ISP. These fields are case-sensitive.

- VPN Server IP/ Domain Name Enter the VPN server's IP address or domain name provided by your ISP.
- MTU Size The default MTU size is "1420" bytes, which is usually fine. It is not recommended that you change the default MTU Size unless required by your ISP.
- Connection Mode
 - Auto In this mode, the internet connection reconnects automatically any it gets disconnected.
 - On Demand In this mode, the internet connection will be terminared automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again.
 - Manual In this mode, the internet connection is controlled manually by clicking the Connect/Disconnect button. This mode also supports the Max Idle Time function as On Demand mode. Enter a maximum time (in minutes), the internet connection can be inactive before it is terminated into the Max Idle Time. The default value is 15 minutes. If you want the internet connection remains active all the time, enter 0 (zero).

Note:

Sometimes the connection cannot be terminated although you have specified the Max Idle Time because some applications are visiting the internet continually in the background.

4. 2. 3. MAC Clone

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Network > Internet and locate the MAC Clone section.
- 3. Configure the WAN MAC address and click SAVE.

MAC Clone			
	Router MAC Address:	Use Default MAC Address	\sim
		Use Default MAC Address	
		Clone Current Device MAC	
NAT		Use Custom MAC Address	

- Use Default MAC Address Do not change the default MAC address of your router in case the ISP does not bind the assigned IP address to the MAC address.
- Use Current MAC Address Select to copy the current MAC address of the computer that is connected to the router, in case the ISP binds the assigned IP address to the MAC address.

• Use Custom MAC Address - Select if your ISP requires you to register the MAC address and enter the correct MAC address in this field, in case the ISP binds the assigned IP address to the specific MAC address.

Note:

- You can only use the MAC Address Clone function for PCs on the LAN.
- If you have changed the WAN MAC address when the WAN connection is PPPoE, it will not take effect until the connection is re-established.

4.2.4. LAN

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Network > LAN.
- 3. Configure the IP parameters of the LAN and click SAVE.

LAN				
View and config	gure LAN settings.			
	MAC Address: (00-19-66-CA-8B-07		
	IP Address:	192.168.0.1		
	Subnet Mask:	255.255.255.0	\sim	

- MAC Address The physical address of the LAN ports. The value can not be changed.
- IP Address Enter the IP address in dotted-decimal notation of your router (the default one is 192.168.0.1).
- Subnet Mask An address code that determines the size of the network. Normally 255.255.255.0 is used as the subnet mask.

Note:

- If you have changed the IP address, you must use the new IP address to log in.
- If the new IP address you set is not in the same subnet as the old one, the IP address pool in the DHCP Server will be configured automatically, but the Virtual Server and DMZ Host will not take effect until they are re-configured.

4.2.5. IPTV

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Network > IPTV/VLAN.
- 3. Configure the WAN MAC address and click Save.

IPTV/VLAN		
Configure IPTV/VLAN settings if you war	nt to enjoy IPTV or VoIP service, or if your ISP requires VL	AN tags.
IPTV/VLAN:	Enable	
Mode:	Bridge	
LAN1:	Internet	
LAN2:	Internet 🗸	
LAN3:	IPTV v	
LAN4:	IPTV v	

- IPTV/VLAN Select to enable the IPTV feature.
- Mode Select the appropriate mode according to your ISP.
- LAN 1/2/3/4 Assign your LAN port to whether function as the internet supplier or as the IPTV supplier.

4.2.6. DHCP Server

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

- To specify the IP address that the router assigns:
- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Network > DHCP Server and locate the DHCP Server section.

DHCP Server		
Dynamically assgin IP addresses to the	e devices connected to the route	er.
DHCP Server:	Enable	
IP Address Pool:	192.168.0.100 - 192.168.0	.249
Address Lease Time:	120 min	nutes
Default Gateway:	0.0.0.0	(Optional)
Primary DNS:	0.0.0.0	(Optional)
Secondary DNS:	0.0.0.0	(Optional)

- 1. Tick the Enable checkbox.
- 2. Enter the starting and ending IP addresses in the IP Address Pool.

- 3. Enter other parameters if the ISP offers. The Default Gateway is automatically filled in and is the same as the LAN IP address of the router.
- 4. Click SAVE.

Note:

To use the DHCP server function of the router, you must configure all computers on the LAN as Obtain an IP Address automatically.

- To reserve an IP address for a specified client device:
- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Network > DHCP Server and locate the Address Reservation section.
- 3. Click Add in the Address Reservation section.



4. Click VIEW CONNECTED DEVICES and select the you device you want to reserve an IP for. Then the MAC and IP Address will be automatically filled in. You can also enter the MAC and IP address of the client device.

Add a Reservation Entry		×
MAC Address:		
	VIEW CONNECTED DEVICES	
IP Address:		
	CANCEL	SAVE

- To check the DHCP client list:
- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Network > DHCP Server and locate the DHCP Client List section. You can see the device information of the list.
- 3. Click Refresh to see the current attached devices.

/iew the devices that a	are currently assigned wit	h IP addresses by the DHCP se	rver.
Fotal Clients: 3	al Clients: 3		
Device Name	MAC Address	Assigned IP Address	Lease Time
TP- Link_Test_Device _3	B0-95-8E-66-5A-03	192.168.0.110	01:55:42
TP- Link_Test_Device _4	40-16-9F-0F-B7-BA	192.168.0.101	01:56:34
TP- Link_Test_Device 5	54-A7-03-FE-3D-4A	192.168.0.102	01:56:56

4.2.7. Dynamic DNS

The router offers the DDNS (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address. Thus your friends can connect to your server by entering your domain name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as www.comexe.cn, www.dyndns.org, or www.noip.com. The Dynamic DNS client service provider will give you a password or key.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the username and password you set for the router.
- 2. Go to Advanced > Network > Dynamic DNS.
- 3. Select the DDNS Service Provider: NO-IP or DynDNS. If you don't have a DDNS account, you have to register first by clicking Register Now.

Assign a fixed host name (domain name)	for remote access to yo	ur device, webs	site, or server behind the
router.			
Service Provider.	DynDNS	\sim	Register Now
Username:			
Password:		ø	
Domain Name:			
Status:	Disconnected		
	LOGIN AND	SAVE	1
	LOGOUT		

- 4. Enter the Username for your DDNS account.
- 5. Enter the Password for your DDNS account.
- 6. Enter the Domain Name you received from dynamic DNS service provider here.
- 7. If your service provider is NO-IP, select WAN IP binding to ensure that the domain name is bound to the WAN IP of this router.
- 8. Click LOGIN AND SAVE.

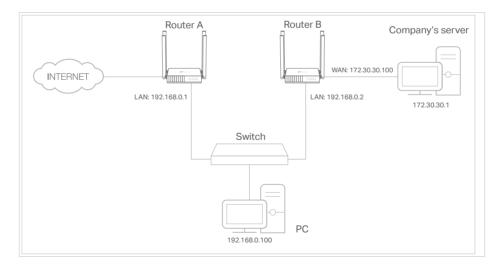
4. 2. 8. Static Routing

Static Routing is a form of routing that is configured manually by a network administrator or a user by adding entries into a routing table. The manually-configured routing information guides the router in forwarding data packets to the specific destination.

I want to:

Visit multiple networks and servers at the same time.

For example, in a small office, my PC can surf the internet through Router A, but I also want to visit my company's network. Now I have a switch and Router B. I connect the devices as shown in the following figure so that the physical connection between my PC and my company's server is established. To surf the internet and visit my company's network at the same time, I need to configure the static routing.



How can I do that?

- 1. Change the routers' LAN IP addresses to two different IP addresses on the same subnet. Disable Router B's DHCP function.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for Router A.
- **3.** Go to Advanced > Network > Routing and locate the Static Routing section.
- 4. Click Add and finish the settings according to the following explanations:

Add a Routing Entry		×
Network Destination:		
Subnet Mask:		
Default Gateway:		
Interface:	- Please Select -	
Description:		
	CANCEL	SAVE

- Network Destination The destination IP address that you want to assign to a static route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of Router A. In the example, the IP address of the company network is the destination IP address, so here enter 172.30.30.1.
- Subnet Mask The Subnet Mask determines which portion of an IP address is the network portion, and which portion is the host portion.
- Default Gateway The IP address of the gateway device to which the data packets will be sent. This IP address must be on the same subnet with the router's IP which sends out data. In the example, the data packets will be sent to the LAN port of Router B and then to the Server, so the default gateway should be 192.168.0.2.
- Interface: Determined by the port (WAN/LAN) that sends out data packets. In the example, the data are sent to the gateway through the LAN port of Router A, so LAN should be selected.
- Description: Enter a description for this static routing entry.
- 5. Click SAVE.
- 6. Check the Routing Table below. If you can find the entry you've set, the static routing is set successfully.

4.3. Wireless

4.3.1. Wireless Settings

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Wireless > Wireless Settings.
- 3. Configure the wireless settings for the wireless network and click SAVE.

Personalize wireless settings as you need.			
2.4GHz:	Enable Sharing Network		
Network Name (SSID):	TP-Link_8B07		Hide SSID
Security:	WPA/WPA2-Personal	\checkmark	
Version:	Auto	\checkmark	
Encryption:	AES	~	
Password:	12345678		
Transmit Power:	High	~	
Channel Width:	Auto	\checkmark	
Channel:	Auto	\checkmark	
Mode:	802.11b/g/n mixed	\sim	

- 2.4GHz/5GHz Select this checkbox to enable the 2.4GHz/5GHz wireless network.
- Network Name (SSID) Enter a value of up to 32 characters. The same Name (SSID) must be assigned to all wireless devices in your network.
- Hide SSID Select this checkbox if you want to hide the 2.4GHz network name (SSID) from the Wi-Fi network list. In this case, you need to manually join the network.
- Security Select an option from the Security drop-down list.
 - None No security. It is highly recommend you enable the wireless security to protect your wireless network from unauthorized access.
 - WPA-PSK/WPA2-Personal It's the WPA/WPA2 authentication type based on pre-shared passphrase. It's also the recommended security type.
 - WPA /WPA2-Enterprise It's based on Radius Server.
 - WEP It is based on the IEEE 802.11 standard.
- Version Keep default version value.
- Encryption Select Auto, TKIP or AES. We recommend you keep the default settings.
- Transmit Power Select High, Middle or Low to specify the data transmit power. The default and recommended setting is High.
- Channel Width Select a channel width (bandwidth) for the wireless network.
- Channel Select an operating channel for the wireless network. It is recommended to leave the channel to Auto, It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.
- Mode You can choose the appropriate "Mixed" mode.

4. 3. 2. Guest Network

Guest Network allows you to provide Wi-Fi access for guests without disclosing your host network. When you have guests in your house, apartment, or workplace, you can create a guest network for them. In addition, you can customize guest network settings to ensure network security and privacy.

• Create a Guest Network

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Wireless or Advanced > Wireless > Guest Network.
- 3. Enable the Guset Network function.

Guest Network		
Create a separate network for your guest	s to ensure network security and privacy.	
2.4GHz:	Enable Sharing Network	
Network Name (SSID):	TP-Link_Guest_8B07	SID
Security:	WPA/WPA2-Personal	
Password:		

- 4. Create a network name for your guest network.
- 5. Select the Security type and create the Password of the guest network.
- 6. Click SAVE. Now you guests can access your guest network using the SSID and password you set!

Customize Guest Network Options

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Wireless > Guest Network. Locate the Guest Permissions section.
- 3. Customize guest network options according to your needs.

Guest Permission	i
Control the data that g	jests can access.
	 Allow guests to see each other
	Allow guests to access your local network

• Allow guests to see each other

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with each other via methods such as network neighbors and Ping.

• Allow guests to access my local network

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with the devices connected to your router's LAN ports or main network via methods such as network neighbors and Ping.

4. Click SAVE. Now you can ensure network security and privacy!

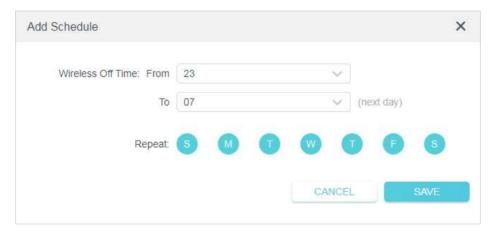
4. 3. 3. Wireless Schedule

The wireless function can be automatically off at a specific time when you do not need the wireless function.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Wireless > Wireless Schedule.
- 3. Enable the Wireless Schedule function.

Wireless Sc	hedule
Schedule whe	n to automatically turn off your wireless network.
	Wireless Schedule: 🔲 Enable
Note: Make s	ure Time Settings are correct before using this function.

4. Click Add to specify a wireless off period during which you need the wireless off automatically, and click SAVE.



Note:

- The effective wireless schedule is based on the time of the router. You can go to Advanced > System > Time to modify the time.
- The wireless network will be automatically turned on after the time period you set.

4.3.4. WPS

WPS (Wi-Fi Protected Setup) can help you to quickly and securely connect to a network. This section will guide you to add a new wireless device to your router's network quickly via WPS.

Note:

The WPS function cannot be configured if the wireless function of the router is disabled. Please make sure the wireless function is enabled before configuration.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Wireless > WPS.
- 3. Follow one of the following three methods to connect your client device to the router's Wi-Fi network.

Method 1: Using a PIN

- Connects vis the Client's PIN
- 1. Keep the WPS Status as Enabled and select Client's PIN.

easily.	connect a client (personal device) to the router's wireless network
WE	PS:
	I 1: Using a PIN
Wethod	1 2 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1
	Client's PIN
	Router's PIN
	Enter your personal device's PIN here and click CONNECT

2. Enter the PIN of your device and click CONNECT. Then your device will get connected to the router.

• Connects vis the Router's PIN

1. Keep the WPS Status as Enabled and select Router's PIN.

easily.	nnect a client (personal device) to the router's wireless network
WPS.	
Method 1:	Using a PIN
	Client's PIN
	Router's PIN
Router's PIN.	
	Enter the router's PIN on your personal device. Router's PIN: 84109774
	GET NEW PIN
	DEFAULT

2. Enter the PIN on your personal device. You can use the default PIN or generate a new one.

Note:

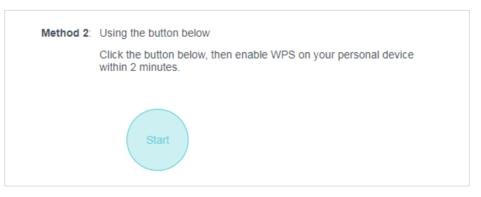
PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is printed on the label of your router.

Method 2: Using the device's WPS button

Click Start on the screen. Within two minutes, press the WPS button on your device. A Device-(XX-XX-XX-XX-XX) Connected message should appear on the screen and the result of the screen blinking to solid on, indicating successful WPS connection.

Note:

 $\ensuremath{\mathsf{XX-XX-XX-XX-XX}}$ is the MAC address of your device.



Method 3: Using the router's WPS button

Press the router's WPS button, then enable WPS on your personal device within 2 minutes.

4. 3. 5. Additional Wireless Settings

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Wireless > Additional Settings.
- 3. Configure the advanced settings of your wireless network and click Save.

Note:

If you are not familiar with the setting items on this page, it's strongly recommended to keep the provided default values; otherwise it may result in lower wireless network performance.

Additional Settings		
Check advanced wireless settings for yo	ur device.	
WMM:	Enable	
Short GI:	Enable	
AP Isolation:	Enable	
Beacon Interval:	100	
RTS Threshold:	2346	
DTIM Interval:	1	
Group Key Update Period:	0	s

- Enable WMM WMM function can guarantee the packets with high-priority messages being transmitted preferentially. It is strongly recommended to enable this function.
- Enable Short GI It is recommended to enable this function, for it will increase the data capacity by reducing the guard interval time.
- AP Isolation This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN.
- Beacon Interval Enter a value between 40-1000 milliseconds for Beacon Interval here. Beacon Interval value determines the time interval of the beacons. The beacons are the packets sent by the router to synchronize a wireless network. The default value is 100.
- RTS Threshold Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame. The default value is 2346.
- DTIM Interval This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-255 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.

• Group Key Update Period - Enter a number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default value is 0, meaning no key renewal.

4.4. NAT Forwarding

The router's NAT (Network Address Translation) feature makes the devices on the LAN use the same public IP address to communicate on the internet, which protects the local network by hiding IP addresses of the devices. However, it also brings about the problem that external hosts cannot initiatively communicate with the specified devices in the local network.

With the forwarding feature, the router can traverse the isolation of NAT so that clients on the internet can reach devices on the LAN and realize some specific functions.

The TP-Link router includes four forwarding rules. If two or more rules are set, the priority of implementation from high to low is Port Forwarding, Port Triggering, UPNP and DMZ.

4.4.1. Port Forwarding

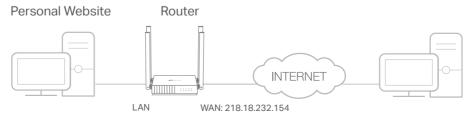
When you build up a server in the local network and want to share it on the internet, Port Forwarding can realize the service and provide it to internet users. At the same time Port Forwarding can keep the local network safe as other services are still invisible from the internet.

Port Forwarding can be used to set up public services in your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different service uses different service port. Port 80 is used in HTTP service, port 21 in FTP service, port 25 in SMTP service and port 110 in POP3 service. Please verify the service port number before the configuration.

I want to:

Share my personal website I've built in local network with my friends through the internet.

For example, the personal website has been built in my home PC (192.168.0.100). I hope that my friends on the internet can visit my website in some way. My PC is connected to the router with the WAN IP address 218.18.232.154.





- 1. Set your PC to a static IP address, for example 192.168.0.100.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 3. Go to Advanced > NAT Forwarding > Port Forwarding.
- 4. Click Add.

Add a Port Forwarding Entry		×
Service Name:		
	VIEW COMMON SERVICES	
Device IP Address:		
	VIEW CONNECTED DEVICES	
External Port		
Internal Port		
Protocol:	All	
	🛃 Enable This Entry	
	CANCEL	SAVE

- 5. Click VIEW COMMON SERVICES and select HTTP. The External Port, Internal Port and Protocol will be automatically filled in.
- 6. Click VIEW CONNECTED DEVICES and select your home PC. The Device IP Address will be automatically filled in. Or enter the PC's IP address 192.168.0.100 manually in the Device IP Address field.

7. Click SAVE.

Note:

- It is recommended to keep the default settings of Internal Port and Protocol if you are not clear about which port and protocol to use.
- If the service you want to use is not in the Common Services list, you can enter the corresponding parameters manually. You should verify the port number that the service needs.
- You can add multiple virtual server rules if you want to provide several services in a router. Please note that the External Port should not be overlapped.

Done!

Users on the internet can enter http:// WAN IP (in this example: http:// 218.18.232.154)

to visit your personal website.

Note:

- If you have changed the default External Port, you should use http:// WAN IP: External Port to visit the website.
- The WAN IP should be a public IP address. For the WAN IP is assigned dynamically by the ISP, it is recommended to apply and register a domain name for the WAN referring to <u>Dynamic DNS</u>. Then users on the internet can use http:// domain name to visit the website.

4.4.2. Port Triggering

Port triggering can specify a triggering port and its corresponding external ports. When a host in the local network initiates a connection to the triggering port, all the external ports will be opened for subsequent connections. The router can record the IP address of the host. When the data from the internet return to the external ports, the router can forward them to the corresponding host. Port triggering is mainly applied to online games, VoIPs, video players and common applications including MSN Gaming Zone, Dialpad, Quick Time 4 players and more.

Follow the steps below to configure the port triggering rules:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > NAT Forwarding > Port Triggering.
- 3. Click Add.
- 4. Click VIEW COMMON SERVICES, and select the desired application. The Triggering Port, Triggering Protocol and External Port will be automatically filled in. The following picture takes application MSN Gaming Zone as an example.

		×
MSN Gaming Zor	ie	
	ON SERVICES	
47624		
All	~	
2300-2400,28800	-29000	
(XX or XX-XX,1-6	5535,at most 5 pairs)	
All	~	
Enable This Er	htry	
	CANCEL	SAVE
	VIEW COMM 47624 All 2300-2400,28800 (XX or XX-XX,1-6 All	All 2300-2400,28800-29000 (XX or XX-XX,1-65535,at most 5 pairs) All Image: Comparison of the state

5. Click SAVE.

Note:

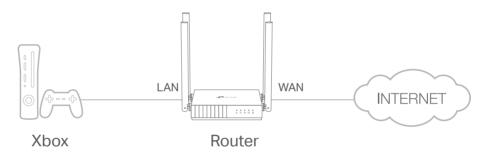
- You can add multiple port triggering rules as needed.
- The triggering ports can not be overlapped.
- If the application you need is not listed in the Common Services list, please enter the parameters manually. You should verify the external ports the application uses first and enter them in External Ports field. You can input at most 5 groups of ports (or port sections). Every group of ports must be set apart with ",". For example, 2000-2038, 2050-2051, 2085, 3010-3030.

4.4.3. UPnP

The UPnP (Universal Plug and Play) protocol allows the applications or host devices to automatically find the front-end NAT device and send request to it to open the corresponding ports. With UPnP enabled, the applications or host devices on the local network and the internet can freely communicate with each other realizing the seamless connection of the network. You may need to enable the UPnP if you want to use applications for multiplayer gaming, peer-to-peer connections, real-time communication (such as VoIP or telephone conference) or remote assistance, etc.

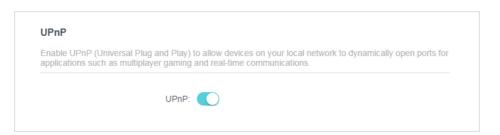
- Tips:
- UPnP is enabled by default in this router.
- Only the application supporting UPnP protocol can use this feature.
- UPnP feature needs the support of operating system (e.g. Windows Vista/ Windows 7/ Windows 8, etc. Some of operating system need to install the UPnP components).

For example, when you connect your Xbox to the router which is connected to the internet to play online games, UPnP will send request to the router to open the corresponding ports allowing the following data penetrating the NAT to transmit. Therefore, you can play Xbox online games without a hitch.



If necessary, you can follow the steps to change the status of UPnP.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > NAT Forwarding > UPnP and toggle on or off according to your needs.



4.4.4. DMZ

When a PC is set to be a DMZ (Demilitarized Zone) host in the local network, it is totally exposed to the internet, which can realize the unlimited bidirectional communication

between internal hosts and external hosts. The DMZ host becomes a virtual server with all ports opened. When you are not clear about which ports to open in some special applications, such as IP camera and database software, you can set the PC to be a DMZ host.

Note: DMZ is more applicable in the situation that users are not clear about which ports to open. When it is enabled, the DMZ host is totally exposed to the internet, which may bring some potential safety hazards. If DMZ is not in use, please disable it in time.

I want to:

Make the home PC join the internet online game without port restriction.

For example, due to some port restriction, when playing the online games, you can log in normally but cannot join a team with other players. To solve this problem, set your PC as a DMZ host with all ports opened.

How can I do that?

- 1. Assign a static IP address to your PC, for example 192.168.0.100.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 3. Go to Advanced > NAT Forwarding > DMZ and select Enable.
- 4. Click VIEW CONNECTED DEVICES and select your PC. The DMZ Host IP Address will be automatically filled in. Or enter the PC's IP address manually in the DMZ Host IP Address field.

Expose a specific device in your local net real-time communications.	twork to the internet for applications such as online gaming and
DMZ:	C Enable
DMZ Host IP Address:	192.168.0.67
	MEW CONNECTED DEVICES

5. Click SAVE.

Done!

You've set your PC to a DMZ host and now you can make a team to game with other players.

4.5. Parental Controls

Parental Controls allows you to set up unique restrictions on internet access for each member of your family. You can block inappropriate content, set daily limits for the total time spent online and restrict internet access to certain times of the day.

I want to:

Block access to inappropriate online content for my child's devices, restrict internet access to 2 hours every day and block internet access during bed time (10 PM to 7 AM) on weekdays.

How can I do that?

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advancec > Parental Controls.
- 3. Click Add to create a profile for a family member.

Filter content and limit t	ime spent online for your	family members.		
				🔂 Add
Profile Name	Time Limits	Devices	Internet Access	Modify
No Entries in this ta				

4. Add basic profile information.

Create Profile		×
Basic Inf	formation	
	Name:	
	+	

- 1) Enter a Name for the profile to make it easier to identify.
- 2) Under Devices, click + .
- 3) Select the devices that belong to this family member. Access restrictions will be applied to these devices. Click ADD when finished.

Note: Only devices that have previously been connected to your router's network are listed here. If you are unable to find the device you want to add, connect it to your network and then try again.

- 4) Click NEXT.
- 5. Block content for this profile.

Profile	×
Blocked Content	
Blocked Content Block all websites that contain a specific keyword.	
facebook	
	Blocked Content Blocked Content Block all websites that contain a specific keyword.

- 1) Enter the key word of the website that you want to block. Click 🕞 if want to block multiple websites.
- 2) Click NEXT.
- 6. Set time restrictions on internet access.

0	0	Time Controls	
Time Limits			
Set daily time limits for th	ne total time spent online.		
Mon to Fri:			
Daily Time Limit:	2 hours	~	
Sat & Sun:			
Daily Time Limit:	2 hours	\sim	
Bed Time			
Bed Time Block this person's interr	et access between certain tir	nes,	
		nes,	
Block this person's interr School Nights:	•	nes.	
Block this person's interr School Nights: (Sun to Thur)	22 v : 00	nes.	
Block this person's interr School Nights: (Sun to Thur) Good Night:	22 v : 00	nes.	
Block this person's interr School Nights: (Sun to Thur) Good Night: Good Morning: Weekend:	22 √ : 00 07 √ : 00	nes.	

- 1) Enable Time Limits on Monday to Friday and Saturday & Sunday then set the allowed online time to 2 hours each day.
- 2) Enable Bed Time on School Nights and use the up/down arrows or enter times in the fields. Devices under this profile will be unable to access the internet during this time period.
- 3) Click SAVE.

Note: The effective time limits are based on the time of the router. You can go to Advanced > System > Time to modify the time.

Done!

The amount of time your child spends online is controlled and inappropriate content is blocked on their devices.

4.6. QoS

QoS (Quality of Service) is designed to ensure the efficient operation of the network when come across network overload or congestion. Devices set as high priority will be allocated more bandwidth and so continue to run smoothly even when there are many devices connected to the network.

I want to:

Ensure a fast connection of my computer while I play online games for the next 2 hours.

How can I do that

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > QoS.
- 3. Tick the Enable checkbox of QoS.
- 4. Enter the maximum upload and download bandwidths provided by your internet service provider, and then click SAVE. 1Mbps equals to 1,000Kbps.
- 5. Find your computer in the Device Priority section and toggle on Priority. Select 2 hours from the drop-down list of Timing. Your computer will be prioritized for the next 2 hours.

	e internet traffic of specific de efore using QoS.	evices to guarantee	a faster conne	ection. You need	l to set the total
	QoS:	🕑 Enable			
	Upload Bandwidth:	100	Mbps	\sim	
	Download Bandwidth:	100	Mbps	~	
Device	Priority				
Туре	Information	Real-time Rate	Traffic Usage	Priority	Timing
Туре	Information bobos Phone (100) 3C-CD-38-03-94-9F	Real-time Rate ↑ 0 B/s ↓ 0 B/s		Priority	Timing 2 hours v 2 h 0 min Remaining
Type	bobos-iPhone	↑ 0 B/s	Usage	Priority	2 hours v

Done!

You can now enjoy playing games without lag on your computer for the next 2 hours.

4.7. Security

This function allows you to protect your home network from cyber attacks and unauthorized users by implementing these network security functions.

4.7.1. Firewall

The SPI (Stateful Packet Inspection) Firewall protects the router from cyber attacks and validate the traffic that is passing through the router based on the protocol. This function is enabled by default.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Security > Firewall, and configure the parameters as you need. It's recommended to keep the default settings.

4.7.2. Access Control

Access Control is used to block or allow specific client devices to access your network (via wired or wireless) based on a list of blocked devices (Blacklist) or a list of allowed devices (Whitelist).

I want to:

Block or allow specific client devices to access my network (via wired or wireless).

How can I do that?

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Security > Access Control:
- 3. Select the access mode to either block (recommended) or allow the device(s) in the list.

To block specific device(s):

1) Select Blacklist and click SAVE.

2	ur network from the specified d	evices.	
Ad	ccess Control: 🚺		
	Access Mode: 🥥 Blacklist		
		e a blacklist to only block access specified devices.	s to your network
	O Whitelist		
			O A
Device Type	Device Name	MAC Address	Modify

2) Click Add and select devices you want to block. You can see the devices have been added to the blacklist.

			🔂 Add
Device Type	Device Name	MAC Address	Modify
—	Unknown	38-37-8b-49-57-ff	迅
	Unknown	38-37-8b-49-57-ff	<u>ش</u>

To allow specific device(s):

1) Select Whitelist and click SAVE.

	ar network from the specified	I devices.	
Ac	cess Control: 🚺		
	Access Mode: O Blacklis	st	
	Whiteli	st	
		ure a whitefist to only allow acces ie specified devices	s to your network
			Modify
Device Type	Device Name	MAC Address	mowny

- 2) Add devices to the whitelist.
- Add connected devices

Click Select From Device List and select the devices you want to be allowed.

Add Devices	×
 Select From Device List Add Manually 	
Unknown 192.168.0.67 F8-BC-12-9B-93-1B	Unknown 192.168.0.101 38-37-88-49-57-FF
	CANCEL ADD

Add unconnected devices

Click Add Manually and enter the Device Name and MAC Address of the device you want to be allowed.

Add Devices		×
 Select From Add Manually 		
Device Name:		
MAC Address:		
	CANCEL	ADD

Done!

Now you can block or allow specific client devices to access your network (via wired or wireless) using the Blacklist or Whitelist.

4.7.3. IP & MAC Binding

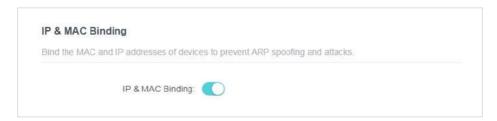
IP & MAC Binding, namely, ARP (Address Resolution Protocol) Binding, is used to bind network device's IP address to its MAC address. This will prevent ARP Spoofing and other ARP attacks by denying network access to an device with matching IP address in the Binding list, but unrecognized MAC address.

I want to:

Prevent ARP spoofing and ARP attacks.

How can I do that?

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > Security > IP & MAC Binding.
- 3. Enable IP & MAC Binding and click SAVE.



4. Bind your device(s) according to your need.

To bind the connected device(s):

Locate the ARP List section and enable Bind to bind the IP and MAC addresses of a specific device.

a second and the MARC of				
d or unbind the MAC a	nd IP addresses of curn	anuy connected devices	8e	
				G Refres
Device Name	MAC Address	IP Address	Bind	Modify
TP- Link_Test_Device_1	90-F6-52-43-3C-B0	192.168.0.100	\mathbf{O}	创
TP- Link Test Device 4	40-16-9F-0F-B7-BA	192.168.0.101	Ō	世

To add a binding entry:

1) Click Add in the Binding List section.

- 2) Click VIEW CONNECTED DEVICES and select the device you want to bind. Or enter the MAC Address and IP Address that you want to bind.
- 3) Click ADD.

							×
MAC Address:	z.	5	2	Q.	2		
	VIEW		NECTE	D DE	VICES		
IP Address:							
				C	ANCEL		ADD
	MAC Address:	MAC Address: -	MAC Address:				

4.8. ALG (Application Layer Gateway)

View your ALG (Application Layer Gateway) settings in this page. It is recommended to keep them as default.

PPTP Passthrough:	
L2TP Passthrough:	
IPSec Passthrough:	
FTP ALG:	
TFTP ALG:	
RTSP ALG:	
H323 ALG:	

4.9. IPv6

This function allows you to enable IPv6 function and set up the parameters of the router's Wide Area Network (WAN) and Local Area Network (LAN).

4.9.1. IPv6 Status

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > IPv6, and you can view the current IPv6 status information of the router.
- 3. Enable IPv6 and select the mode: Router or Pass-Through (Bridge).

• If you select Router:

IPv6				
Set up an IPv6 connection if	your ISP pro	vides IPv6 service.		
	Mode:	Router	~	
	modo.	- to ato.		

Fill in WAN and LAN information as required by different connection types.

1. Normal: The default connection type.

1) Configure the WAN settings.

WAN		
Configure the WAN connection based on	your network typology.	
WAN Connection Type:	Normal	
Get IPv6 Address:	Auto	
	Manually set DNS server	
Link-Local Address:		
Global Address:		
Gateway:		
Primary DNS:		
Secondary DNS:		

2) Configure the LAN settings. Fill in Address Prefix provided by your ISP.

Configure the LAN IPv6 address of the ro	outer.	
	Enable Prefix Delegation	
Address Prefix:		
Prefix Length:	Ø	
Link-Local Address:		
Prefix:		
	Connect	
Prefix.	Connect	

3) Click SAVE.

- 2. PPPoE: Select this type if your ISP uses PPPoEv6, and provides a username and password.
 - 1) Configure the WAN settings.

VAN	
Configure the WAN connection based on	your network typology.
WAN Connection Type:	PPPoE V
Get IPv6 Address:	Auto
	Use the same PPPoE session as IPv4 ?
Username:	
Password:	
Passwolu.	
	Manually set DNS server
Link-Local Address:	
Global Address:	
Gateway:	
Primary DNS:	
Secondary DNS:	

2) Configure the LAN settings. Fill in Address Prefix provided by your ISP.

	Enable Prefix Delegation	
Address Prefix:		
Prefix Length:	0	
Link-Local Address:		
Prefix		

- 3. Tunnel 6to4: Select this type if your ISP uses 6 to 4 deployment fort assigning address.
 - 1) Configure the WAN settings.

Configure the WAN connection based or	n your network typology.
WAN Connection Type:	Tunnel 6to4
	Manually set DNS server
Link-Local Address:	
Global Address:	
Gateway:	
Primary DNS:	
Secondary DNS:	

2) Configure the LAN settings.

Configure the LAN IPv6 address of the router.		
Link-Local Address:		
Prefix:		
_		
	Connect	
	Cisconnect	

• If you select Pass-Through (Bridge):

Click SAVE. No configuration is required.

IPv6	
Set up an IPv6 connection if your ISP pro	ovides IPv6 service.
Mode:	Pass-Through (Bridge)

4.10. System

4.10.1. Firmware Upgrade

TP-Link is dedicated to improving and richening the product features, giving users a better network experience. We will release the latest firmware at TP-Link official website

<u>www.tp-link.com</u>. You can download the latest firmware file from the Support page of our website and upgrade the firmware to the latest version.

- 1. Download the latest firmware file for the router from our website <u>www.tp-link.com</u>.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 3. Go to Advanced > System > Firmware Upgrade.
- 4. Click BROWSE to locate the downloaded firmware file, and click UPGRADE.

Upgrade firmware from a local file.		
Firmware Version:	110-12030-00022-0012-0002-0002-0002	
Hardware Version:	No optimization of the international	
New Firmware File:		
	BROWSE	
	UPGRADE	

4. 10. 2. Backup & Restore

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

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to Advanced > System > Backup & Restore.

• To backup configuration settings:

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

BACK UP	
	BACK UP

- To restore configuration settings:
- 1. Click BROWSE to locate the backup configuration file stored in your computer, and click RESTORE.
- 2. Wait a few minutes for the restoring and rebooting.

Restore			
Restore settings from a backup f	ile.		
	File:		
		BROWSE	
		RESTORE	

- To reset the router to factory default settings:
- 1. Click FACTORY RESTORE to reset the router.

Factory Default Restor		
Restore all settings to defau	t values.	
	FACTORY RESTORE	

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

Note:

- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

4. 10. 3. Change Password

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Administration, and focus on the Change Password section.

Change Password			
Change the router's local management p	assword.		
Old Password:		ø	
New Password:		ø	
Confirm New Password:		ø	

- 3. Enter the old password, then a new password twice (both case-sensitive). Click SAVE.
- 4. Use the new password for future logins.

4. 10. 4. Local Management

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Administration, and focus on the Local Management section.
- Allow all LAN connected devices to manage the router:

Select All Devices for Local Managers.

Local Management		
Access and manage the router from local	I network devices.	
Local Managers:	All Devices	~

- Allow specific devices to manage the router:
- 1. Select Specified Devices for Local Managers and click SAVE.

ccess and manage the router from I		
Local Manage	rs: Specified Devices V	
		Add Device
Description	MAC Address	Operation

2. Click Add Device.

Add Device							×
	Description:						
		VIEW	CON	NECTE	D DE	VICES	
	MAC Address:	2	\$	ŝ	0	-	
					C	ANCEL	SAVE

- 3. Click VIEW CONNECTED DEVICES and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.
- 4. Specify a Description for this entry.
- 5. Click SAVE.

4.10.5. Remote Management

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Administration, and focus on the Remote Management section.
- Note:

If your ISP assigns a private WAN IP address (such as 192.168.x.x or 10.x.x.x), you cannot use this feature because private addresses are not routable.

• Forbid all devices to manage the router remotely:

Do not tick the Enable checkbox of Remote Management.

Remote	Management
Access an	d manage the router over the internet.
	note Management is not supported when you are connected to the internet only via IPv6. If you e Remote Management, please make sure you have set up an IPv4 connection first.

Allow all devices to manage the router remotely:

Remote Management					
Access and manage the router over the internet.					
Note: Remote Management is not suppo want to use Remote Management, pleas					
Remote Management:	Enable				
Remote Management.	Enable				
HTTP Port:	8888				
	8888				

- 1. Tick the Enable checkbox of Remote Management.
- 2. Keep the HTTP port as default setting (recommended) or enter a value between 1024 and 65535.
- 3. Select All Devices for Remote Managers.
- 4. Click SAVE.

Devices on the internet can log in to <u>http://Router's WAN IP address: port number</u> (such as <u>http://113.116.60.229:1024</u>) to manage the router.

- Ø Tips:
- You can find the WAN IP address of the router on Network Map > Internet.
- The router's WAN IP is usually a dynamic IP. Please refer to <u>Dynamic DNS</u> if you want to log in to the router through a domain name.
- Allow a specific device to manage the router remotely:

Access and manage the router over the i	nternet.	
Note: Remote Management is not suppo		
want to use Remote Management, pleas	e make sure you have set up an IPv4 c	onnection first.
Remote Management:	Enable	
· ······		
HTTP Port:	8888	
Web Address for Management:	10.0.2.225	
Demote Manageme	Specified Device	
Remote Manaders		
Remote Managers:		

- 1. Tick the Enable checkbox of Remote Management.
- 2. Keep the HTTP port as default setting (recommended) or enter a value between 1024 and 65535.

- 3. Select Specified Device for Remote Managers.
- 4. In the Only this IP Address field, enter the IP address of the remote device to manage the router.
- 5. Click SAVE.

Devices using this WAN IP can manage the router by logging in to <u>http://Router's WAN</u> IP:port number (such as http://113.116.60.229:1024).

© **Tips:** The router's WAN IP is usually a dynamic IP. Please refer to <u>Dynamic DNS</u> if you want to log in to the router through a domain name.

4.10.6. System Log

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > System Log, and you can view the logs of the router.

	Current Time.	19/11/2019 19:44:20
Search	Q	😋 Refresh 🛛 🗳 Clear A
255.255.255.0. 5 INFO 0days,	00:00:18, [wan]Atta 00:00:18, [httpd]Ht	
ave Log		

3. Click SAVE TO LOCAL to save the system logs to a local disk.

4.10.7. Diagnostic

Diagnostic is used to test the connectivity between the router and the host or other network devices.

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to Advanced > System > Diagnostics.

Troubleshoot network connectivity proble	ms		
Diagnostic Tools:	Ping	~	
IP Address/Domain Name:			
Ping Packet Number:	4		
Ping Packet Size:	64	Bytes	

- 3. Enter the information:
 - 1) Choose Ping or Tracert as the diagnostic tool to test the connectivity;
 - Ping is used to test the connectivity between the router and the tested host, and measure the round-trip time.
 - Tracert is used to display the route (path) your router has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network.
 - 2) Enter the IP Address or Domain Name of the tested host.
 - 3) Modify the Ping Count number and the Ping Packet Size. It's recommended to keep the default value.
 - 4) If you have chosen Tracert, you can modify the Traceroute Max TTL. It's recommended to keep the default value.
- 4. Click START to begin the diagnostics.

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through Ping.

inding host yahoo	.com by DNS server (1 of 2).	
pinging yahoo.com	[98.138.219.231] with 64 bytes of data:	
Reply from 98.138.	219.231: bytes=64 time=233ms TTL=48 (seq=0).	
Reply from 98.138.	219.231: bytes=64 time=233ms TTL=48 (seq=1).	
Reply from 98.138.	219.231: bytes=64 time=233ms TTL=48 (seg=2).	
Reply from 98.138.	219.231: bytes=64 time=233ms TTL=48 (seg=3).	
Ping statistics for 9	8.138.219.231:	
Packets: Sent = 4,	Received = 4, Lost = 0 (0% loss).	
Approximate round	trip times in milli-seconds:	
/inimum = 233ms.	Maximum = 233ms, Average = 233ms	
,	. 5	

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through Tracert.

Finding host yahoo.com by DNS server (1 of 2).	
Tracing route to yahoo.com [72.30.35.10]	
over a maximum of 20 hops:	
1 1 ms 1 ms 1 ms 10.0.0.1	
2 1 ms 1 ms 1 ms 116.24.64.1	
3 1 ms 1 ms 1 ms 202.105.155.185	
4 1 ms 1 ms 1 ms 183.56.65.2	
5 * 1 ms * 202.97.94.150	
6 16 ms 16 ms 16 ms 202.97.94.94	
7 150 ms 150 ms 150 ms 202.97.27.242	
8 166 ms 166 ms 166 ms 202.97.50.74	
9 150 ms 150 ms 150 ms 4.53.210.145	

4.10.8. Time Settings

This page allows you to set the time manually or to configure automatic time synchronization. The router can automatically update the time from an NTP server via the internet.

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

- 2. Go to Advanced > System > Time.
- To set System Time:

System Time		
Set the router's system time.		
Current Time:	19/11/2019 19:44:20	
24-Hour Time:		
Set Time:	Get from Internet	
Time Zone:	(UTC-08:00) Coordinated Universal Tim	e-08 🗸
NTP Server I:	time.nist.gov	
NTP Server II:	time-nw.nist.gov (Optional)

- 1. Select the way in which the router gets its time: Get from Internet, Get from Managing Device, Manually.
- 2. Select your local Time Zone.
- 3. Enter the address or domain of the NTP Server 1 or NTP Server 2.
- 4. Click SAVE.
- To set up Daylight Saving Time:
- 1. Select Enable Daylight Saving.

Automatically synchronize the system til	ne with dayl	ight savir	ng time.		
Daylight Saving Time:	Enable	9			
Start: 2019	Mar	~	2nd	~	
	Sun	\sim	02:00	~	
End: 2019	Nov	V	First	~	
	Sun	~	02:00	~	

- 2. Select the start time from the drop-down list in the Start fields.
- 3. Select the end time from the drop-down list in the End fields.
- 4. Click SAVE.

Note:

This setting will be used for some time-based functions such as firewall. You must specify your time zone once you log in to the router successfully; otherwise, time-based functions will not take effect.

4.10.9. Reboot

Some settings of the router will take effect only after rebooting, and the system will reboot automatically. You can also reboot the router to clear cache and enhance running performance.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Reboot, and you can restart your router.

• To reboot the router manually:

Click REBOOT, and wait a few minutes for the router to reboot.

Reboot			
Reboot to clear cache	nd enhance running performa	ance.	
		DEDOOT	
		REBOOT	

- To set the router to reboot regularly:
- 1. Tick the Enable box of Reboot Schedule.
- 2. Specify the Reboot Time when the router reboots and Repeat to decide how often it reboots.

3. Click SAVE.

Reboot Schedule		
Set when and how often the router rebo	ots automatically.	
Reboot Schedule:	Enable	
Note: Make sure Time Settings are cor	rect before using this function	1.
Current Time:		
Current Time: Reboot Time:	00 ~ : 00	~
	00 V: 00 Every Week	* *

4.10.10. LED Control

The LED of the router indicates its activities and status. You can enable the Night Mode feature to specify a time period during which the LED is off.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > LED Control.
- 3. Enable Night Mode.

Turn the router's LEDs on or off.					
LED Status:					
Night Mode					
Set a time period when the LEDs will be	off automal	tically.			
Night Mode:					
Note: Make sure Time Settings are corre			function.		
Note: Make sure Time Settings are corre			function.		
			function.	~	

4. Specify the LED off time, and the LED will be off during this period every day.

Note: The effective LED off time is based on the time of the router. You can go to Advanced > System > Time & Language to modify the time.

5. Click SAVE.

Chapter 5

Configure the Router in Access Point Mode

This chapter presents how to configure the various features of the router working as an access point.

It contains the following sections:

- Operation Mode
- <u>Firmware Upgrade</u>
- Backup & Restore
- Administration
- <u>System Log</u>
- <u>Diagnostic</u>
- Time Settings
- <u>Reboot</u>
- LED Control

5.1. Operation Mode

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > Operation Mode.
- 3. Select the working mode as needed and click SAVE.

elect an operation mode according to your needs.	
Router Mode(Current)	
In this mode, the router can provide internet access for multiple wired mode is required most commonly.	and wireless devices. This
Access Point Mode In this mode, the router changes an existing wired network into a wire	ano see
in this mode, the folder changes an existing when network into a whe	less one.
	۳ <u>۲</u>
Range Extender Mode	
In this mode, the router boosts the existing wireless coverage in your	home.
(* 1 3)	° 🖵

5. 2. Firmware Upgrade

TP-Link is dedicated to improving and richening the product features, giving users a better network experience. We will release the latest firmware at TP-Link official website <u>www.tp-link.com</u>. You can download the latest firmware file from the <u>Support</u> page of our website and upgrade the firmware to the latest version.

- 1. Download the latest firmware file for the router from our website <u>www.tp-link.com</u>.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 3. Go to System > Firmware Upgrade.
- 4. Click BROWSE to locate the downloaded firmware file, and click UPGRADE.

ocal Upgrade		
pgrade firmware from a local file.		
Firmware Version:	110000000000000000000000000000000000000	
Hardware Version:	The optimization of the designment of the second seco	
New Firmware File:		
	BROWSE	
	UPGRADE	

5.3. Backup & Restore

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

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to System > Backup & Restore.

• To backup configuration settings:

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

Backup		
Save current router settings to a	file.	
	BACK UP	

- To restore configuration settings:
- 1. Click BROWSE to locate the backup configuration file stored in your computer, and click RESTORE.
- 2. Wait a few minutes for the restoring and rebooting.

Restore settings from a backup	file.		
	File:		
		BROWSE	
		RESTORE	

• To reset the router to factory default settings:

1. Click FACTORY RESTORE to reset the router.

Factory Default Restore		
Restore all settings to default va	lues.	
	FACTORY RESTORE	

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

Note:

- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

5.4. Administration

5. 4. 1. Change Password

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to System > Administration, and focus on the Change Password section.

Change Password			
Change the router's local management p	assword.		
Old Password:	•••••	ø	
New Password:		ø	
Confirm New Password:		Ø	

3. Enter the old password, then a new password twice (both case-sensitive). Click SAVE.

4. Use the new password for future logins.

5. 4. 2. Local Management

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > Administration, and focus on the Local Management section.
- Allow all LAN connected devices to manage the router:

Select All Devices for Local Managers.

Local Management			
Access and manage the router from local	network devices.		
Local Managers:	All Devices	\sim	

• Allow specific devices to manage the router:

1. Select Specified Devices for Local Managers and click SAVE.

ess and manage the router from loc		
Local Managers:	Specified Devices	
		Add Device
Description	MAC Address	Operation

2. Click Add Device.

						>
VIEW	CONI	NECTE	D DE	VICES		
2	2	S	3	2		
			0	CANCEL	SAVE	
					VIEW CONNECTED DEVICES	

- 3. Click VIEW CONNECTED DEVICES and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.
- 4. Specify a Description for this entry.
- 5. Click SAVE.

5.5. System Log

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > System Log, and you can view the logs of the router.

	Current Time: 19/11/2019 19:44:20	
Search	Q	😋 Refresh 🛛 🗳 Clear A
	00:00:18, [wan]Atta 00:00:18, [httpd]Htt	

3. Click SAVE TO LOCAL to save the system logs to a local disk.

5.6. Diagnostic

Diagnostic is used to test the connectivity between the router and the host or other network devices.

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to System > Diagnostics.

Troubleshoot network connectivity proble	ms		
Diagnostic Tools:	Ping	~	
IP Address/Domain Name:			
Ping Packet Number:	4		
Ping Packet Size:	64	Bytes	

- 3. Enter the information:
 - 1) Choose Ping or Tracert as the diagnostic tool to test the connectivity;
 - Ping is used to test the connectivity between the router and the tested host, and measure the round-trip time.

- Tracert is used to display the route (path) your router has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network.
- 2) Enter the IP Address or Domain Name of the tested host.
- 3) Modify the Ping Count number and the Ping Packet Size. It's recommended to keep the default value.
- 4) If you have chosen Tracert, you can modify the Traceroute Max TTL. It's recommended to keep the default value.
- 4. Click START to begin the diagnostics.

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through Ping.

Finding host yahoo.com by DNS server (1 of 2). Pinging yahoo.com [98.138.219.231] with 64 bytes of data: Reply from 98.138.219.231: bytes=64 time=233ms TTL=48 (seq=0). Reply from 98.138.219.231: bytes=64 time=233ms TTL=48 (seq=1). Reply from 98.138.219.231: bytes=64 time=233ms TTL=48 (seq=2). Reply from 98.138.219.231: bytes=64 time=233ms TTL=48 (seg=3). Ping statistics for 98.138.219.231: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss) Approximate round trip times in milli-seconds Minimum = 233ms, Maximum = 233ms, Average = 233ms

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through Tracert.

Finding host yahoo.com by DNS server (1 of 2). Tracing route to yahoo.com [72.30.35.10] over a maximum of 20 hops: 1 1 ms 1 ms 1 ms 10.0.0.1 2 1 ms 1 ms 1 ms 116.24.64.1 3 1 ms 1 ms 1 ms 202.105.155.185 4.1 ms 1 ms 1 ms 183 56 65 2 5 * 1 ms * 202.97.94.150 6 16 ms 16 ms 16 ms 202.97.94.94 7 150 ms 150 ms 150 ms 202.97.27.242 8 166 ms 166 ms 166 ms 202 97 50 74 9 150 ms 150 ms 150 ms 4.53.210.145

5.7. Time Settings

This page allows you to set the time manually or to configure automatic time synchronization. The router can automatically update the time from an NTP server via the internet.

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to System > Time.

• To set System Time:

System Time		
et the router's system time.		
Current Time:	19/11/2019 19:44:20	
24-Hour Time:		
Set Time:	Get from Internet	
Time Zone:	(UTC-08:00) Coordinated Universal	Time-08 🗸
NTP Server I:	time.nist.gov	
NTP Server II:	time-nw.nist.gov	(Optional)

- 1. Select the way in which the router gets its time: Get from Internet, Get from Managing Device, Manually.
- 2. Select your local Time Zone.
- 3. Enter the address or domain of the NTP Server 1 or NTP Server 2.
- 4. Click SAVE.
- To set up Daylight Saving Time:
- 1. Select Enable Daylight Saving.

Automatically synchronize the system tin	ne with day	ylight savi	ng time.		
Daylight Saving Time:	🗹 Enab	le			
Start: 2019	Mar	~	2nd	\checkmark	
	Sun	~	02:00	\sim	
End: 2019	Nov	~	First	\sim	
	Sun	~	02:00	\checkmark	
Running Status:	Daylight S	Saving Tim	ie is off.		

- 2. Select the start time from the drop-down list in the Start fields.
- 3. Select the end time from the drop-down list in the End fields.
- 4. Click SAVE.

Note:

This setting will be used for some time-based functions such as firewall. You must specify your time zone once you log in to the router successfully; otherwise, time-based functions will not take effect.

5.8. Reboot

Some settings of the router will take effect only after rebooting, and the system will reboot automatically. You can also reboot the router to clear cache and enhance running performance.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > Reboot, and you can restart your router.

• To reboot the router manually:

Click REBOOT, and wait a few minutes for the router to reboot.

Reboot			
Reboot to clear cac	he and enhance running per	formance.	

- To set the router to reboot regularly:
- 1. Tick the Enable box of Reboot Schedule.
- 2. Specify the Reboot Time when the router reboots and Repeat to decide how often it reboots.
- 3. Click SAVE.

Reboot Schedule		
Set when and how often the router rebo	ots automatically.	
Reboot Schedule: Note: Make sure Time Settings are con		n.
Current Time:		
Reboot Time:	00 🗸 : 00	~
Repeat:	Every Week	~
Repeat.	The second and the second of	

5.9. LED Control

The LED of the router indicates its activities and status. You can enable the Night Mode feature to specify a time period during which the LED is off.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > LED Control.
- 3. Enable Night Mode.

Turn the router's LEDs on or off.					
LED Status:					
Night Mode					
Set a time period when the LEDs will be	offautom	atic ally.			
Night Mode:	🕑 Enat	ole			
			inction.		
Note: Make sure Time Settings are corre			inction.		
Night Mode: Note: Make sure Time Settings are corre Current Time: LED Off From:			oo	~	

4. Specify the LED off time, and the LED will be off during this period every day.

Note: The effective LED off time is based on the time of the router. You can go to Advanced > System > Time & Language to modify the time.

5. Click SAVE.

Chapter 6

Configure the Router in Range Extender Mode

This chapter presents how to configure the various features of the router working as a range extender.

It contains the following sections:

- Operation Mode
- <u>Firmware Upgrade</u>
- Backup & Restore
- Administration
- System Log
- Time Settings
- <u>Reboot</u>
- LED Control

6.1. Operation Mode

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > Operation Mode.
- 3. Select the working mode as needed and click SAVE.

Operation Mode	
Select an operation mode according to your needs.	
O Router Mode(Current)	
In this mode, the router can provide internet access for multiple wired an mode is required most commonly.	d wireless devices. This
	* <mark>-</mark> .
O Access Point Mode	
In this mode, the router changes an existing wired network into a wireles	is one.
Range Extender Mode	
In this mode, the router boosts the existing wireless coverage in your ho	me.
	* <u>_</u>

6.2. Firmware Upgrade

TP-Link is dedicated to improving and richening the product features, giving users a better network experience. We will release the latest firmware at TP-Link official website <u>www.tp-link.com</u>. You can download the latest firmware file from the <u>Support</u> page of our website and upgrade the firmware to the latest version.

- 1. Download the latest firmware file for the router from our website www.tp-link.com.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 3. Go to System > Firmware Upgrade.
- 4. Click BROWSE to locate the downloaded firmware file, and click UPGRADE.

ocal Upgrade		
pgrade firmware from a local file.		
Firmware Version:	110000000000000000000000000000000000000	
Hardware Version:	The opening and the designments	
New Firmware File:		
	BROWSE	
	UPGRADE	

6.3. Backup & Restore

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

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to System > Backup & Restore.

• To backup configuration settings:

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

Backup		
Save current router settings to a	file.	
	BACK UP	

- To restore configuration settings:
- 1. Click BROWSE to locate the backup configuration file stored in your computer, and click RESTORE.
- 2. Wait a few minutes for the restoring and rebooting.

Restore settings from a backup	file.		
	File:		
		BROWSE	
		RESTORE	

• To reset the router to factory default settings:

1. Click FACTORY RESTORE to reset the router.

Factory Default Restore		
Restore all settings to default values.		
	FACTORY RESTORE	

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

Note:

- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

6.4. Administration

6.4.1. Change Password

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to System > Administration, and focus on the Change Password section.

Change Password			
Change the router's local management p	assword.		
Old Password:		ø	
New Password:		ø	
Confirm New Password:		ø	

3. Enter the old password, then a new password twice (both case-sensitive). Click SAVE.

4. Use the new password for future logins.

6.4.2. Local Management

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > Administration, and focus on the Local Management section.
- Allow all LAN connected devices to manage the router:

Select All Devices for Local Managers.

-				
Access and manage the	router from local r	network devices.		

• Allow specific devices to manage the router:

1. Select Specified Devices for Local Managers and click SAVE.

cess and manage the router from		
Local Manag	ers: Specified Devices V	
		Add Device
Description	MAC Address	Operation

2. Click Add Device.

Add Device							
Descrip	tion:						
	(VIEW	CON	IECTE	D DEV	VICES	
MAC Addr	ess:	2	\$	3	8	5	
					C	ANCEL	SAVE

- 3. Click VIEW CONNECTED DEVICES and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.
- 4. Specify a Description for this entry.
- 5. Click SAVE.

6.5. System Log

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > System Log, and you can view the logs of the router.

	Current Time:	19/11/2019 19:44:20
Search	Q	🔂 Refresh 🛛 🗳 Clear Al
	00:00:18, [wan]Atta 00:00:18, [httpd]Htt	

3. Click SAVE TO LOCAL to save the system logs to a local disk.

6.6. Time Settings

This page allows you to set the time manually or to configure automatic time synchronization. The router can automatically update the time from an NTP server via the internet.

1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.

2. Go to System > Time.

• To set System Time:

et the router's system time.		
Current Time:	19/11/2019 19:44:20	
24-Hour Time:		
Set Time:	Get from Internet	~.)
Time Zone:	(UTC-08:00) Coordinated Universit	al Time-08 🔍
NTP Server I:	time.nist.gov	
NTP Server II:	time-nw.nist.gov	(Optional)

- 1. Select the way in which the router gets its time: Get from Internet, Get from Managing Device, Manually.
- 2. Select your local Time Zone.
- 3. Enter the address or domain of the NTP Server 1 or NTP Server 2.
- 4. Click SAVE.

• To set up Daylight Saving Time:

1. Select Enable Daylight Saving.

utomatically synchronize the	e system tin	ne with day	light savir	ng time.		
Daylight Sav	ing Time:	Enable	le			
Si	tart: 2019	Mar	\checkmark	2nd	~	
		Sun	~	02:00	~	
E	ind: 2019	Nov	~	First	\checkmark	
		Sun	~	02:00	~	

- 2. Select the start time from the drop-down list in the Start fields.
- 3. Select the end time from the drop-down list in the End fields.
- 4. Click SAVE.

Note:

This setting will be used for some time-based functions such as firewall. You must specify your time zone once you log in to the router successfully; otherwise, time-based functions will not take effect.

6.7. Reboot

Some settings of the router will take effect only after rebooting, and the system will reboot automatically. You can also reboot the router to clear cache and enhance running performance.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > Reboot, and you can restart your router.

• To reboot the router manually:

Click REBOOT, and wait a few minutes for the router to reboot.

ance.		
	REBOOT	REBOOT

- To set the router to reboot regularly:
- 1. Tick the Enable box of Reboot Schedule.
- 2. Specify the Reboot Time when the router reboots and Repeat to decide how often it reboots.
- 3. Click SAVE.

Reboot Schedule		
Set when and how often the router rebo	ots automatically.	
Reboot Schedule:	Enable	
Note: Make sure Time Settings are con	ect before using this function	
Current Time:		
Reboot Time:	00 🗸 : 00	\sim
Repeat:	Every Week	\sim
	Monday	~

6.8. LED Control

The LED of the router indicates its activities and status. You can enable the Night Mode feature to specify a time period during which the LED is off.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to System > LED Control.
- 3. Enable Night Mode.

Turn the router's LEDs on or off.				
LED Stat	tus: 🚺			
Night Mode				
Set a time period when the LEDs wil	l be off autom	atically.		
Night Mo	de: 🔽 Ena	ble		
			tion.	
Note: Make sure Time Settings are o			tion.	
Night Mo Note: Make sure Time Settings are o Current Time: LED Off Fro	correct before			

4. Specify the LED off time, and the LED will be off during this period every day.

Note: The effective LED off time is based on the time of the router. You can go to Advanced > System > Time & Language to modify the time.

5. Click SAVE.

FAQ

Q1. What should I do if I forget my wireless password?

The default wireless password is printed on the label of the router. If the password has been altered, please connect your computer to the router using an Ethernet cable and follow the steps below:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Wireless or Advanced > Wireless > Wireless Settings or to retrieve or reset your wireless password.

Q2. What should I do if I forget my login password of the web management page?

1. Reset the router to its factory default settings.

2. Visit <u>http://tplinkwifi.net</u>, and create a password for future login.

Note: You'll need to reconfigure the router to surf the Internet once the router is reset, and please mark down your new password for future use.

Q3. What should I do if I cannot log in to the router's web management page?

This can happen for a variety of reasons. Please try the methods below to log in again.

- Make sure your computer has connected to the router correctly and the corresponding LED light up.
- Make sure the IP address of your computer is configured as Obtain an IP address automatically and Obtain DNS server address automatically.
- Make sure you enter the correct IP address to log in: <u>http://tplinkwifi.net</u> or 192.168.0.1.
- Check your computer's settings:
 - 1) Go to Start > Control Panel > Network and Internet, and click View network status and tasks.
 - 2) Click Internet Options on the bottom left.
 - 3) Click Connections and select Never dial a connection.

eneral	Security	Privacy	Content	Connections	Programs	Advanced
Nial-up	Setup.		net connec Network se		Set	up
3	Broadbar	nd Conn	ection	2000 - 12 m	Add	i]
					Add V	PN
					Remo	ve
	e Settings for a conr		ed to config	gure a proxy	Sett	ings
0	ever dial <mark>a</mark>					
			ork connection	tion is not prese	ent	
	vays ulai n rent	None	connection	1	Set de	fault
Local A	rea Netwo	rk (LAN) s	ettings –			
			to dial-up r dial-up se	connections. ettings.	LAN se	ttings

4) Click LAN settings and deselect the following three options, and click OK.

		ay override mar sable automatic		gs. To ensure the tion.
Automati	cally detect se	ettings		
Use auto	matic configur	ation script		
Address]
Proxy server	c.			
	xy server for VPN connect		se settings	will not apply to
Address	=	Port:	80	Advanced
		er for local addr	0000	

5) Go to Advanced > Restore advanced settings, and click OK.

General	Security	Privacy	Content	Connections	Programs	Advanced
Setting	s					
	Enable Move Reset Reset Browsing Autom Close Disable	s expand caret Br system ca text size text size zoom leve natically re unused for e script de e script de	aret with for to medium to medium el for new ecover fron olders in His ebugging () ebugging ()	new windows a ocus/selection of for new window while zooming ² windows and ta n page layout e story and Favo (Internet Explor	hanges ws and tabs sbs errors with C rites* er)	
	V Displa	y Accelera	ator buttor	n on selection	1	
*Tal	kes effect a	after you	restart Int	ernet Explorer		
Reset I	nternet Ex	plorer set	tings	Restore	advanced s	ettings
cond	ition.		1999 - 1997 - 1997 	to their default wser is in an un	Res	

- Use another web browser or computer to log in again.
- Reset the router to factory default settings and try again. If the login still fails, please contact the technical support.

Note: You'll need to reconfigure the router to surf the internet once the router is reset.

Q4. What should I do if I cannot access the internet even though the configuration is finished?

- 1. Visit <u>http://tplinkwifi.net</u>, and log in to with the password you set for the router.
- 2. Go to Advanced > Network > Status to check the Internet status:

If IP Address is a valid one, please try the methods below and try again:

- Your computer might not recognize any DNS server addresses, please manually configure DNS server.
 - 1) Go to Advanced > Network > DHCP Server.
 - 2) Enter 8.8.8.8 as Primary DNS, and click Save.
 - Tips: 8.8.8 is a safe and public DNS server operated by Google.

Dynamically assgin IP addresses to the o	devices connected to the router.	
DHCP Server:	C Enable	
IP Address Pool:	192.168.0.100 - 192.168.0.1	199
Address Lease Time:	120 min	utes
Default Gateway:	0.0.0.0	(Optional)
Primary DNS:	0.0.0.0	(Optional)
Secondary DNS:	0.0.0.0	(Optional)

- Restart the modem and the router.
 - 1) Power off your modem and the router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes.
 - 3) Power on the router, and wait another 1 or 2 minutes and check the Internet access.
- Reset the router to factory default settings and reconfigure the router.
- Upgrade the firmware of the router.
- Check the TCP/IP settings on the particular device if all other devices can get internet from the router.

If the IP Address is 0.0.0.0, please try the methods below and try again:

- Make sure the physical connection between the router and the modem is proper.
- Clone the MAC address of your computer.
 - 1) Visit <u>http://tplinkwifi.net</u>, and log in with the username and password you set for the router.
 - Go to Advanced > Network > Internet, select Clone Current Device MAC and click SAVE.

MAC Clone			
	Router MAC Address:	Use Default MAC Address	\sim
		Use Default MAC Address	
		Clone Current Device MAC	
NAT		Use Custom MAC Address	

- Ø Tips:
- Some ISP will register the MAC address of your computer when you access the Internet for the first time through their Cable modem, if you add a router into your network to share your Internet connection, the ISP will not accept it as the MAC address is changed, so we need to clone your computer's MAC address to the router.

• The MAC addresses of a computer in wired connection and wireless connection are different.

• Modify the LAN IP address of the router.

Note:

Most TP-Link routers use 192.168.0.1/192.168.1.1 as their default LAN IP address, it may conflict with the IP range of your existent ADSL modem/router. If so, the router is not able to communicate with your modem and cause you can't access the Internet. To resolve this problem, we need to change the LAN IP address of the router to avoid such conflict, for example, 192.168.2.1.

- 1) Visit <u>http://tplinkwifi.net</u>, and log in with the username and password you set for the router.
- 2) Go to Advanced > Network > LAN.
- 3) Modify the LAN IP address as the follow picture shows. Here we take 192.168.2.1 as an example.
- 4) Click Save.

LAN	
View and configure LAN settings.	
MAC Addre	ess: 00-19-66-CA-8B-07
IP Addre	ess: 192.168.2.1
Subnet Ma	sk: 255,255,255,0

- Restart the modem and the router.
 - 1) Power off your modem and the router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes.
 - 3) Power on the router, and wait another 1 or 2 minutes and check the internet access.
- Double check the Internet Connection Type.
 - 1) Confirm your Internet Connection Type, which can be learned from the ISP.
 - 2) Visit <u>http://tplinkwifi.net</u>, and log in with the username and password you set for the router.
 - 3) Go to Advanced > Network > WAN.
 - 4) Select your Internet Connection Type and fill in other parameters.
 - 5) Click SAVE.

Secup an internet connection with the se	ervice information provided by your ISP (internet service provided by your ISP)
Internet Connection Type:	Dynamic IP 🗸 🗸
IP Address:	10.0.2.224
Subnet Mask:	255.255.252.0
Default Gateway:	10.0.0.1
Primary DNS:	10.0.0.1
Secondary DNS:	0.0.0.0
	RENEW
	RELEASE
	Advanced Settings
DNS Address:	Get Dynamically from ISP
Primary DNS:	10.0.0.1
Secondary DNS:	0.0.0.0
MTU Size.	1500 bytes
	The default is 1500, do not change unless necessary.
Host Name:	19. JUNE 1.10

- 6) Restart the modem and the router.
- Please upgrade the firmware of the router.

If you've tried every method above but cannot access the internet, please contact the technical support.

Q5. What should I do if I cannot find my wireless network or I cannot connect to the wireless network?

If you fail to find any wireless network, please follow the steps below:

- Make sure the wireless function of your device is enabled if you're using a laptop with a built-in wireless adapter. You can refer to the relevant document or contact the laptop manufacturer.
- Make sure the wireless adapter driver is installed successfully and the wireless adapter is enabled.
 - On Windows 7
 - 1) If you see the message No connections are available, it is usually because the wireless function is disabled or blocked somehow.
 - 2) Clicking Troubleshoot and windows might be able to fix the problem by itself.
 - On Windows XP

- 1) If you see the message Windows cannot configure this wireless connection, this is usually because windows configuration utility is disabled or you are running another wireless configuration tool to connect the wireless.
- 2) Exit the wireless configuration tool (the TP-Link Utility, for example).
- 3) Select and right click My Computer on Desktop, and select Manage to open Computer Management window.
- 4) Expand Services and Applications > Services, and find and locate Wireless Zero Configuration in the Services list on the right side.
- 5) Right click Wireless Zero Configuration, and then select Properties.
- 6) Change Startup type to Automatic, click Start and make sure the Service status is Started. And then click OK.

If you can find other wireless network except your own, please follow the steps below:

• Make sure your computer/device is still in the range of your router/modem. Move closer if it is currently too far away.

If you can find your wireless network but fail to connect, please follow the steps below:

- Authenticating problem/password mismatch:
 - Sometimes you will be asked to type in a PIN number when you connect to the wireless network for the first time. This PIN number is different from the Wireless Password/Network Security Key. Usually you can only find it on the label of your router.



- 2) If you cannot find the PIN or PIN failed, you may choose Connecting using a security key instead, and then type in the Wireless Password/Network Security Key.
- 3) If it continues to show note of Network Security Key Mismatch, it is suggested to confirm the wireless password of your wireless router.

Note: Wireless Password/Network Security Key is case sensitive.

- Windows unable to connect to XXXX / Can not join this network / Taking longer than usual to connect to this network:
 - Check the wireless signal strength of your network, if it is weak (1~3 bars), please move the router closer and try again.
 - Change the wireless Channel of the router to 1,6,or 11 to reduce interference from other networks.
 - Re-install or update the driver for your wireless adapter of the computer.

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FCC compliance information statement



Product Name: AC1200 Dual Band Wi-Fi Router

Model Number: Archer C54

Component Name	Model		
I.T.E. Power	T090085-2B1		

Responsible party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc. Address: 145 South State College Blvd. Suite 400, Brea, CA 92821 Website: http://www.tp-link.com/us/ Tel: +1 626 333 0234 Fax: +1 909 527 6803 E-mail: sales.usa@tp-link.com

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

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

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

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

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

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

FCC RF Radiation Exposure Statement

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

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

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

Issue Date: 2020-06-28

FCC compliance information statement

Product Name: I.T.E. Power Supply Model Number: T090085-2B1 Responsible party: TP-Link USA Corporation, d/b/a TP-Link North America, Inc. Address: 145 South State College Blvd. Suite 400, Brea, CA 92821 Website: http://www.tp-link.com/us/ Tel: +1 626 333 0234 Fax: +1 909 527 6803 E-mail: sales.usa@tp-link.com

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

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

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

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

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

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

Issue Date: 2020-06-28

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.

OPERATING FREQUENCY (the maximum transmitted power)

2400 MHz -2483.5 MHz (20dBm)

5150 MHz -5250 MHz(23dBm)

EU Declaration of Conformity

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

The original EU declaration of conformity may be found at https://www.tp-link.com/en/ce

RF Exposure Information

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

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

Industry Canada Statement

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

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

National Restrictions

Attention: This device may only be used indoors in all EU member states and EFTA countries.



Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

1. The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Avertissement:

1. Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Radiation Exposure Statement:

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

Déclaration d'exposition aux radiations:

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

NCC Notice & BSMI Notice:

注意!

依據 低功率電波輻射性電機管理辦法

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

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信; 經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信,指依電信規定作業 之無線電信。低功率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機 設備之干擾。

4.7.9.1應避免影響附近雷達系統之操作。

4.7.9.2高增益指向性天線只得應用於固定式點對點系統。

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。

設備名稱: Equipmer		Dual Band		型號(型式):Archer C54 Type designation (Type)				
單元		限用物質及其化學符號 Restricted substances and its chemical symbols						
Unit	鉛 Lead (Pb)	Lead Mercury GCd Character Polybrominated Polybrominate						
PCB	0 0 0 0 0 0							
外殻	0 0 0 0 0 0							
電源供應 器	- 0 0 0 0 0							
天線	0	0 0 0 0 0 0						
備考 1. *超出 0.1 wt % 及 *超出 0.01 wt % 係指限用物質之百分比含量超出百分比含量基準值 Note 1: "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. 備考 2. *o* 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: "o" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考 3. *-* 係指該項限用物質為排除項目。 Note 3: The "-" indicates that the restricted substance corresponds to the exemption.								



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

EHC

Safety Information

• Keep the device away from water, fire, humidity or hot environments.

- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended
- Do not use the device where wireless devices are not allowed.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

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

Explanations of the symbols on the product label

Symbol	Explanation
\sim	Alternating current
	DC voltage
	Class II equipment
\$- C -\$	Polarity of d.c. power connector
VI	Energy efficiency Marking
	Indoor use only
	Operator's manual
X	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.