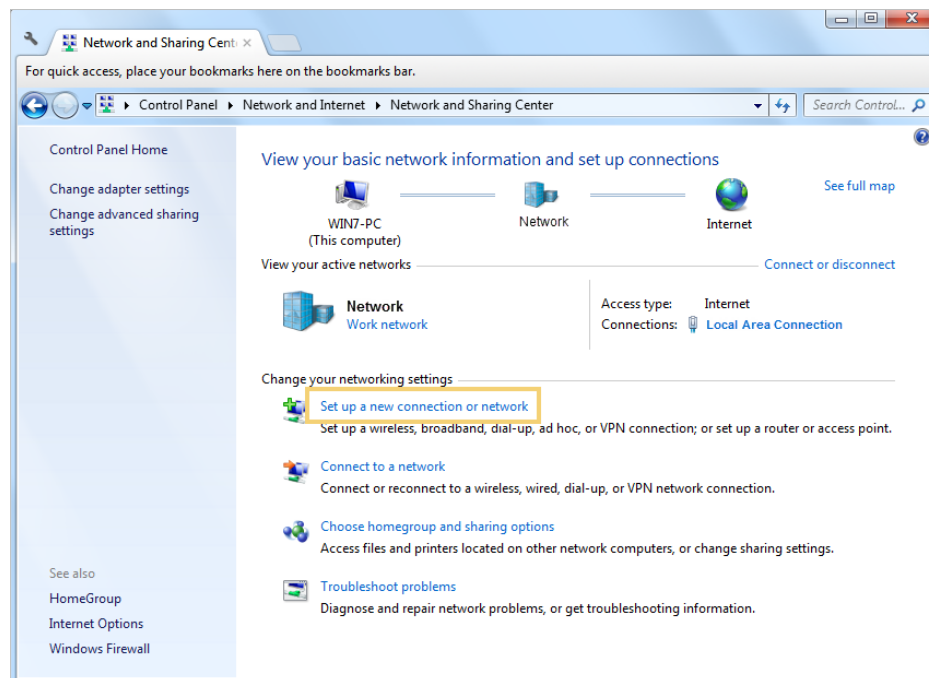


- 1) Click [Add](#).
- 2) Enter the [Username](#) and [Password](#) to authenticate devices to the PPTP VPN Server.
- 3) Click [OK](#).

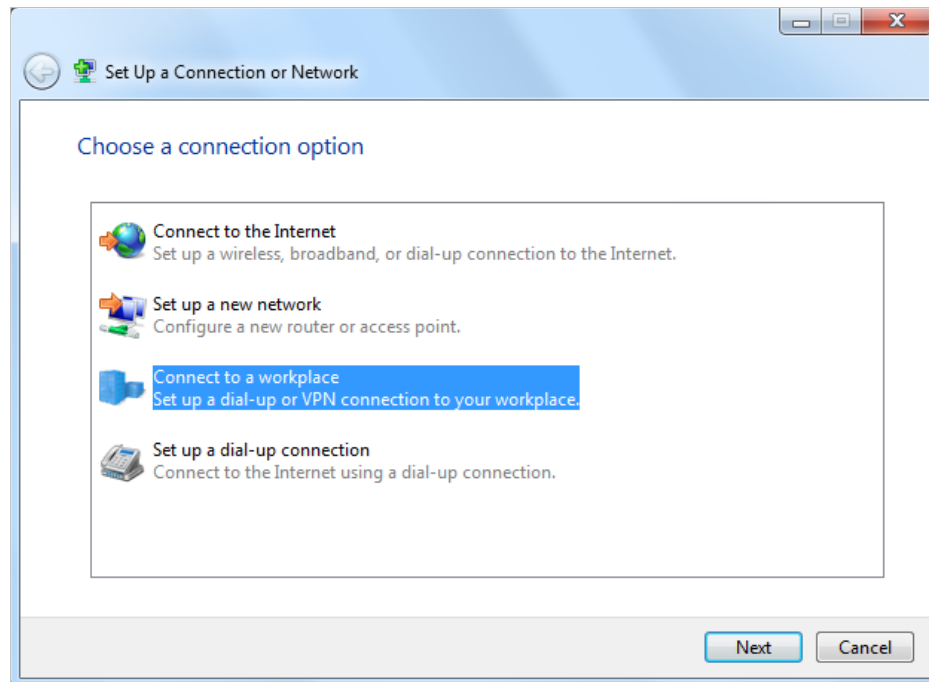
### 10.2.2. Step 2. Configure PPTP VPN Connection on Your Remote Device

The remote device can use the Windows built-in PPTP software or a third-party PPTP software to connect to PPTP Server. Here we use the [Windows built-in PPTP software](#) as an example.

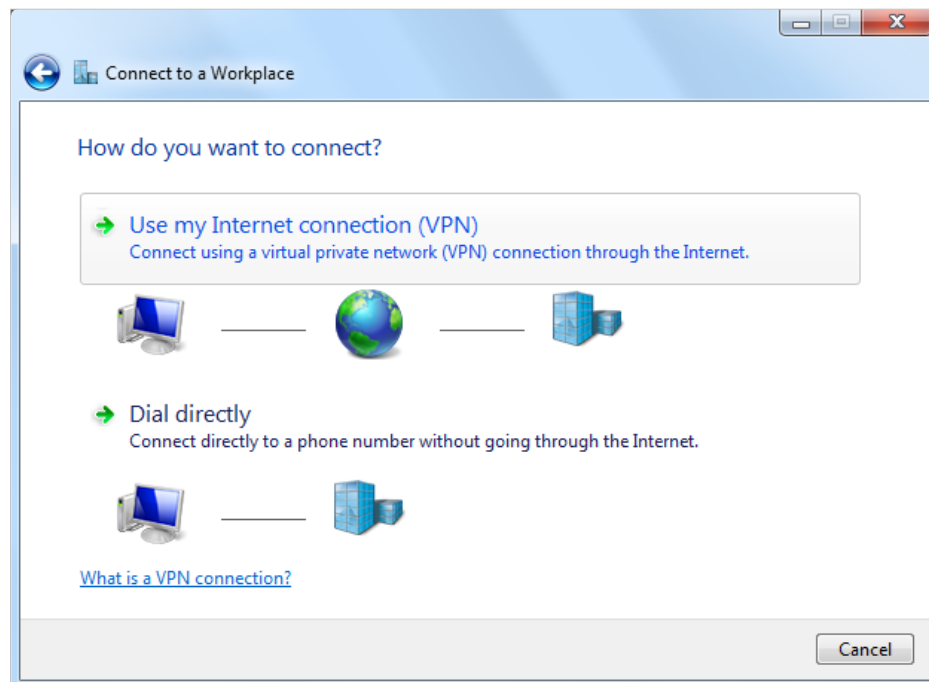
1. Go to [Start](#) > [Control Panel](#) > [Network and Internet](#) > [Network and Sharing Center](#).
2. Select [Set up a new connection or network](#).



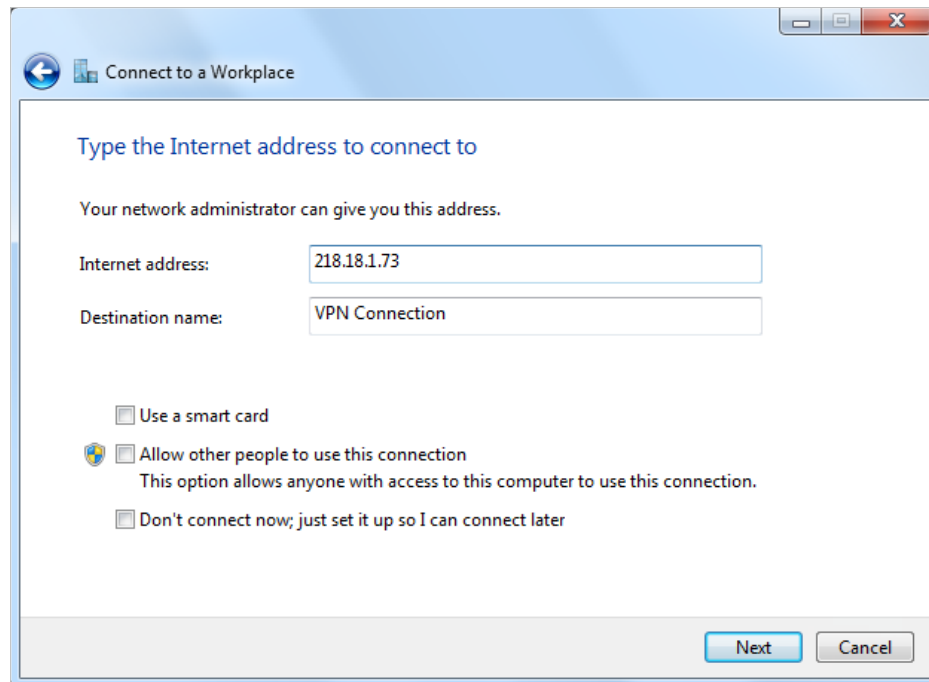
3. Select [Connect to a workplace](#) and click [Next](#).



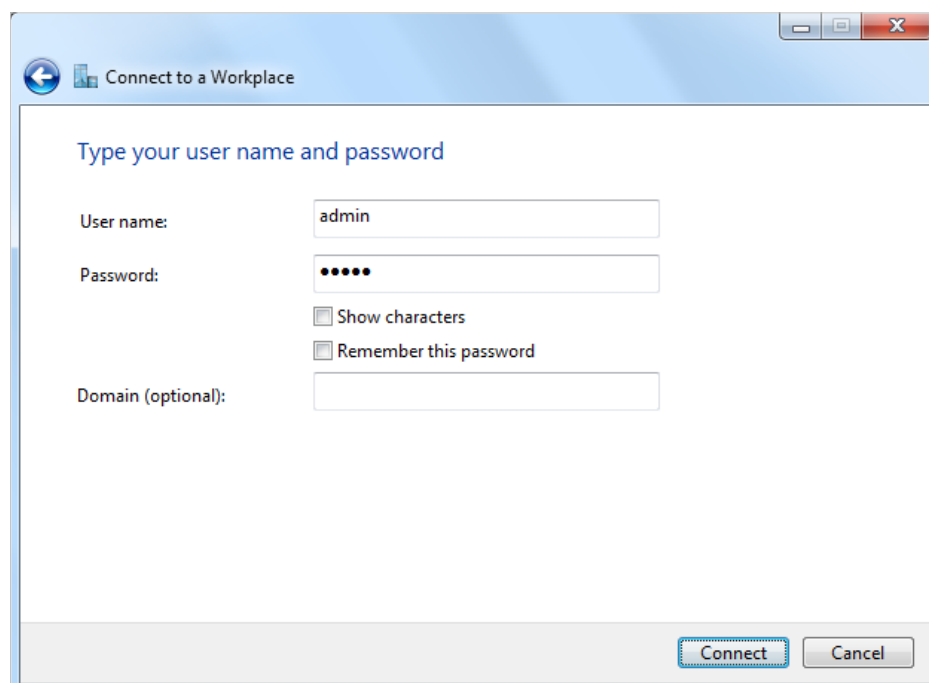
4. Select **Use my Internet connection (VPN)**.



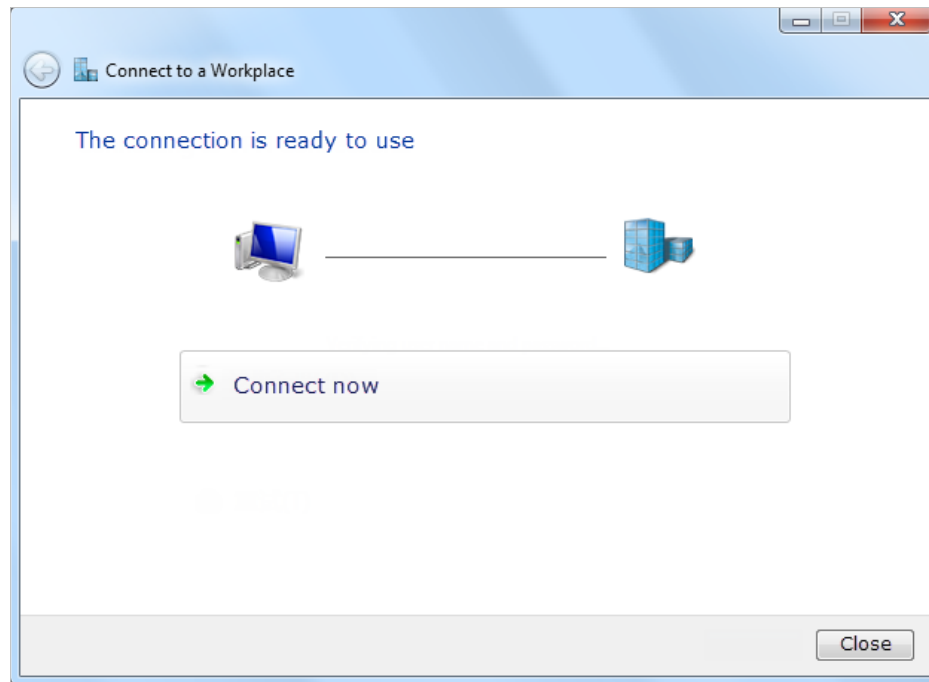
5. Enter the internet IP address of the router (for example: 218.18.1.73) in the **Internet address** field. Click **Next**.



6. Enter the **User name** and **Password** you have set for the PPTP VPN server on your router, and click **Connect**.



7. The PPTP VPN connection is created and ready to use.



## Chapter 11

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# Customize Your Network Settings

---

This chapter guides you on how to configure advanced network features.

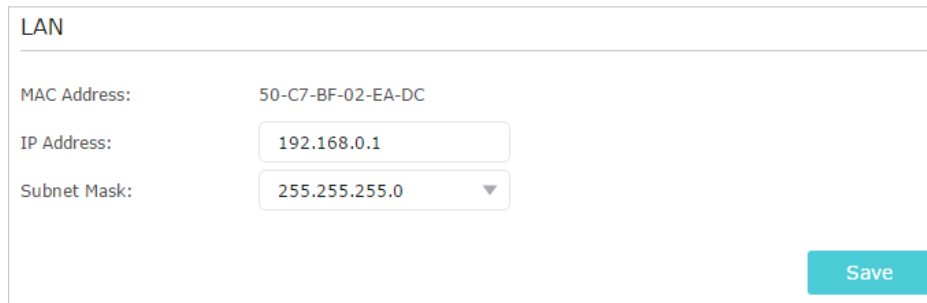
It contains the following sections:

- [Change the LAN Settings](#)
- [Configure to Support IPTV Service](#)
- [Specify DHCP Server Settings](#)
- [Set Up a Dynamic DNS Service Account](#)
- [Create Static Routes](#)
- [Specify Wireless Settings](#)
- [Use WPS for Wireless Connection](#)

## 11.1. Change the LAN Settings

The router is preset with a default LAN IP 192.168.0.1, which you can use to log in to its web management page. The LAN IP address together with the Subnet Mask also defines the subnet that the connected devices are on. If the IP address conflicts with another device on your local network or your network requires a specific IP subnet, you can change it.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [LAN](#).
3. Type in a new IP Address appropriate to your needs. And leave the [Subnet Mask](#) as the default settings.



LAN

MAC Address: 50-C7-BF-02-EA-DC

IP Address:

Subnet Mask:

[Save](#)

4. Click [Save](#).

**Note:**

If you have set the Virtual Server, DMZ or DHCP address reservation, and the new LAN IP address is not in the same subnet with the old one, then you should reconfigure these features.

## 11.2. Configure to Support IPTV Service

**I want to:**

Configure IPTV setup to enable Internet/IPTV/Phone service provided by my internet service provider (ISP).

**How can I do that?**

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [IPTV/VLAN](#).
3. **If your ISP provides the networking service based on IGMP technology**, e.g. British Telecom(BT) and Talk Talk in UK:
  - 1) Tick the [IGMP Proxy](#) checkbox and select the [IGMP Version](#), either V2 or V3, as required by your ISP.

Settings

IGMP Proxy: ☒ Enable

IGMP Version: V2

2) Click [Save](#).

3) After configuring IGMP proxy, IPTV can work behind your router now. You can connect your set-top box to any of the router's Ethernet port.

**If IGMP is not the technology your ISP applies to provide IPTV service:**

1) Tick [Enable IPTV](#).

2) Select the appropriate [Mode](#) according to your ISP.

- Select [Bridge](#) if your ISP is not listed and no other parameters are required.
- Select [Custom](#) if your ISP is not listed but provides necessary parameters.

IPTV: ☒ Enable IPTV

Mode: Bridge

LAN1:

LAN2:

LAN3:

LAN4:

Singapore-ExStream

Malaysia-Unifi

Malaysia-Maxis

Vietnam-Viettel

New Zealand-UFB

Australia-NBN

Portugal-MEO

[Save](#)

3) After you have selected a mode, the necessary parameters, including the LAN port for IPTV connection, are predetermined. If not, select the LAN type to determine which port is used to support IPTV service.

4) Click [Save](#).

5) Connect the set-top box to the corresponding LAN port which is predetermined or you have specified in Step 3.

**Done!**

Your IPTV setup is done now! You may need to configure your set-top box before enjoying your TV.

**Tips:**

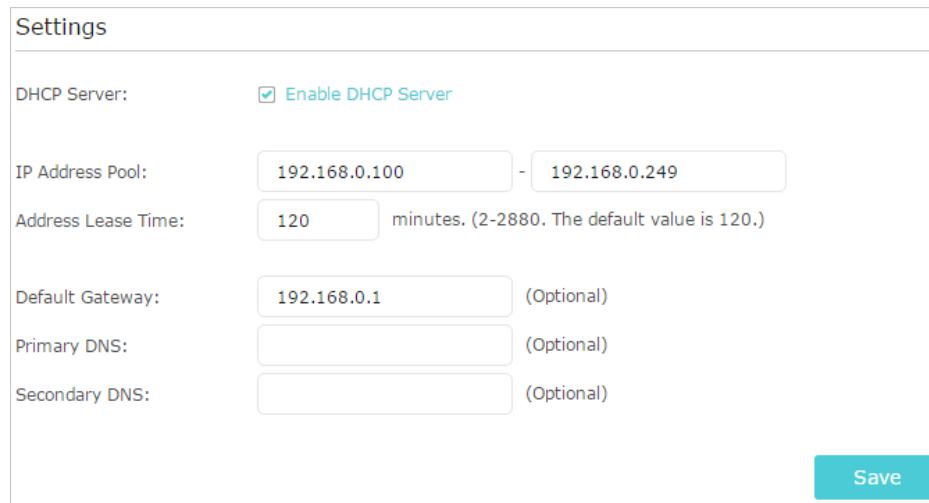
Qos and IPTV cannot be enabled at the same time.

## 11.3. Specify DHCP Server Settings

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 the DHCP Server if necessary, and you can reserve LAN IP addresses for specified client devices.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [DHCP Server](#).

➤ **To specify the IP address that the router assigns:**



The screenshot shows the 'Settings' page for the DHCP Server. It includes a checkbox to 'Enable DHCP Server', which is checked. Below this is the 'IP Address Pool' section with two input fields containing '192.168.0.100' and '192.168.0.249', separated by a hyphen. The 'Address Lease Time' is set to '120' minutes, with a note that the range is 2-2880 minutes and the default is 120. There are three optional fields: 'Default Gateway' (192.168.0.1), 'Primary DNS', and 'Secondary DNS'. A 'Save' button is located at the bottom right.

1. Tick the [Enable DHCP Server](#) 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](#).

➤ **To reserve an IP address for a specified client device:**

1. Click [Add](#) in the [Address Reservation](#) section.

Address Reservation

+ Add - Delete

| <input type="checkbox"/> | ID | MAC Address | Reserved IP Address | Description | Status | Modify |
|--------------------------|----|-------------|---------------------|-------------|--------|--------|
| <input type="checkbox"/> | -- | --          | --                  | --          | --     | --     |

MAC Address:

IP Address:

Description:

☐ Enable This Entry

Cancel OK

2. Click [View Existing Devices](#) or enter the [MAC address](#) of the client device.
3. Enter the [IP address](#) to reserve for the client device.
4. Enter the [Description](#) for this entry.
5. Tick the [Enable This Entry](#) checkbox and click [OK](#).

## 11.4. Set Up a Dynamic DNS Service Account

Most ISPs assign a dynamic IP address to the router and you can use this IP address to access your router remotely. However, the IP address can change from time to time and you don't know when it changes. In this case, you might apply the DDNS (Dynamic Domain Name Server) feature on the router to allow you and your friends to access your router and local servers (FTP, HTTP, etc.) using a domain name without checking and remembering the IP address.

**Note:**

DDNS does not work if the ISP assigns a private WAN IP address (such as 192.168.1.x) to the router.

1. Visit <http://tplinkwifi.net>, and log in with the 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 [Go to register...](#)
4. Enter the username, password and domain name of your account.

Dynamic DNS

Service Provider:

☒ NO-IP ☐ DynDNS [Go to register...](#)

Username:

Password:

Domain Name:

Update Interval:

1 hour

WAN IP binding:

☒ Disable ☐ Enable

Login and Save

Logout

✖

Not launching

5. Click [Login and Save](#).
- 🔗 Tips:

If you want to use a new DDNS account, please click [logout](#) first, and then log in with a new account.

## 11.5. Create Static Routes

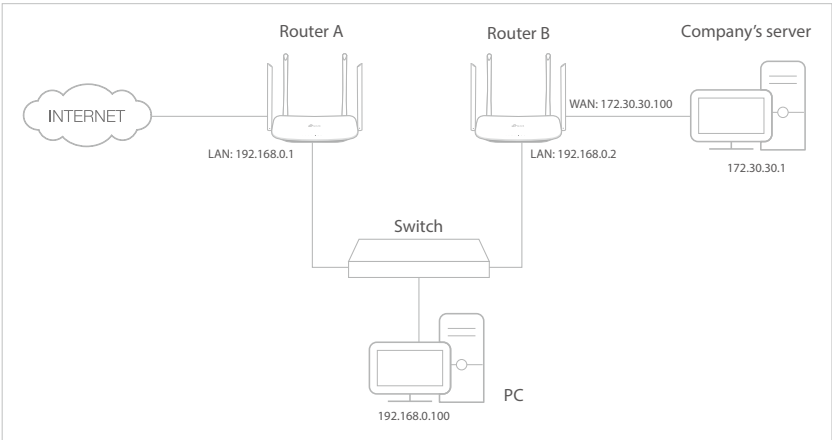
Static routing is a form of routing that is configured manually by a network administrator or a user by adding entries into a routing table. The manually-configured routing information guides the router in forwarding data packets to the specific destination.

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 <http://tplinkwifi.net>, and log in with the password you set for Router A.
3. Go to **Network > Advanced Routing**.
4. Click **Add** and finish the settings according to the following explanations:

Static Routing

[+ Add](#) [- Delete](#)

| <input type="checkbox"/> | ID | Network Destination | Subnet Mask | Default Gateway | Interface | Description | Status | Modify |
|--------------------------|----|---------------------|-------------|-----------------|-----------|-------------|--------|--------|
| <input type="checkbox"/> |    |                     |             |                 |           |             |        |        |

Network Destination:

Subnet Mask:

Default Gateway:

Interface:

Description:

☒ Enable This Entry

[Cancel](#) [OK](#)

**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:** Determines the destination network with the destination IP address. If the destination is a single IP address, enter 255.255.255.255; otherwise, enter the subnet mask of the corresponding network IP. In the example, the destination network is a single IP, so here enter 255.255.255.255.

**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 **OK**.
6. Check the **System Routing Table** below. If you can find the entry you've set, the static routing is set successfully.

| System Routing Table    |                     |               |         |                                                                                             |
|-------------------------|---------------------|---------------|---------|---------------------------------------------------------------------------------------------|
| Active Routes Number: 1 |                     |               |         |  Refresh |
| ID                      | Network Destination | Subnet Mask   | Gateway | Interface                                                                                   |
| 1                       | 192.168.0.0         | 255.255.255.0 | 0.0.0.0 | lan                                                                                         |

**Done!**

Open a web browser on your PC. Enter the company server's IP address to visit the company network.

## 11.6. Specify Wireless Settings

The router's wireless network name (SSID) and password, and security option are preset in the factory. The preset SSID and password can be found on the label of the router. You can customize the wireless settings according to your needs.

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

### ➤ To enable or disable the wireless function:

1. Go to **Basic > Wireless**.
2. The wireless radio is enabled by default. If you want to disable the wireless function of the router, just untick the **Enable Wireless Radio** checkbox. In this case, all the wireless settings will be invalid.

### ➤ To change the wireless network name (SSID) and wireless password:

1. Go to **Basic > Wireless**.
2. Create a new SSID in **Network Name (SSID)** and customize the password for the network in **Password**. The value is case-sensitive.

#### Note:

If you change the wireless settings with a wireless device, you will be disconnected when the settings are effective. Please write down the new SSID and password for future use.

### ➤ To hide SSID:

1. Go to **Basic > Wireless**.
2. Select **Hide SSID**, and your SSID won't display when you scan for local wireless networks on your wireless device and you need to manually join the network.

➤ **To change the security option:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select the wireless network [2.4GHz](#) or [5GHz](#).
3. Select an option from the [Security](#) drop-down list. We recommend you don't change the default settings unless necessary. If you select other options, configure the related parameters according to the help page.

**In addition**

- [Mode](#) - Select a transmission mode according to your wireless client devices. It is recommended to just leave it as default.
- [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](#), if you are not experiencing the intermittent wireless connection issue.
- [Transmit Power](#) - Select either [High](#), [Middle](#) or [Low](#) to specify the data transmit power. The default and recommended setting is [High](#).

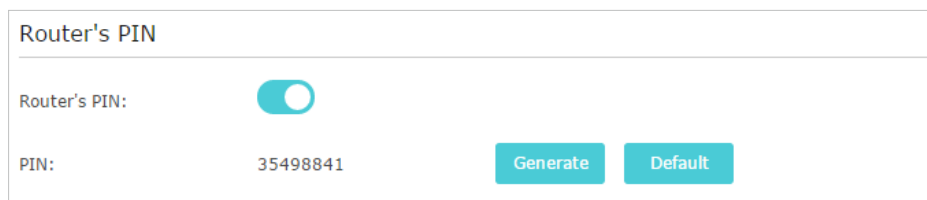
## 11.7. Use WPS for Wireless Connection

Wi-Fi Protected Setup (WPS) provides an easier approach to set up a security-protected Wi-Fi connection.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [WPS](#).

### 11.7.1. Set the Router's PIN

Router's PIN is enabled by default to allow wireless devices to connect to the router using the PIN. You can use the default one or generate a new one.



Router's PIN

Router's PIN: ☒

PIN: 35498841 [Generate](#) [Default](#)

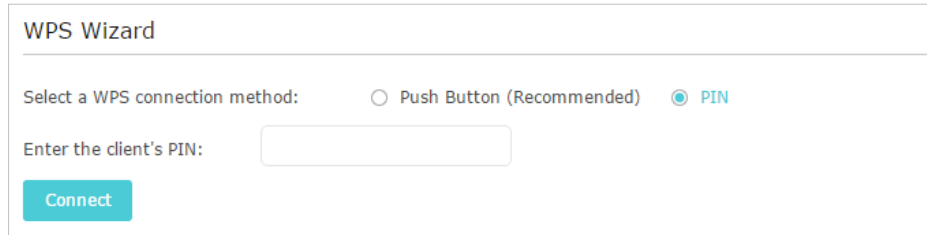
**Note:**

- If you want to enable/disable the WPS feature, go to [System Tools](#) > [System Parameters](#) > [WPS](#), tick or untick the [Enable WPS](#) checkbox.
- 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 the router.

### 11.7.2. Use the WPS Wizard for Wi-Fi Connections

1. Select a setup method:

- **Push Button (Recommended):** Click [Connect](#) on the screen. Within two minutes, press the WPS button on the client device.
- **PIN:** Enter the client's PIN, and click [Connect](#).

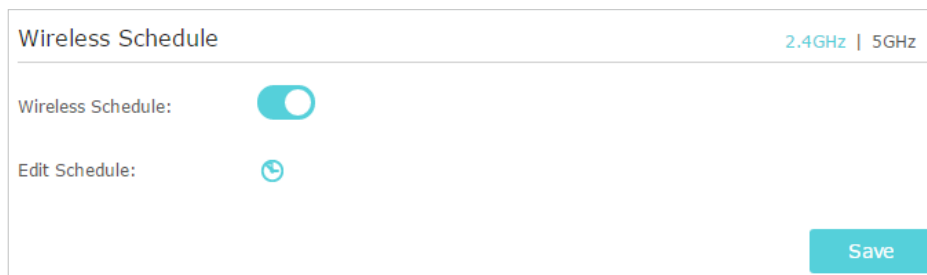
A screenshot of the WPS Wizard interface. At the top, it says "WPS Wizard". Below that, it says "Select a WPS connection method:". There are two radio buttons: "Push Button (Recommended)" which is unselected, and "PIN" which is selected. Below the radio buttons, it says "Enter the client's PIN:" followed by a text input field. At the bottom left, there is a blue "Connect" button.

2. [Success](#) will appear on the above screen and the WPS LED on the router will keep on for five minutes if the client has been successfully added to the network.

## 11.8. Schedule Your Wireless Function

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

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [Wireless Schedule](#).
3. Select [2.4GHz](#) or [5GHz](#) to change the corresponding settings.
4. Enable the [Wireless Schedule](#) feature.

A screenshot of the Wireless Schedule interface. At the top, it says "Wireless Schedule" and "2.4GHz | 5GHz". Below that, it says "Wireless Schedule:" followed by a toggle switch that is turned on. Below that, it says "Edit Schedule:" followed by a clock icon. At the bottom right, there is a blue "Save" button.

5. Click the icon  to set the effective time. Drag the cursor over the cells to choose the period during which you need the wireless off automatically, and click [OK](#).

System Time: Sun 23th Sep 2018 18:37:07 GMT-08:00 ✕

|       | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|-------|--------|---------|-----------|----------|--------|----------|--------|
| 00:00 |        |         |           |          |        |          |        |
| 01:00 |        |         |           |          |        |          |        |
| 02:00 |        |         |           |          |        |          |        |
| 03:00 |        |         |           |          |        |          |        |
| 04:00 |        |         |           |          |        |          |        |
| 05:00 |        |         |           |          |        |          |        |
| 06:00 |        |         |           |          |        |          |        |
| 07:00 |        |         |           |          |        |          |        |
| 08:00 |        |         |           |          |        |          |        |
| 09:00 |        |         |           |          |        |          |        |
| 10:00 |        |         |           |          |        |          |        |
| 11:00 |        |         |           |          |        |          |        |
| 12:00 |        |         |           |          |        |          |        |
| 13:00 |        |         |           |          |        |          |        |
| 14:00 |        |         |           |          |        |          |        |
| 15:00 |        |         |           |          |        |          |        |
| 16:00 |        |         |           |          |        |          |        |
| 17:00 |        |         |           |          |        |          |        |
| 18:00 |        |         |           |          |        |          |        |
| 19:00 |        |         |           |          |        |          |        |
| 20:00 |        |         |           |          |        |          |        |
| 21:00 |        |         |           |          |        |          |        |
| 22:00 |        |         |           |          |        |          |        |
| 23:00 |        |         |           |          |        |          |        |
| 24:00 |        |         |           |          |        |          |        |

☒ Effective Time

6. Click [Save](#).

7. If you also want to set wireless off time for other band(s), please repeat the steps above.

**Note:**

- The Effective Time Schedule is based on the time of the router. You can go to [Advanced > System Tools > Time Settings](#) to modify the time.
- The wireless LED will be off if the corresponding wireless network is disabled.
- The wireless network will be automatically turned on after the time period you set.

## 11.9. TxBF, MU-MIMO

TxBF, MU-MIMO (Transmit Beamforming, Multi-User Multiple-Input Multiple-Output) enables the router to boost network capacity and strengthen Wi-Fi signals. Select the checkbox to enable this feature.

TxBF, MU-MIMO

TxBF, MU-MIMO: ☐ Enable TxBF, MU-MIMO

## Chapter 12

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# Manage the Router

---

This chapter will show you the configuration for managing and maintaining your router.

It contains the following sections:

- [Set Up System Time](#)
- [Control LEDs](#)
- [Test the Network Connectivity](#)
- [Upgrade the Firmware](#)
- [Backup and Restore Configuration Settings](#)
- [Set the Router to Reboot Regularly](#)
- [Change the Login Password](#)
- [Password Recovery](#)
- [Local Management](#)
- [Remote Management](#)
- [System Log](#)
- [Monitor the Internet Traffic Statistics](#)

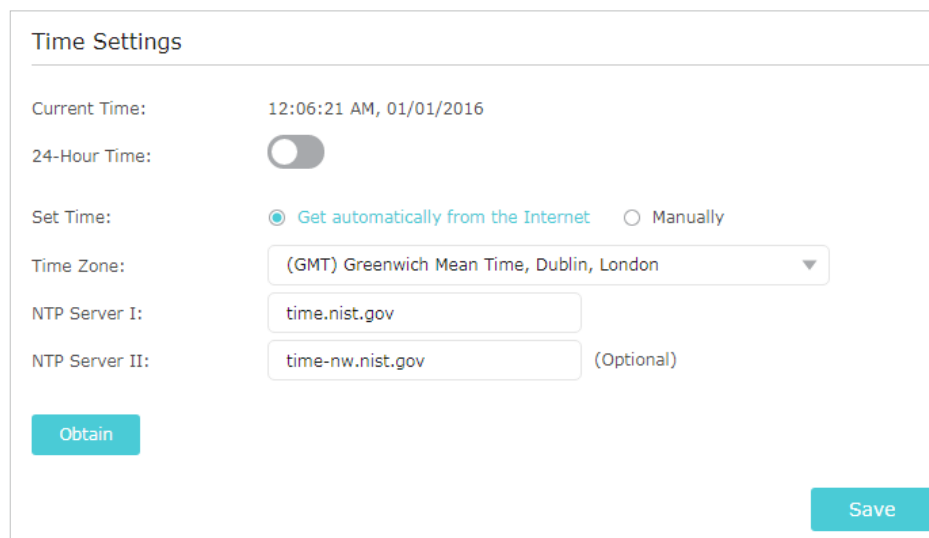
## 12.1. Set Up System Time

System time is the time displayed while the router is running. The system time you configure here will be used for other time-based functions like Parental Controls. You can choose the way to obtain the system time as needed.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to **Advanced** > **System Tools** > **Time Settings**. It is 12-hour time by default, and you can toggle on to change to 24-hour time.

➤ **To get time from the internet:**

1. In the **Set Time** field, select **Get automatically from the Internet**.



The screenshot shows the 'Time Settings' page. At the top, it displays 'Current Time: 12:06:21 AM, 01/01/2016'. Below this is a '24-Hour Time' toggle switch, which is currently turned off. The 'Set Time' section has two radio buttons: 'Get automatically from the Internet' (which is selected) and 'Manually'. The 'Time Zone' is set to '(GMT) Greenwich Mean Time, Dublin, London' in a dropdown menu. The 'NTP Server I' field contains 'time.nist.gov'. The 'NTP Server II' field contains 'time-nw.nist.gov' with a note '(Optional)' next to it. At the bottom left is an 'Obtain' button, and at the bottom right is a 'Save' button.

2. Select your local **Time Zone** from the drop-down list.
3. In the **NTP Server I** field, enter the IP address or domain name of your desired NTP Server.
4. (Optional) In the **NTP Server II** field, enter the IP address or domain name of the second NTP Server.
5. Click **Obtain** to get the current Internet time and click **Save**.

➤ **To manually set the date and time:**

1. In the **Set Time** field, select **Manually**.

**Time Settings**

Current Time: 12:10:23 AM, 01/01/2016

24-Hour Time: ☐

Set Time: ☐ Get automatically from the Internet ☒ Manually

Date:  MM/DD/YYYY

Time:  :  :  (HH/MM/SS)

[Save](#)

2. Set the current [Date](#) (In [MM/DD/YYYY](#) format).
3. Set the current [Time](#) (In [HH/MM/SS](#) format).
4. Click [Save](#).

➤ **To set up Daylight Saving Time:**

1. Select [Enable Daylight Saving Time](#).

**Daylight Saving Time**

☒ [Enable Daylight Saving Time](#)

Start: 2016

End: 2016

Running Status: Daylight Saving Time is on.

[Save](#)

2. Select the correct [Start](#) date and time when daylight saving time starts at your local time zone.
3. Select the correct [End](#) date and time when daylight saving time ends at your local time zone.
4. Click [Save](#).

## 12.2. Control LEDs

The router's LEDs indicate router's activities and status. You can turn on or turn off the LEDs either from the web management page or by pressing the LED button.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [System Parameters](#).
3. In the [LED Control](#) section, toggle to turn on / off the LED.

4. You can enable **Night Mode** if needed, and set a time period, and then the LEDs will be off during this period.

**LED Control**

LED Status: ☒

**Night Mode**

**Note:** Before enabling Night Mode, please make sure the [System Time](#) is correct.

Current Time: 07/07/2017 01:13:48

Night Mode: (everyday) ☒ Enable

LED Off Time:

From: 22:00

To: 06:00 next day

Save

5. Click **Save**.

## 12.3. Test the Network Connectivity

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

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to **Advanced > System Tools > Diagnostics**.

**Diagnostics**

Diagnostic Tool: ☒ Ping ☐ Traceroute

IP Address/Domain Name:

Start

3. Enter the information with the help of page tips:
  - 1) Choose **Ping** or **Traceroute** 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.
    - **Traceroute** 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.

4. Click [Start](#) to begin the diagnostics.

 **Tips:**

Click [Advanced](#), you can modify the ping count, ping packet size or the Traceroute Max TTL. It's recommended to keep the default value.

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

```
PING www.Yahoo.com (116.214.12.74): 64 data bytes
Reply from 116.214.12.74: bytes=64 ttl=50 seq=1 time=51.640 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=2 time=53.671 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=3 time=56.045 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=4 time=57.857 ms

--- Ping Statistic "www.Yahoo.com" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 51.640/54.803/57.857 ms
```

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through [Traceroute](#).

```
traceroute to www.Yahoo.com (116.214.12.74), 20 hops max, 38 byte packets
 1 219.133.12.1 (219.133.12.1) 19.556 ms 22.274 ms 22.024 ms
 2 113.106.38.77 (113.106.38.77) 30.115 ms 22.649 ms 20.931 ms
 3 * * *
 4 183.56.65.14 (183.56.65.14) 26.210 ms 29.428 ms 28.272 ms
 5 * 202.97.60.25 (202.97.60.25) 29.272 ms 25.461 ms
 6 202.97.60.46 (202.97.60.46) 27.335 ms 27.616 ms 28.272 ms
 7 202.97.60.149 (202.97.60.149) 22.805 ms 24.024 ms 24.711 ms
 8 202.97.6.30 (202.97.6.30) 47.610 ms 54.452 ms 61.137 ms
 9 r4105-s2.tp.hinet.net (220.128.6.110) 51.171 ms 50.515 ms 56.107 ms
10 220.128.11.190 (220.128.11.190) 60.950 ms 60.200 ms 60.419 ms
```

## 12.4. Upgrade the Firmware

TP-Link aims at providing better network experience for users.

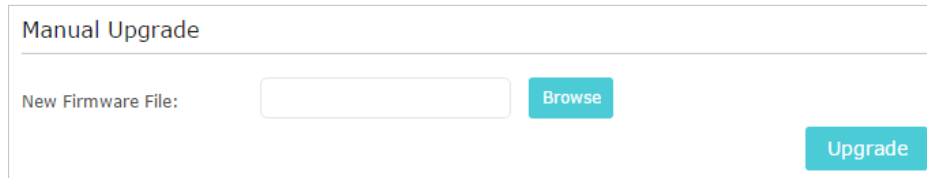
We will inform you through the web management page if there's any update firmware available for your router. Also, the latest firmware will be released at the TP-Link official website [www.tp-link.com](http://www.tp-link.com), and you can download it from the [Support](#) page for free.

 **Note:**

- Backup your router configuration before firmware upgrade.
- Do NOT turn off the router during the firmware upgrade.

1. Download the latest firmware file for the router from [www.tp-link.com](http://www.tp-link.com).
2. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
3. Go to [Advanced](#) > [System Tools](#) > [Firmware Upgrade](#).
4. Focus on the Device Information section. Make sure the downloaded firmware file is matched with the [Hardware Version](#).

5. Focus on the [Manual Upgrade](#) section. Click [Browse](#) to locate the downloaded new firmware file, and click [Upgrade](#).

A screenshot of the 'Manual Upgrade' section in a web interface. It features a title 'Manual Upgrade' at the top. Below the title, there is a label 'New Firmware File:' followed by a text input field. To the right of the input field is a teal button labeled 'Browse'. Further to the right, at the bottom of the section, is another teal button labeled 'Upgrade'.

6. Wait a few minutes for the upgrade and reboot to complete.

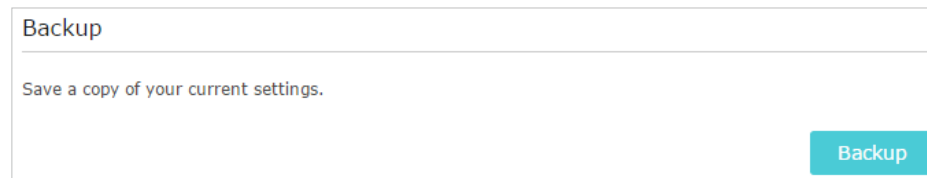
## 12.5. Backup and Restore Configuration Settings

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

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Backup & Restore](#).

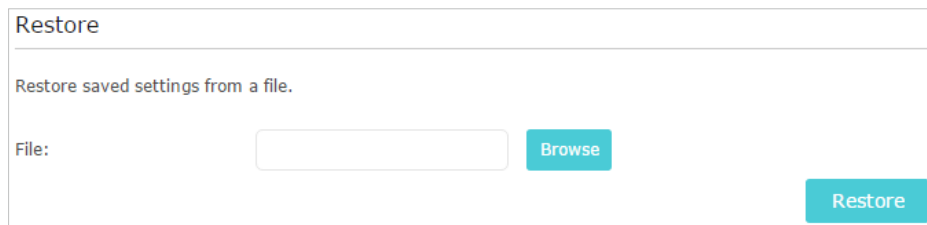
### ➤ To backup configuration settings:

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

A screenshot of the 'Backup' section in a web interface. It features a title 'Backup' at the top. Below the title, there is a text instruction 'Save a copy of your current settings.' At the bottom right of the section is a teal button labeled 'Backup'.

### ➤ To restore configuration settings from backup:

1. Click [Browse](#) to locate the backup configuration file stored on your computer, and click [Restore](#).

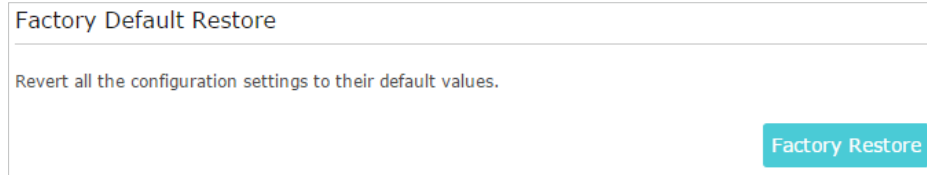
A screenshot of the 'Restore' section in a web interface. It features a title 'Restore' at the top. Below the title, there is a text instruction 'Restore saved settings from a file.' Underneath this, there is a label 'File:' followed by a text input field. To the right of the input field is a teal button labeled 'Browse'. Further to the right, at the bottom of the section, is another teal button labeled 'Restore'.

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

■ **Note:** During the restoring process, do not turn off or reset the router.

### ➤ To reset the router to factory default settings:

1. Click [Factory Restore](#) to reset the router.



Factory Default Restore

Revert all the configuration settings to their default values.

Factory Restore

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

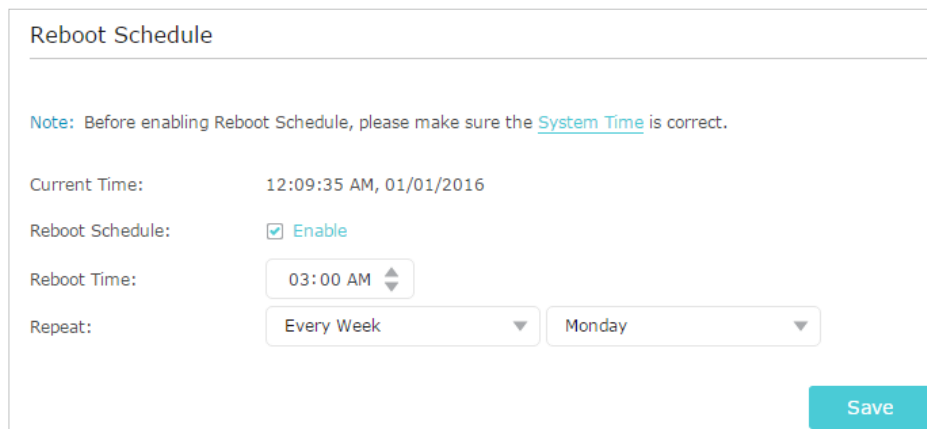
**Note:**

- 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.

## 12.6. Set the Router to Reboot Regularly

The Scheduled Reboot feature cleans the cache to enhance the running performance of the router.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Reboot Schedule](#).
3. Check the box to enable [Reboot Schedule](#).



Reboot Schedule

**Note:** Before enabling Reboot Schedule, please make sure the [System Time](#) is correct.

Current Time: 12:09:35 AM, 01/01/2016

Reboot Schedule: ☒ Enable

Reboot Time: 03:00 AM

Repeat: Every Week Monday

Save

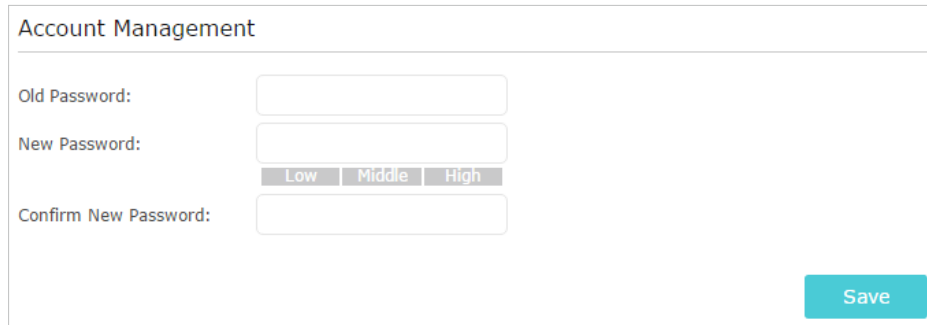
4. Specify the [Reboot Time](#) when the router reboots and [Repeat](#) to decide how often it reboots.
5. Click [Save](#).

## 12.7. Change the Login Password

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

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

2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and focus on the [Account Management](#) section.

The screenshot shows a web form titled "Account Management". It contains three input fields: "Old Password:", "New Password:", and "Confirm New Password:". The "New Password:" field has a strength indicator below it with three buttons labeled "Low", "Middle", and "High". A teal "Save" button is located at the bottom right of the form.

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

## 12.8. Password Recovery

This feature allows you to recover the login password you set for your router in case you forget it.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and focus on the [Password Recovery](#) section.
3. Tick the [Enable Password Recovery](#) checkbox.
4. Specify a [mailbox \(From\)](#) for sending the recovery letter and enter its [SMTP Server](#) address. Specify a [mailbox \(To\)](#) for receiving the recovery letter. If the mailbox (From) to send the recovery letter requires encryption, select [Enable Authentication](#) and enter its username and password.

💡 Tips:

- SMTP server is available for users in most webmail systems. For example, the SMTP server address of Gmail is smtp.gmail.com. You can refer to their Help page to learn the SMTP server address.
- Generally, Enable Authentication should be selected if the login of the mailbox requires username and password.

### Password Recovery

☒ Enable Password Recovery

From:

To:

SMTP Server:

☒ Enable Authentication

Username:

Password:

5. Click [Save](#).

You can click [Test Email](#) to test whether the configuration is successful.

To recover the login password, please visit <http://tplinkwifi.net>, click [Forgot Password?](#) on the login page and follow the instructions to set a new password.

## 12.9. Local Management

This feature allows you to limit the number of client devices on your LAN from accessing the router by using the MAC address-based authentication.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and complete the settings in [Local Management](#) section as needed.

➤ **Allow all LAN connected devices to manage the router:**

Toggle on [Access for All LAN Connected Devices](#).

### Local Management

Access for All LAN Connected Devices: ☒

Toggle On to enable the management for all devices on LAN or keep it Off to enable the management for a specific device.

➤ **Allow specific devices to manage the router:**

1. Toggle off [Access for All LAN Connected Devices](#).
2. Click [Add](#).

**Local Management**

Access for All LAN Connected Devices: ☐ Toggle On to enable the management for all devices on LAN or keep it Off to enable the management for a specific device.

+ Add - Delete

| <input type="checkbox"/> | ID | MAC Address | Description | Status | Modify |
|--------------------------|----|-------------|-------------|--------|--------|
| <input type="checkbox"/> | -- | --          | --          | --     | --     |

MAC Address:  View Existing Devices

Description:

☐ Enable This Entry

Cancel OK

|                          |   |                   |          |  |  |
|--------------------------|---|-------------------|----------|--|--|
| <input type="checkbox"/> | 1 | C0-4A-00-1A-C3-45 | Your PC! |  |  |
|--------------------------|---|-------------------|----------|--|--|

3. Click [View Existing Devices](#) and select the device to manage the router from the Existing Devices list, or enter the MAC address of the device manually.
4. Specify a [Description](#) for this entry.
5. Tick the [Enable This Entry](#) checkbox.
6. Click [OK](#).

## 12. 10. Remote Management

This feature allows you to control remote devices' authority to manage the router.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and complete the settings in [Remote Management](#) section as needed.
3. Select the checkbox to enable [Remote Management](#) function.
4. Keep the [HTTPs Port](#) and [HTTP Port](#) as the default settings.
5. Select to decide which remote device can access the router remotely. Choose [All Devices](#) to allow all remote devices to manage the router; select [Specified Device](#) and enter the IP address of a remote device to allow only this device to manage the router.
6. Click [Save](#).

### Remote Management

Remote Management: ☒ [Enable](#)

Web Address for Management: <https://0.0.0.0:443>

HTTPS Port:

HTTP Port:

Remote Managers:

[Save](#)

Devices on the internet can access manage the router via the [Web Address for Management](#), such as <https://0.0.0.0:443> shown.

## 12. 11. System Log

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

➤ **To save the system log in local:**

1. Visit <http://tplinkwifi.net>, and log in the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [System Log](#).
3. Choose the type and level of the system logs as needed.
4. Click [Save Log](#) to save the system logs to local.

System Log

Log Filter: Type= ALL and Level= ALL

Refresh Delete All

| ID | Time                | Type             | Level  | Log Content                                          |
|----|---------------------|------------------|--------|------------------------------------------------------|
| 1  | 2016-06-24 04:28:31 | Local Management | NOTICE | [19000] Accessable mode change: Devices in the list. |
| 2  | 2016-06-24 04:25:12 | Locale           | INFO   | [16605] Language is changed to 'en_US'               |
| 3  | 2016-06-24 04:25:12 | Locale           | DEBUG  | [16605] Explorer language is 'zh_CN'                 |
| 4  | 2016-06-24 04:25:02 | Locale           | INFO   | [16435] Language is changed to 'en_US'               |
| 5  | 2016-06-24 04:25:02 | Locale           | DEBUG  | [16435] Explorer language is 'zh_CN'                 |
| 6  | 2016-06-24 04:24:58 | Locale           | INFO   | [16283] Language is changed to 'en_US'               |
| 7  | 2016-06-24 04:24:58 | Locale           | DEBUG  | [16283] Explorer language is 'zh_CN'                 |

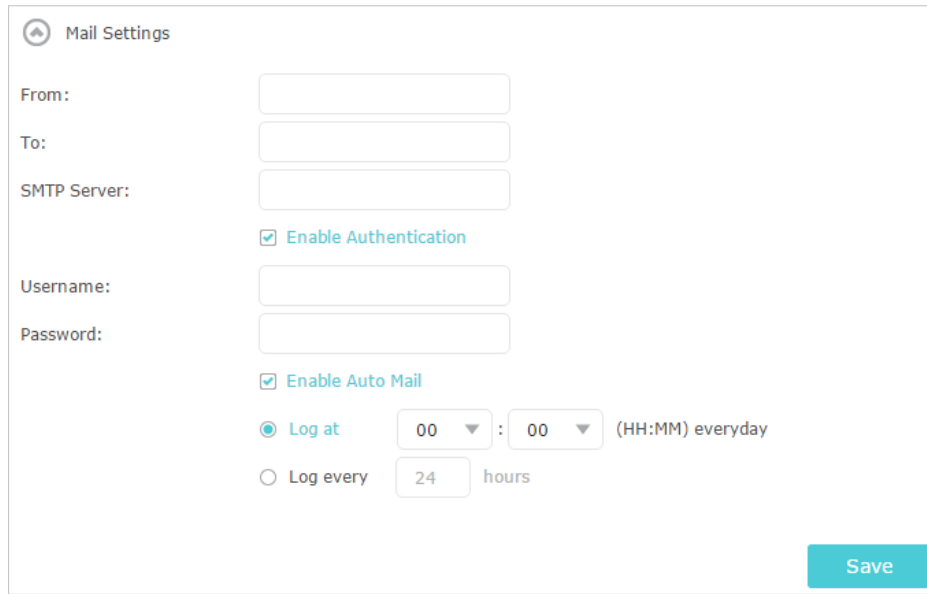
Mail Settings

Mail Log Save Log

➤ To send the system log to a mailbox at a fixed time:

For example, I want to check my router's working status at a fixed time every day, however, it's too troublesome to log in to the web management page every time I want to go checking. It would be great if the system logs could be sent to my mailbox at 8 a.m. every day.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [System Log](#).
3. Click [Mail Settings](#).
4. Enter the information required:

The image shows a 'Mail Settings' configuration page. It includes input fields for 'From:', 'To:', 'SMTP Server:', 'Username:', and 'Password:'. There are two checkboxes: 'Enable Authentication' and 'Enable Auto Mail', both of which are checked. Below these, there are two options for logging: 'Log at' and 'Log every'. The 'Log at' option is selected, showing a time of '00 : 00 (HH:MM) everyday'. The 'Log every' option shows '24 hours'. A 'Save' button is located at the bottom right of the form.

- 1) **From:** Enter the email address used for sending the system log.
- 2) **To:** Enter the recipient's email address, which can be the same as or different from the sender's email address.
- 3) **SMTP Server:** Enter the SMTP server address.

☞ **Tips:** SMTP server is available for users in most webmail systems. For example, the SMTP server address of Hotmail is smtp-mail.outlook.com. You can refer to their Help page to learn the SMTP server address.

- 4) Select **Enable Authentication**.

☞ **Tips:** Generally, Enable Authentication should be selected if the login of the mailbox requires username and password.

- 5) **Username:** Enter the email address used for sending the system log.
- 6) **Password:** Enter the password to login the sender's email address.
- 7) Select **Enable Auto Mail**.

☞ **Tips:** The router will send the system log to the designated email address if this option is enabled.

- 8) Set a fixed time. The recipient will receive the system log sent at this time every day.

5. Click **Save**.

## 12. 12. Monitor the Internet Traffic Statistics

The Traffic Statistics page displays the network traffic of the LAN, WAN and WLAN sent and received packets, allowing you to monitor the volume of Internet traffic statistics.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to **Advanced > System Tools > Traffic Statistics**.

3. Toggle on [Traffic Statistics](#), and then you can monitor the traffic statistics in [Traffic Statistics List](#) section.

Traffic Statistics

Traffic Statistics: ☒

Traffic Statistics List

Refresh

Reset All

Delete All

| IP Address/MAC Address | Total Packets | Total Bytes | Current Packets | Current Bytes | Modify |
|------------------------|---------------|-------------|-----------------|---------------|--------|
| --                     | --            | --          | --              | --            | --     |

- Click [Refresh](#) to update the statistic information on the page.
- Click [Reset All](#) to reset all statistic values in the list to zero.
- Click [Delete All](#) to delete all statistic information in the list.
- Click  to reset the statistic information of the specific device.
- Click  to delete the specific device item in the list.

## 12. 13. Configure the System Parameters

### 12. 13. 1. Wireless Advanced

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [System Parameters](#).
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.

2.4GHz Wireless

Beacon Interval:

100

(40-1000)

RTS Threshold:

2346

(1-2346)

DTIM Interval:

1

(1-15)

Group Key Update Period:

0

seconds

WMM Feature:

☒ Enable WMM

Short GI Feature:

☒ Enable Short GI

AP Isolation Feature:

☐ Enable AP Isolation

Save

- **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 1-15 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- **Group Key Update Period** - Enter the number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default is 0, indicating no key renewal.
- **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 Feature** - If you want to confine and restrict all devices connected to your network from internet interacting with each other but still able to access the internet, select the checkbox to enable this function.

## 12.13.2. WDS

For example, my house covers a large area. The wireless coverage of the router I'm using (the root router) is limited. I want to use an extended router to extend the wireless network of the root router.

### Note:

- WDS bridging only requires configuration on the extended router.
- WDS bridging function can be enabled either in 2.4GHz frequency or 5GHz frequency for a dual-band router. We use the WDS bridging function in 2.4GHz frequency as example.

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

2. Configure the IP address of the router:

- 1) Go to **Advanced > Network > LAN**, configure the IP address of the extended router to be in the same subnet with the root router; (For example, the IP address of the root router is 192.168.0.1, the IP address of the extended router can be 192.168.0.2~192.168.0.254. We take 192.168.0.2 as example.)

2) Click [Save](#).

**Note:** Log in to the web management page again if the IP address of the router is altered.

LAN

MAC Address: 50-C7-BF-02-EA-DC

IP Address: 192.168.0.2

Subnet Mask: 255.255.255.0

Save

3. Survey the SSID to be bridged:

- 1) Go to [Advanced](#) > [System Tools](#) > [System Parameters](#), focus on the [2.4GHz Wireless](#) section and click [Enable WDS Bridging](#).
- 2) Click [Survey](#), locate the root router's SSID and click [Choose](#) (Here we take TP-Link\_4F98 as example).
- 3) If the root router has wireless password, you should enter the wireless password of the root router.
- 4) Click [Save](#).

WDS Bridging: ☒ Enable WDS Bridging

SSID (to be bridged): TP-Link\_4F98 [Survey](#)

MAC Address (to be bridged): 0C-4A-08-13-4F-98 Example: 00-1D-0F-11-22-33

Security: ☐ No Security ☒ WPA-PSK/WPA2-PSK ☐ WEP

Password: 12345678

Save

4. Disable DHCP:

- 1) Go to [Network](#) > [DHCP Server](#).
- 2) Deselect [Enable DHCP Server](#) and click [Save](#).

Now you can go to [Advanced](#) > [Status](#) > [Wireless](#) to check the WDS status. When the [WDS status](#) is [Run](#), it means WDS bridging is successfully built.

### 12. 13. 3. WPS

Enable this function to easily set up and connect your WPS-enabled devices to your Wi-Fi at a push of the WPS button.

WPS

WPS: ☒ Enable WPS

Save

12. 13. 4. NAT

Select the checkbox to Enable/Disable the NAT (Network Address Translation) and NAT Boost function. The router’s NAT feature makes devices on the LAN use the same public IP address to communicate with devices on the internet, which protects the local network by hiding IP addresses of the devices.

NAT

NAT: ☐ Enable NAT

NAT Boost: ☒ Enable NAT Boost

Save

12. 13. 5. DoS Protection

DoS Protection can protect your home network against DoS attacks from flooding your network with server requests. Follow the steps below to configure DoS Protection.

- 1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
- 2. Go to [Advanced](#) > [System Tools](#) > [System Parameters](#).

DoS Protection Level Settings

|                          |         |      |                      |
|--------------------------|---------|------|----------------------|
| ICMP-FLOOD Packets Level | Low:    | 50   | (5-7200)Packets/Secs |
|                          | Middle: | 20   | (5-7200)Packets/Secs |
|                          | High:   | 10   | (5-7200)Packets/Secs |
| UDP-FLOOD Packets Level  | Low:    | 7200 | (5-7200)Packets/Secs |
|                          | Middle: | 2000 | (5-7200)Packets/Secs |
|                          | High:   | 400  | (5-7200)Packets/Secs |
| TCP-FLOOD Packets Level  | Low:    | 200  | (5-7200)Packets/Secs |
|                          | Middle: | 100  | (5-7200)Packets/Secs |
|                          | High:   | 50   | (5-7200)Packets/Secs |

Save

3. Configure [ICMP-FLOOD Attack Filtering](#), [UDP-FLOOD Attack Filtering](#) and [TCP-SYN-FLOOD Attack Filtering](#).
  - [ICMP-FLOOD Attack Filtering](#) - Enter a value between 5 and 7200 ICMP packets to trigger the ICMP-FLOOD protection immediately when the number of packets exceeds the preset threshold value.
  - [UDP-FLOOD Attack Filtering](#) - Enter a value between 5 and 7200 UDP packets to trigger the UDP-FLOOD protection immediately when the number of packets exceeds the preset threshold value.
  - [TCP-SYN-FLOOD Attack Filtering](#) - Enter a value between 5 and 7200 TCP-SYN packets to trigger the TCP-SYN-FLOOD protection immediately when the number of packets exceeds the preset threshold value.
4. Click [Save](#).

### 12. 13. 6. Duplex

Select the duplex type from the drop-down list and click [Save](#). Duplex (or full-duplex) communication can go in both directions at once, while half-duplex communication can go only one way at a time. If you are not sure, you can keep the default [Auto Negotiation](#).

Duplex

Duplex: 

Auto Negotiation ▼

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:

1. Connect your computer to the router using an Ethernet cable.
2. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
3. Go to [Basic](#) > [Wireless](#) to retrieve or reset your wireless password.

## Q2. What should I do if I forget my web management password?

- If you have enabled the Password Recovery feature of the router, click [Forgot password](#) on the login page and then follow the instructions to reset it.
- Alternatively, press and hold the Reset button of the router until the Power LED binks to reset it, and then visit <http://tplinkwifi.net> to create a new login password.

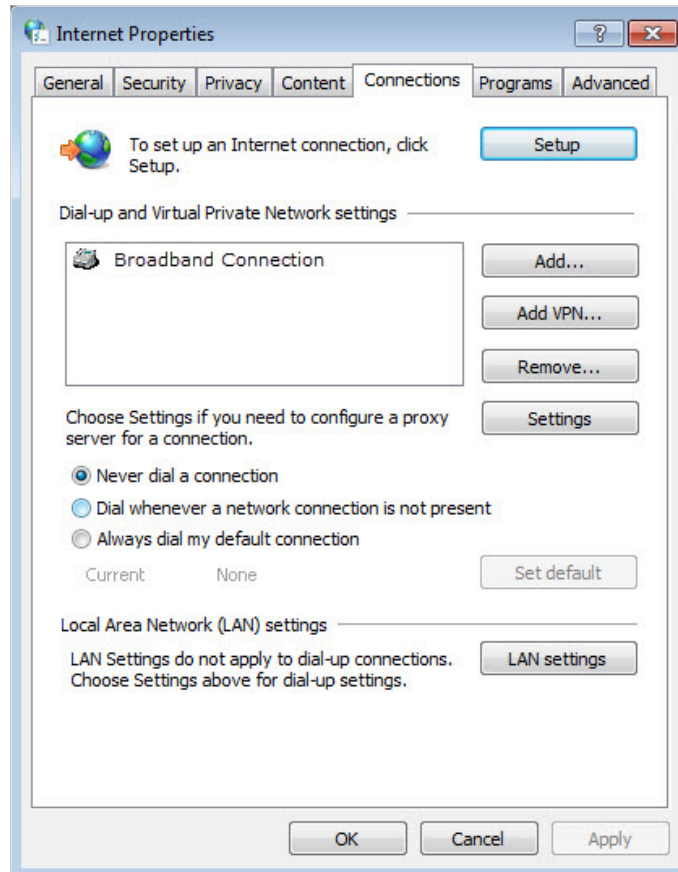
### Note:

- Please refer to [Password Recovery](#) to learn how to configure Password Recovery.
- 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.

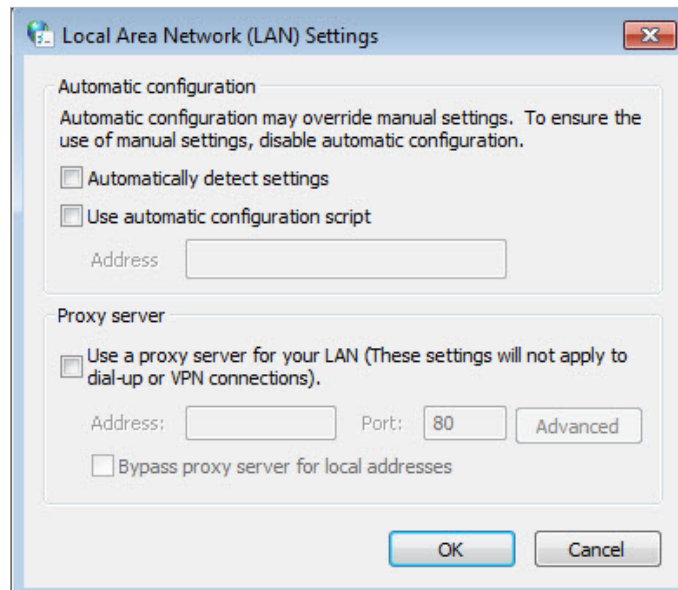
## Q3. What should I do if I cannot log in to the router's web management page?

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

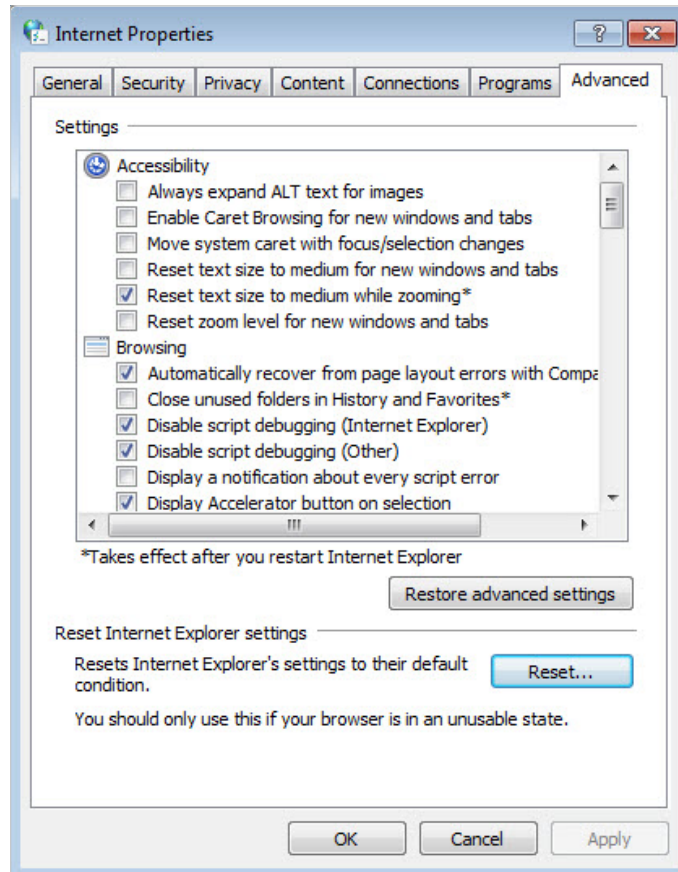
- Make sure your computer is connected to the router correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as [Obtain an IP address automatically](#) and [Obtain DNS server address automatically](#).
- Make sure <http://tplinkwifi.net> or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



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



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



- Use another web browser or computer to log in again.
- Reset the router to factory default settings and try again. If 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 <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to **Advanced** > **Status** to check internet status:

As the follow picture shows, if IP Address is a valid one, please try the methods below and try again:

Internet ✕ IPv4 | IPv6

|                  |                   |
|------------------|-------------------|
| MAC Address:     | 50-C7-BF-02-EA-DD |
| IP Address:      | 58.61.172.101     |
| Subnet Mask:     | 255.255.255.255   |
| Default Gateway: | 58.61.172.1       |
| Primary DNS:     | 202.96.134.33     |
| Secondary DNS:   | 202.96.128.86     |
| Connection Type: | PPPoE             |

- Your computer might not recognize any DNS server addresses. Please manually configure the DNS server.

1) Go to [Advanced](#) > [Network](#) > [DHCP Server](#).

2) Enter 8.8.8.8 as Primary DNS, click [Save](#).

**Tips:** 8.8.8.8 is a safe and public DNS server operated by Google.

Settings

DHCP Server: ☒ [Enable DHCP Server](#)

IP Address Pool:  -

Address Lease Time:  minutes. (1-2880. The default value is 120.)

Default Gateway:  (Optional)

Primary DNS:  (Optional)

Secondary DNS:  (Optional)

[Save](#)

- Restart the modem and the router.
  - 1) Power off your modem and router, and leave them off for 1 minute.
  - 2) Power on your modem first, and wait about 2 minutes until it gets a solid cable or Internet light.
  - 3) Power on the router.
  - 4) 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.

As the picture below shows, if the IP Address is 0.0.0.0, please try the methods below and try again:

| Field            | Value             |
|------------------|-------------------|
| MAC Address:     | 50-C7-BF-02-EA-DD |
| IP Address:      | 0.0.0.0           |
| Subnet Mask:     | 0.0.0.0           |
| Default Gateway: | 0.0.0.0           |
| Primary DNS:     | 0.0.0.0           |
| Secondary DNS:   | 0.0.0.0           |
| Connection Type: | PPPoE             |

- Make sure the physical connection between the router and the modem is proper.
- Clone the MAC address of your computer.
  - 1) Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
  - 2) Go to **Advanced** > **Network** > **Internet** and focus on the **MAC Clone** section.
  - 3) Choose an option as needed (enter the MAC address if **Use Custom MAC Address** is selected), and click **Save**.

MAC Clone

☒ Use Default MAC Address  
☐ Use Current Computer MAC Address  
☐ Use Custom MAC Address

Save

**Tips:**

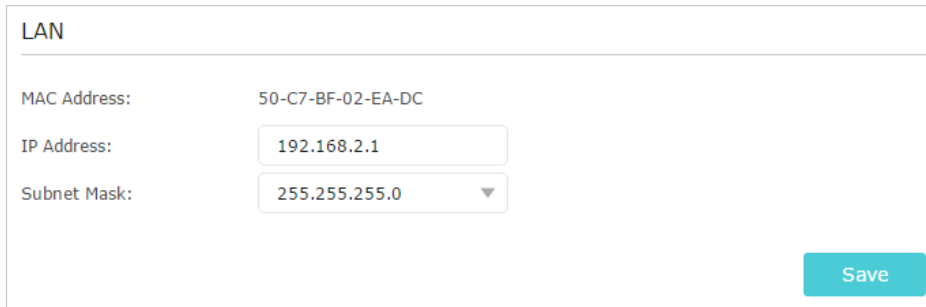
- Some ISP will register the MAC address of your computer when you access the internet for the first time through their Cable modem, if you add a router into your network to share your internet connection, the ISP will not accept it as the MAC address is changed, so we need to clone your computer's MAC 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, which may conflict with the IP range of your existing ADSL modem/router. If so, the router is not able to communicate with your modem and 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 <http://tplinkwifi.net>, and log in with the 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

MAC Address: 50-C7-BF-02-EA-DC

IP Address:

Subnet Mask:

[Save](#)

- Restart the modem and the router.
  - 1) Power off your modem and router, and leave them off for 1 minute.
  - 2) Power on your modem first, and wait about 2 minutes until it get a solid cable or Internet light.
  - 3) Power on the router.
  - 4) 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 <http://tplinkwifi.net>, and log in with the password you set for the router.
  - 3) Go to [Advanced](#) > [Network](#) > [Internet](#).
  - 4) Select your [Internet Connection Type](#) and fill in other parameters.
  - 5) Click [Save](#).

The screenshot shows the IPv4 configuration interface. The 'Internet Connection Type' dropdown is set to 'Dynamic IP'. Below it, a list of options is visible: Static IP, Dynamic IP (highlighted), PPPoE, BigPond Cable, L2TP, and PPTP. The 'IP Address', 'Subnet Mask', and 'Default Gateway' fields are empty. The 'Primary DNS' field is empty, and the 'Secondary DNS' field is set to '0.0.0.0'. There are 'Renew' and 'Release' buttons. A red message 'WAN port is unplugged.' is displayed. At the bottom, there is an 'Advanced' toggle and a 'Save' button.

6) Restart the modem and the router again.

- Please upgrade the firmware of the router.

If you've tried every method above but still 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 the wireless network?

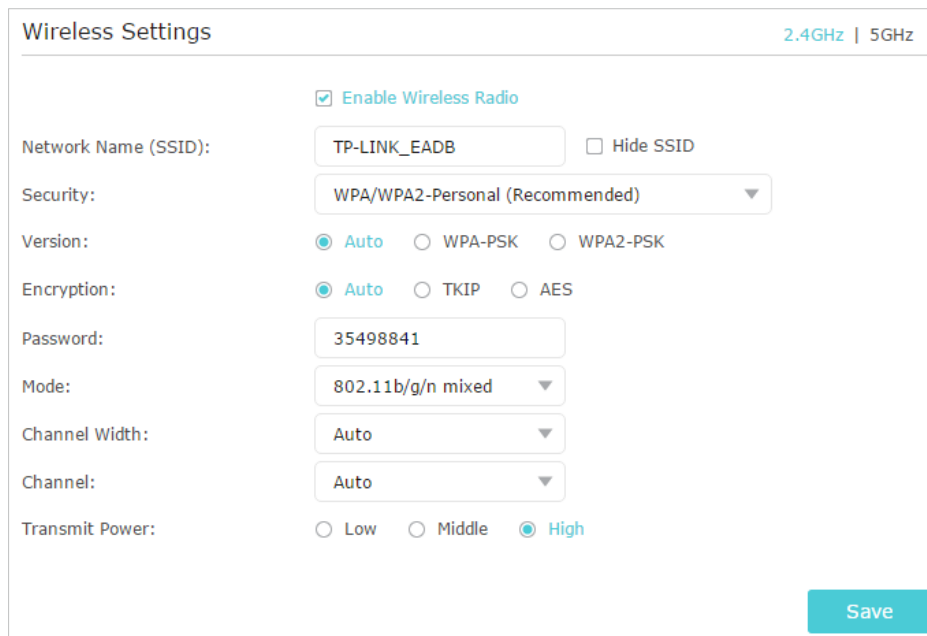
If you fail to find any wireless network, please follow the steps below:

- Make sure the wireless function of your device is enabled if you're using a laptop with 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 or higher**
    - 1) If you see the message [No connections are available](#), it is usually because the wireless function is disabled or blocked somehow.
    - 2) Click [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 on [My Computer](#) on desktop, select [Manage](#) to open Computer Management window.
- 4) Expand [Services and Applications](#) > [Services](#), 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 on Start button 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:**

- Check the WLAN LED indicator on your wireless router/modem.
- Make sure your computer/device is still in the range of your router/modem. Move it closer if it is currently too far away.
- Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#), and check the wireless settings. Double check your Wireless Network Name and SSID is not hided.

A screenshot of the 'Wireless Settings' window. At the top right, it shows '2.4GHz | 5GHz'. The main area contains several settings: 'Enable Wireless Radio' is checked; 'Network Name (SSID)' is 'TP-LINK\_EADB' with a 'Hide SSID' checkbox; 'Security' is 'WPA/WPA2-Personal (Recommended)'; 'Version' has radio buttons for 'Auto' (selected), 'WPA-PSK', and 'WPA2-PSK'; 'Encryption' has radio buttons for 'Auto' (selected), 'TKIP', and 'AES'; 'Password' is '35498841'; 'Mode' is '802.11b/g/n mixed'; 'Channel Width' is 'Auto'; 'Channel' is 'Auto'; and 'Transmit Power' has radio buttons for 'Low', 'Middle', and 'High' (selected). A 'Save' button is at the bottom right.

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

- **Authenticating problem/password mismatch:**
  - 1) 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 Wireless MU-MIMO Gigabit Router

**Model Number:** Archer A6

| Component Name     | Model       |
|--------------------|-------------|
| I.T.E POWER SUPPLY | T120100-2B1 |

**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](mailto:sales.usa@tp-link.com)

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

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

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

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

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

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

### **FCC RF Radiation Exposure Statement**

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

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

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

Issue Date: 2018.11.19

### **FCC compliance information statement**



**Product Name: I.T.E POWER SUPPLY**

**Model Number: T120100-2B1**

**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](mailto: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: 2018.11.19

## Canadian Compliance Statement

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

- 1) This device may not cause interference, and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

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

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'utilisateur de 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;
- 2) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

The high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

### 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;
- 2) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point, selon le cas.

En outre, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

### Radiation Exposure Statement:

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

## Déclaration d'exposition aux radiations:

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

## Industry Canada Statement

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

## NCC Notice

注意！

依據 低功率電波輻射性電機管理辦法

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

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

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。

## BSMI Notice

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 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。

限用物質含有情況標示聲明書

| 產品元件<br>名稱 | 限用物質及其化學符號 |         |         |             |             |               |
|------------|------------|---------|---------|-------------|-------------|---------------|
|            | 鉛<br>Pb    | 鎘<br>Cd | 汞<br>Hg | 六價鉻<br>CrVI | 多溴聯苯<br>PBB | 多溴二苯醚<br>PBDE |
| PCB        | ○          | ○       | ○       | ○           | ○           | ○             |
| 外殼         | ○          | ○       | ○       | ○           | ○           | ○             |

|       |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|
| 電源適配器 | — | ○ | ○ | ○ | ○ | ○ |
|-------|---|---|---|---|---|---|

備考1. “超出0.1wt%”及“超出0.01wt%”系指限用物質之百分比含量超出百分比含量基準值。  
備考2. “○”系指該項限用物質之百分比含量未超出百分比含量基準值。  
備考3. “—”系指該項限用物質為排除項目。

## Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device.
- 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.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | DC voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|  | Indoor use only                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|  | <p>RECYCLING</p> <p>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.</p> <p>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.</p> |