### **TP-LINK®**

# Touch P5 User Guide AC1900 Touch Screen Wi-Fi Gigabit

## **Contents**

Chap	oter 1. Get to Know about Touch P5	. 1
1. 1.	Product Overview	1
1. 2.	Main Features	2
1. 3.	Panel Layout	3
1. 4.	Requirements for Operation	5
1. 5.	Position Your Touch P5	5
Chan	oter 2. Configure Touch P5 as a Router	6
2. 1	Connect Your Touch P5	
2. 1	Log into Your Touch P5	
2. 2 2. 4	Mode Selection	
2.5	Wireless Settings	
2.6	WPS	
2.7	Guest Network	
2.8	Parental Controls	
2. 9	Devices Control	
2. 10	Printer Server	
2. 11	DDNS	
2. 12	LAN	
2. 13	DHCP Server	
2. 14	QoS	.33
2. 15	Clock	.36
2. 16	Screen Settings	.39
2. 17	Reboot & Reset	.40
2. 18	Administrator Password	.41
2. 19	About	.42
2. 20	USB Application. 2. 20. 1. Local Storage Sharing 2. 20. 2. Remote Access via FTP Server. 2. 20. 3. Media Sharing.	. 43 . 45
2. 21	IPv6 Connection	.50
2. 22	IPTV	.52
2. 23	NAT Forwarding.  2. 23. 1. Share Local Resources in the Internet by Virtual Server.  2. 23. 2. Open Ports Dynamically by Port Triggering.  2. 23. 3. Make Applications Free from Port Restriction by DMZ  2. 23. 4. Make Xbox Online Games Run Smoothly by UPnP.	. 54 . 55 . 56
2. 24	Firmware Upgrade	

2. 25	FAQ5	;9
Chap	oter 3. Configure Touch P5 as a Repeater6	3
3. 1	Quick Setup6	54
3. 2	Entertainment Adapter6	59
3. 3	Mode Selection	'0
3.4	Wireless Settings	1'
3.5	Devices Control	′4
3.6	LAN	'6
3.7	DHCP Server	7
3.8	Screen Settings	3C
3.9	Reboot & Reset	<b>3</b> 1
3. 10	Administrator Password	32
3. 11	About	3
3. 12	FAQ	34
Chap	oter 4. Configure Touch P5 as an Access Point	5
4. 1	Connect Your Touch P5	36
4. 2	Log into Your Touch P5	37
4. 3	Quick Setup	39
4. 4	Mode Selection	)C
4. 5	Wireless Settings	1
4.6	WPS	)3
4. 7	Devices Control	)5
4.8	LAN	)7
4. 9	DHCP Server	98
4. 10	Screen Settings	)1
4. 11	Reboot & Reset	)2
4. 12	Administrator Password	)3
4. 13	About	)4
4. 14	FAQ	)5
Appe	endix A: Specifications	6
Appe	endix B: Glossary10	7

#### **Get to Know about Touch P5**

This chapter introduces what your Touch P5 can do, and shows its appearance, main features, operation requirements and positioning methods.

# 1

#### 1. 1. Product Overview

#### **What This Product Does**

Touch P5 AC1900 Touch Screen Wi-Fi Gigabit Router integrates four Gigabit Ethernet ports, Firewall, NAT-router and Wireless AP. Powered by 3x3 MIMO technology, this router delivers exceptional range and speed, which can fully meet the need of Small Office/Home Office (SOHO) networks and the users demanding higher networking performance. Your wireless connections are radio band selectable to avoid interference in your area, and the four built-in Gigabit ports supply high-speed connection to your wired devices.

#### Intuitive Touchscreen - Wi-Fi at Your Fingertip

Touch P5 features a 4.3 inch colorful touchscreen display, which provides easier installation and network management with just a few taps.

#### **Multi-Function Design - Meet Various Demands**

Touch P5 can function as a router, repeater, or access point to best serve your networking needs now and in the future.

#### 802.11ac - The Next Generation of Wi-Fi

Touch P5 comes with the next generation Wi-Fi standard - 802.11ac, backward compatible with 802.11n and 3 times faster than wireless N speeds. With higher power efficiency and robust security, 802.11ac is the perfect way to accelerate a home multimedia network and solve congestion that multiple devices may cause.

#### 1900Mbps Concurrent Dual Band - More Bandwidth, Less Interference

With 1300Mbps wireless speed over the crystal clear 5GHz band and 600Mbps over the 2.4GHz band, Touch P5 offers you the flexibility of two dedicated networks and ensures amazing wireless performance. Simple tasks such as sending e-mails or web browsing can be handled by the 2.4GHz band while bandwidth intensive tasks like online gaming or HD video streaming can be processed by the 5GHz band - all at the same time.

#### **Broad Wi-Fi Coverage and Targeted Connection**

Featuring three detached external antennas, Touch P5 is able to boost Wi-Fi coverage throughout your home. Advanced beamforming technology enables Touch P5 to focus Wi-Fi signal to connected devices, delivering a more targeted and highly efficient wireless connection.

#### **Multifunctional USB Port - Easy Storage and Sharing**

Using Touch P5's multi-functional USB 2.0 and USB 3.0 ports, you can share a printer with multiple computers and devices on your network and can also share files & media at home or via the FTP server while away from home.

#### **Guest Network**

Guest Network provides secure Wi-Fi access for guests sharing your home or office network in a controlled manner without needing to expose private Wi-Fi access codes or other personal data.

#### **IPv6 Supported**

Touch P5 supports IPv6, which is the foundation of the next generation of the Internet and enables a range of new services and improved user experience.

#### 1. 2. Main Features

- Extra-large 4.3 inch capacitive colorful touchscreen surfaced with unbreakable toughened glass
- Complies with IEEE 802.11a/b/g/n/ac, IEEE 802.3/3u, IEEE 802.3ab
- 1\*10/100/1000Mbps shielded Internet Port, 4\*10/100/1000Mbps shielded Ethernet Ports, supports Auto-negotiation and Auto MDI/MDIX
- Simultaneous Dual Band, with maximum speed up to 600Mbps over 2.4GHz and 1300Mbps over 5GHz
- User-friendly UI, convenient for users to configure the router and check network status
- With wall mounting design, users can place the router flexibly
- With one USB 3.0 Port and one USB 2.0 Port, support USB Storage Sharing, Print Server, FTP Server, and Media Server. Share a printer locally and files & media with networked devices or remotely via FTP server
- 3 dual band external antennas and high power amplifiers provide maximum omni-directional wireless coverage and reliability
- Beamforming Technology brings a more targeted and highly efficient Wi-Fi connection
- Supports wireless router, access point and repeater modes
- Guest Network access provides secure Wi-Fi access for guests sharing your home or office network
- · Parental Controls allows parents or administrators to establish restricted access policies for children or staff
- Supports PPPoE, Dynamic IP, Static IP, PPTP, L2TP, BigPond Cable Internet access
- Supports UPnP, Dynamic DNS, Static Routing, Flow Statistics, VPN Pass-through
- Supports Virtual Server, Special Application and DMZ host
- Supports WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions
- Supports IPv6
- Built-in NAT and DHCP server supports static IP address distributing
- Supports touchscreen utility and web-based utility
- Supports firmware upgrade

#### 1.3. Panel Layout

#### 1. 3. 1. The Front Panel

Home Screen (Router Mode)

Wireless Status

Tap here to change the wireless settings.



#### Total Clients

Tap here to view clients' information and block unauthorized clients.

#### Guest Network

Tap here to enable guest network and change the settings.

Guest Network SSID & Password (2.4GHz & 5GHz)

The password is periodically (daily by default) generated by your Touch P5.

#### Home Screen (Repeater Mode)



#### **Total Clients**

Tap here to view clients' information and block unauthorized clients.

#### Wireless Settings

Tap here to change the settings of host and extended network.

Extended Network SSID (2.4GHz & 5GHz)

Display the extended network SSID of your Touch P5.

#### Home Screen (Access Point Mode)



#### **Total Clients**

Tap here to view clients' information and block unauthorized clients.

#### Wireless Settings

Tap here to change the wireless settings of your Touch P5.

Wireless Network SSID (2.4GHz & 5GHz)

Display the SSID of your Touch P5.

#### Menu Screen

Tap the icons to perform various functions of your Touch P5, such as Quick Setup, Mode Selection, Parental Controls, etc.



#### 1. 3. 2. The Back Panel



Your Touch P5's back panel shows the connection ports, buttons and antennas. Refer to the following for detailed instructions.

Item	Description
Power	For connecting your Touch P5 to power socket via the provided power adapter.
Power On/Off	The switch for the power. Press it to power on or off your Touch P5.
USB 2.0	For connecting to a USB 2.0 storage device or a USB 2.0 printer.
USB 3.0	It's on the right front corner of your Touch P5. For connecting to a 3.0 USB storage device or a 3.0 USB printer. It is also compatible with USB 2.0 devices.
Internet	In router mode, it's used for connecting to the DSL/cable Modem or Internet. In repeater mode, it's used for connecting to Ethernet-enabled device, working the same as the Ethernet port. In access point mode, it's used for connecting to front router or Internet.
Ethernet (1, 2, 3, 4)	These ports (1, 2, 3, 4) connect your Touch P5 to the local computer(s).
Reset	With your Touch P5 powered on, use a pin to press and hold the Reset button until the Touch P5 logo displays.
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.

#### 1.4. Requirements for Operation

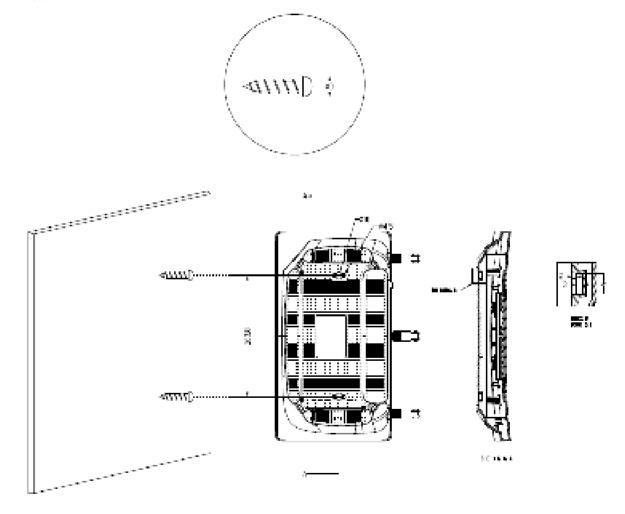
To connect and use your Touch P5 for Internet sharing, you must have the following:

- Broadband Internet Access Service (DSL/Cable/Ethernet).
- One DSL/Cable Modem that has an RJ45 connector (which is not necessary if your Touch P5 is connected directly to the Ethernet).
- Computers with an active Ethernet Adapter and an Ethernet cable with RJ45 connectors.
- TCP/IP protocol on each computer.
- Web browser, such as Microsoft Internet Explorer, Mozilla Firefox and Apple Safari.

#### 1.5. Position Your Touch P5

- Place your Touch P5 in a well-ventilated place far from any heater or heating vent
- Avoid direct irradiation of any strong light (such as sunlight)
- Keep at least 2 inches (5 cm) of clear space around your Touch P5
- Operating Temperature: 0°C~40°C (32°F~104°F)
- Operating Humidity: 10%~90%RH, Non-condensing

Generally, your Touch P5 is placed on a horizontal surface. It also can be mounted on the wall as shown below.



#### Note

The diameter of the screw, 3.5mm<D<6mm, and the distance of two screws is 163.8mm. 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.

This chapter introduces how to connect and configure your Touch P5 in router mode which will provide Internet access for multiple wired and wireless devices simultaneously.



Touch P5 supports two configuration methods: Web-based utility and Touchscreen utility. Web-based utility includes the configuration for all functions, and it requires a connection (wired or wireless) between your Touch P5 and the device you are using to log into the web-based management page. Touchscreen utility supports configuration for most commonly used function, and the configuration can be easily done within a few taps on the touchscreen.

In this chapter, most configuration are introduced through the touchscreen utility. Furthermore, some other features, such as the USB Application, IPv6 Connection, IPTV, NAT Forwarding and Firmware Upgrade, etc., are configured through web-based utility.

#### 2. 1 Connect Your Touch P5



Follow the steps below to connect your Touch P5.

- 1. Install the antennas and position them vertically.
  - Note: If your Internet connection is through an Ethernet cable from the wall, instead of a modem, connect the Ethernet cable directly to your Touch P5's Internet port, and skip step 2,3,4.
- 2. Turn off the modem, and remove the backup battery if it has one.
- 3. Connect the modem to the Internet port of your Touch P5 via an Ethernet cable.
- 4. Turn on the modem, and wait 2 minutes for it to restart.
- 5. Turn on your Touch P5 and wait until the system boot on the screen completes.
- 6. Connect your computer to your Touch P5.

#### Option 1: Wired

Connect your computer's Ethernet port to the Ethernet port on your Touch P5 via the Ethernet cable.

#### Option 2: Wireless

Use the default SSID (Wireless Network Name) and Wireless Password printed on the product label at the bottom of your Touch P5 to connect wirelessly.

Note: If you want to use your Touch P5 for media sharing, storage sharing and printer sharing, please connect the USB storage device or printer to the USB port of your Touch P5.

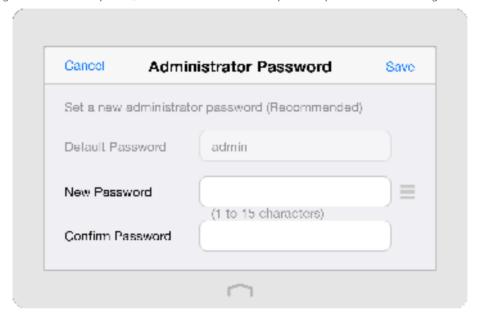


#### 2. 2 Log into Your Touch P5

You can log in and manage your Touch P5 through the touchscreen or web-based utility.

#### Option 1: Through Touchscreen Utility (Recommended)

- 1. Tap the home button or the screen and slide to start the screen.
- 2. The first time you log in, you will need to set a new administrator password for your Touch P5. Enter the new password and enter again to confirm. Tap Save, then follow the Quick Setup to complete the initial configuration.

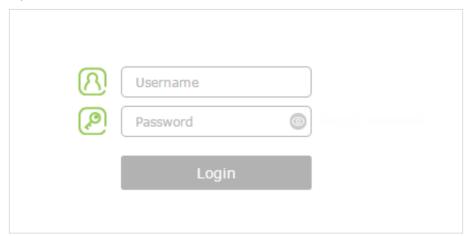


Note: Apps on the touchscreen and web-based utility will need to use the new password that you have set to log in.

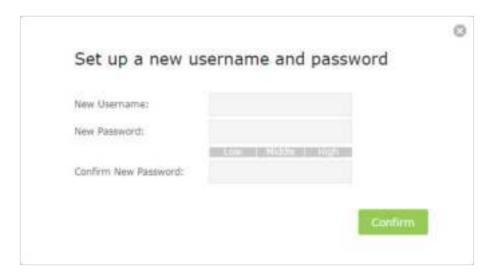
#### **Option 2: Through Web-based Utility**

The web-based utility can be used on any Windows, Macintosh or UNIX OS with a web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari. Follow the steps below to log into your Touch P5.

- 1. If the TCP/IP Protocol on your computer is set to the static (fixed) IP address, you need to change it to obtain an IP address automatically.
- 2. Open a web-browser on your computer, visit *http://tplinkwifi.net* and log in with the default username and password (**admin/admin**).



3. The first time you log in, you will need to set up a new username and password for your Touch P5. Enter your new username and password and the new password again to confirm. Click Confirm.

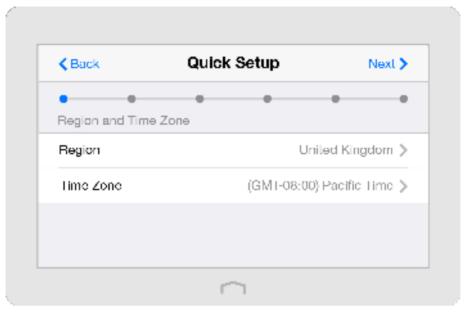


Note: Apps on the touchscreen will also need to use the new password that you have set to log in.

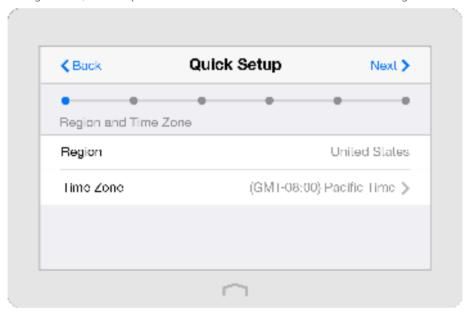
#### 2.3 Quick Setup

The Quick Setup app will guide you through the process to set up your Touch P5 to access the Internet.

- 1. On the menu screen, tap the Quick Setup icon to open it.
- 2. Set your Region and Time Zone and tap Next.



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



- 3. Follow the on-screen instructions to complete the configuration.
- Note: If you change the preset wireless network name (SSID) and wireless password during the quick setup process, all your wireless devices must use the new SSID and password to connect to your Touch P5.

#### 2.4 Mode Selection

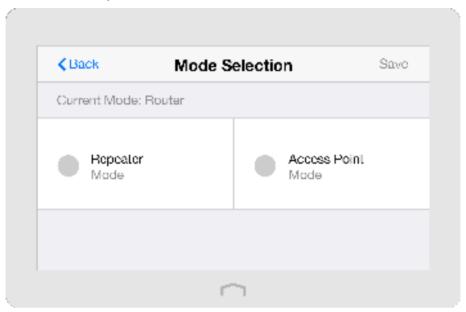
The Mode Selection app helps you easily switch your Touch P5 to a router, repeater or an access point.

Router Mode (Default): Touch P5 can provides Internet access for multiple wired and wireless devices simultaneously.

Repeater Mode: Touch P5 can extend your existing wireless coverage by repeating the wireless signal.

Access Point Mode: Touch P5 can transform your existing wired network to a wireless network.

- 1. On the menu screen, tap the Mode Selection icon to open it.
- 2. Select your desired mode, and tap Save.

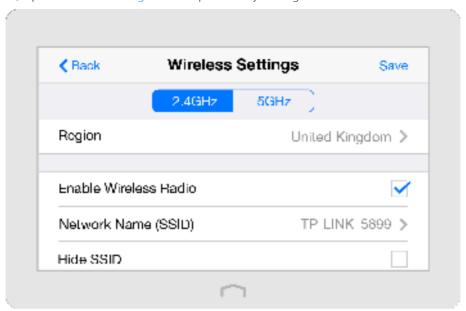


Note: Your Touch P5 will reboot to make your changes take effect, and please do NOT operate during the process.

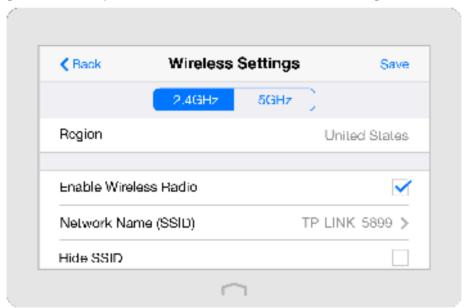
#### 2. 5 Wireless Settings

The Wireless Settings app helps you customize the wireless settings including the wireless radio, wireless network name, password and security option, etc., according to your needs.

On the menu screen, tap the Wireless Settings icon to open it. Set your Region.



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



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

Select the wireless network 2.4GHz or 5GHz and enable the Wireless Radio. If you don't want to use the wireless function, just uncheck the box. If you disable the wireless function, all the wireless settings won't be effective.

#### To change the network name (SSID) or hide SSID:

Select the wireless network 2.4GHz or 5GHz and enter a new SSID using up to 32 characters. The default SSID is TP-LINK\_XXXX and the value is case-sensitive.

#### Note:

1. If you use a wireless device to change the wireless settings, you will be disconnected when the settings are effective.

2. Select the wireless network 2.4GHz or 5GHz and select Hide SSID, and your SSID will not broadcast. Your SSID won't display when you scan for local wireless network list on your wireless device and you need to manually join the network.

#### To change the security option:

Select the wireless network 2.4GHz or 5GHz and choose your Security Type, and enter the corresponding encryption parameters, your Touch P5 provides four options:

- No Security: Select this option to disable the wireless security.
- WPA/WPA2-Personal (Recommended): Select this option to enable the standard authentication method based on a Preshared Key (PSK), also called passphrase. Its security level is the highest.
- WPA/WPA2-Enterprise: Select this option to enable the more advanced authentication method using a RADIUS (Remote Authentication Dial In User Service) server. If selected, WPS function will be disabled.
- WEP: Select this option to enable basic authentication method if any of your client devices can only access the wireless using WEP (Wired Equivalent Privacy).

#### To change the mode, channel width, channel or transmit power:

Select the wireless network 2.4GHz or 5GHz.

Mode: Select the desired mode.

- 802.11n only: Select only if all of your wireless clients are 802.11n devices.
- 802.11g/n mixed: Select if you are using both 802.11b and 802.11g wireless clients.
- 802.11b/q/n mixed: Select if you are using a mix of 802.11b, 802.11g, and 802.11n wireless clients.

Note: When 802.11n only mode is selected, only 802.11n wireless stations can connect to your Touch P5. It is strongly recommended that you select 802.11b/g/n mixed, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to your Touch P5.

- 802.11ac only (For 5GHz): Select only if all of your wireless clients are 802.11ac devices.
- 802.11n/ac mixed (For 5GHz): Select if you are using both 802.11n and 802.11ac wireless clients.
- 802.11a/n/ac mixed (For 5GHz): Select if you are using a mix of 802.11a, 802.11n and 802.11ac wireless clients. It is strongly recommended that you select 802.11a/n/ac mixed.

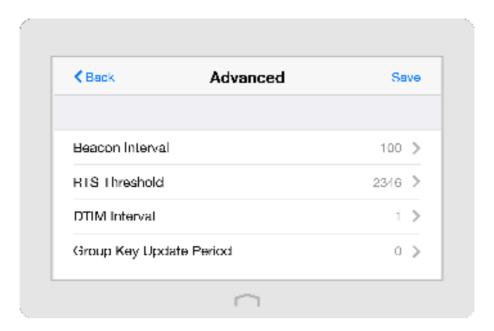
Channel Width: Select the channel width from the list. The default setting is Auto, which can adjust the channel width for your clients automatically.

Channel: Select the channel you want to use from the list. This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.

Transmit Power: Select either High, Middle, or Low to specify the data transmit power. The default and recommended setting is High.

#### Advanced wireless settings:

Advanced wireless settings are for those have a network concept. If you are not familiar with the settings on this page, it's strongly recommended that you keep the provided default values; otherwise it may result in lower wireless network performance.



Beacon Interval: Enter a value between 40 and 1000 in milliseconds to determine the duration between beacon packets that are broadcasted by your Touch P5 to synchronize the wireless network. The default is 100 milliseconds.

RTS Threshold: Enter a value between 1 and 2346 to determine the packet size of data transmission through your Touch P5. By default, the RTS (Request to Send) Threshold size is 2346. If the packet size is greater than the preset threshold, your Touch P5 sends Request of Send frames to a particular receiving station and negotiates the sending of a data frame, or else the packet will be sent immediately.

DTIM Interval: This value determines the interval of the DTIM (Delivery Traffic Indication Message). Enter a value between 1 and 15 beacon intervals. The default value is 1, 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: The WMM function guarantees the packets with high-priority messages being transmitted preferentially. It is enabled by default and highly recommended.

Enable Short GI: This function is enabled by default and recommended to increase the data capacity by reducing the GI (Guard Interval) time.

Enable AP Isolation: If you want to confine and restrict all wireless devices connected to your network from interacting with each other, but still able to access the Internet, select the Enable AP Isolation checkbox.

#### 2.6 WPS

The WPS app helps you quickly establish a secure wireless connection between the WPS (Wi-Fi Protected Setup) supported devices and your Touch P5. Wireless devices that support WPS, including Android phones, tablets, and most USB network cards, can connect to your Touch P5 through this method. (WPS is not supported by IOS devices.)

Note: The WPS function cannot be configured if the wireless function of your Touch P5 is disabled. Also, the WPS function will be disabled if your wireless encryption for both 2.4GHz and 5GHz is WEP. Please make sure the wireless function is enabled and is configured with the appropriate encryption before configuring the WPS.

1. On the menu screen, tap the WPS icon to open it.



2. Connect using either WPS Button method or PIN method.

Option 1: Use the WPS Button (Recommended)

Use this option if your client device has a Wi-Fi Protected Setup button.

1) Tap the Start WPS button on the screen of your Touch P5, and the WPS button will show as below during the process.



2) Immediately press the WPS button of the client device.

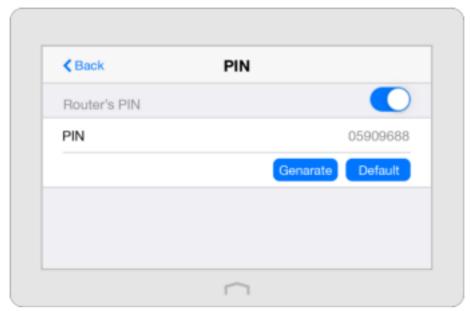
3) Success will appear on the above screen, which means the client device has successfully connected to your Touch P5

Note: Connection failed will appear if the connection cannot be established within 2 minutes.

#### Option 2: Use the PIN

Use this option if your client device asks for your Touch P5's PIN.

1) Tap Connect to this router via PIN on the above screen of your Touch P5 to get the PIN, you can use the default one or generate a new one.

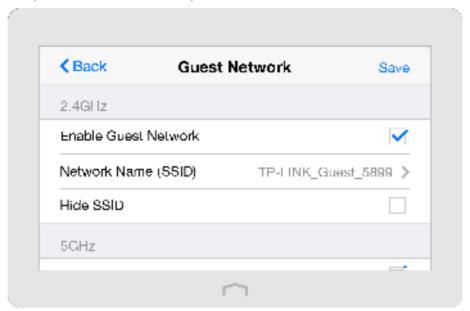


2) On the client device, enter your Touch P5's PIN to connect.

#### 2.7 Guest Network

The Guest Network app allows you to provide Wi-Fi access for guests without disclosing your main network. When you have guests in your house, apartment, or workplace, you can create a guest network for them. In addition, you can assign permissions for guest network users to ensure the security and privacy of your main network.

On the menu screen, tap the Guest Network icon to open it.



#### To enable or disable the guest network:

Guest Network is enabled by default. If you don't want to use the guest network function, just uncheck the box and all the guest network settings won't be effective.

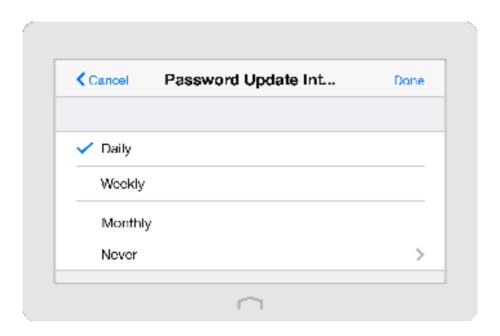
#### To change the guest network name (SSID) or hide SSID:

- 1. Enter a new SSID using up to 32 characters. The default SSID is TP-LINK\_Guest\_XXXX/TP-LINK\_Guest\_XXXX\_5G and the value is case-sensitive.
- 2. Select Hide SSID, and your guest SSID will not broadcast. Your SSID won't display when you scan for local wireless network list on your wireless device and you need to manually join the network.

#### To change the password or password update interval:

Guest Network 2.4GHz and 5GHz shares one password. By default, guest network password updates daily. You can change the update interval to weekly, monthly.

Or you can also select Never to set a static password for your guest network. If you select Never, please create a password between 8 and 63 ASCII characters or between 8 and 64 hexadecimal characters (0-9, a-f, A-F).



#### To limit the guest network authorities:

Allow guests to see each other: Select this checkbox to allow the clients in your guest network to access each other.

Allow guests to access my local network: Select this checkbox to allow the clients in your guest network access your local network shares and printers, not just Internet access.

#### 2.8 Parental Controls

The Parental Controls app allows you to block inappropriate, explicit and malicious websites; restrict access by certain times of day (for example, client devices can only visit <a href="https://www.tp-link.com">www.tp-link.com</a> during office hours); and at the same time it protects every device on your home network against malware and phishing through one central control point.

#### I want to:

Control what types of websites my children or other home network users can visit and even the times of day they are allowed to access the Internet.

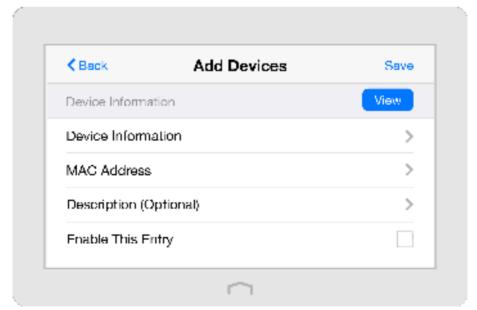
For example, I want to allow my children's devices (e.g. a computer or a tablet) to access only the following websites, *www.tp-link.com* and *Wikipedia.org*, from 18:00 (6 PM) to 22:00 (10 PM) on weekdays and not at other times.

# How can I do that?

1. On the menu screen, tap the Parental Controls icon to open it. Toggle the button to enable Parental Controls.



2. Tap Devices Under Parental Controls and then tap Add to add a device under parental controls.



- 1) Tap View to see devices connected to your Touch P5 at present and select your desired device(s). Or, enter the Device Name and MAC Address manually if your desired device isn't connected to your Touch P5 at present.
- 2) Enter the Description of the device. Tap Enable This Entry.
- 3) Tap Internet Access Time to set time for the device.

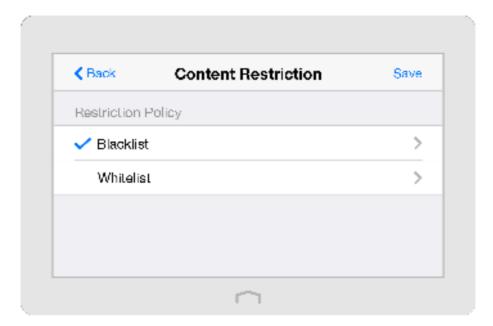


Single: Select to set Internet access time for every single day respectively.

Multiple: Select to set Internet access time for multiple days simultaneously.

AM/PM: Select to set time for the corresponding day(s).

- 4) Select the time period and the date, and tap Done.
  - Note: The access time schedule takes effect based on your Touch P5's system time. The system time can be set through the *Clock* app.
- 5) Tap Save to add the device to parental controls list.
  - Note: If you want to modify a device, tap the device to modify it. If you want to add or delete a device, tap Edit on the Devices Under Parental Controls page to set up according to your needs.
- 3. Return to the home page of Parental Controls and tap Content Restriction to specify the restriction policy.



- 1) Select the restriction mode.
  - In Blacklist mode, the controlled devices cannot access any websites containing the specified keywords during the Internet Access Time period.
  - In Whitelist mode, the controlled devices can only access the websites in the whitelist during the Internet Access Time period.
- 2) Tap Add to Add a New Keyword or Add a New Domain Name, then tap Done to add the rule. You can add up to 32 keywords for Blacklist and 32 domain names for Whitelist. Below are some sample entries to allow access.
  - a . Enter a web address keyword (e.g. wikipedia) in blacklist to block access to the websites containing that keyword.
  - b. Enter a web address domain name (e.g. www.tp-link.com) allowed to access in whitelist. Specify the domain suffix (eg. .edu or .org) to allow access only to the websites with that suffix.
  - c. If you wish to block all Internet browsing access, do not add any domain name to the Whitelist.

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

4. Return to the Content Restriction page and tap Save.

**Done!** Now you can control your children's Internet access according to your needs.

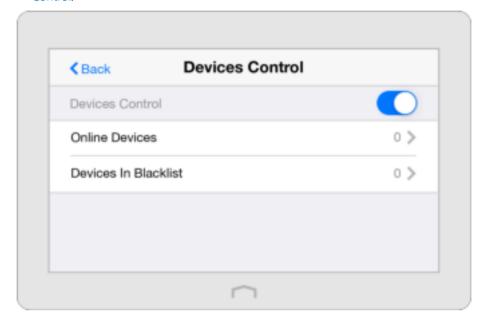
#### 2.9 Devices Control

The Devices Control app helps to view the client information and block unauthorized users (wired or wireless) from connecting to your Touch P5.

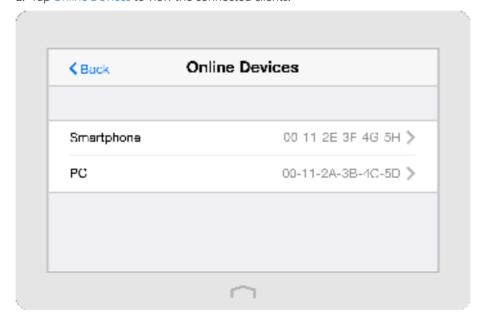
**I want to:** Block some specific client devices from connecting to my Touch P5.

# How can I do that?

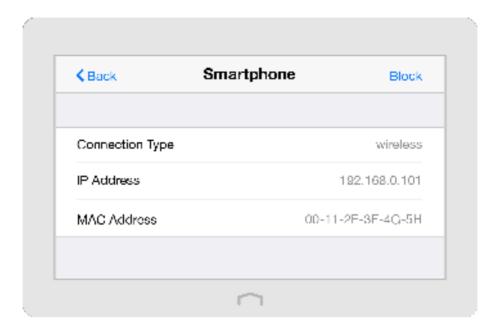
1. On the menu screen, tap the Devices Control icon to open it. Toggle the button to enable Devices Control.



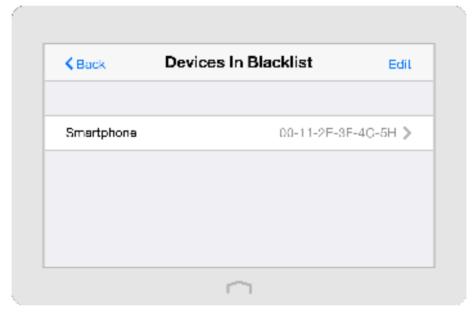
2. Tap Online Devices to view the connected clients.



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



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



Note: If you want to add a device manually or delete a blocked device, tap Edit on the Devices In Blacklist page to set up according to your needs.

**Done!** Now devices in the blacklist cannot connect to your Touch P5.

#### 2. 10 Printer Server

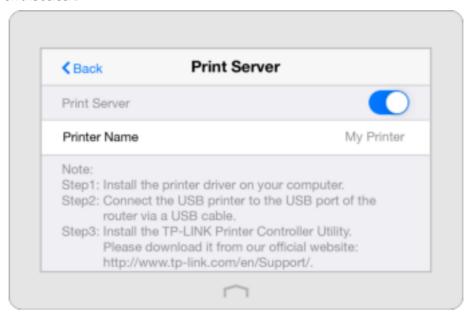
The Printer Server app guides you how to share a printer with different computers connected to your Touch P5.

#### 1. Install the Driver of the Printer

Make sure you have installed the driver of the printer on each computer that needs printer service. If you do not have the driver, contact the printer manufacturer.

#### 2. Connect the Printer

Cable a printer to the USB port of your Touch P5 with a USB cable. Restart the Printer Server app again to see the Printer Name listed on the screen.



**Note:** You can check Printer Compatibility List at <a href="http://www.tp-link.com/app/usb">http://www.tp-link.com/app/usb</a> to verify whether your printer is supported by your Touch P5. Printers unlisted may be incompatible with your Touch P5.



#### 3. Install the TP-LINK USB Printer Controller Utility

TP-LINK USB Printer Controller Utility helps you access the shared printer. Download and Install the utility on each computer that needs printer service.

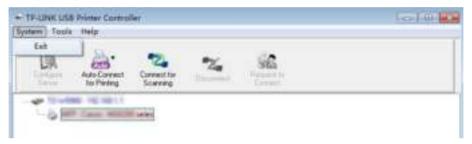
You can get the utility from <a href="http://www.tp-link.com/app/usb/">http://www.tp-link.com/app/usb/</a>. PC Utility is for Windows computer and Mac Utility is for Mac computer.



#### 4. Access the Printer

You should set the shared printer as Auto-Connect Printer on every computer that needs printer service.

- 1) Double-click the icon on your desktop to launch the USB Printer Controller.
- 2) Highlight the printer you share.

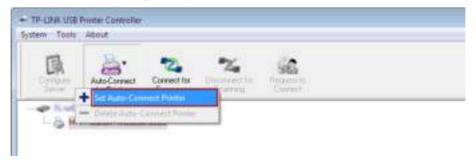


#### Windows



Mac

3) Click the Auto-Connect for Printing tab to pull down a list, then select Set Auto-Connect Printer.

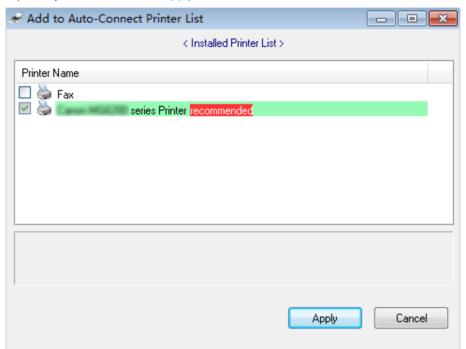


Windows

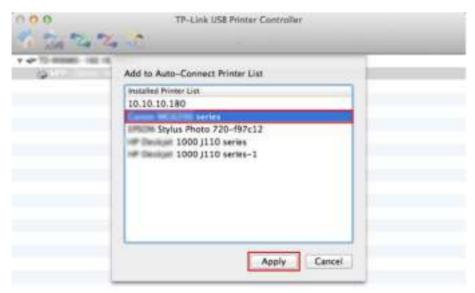


Mac

4) Select the printer you share, then click Apply.

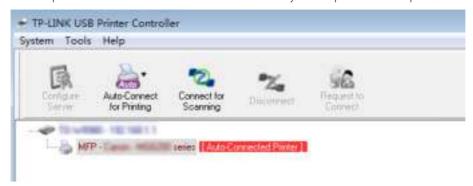


#### Windows



Mac

5) You will see the printer marked as Auto-Connect Printer. Now you can print with this printer.



#### Windows



#### Mac

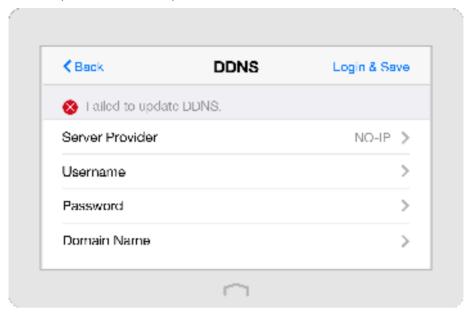
Note: The Print Server also allows different clients to share the scan feature of MFPs (Multi-Function Printers). To scan with TP-LINK USB Printer Controller, right-click the printer and select Network Scanner. Then, a scanning window will pop up. Follow on-screen instructions to finish the scanning process.

#### 2.11 DDNS

Most ISPs (Internet service providers) assign a dynamic IP address to your Touch P5 and you can use this IP address to access your Touch P5 remotely. However, the IP address can change any time and you don't know when it changes. In this case, you might need the DDNS (Dynamic Domain Name Server) feature on your Touch P5 to allow you and your friends to access your Touch P5 and local servers (FTP, HTTP, etc.) using domain name, in no need of checking and remembering the IP address.

Note: DDNS does not work if the ISP assigns a private WAN IP address (such as 192.168.0.x) to your Touch P5.

1. On the menu screen, tap the DDNS icon to open it.



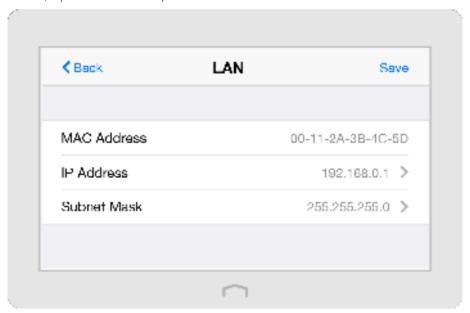
- 2. Select a DDNS Service Provider (NO-IP or Dyndns). If you don't have a DDNS account, please register an account with a service provider such as *www.dyndns.com*.
- 3. Enter the Username, Password, Domain Name (such as lisadns.ddns.net), and select Update Interval of the account.
- 4. Tap Login & Save.

Note: If you want to use a new DDNS account, please Logout first, then login with the new account.

#### 2.12 LAN

The LAN app helps to change the default LAN settings of your Touch P5. Touch P5 is preset with a default LAN IP 192.168.0.1, which you can use to log in to its web-based 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. On the menu screen, tap the LAN icon to open it.

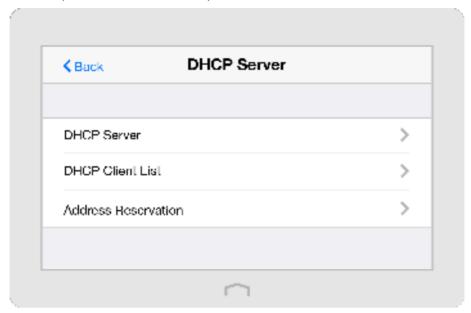


- 2. Type in a new IP Address appropriate to your needs.
- 3. Select the Subnet Mask or custom one in dotted decimal format. The subnet mask together with the IP address identifies your local IP subnet.
- 4. Tap Save.

#### 2.13 DHCP Server

The DHCP Server app can configure your Touch P5 to act as a DHCP (Dynamic Host Configuration Protocol) server to assign IP addresses to its clients and view client information from the client list. To use the DHCP server of your Touch P5, you must configure all computers on the LAN as "Obtain an IP Address automatically". You can also manually reserve an IP address for a client that is connected to your Touch P5. Once reserved, the IP address will only be assigned to the same client by the DHCP server.

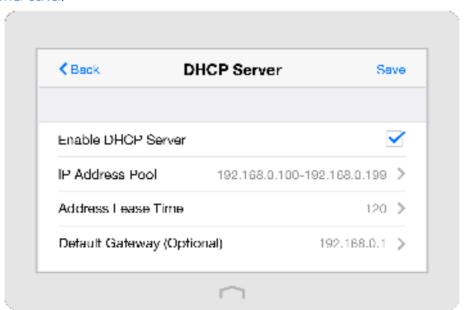
1. On the menu screen, tap the DHCP Server icon to open it.



2. Configure the DHCP settings according to your needs.

#### To set DHCP server of your Touch P5:

1) Select DHCP Server.



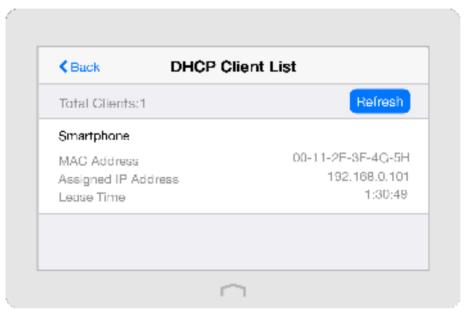
- 2) The Enable DHCP Server checkbox is enabled by default.
- 3) Specify the IP Address Pool, the start address and end address must be on the same subnet with LAN IP. Your Touch P5 will assign addresses within this specified range to its clients. It is from 192.168.0.100 to 192.168.0.199 by default.
- 4) Enter a value for the Address Lease Time.

The Address Lease Time is the amount of time in which a DHCP client can lease its current dynamic IP address assigned by your Touch P5. After the dynamic IP address expires, the client will be automatically assigned a new dynamic IP address.

- 5) The Default Gateway is automatically filled the same as the LAN IP address of your Touch P5. Enter Primary DNS and Secondary DNS if the ISP offers.
- 6) Tap Save.

#### To view the client information:

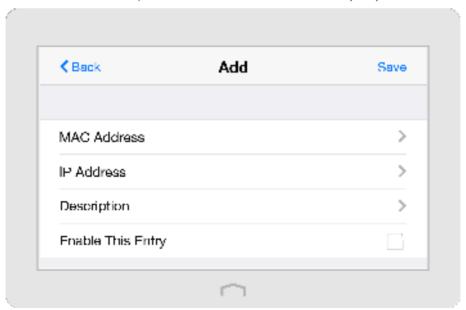
1) Select DHCP Client List.



2) You can view the information of connected client.

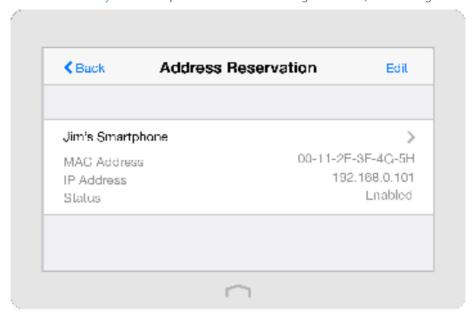
#### To reserve an IP address for a specified client device:

1) Select Address Reservation and tap Add to add an address reservation entry for your device.



- 2) Enter the MAC Address of the device for which you want to reserve IP address.
- 3) Specify the IP Address which will be reserved for the device.
- 4) Enter the Description for the device.

5) Check the Enable This Entry box and tap Save to make the settings effective (shown as figure below).

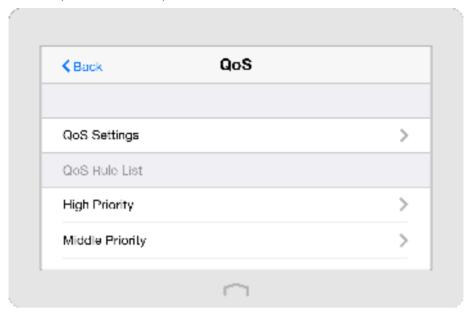


Note: If you want to modify a reserved address, tap the reserved address to modify it. If you want to add or delete a reserved address, tap Edit to set up according to your needs.

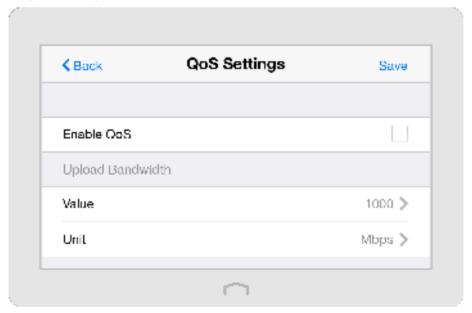
#### 2.14 OoS

By default, the Internet bandwidth is shared by connected devices and applications, which means that the bandwidth of each device or application is uncontrollable while they are sharing the Internet. When some device is streaming video on Internet or downloading with P2P software, it will affect the Internet experience of other applications. The QoS (Quality of Service) app can help to specify priority levels for some devices or applications, thus help to avoid the situation.

1. On the menu screen, tap the QoS icon to open it.



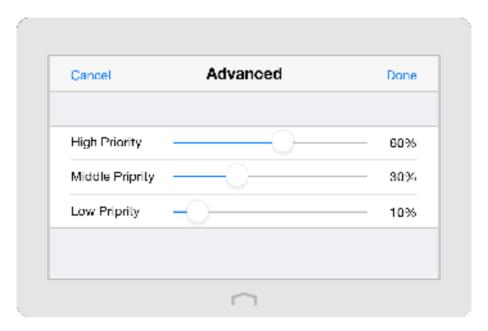
2. Select QoS Settings to set the parameters of QoS.



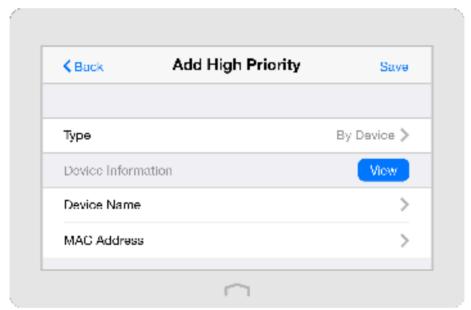
- 1) Select Enable QoS checkbox.
- 2) Set the maximum upload and download bandwidth provided by your service provider. 1Mbps is equal to 1024Kbps.
- 3) Select Advanced and drag the scroll bar to set the bandwidth priority percentage. Tap Done.

#### Note:

- Add each priority up no more than 100%.
- High priority is greater than middle priority, and middle priority is greater than low priority.



- 4) Tap Save.
- 3. Return to the home screen of QoS, and select High, Middle or Low Priority to Add the rules. Here we use High Priority as an example.



#### 4. Select By Device to add the rule:

Tap View to choose the respective device, if the device is not listed, enter the Device Name and MAC Address manually. Tap Save to add the rule to the list.

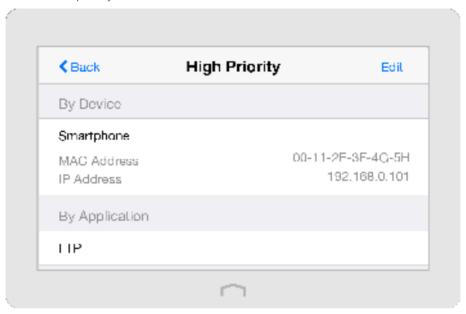
#### Select By Application to add the rule:

Tap Application to select the corresponding application, if the application is not listed, tap Custom Application to enter below application parameters manually.

- Name: Type in a name for your application.
- Protocol: Select the protocol for your application, if you are not sure, select ALL.
- Port: Enter the destination port for your application, usually each application has a fixed port, please ensure you enter the correct the port.

Tap Save to add the rule to the list.

5. The QoS rule will list in the priority table.



**Note:** If you want to add or delete a QoS rule, tap Edit to set up according to your needs.

## 2. 15 Clock

The Clock app displays the time while your Touch P5 is running. The system time you configure here will be used for other time-based functions like Parental Controls.

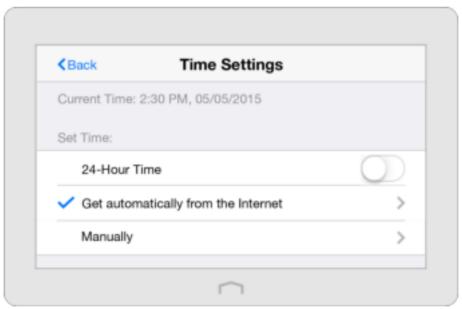
1. On the menu screen, tap the Clock icon to open it.



2. Tap to configure the time settings.

## To set the time of your Touch P5:

1) Select Time Settings.

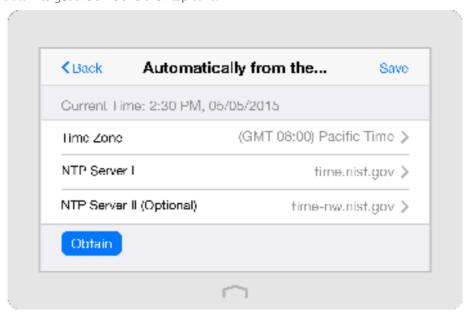


- 2) Toggle on or off to customize the time display in 12-hour or 24-hour format.
- 3) Two ways for you to configure the system time:

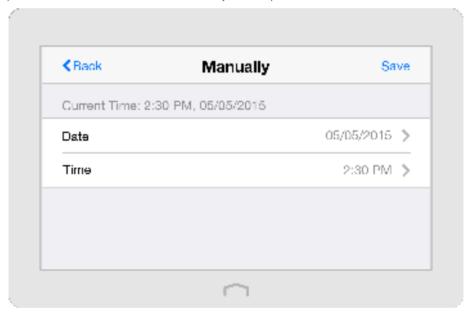
Get automatically from the Internet: Select this if you want to get time from the Internet. Make sure your Touch P5 can access the Internet before you select this way to get system time.

- a. Select your local Time Zone.
- b. In the NTP Server I field, enter the IP address or domain name of your desired NTP Server.

c. In the NTP Server II field, enter the IP address or domain name of the second NTP Server. (Optional) d. Tap Obtain to get the time and then tap Save.

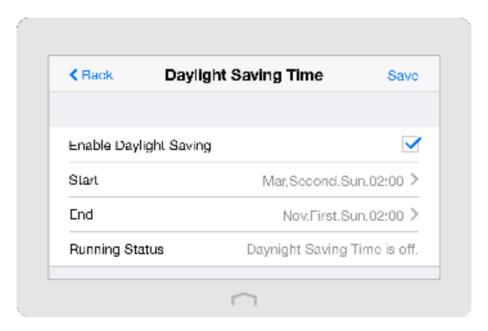


Manually: Select to set the date and time manually, then tap Save.



## To set up daylight saving time of your Touch P5:

- 1) Select Daylight Saving Time.
- 2) Select the checkbox to enable Daylight Saving Time. Set the start and end time and then tap Save.



## To set up the display type of the clock:

- 1) Select Clock Display.
- 2) Select the clock type and tap Save.



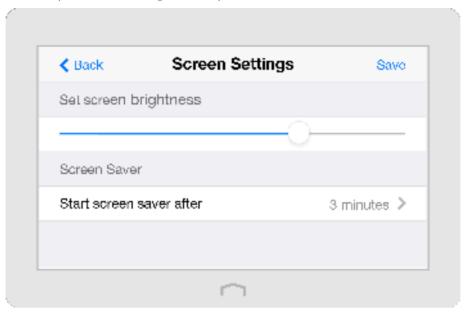
3) To use your Touch P5 as a clock, you need to stay at the home page of Clock app. Then the clock will display on the screen while your Touch P5 is locked.

**Note:** Overusing the screen as a clock will decrease the life span of the screen.

# 2. 16 Screen Settings

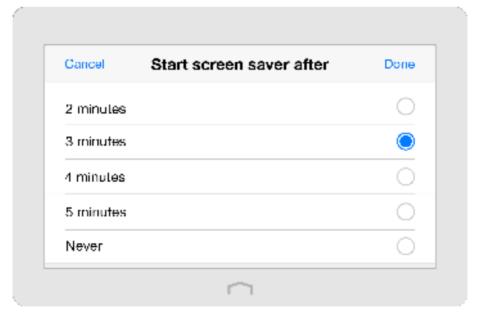
The Screen Settings app helps to set the brightness and screen saver of your Touch P5.

1. On the menu screen, tap the Screen Settings icon to open it.



- 2. Drag the scroll bar to set the brightness of the screen.
- 3. By default, the screen saver will start if the screen is idle for 3 minutes, you can change the wait time.

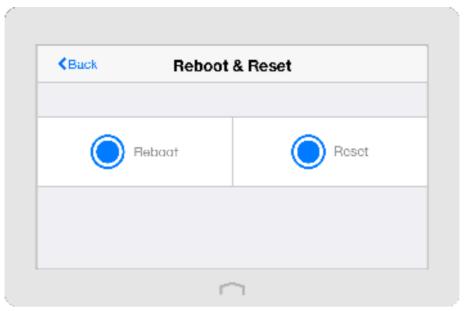
  Note: If you select Never, the screen will stay on and never go to sleep and this will decrease the life span of the screen.



## 2.17 Reboot & Reset

With Reboot & Reset app, you can restart your Touch P5 or reset it to its factory default settings.

1. On the menu screen, tap the Reboot & Reset icon to open it.



2. Reboot: Your Touch P5 will shut down and boot again.

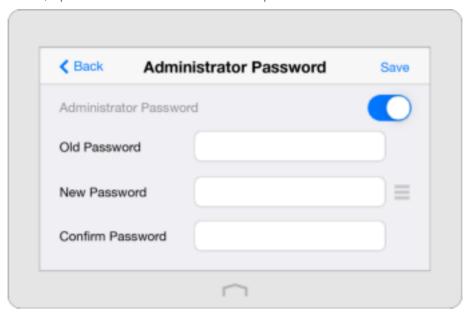
Reset: To reset your Touch P5 to its factory default settings and all the settings you have configured will be erased.

Note: Please do NOT power off your Touch P5 during the rebooting or resetting process. ■

## 2.18 Administrator Password

Administrator password is used to log in to the touchscreen page and web-management page of your Touch P5. You are required to set a new administrator password at your first login. You can also change it with the Administrator Password app.

1. On the menu screen, tap the Administrator Password icon to open it.



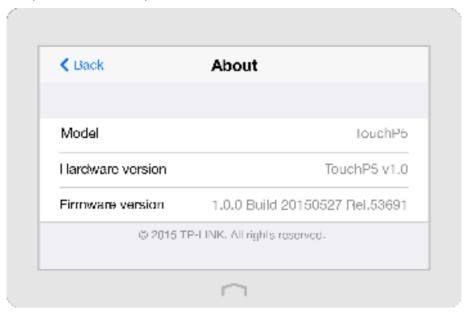
- 2. Enter the old password. Enter the new password and enter again to confirm.
- 3. Tap Save.

#### Note:

- 1. If you disable this function, your touchscreen will under no protection and anyone can change the settings of your Touch P5 through the touchscreen. But logging in through web-based management page still requires the password.
- 2. If you change the administrator password on the screen, logging into web-based management page also requires the new password.

# 2.19 About

The About app displays the product model, hardware and firmware information of your Touch P5. On the menu screen, tap the About icon to open it.



# 2. 20 USB Application

This section describes how to share and access USB devices connected to your Touch P5 among different clients through web-based utility. Refer to *Through Web-based Utility* to log into your Touch P5.

Touch P5 only supports USB external flash drives, hard drives and USB printers, and does not support USB 3G/4G modems.

This chapter contains the following sections:

- Local Storage Sharing
- Remote Access via FTP Server
- Media Sharing

## 2. 20. 1. Local Storage Sharing

Share your USB storage devices with different users on the network.

#### Access the USB disk

1) Connect Your USB Disk

Insert your USB storage device into your Touch P5's USB port directly or using a USB cable.

#### Note

- If you use USB hubs, make sure no more than four devices are connected to your Touch P5.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32 or NTFS.
- Before you physically disconnect a USB device from your Touch P5, safely remove it to avoid data damage: Select *Advanced* > *USB Settings* > *Device Settings* and click

#### 2) Access Your USB Disk

By default all the network clients can access all folders on your USB disk. Refer to the following table for access instructions. You can also customize your sharing content and set a sharing account referring to *Customize Your Settings*.

	Windows computer	<ul> <li>a. Press Windows ( )+ R on the keyboard (or select Start &gt; Run).</li> <li>b. Type in the server address \\tplinkwifi.net or ftp://tplinkwifi.net in the dialog box.</li> <li>c. Click OK.</li> </ul>
	Mac	<ul> <li>a. Select Go &gt; Connect to Server.</li> <li>b. Type the server address smb://tplinkwifi.net or ftp://tplinkwifi.net.</li> <li>c. Click Connect.</li> </ul>
	Pad	Use a third-party app for network files management.

#### Note:

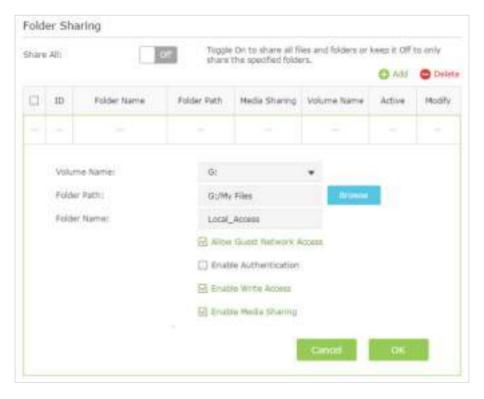
You can also access your USB disk using your Network/Media Server Name. Refer to *To Custo]mize the Address of the USB Disk* to learn more.

## 2. Customize Your Settings

To Only Share Specific Content

By default, Share All is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

- 1) Visit http://tplinkwifi.net/, then log in with the username and password you set for your Touch P5.
- 2) Select *Basic* > *USB Settings* > *Sharing Access*. Focus on the Folder Sharing section. Click the button to disable Share All, then click Add to add a new sharing folder.



- 3) Select the Volume Name and Folder Path, then enter a Folder Name as you like.
- 4) Decide the way you share the folder:

Allow Guest Network Access: Tick to allow the clients in your guest network to access the shared folder.

Enable Authentication: Tick to enable authentication for this folder sharing, and you will be required to use a username and password to access the USB disk. Refer to *To Set up Authentication for Data Security* to learn more.

Enable Write Access: If you tick this check box, network clients can modify this folder.

Enable Media Sharing: Tick to enable media sharing for this folder, and you can view photos, play music and watch movies stored on the USB disk directly from DLNA-supported devices. Click *Media Sharing* to learn more.

#### 5) Click OK.

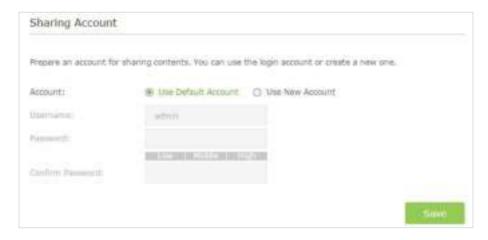
#### Note:

Touch P5 can share eight volumes at most. You can click  $^{\circ}$  on the page to detach the corresponding volume you do not need to share.

#### To Set up Authentication for Data Security

If you enable Authentication, network clients will be required to enter the username and password you set when accessing the USB disk.

- 1) Visit http://tplinkwifi.net/, then log in with the username and password you set for your Touch P5.
- 2) Select Advanced > USB Settings > Sharing Access.



- 3) Choose to use the default Account (admin) or use a new account and click Save.
- 4) Enable Authentication to apply the account you just set.
  - If you leave Share All enabled, click the button to enable Authentication for all folders.



• If Share All is disabled, enable Authentication for specific folders.

#### To Custolmize the Address of the USB Disk

You can customize the server name and use the name to access your USB disk.

- 1) Visit http://tplinkwifi.net/, then log in with the username and password you set for your Touch P5.
- 2) Go to Advanced > USB Settings > Sharing Access.
- 3) Make sure Network Neighborhood is ticked, and enter a Network/Media Server Name as you like, such as MyShare, then click Save.



4) Now you can access the USB disk with \\MyShare (smb://MyShare for Mac).

## 2. 20. 2. Remote Access via FTP Server

You can access your USB disk outside the local area network.

For example:

• Share photos and other large files with your friends without logging in to (and paying for) a photo-sharing site or email system.

- Get a safe backup for the materials for a presentation.
- Remove the files on your camera's memory card from time to time during the journey.

#### 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 routed on the Internet.

#### Access the USB disk

1) Connect Your USB Disk

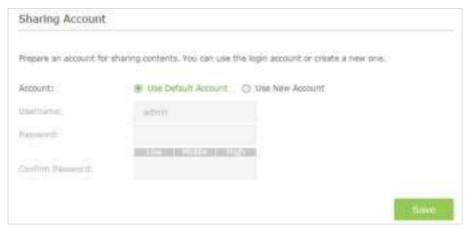
Insert your USB storage device into your Touch P5's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

#### Note:

- If you use USB hubs, make sure no more than four devices are connected to your Touch P5.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32 or NTFS.
- Before you physically disconnect a USB device from your Touch P5, safely remove it to avoid data damage: Select Advanced > USB Settings > Device Settings and click
- 2) Enable Authentication for Data Security

It is strongly recommended that you set and apply a sharing account for data security.

- a. Visit <a href="http://tplinkwifi.net/">http://tplinkwifi.net/</a>, then log in with the username and password you set for your Touch P5.
- b. Select Advanced > USB Settings > Sharing Access.
- c. Choose to use the default Account (admin) or use a new account and click Save.



- d. Enable Authentication to apply the sharing account.
  - If you leave Share All enabled, click the button to enable Authentication for all folders.



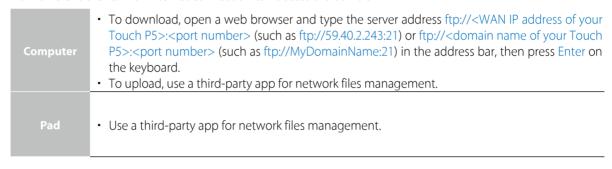
- If Share All is disabled, enable Authentication for specific folders.
- 3) Enable the FTP(via Internet)

Tick the check box to enable FTP(Via Internet), then click Save.



#### 4) Access Your USB Disk via Internet

Now different clients with Internet connection can access the USB disk:

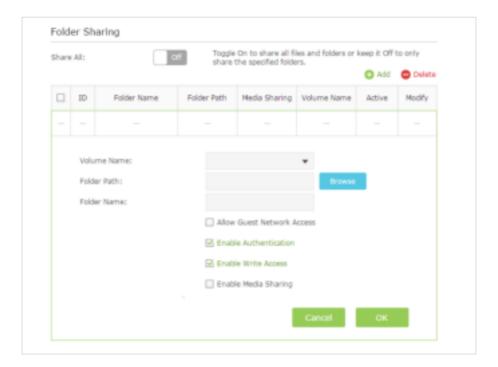


Note: Click *DDNS* to learn how to set up a domain name for your Touch P5.

#### 2. Customize Your Settings

By default, Share All is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

- 1) Visit http://tplinkwifi.net/, then log in with the username and password you set for your Touch P5.
- 2) Select Basic > USB Settings > Sharing Access.
- 3) Focus on the section of Folder Sharing. Click the button to disable Share All, then click Add to add a new sharing folder.



- 4) Tick Enable Authentication. If you allow network clients to modify this folder, tick Enable Write Access.
- 5) Click OK.

**Note:** Touch P5 can share eight volumes at most. You can click  $^{\bigcirc}$  on the page to detach the corresponding volume you do not need to share.

## 2. 20. 3. Media Sharing

The feature of Media Sharing allows you to view photos, play music and watch movies stored on the USB disk directly from DLNA-supported devices, such as your computer, pad and PS2/3.

#### Access the USB disk

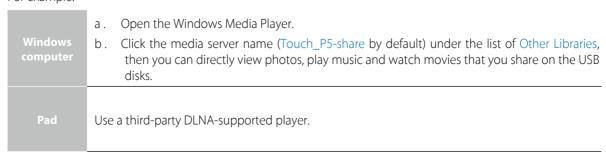
1) Connect Your USB Disk

Insert your USB storage device into your Touch P5's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

#### Note:

- If you use USB hubs, make sure no more than four devices are connected to your Touch P5.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32 or NTFS.
- Before you physically disconnect a USB device from your Touch P5, safely remove it to avoid data damage: Select *Advanced* > *USB Settings* > *Device Settings* and click
- 2) Access the Media Files on Your USB Disk

Now the DLNA-supported devices connected to your Touch P5 can detect and play the media files on the USB disks. For example:

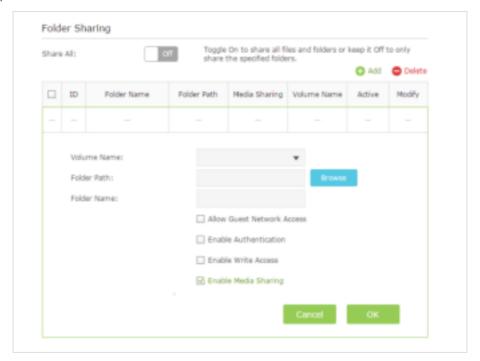


#### 2. Customize Your Settings

#### To Only Share Specific Content

By default, Share All is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

- 1) Visit http://tplinkwifi.net/, then log in with the username and password you set for your Touch P5.
- 2) Select Basic > USB Settings > Sharing Access.
- 3) Focus on the section of Folder Sharing. Click the button to disable Share All, then click Add to add a new sharing folder.



- 4) Select the Volume Name and Folder Path, then enter a Folder Name as you like.
- 5) Tick Enable Media Sharing and click OK.

#### Note:

Touch P5 can share eight volumes at most. You can click  $^{\circ}$  on the page to detach the corresponding volume you do not need to share.

### To Specify the Media Server

You can also modify the media server name or disable the feature of Media Sharing as needed.

- 1) Visit http://tplinkwifi.net/, then log in with the password you set for your Touch P5.
- 2) Select Basic > USB Settings > Sharing Access.
- 3) Enter a Network/Media Server Name as you like, such as MyShare.



4) Click Save.

## 2.21 IPv6 Connection

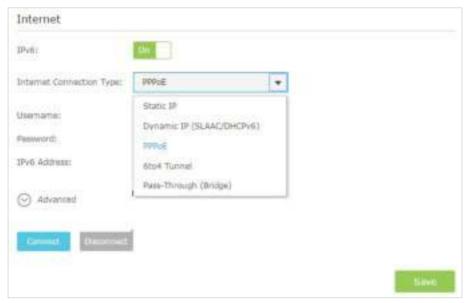
If your ISP provides IPv6 connection and has provided some detailed IPv6 parameters, you can configure your Touch P5 to permit IPv6 connection.

- 1. Visit http://tplinkwifi.net/, and log in with the username and password you set for your Touch P5.
- 2. Go to Advanced > IPv6 to enable IPv6 connection.



3. Select the Internet connection type provided by ISP. Fill in information as required by different connection type.

Note: If you do not know what your Internet connection type is, contact your ISP or judge according to the information provided by your ISP.



- 1) Static IP: Fill in blanks and click Save.
- 2) Dynamic IP: Click Advanced to have more configuration if ISP requires. Click Save.
- 3) PPPoE: Fill in the Username and Password. Click Advanced to have more configuration if ISP requires. Click Save.
- 4) 6to4 Tunnel: An IPv4 Internet connection type is a prerequisite for this connection type. Click Advanced to have more configuration if ISP requires. Click Save.
- 5) Pass-Through (Bridge): Click Save and skip to Step 5.
- 4. Configure LAN ports. Windows users are recommended to choose from the first two types. Fill in Address Prefix provided by ISP, and click Save.
  - Note: Find Help on the management interface to know more about items.



5. Click Status on the left to check whether you succeed or not. The following figure is an example of a successful PPPoE configuration.



### 2.22 IPTV

If your ISP provides IPTV service and has provided some detailed IPTV parameters, you can configure your Touch P5 to permit IPTV connection

I want to:

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

# How can I do that?

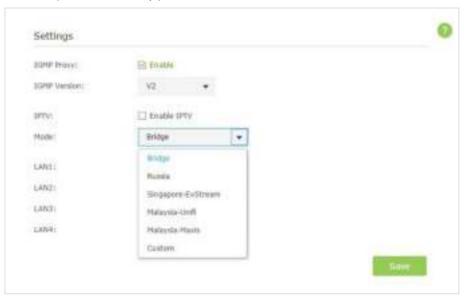
- 1. Visit <a href="http://tplinkwifi.net/">http://tplinkwifi.net/</a>, and log in with the username and password you set for your Touch P5.
- 2. Go to Advanced > Network > IPTV to open the configuration page.
- 3. **If your ISP provide the networking service based on IGMP technology**, e.g., British Telecom (BT) and TalkTalk in UK:
  - 1) Select the IGMP Proxy checkbox and select the IGMP Version, either V2 or V3, according to information provided by your ISP.
  - 2) Click Save.



3) After configuring IGMP proxy, IPTV can work behind your Touch P5 now. You can connect your set-top box to any of your Touch P5's LAN port.

#### If IGMP is not the technology your ISP apply to provide IPTV service:

- 1) Select the Enable IPTV check box.
- 2) Select the appropriate Mode according to your ISP. Select Bridge if your ISP is not listed and no other parameters are required, and then skip to Step 4. Select Custom if your ISP is not listed but provides necessary parameters.



- 3) After you have selected a mode, the necessary parameters are predetermined. You can perform other configuration, e.g. enter the IPTV Multicast VLAN ID and select the IPTV Multicast VLAN Priority in Russia mode according to your ISP.
- 4) For Russia, Singapore-ExStream, Malaysia-Unifi and Malaysia-Maxis mode, connect device to the predetermined LAN port. For Bridge and Custom mode, select the LAN type and connect the set-top box to the corresponding port.
- 5) Click Save.

**Done!** Your IPTV setup is done now! You may need other configurations on your set-top box before enjoying your TV.

# 2. 23 NAT Forwarding

Touch P5's NAT (Network Address Translation) feature makes the devices in the LAN use the same public IP address to communicate in the Internet, which protects the local network by hiding IP addresses of the devices. However, it also brings about the problem that external host cannot initiatively communicate with the specified device in the local network.

With forwarding feature your Touch P5 can penetrate the isolation of NAT and allows the external hosts in the Internet to initiatively communicate with the devices in the local network, thus to realize some special functions.

Touch P5 includes four forwarding rules. If two or more rules are set, the priority of implementation from high to low is Virtual Servers, Port Triggering, UPNP and DMZ.

This section contains the following sections:

- Share Local Resources in the Internet by Virtual Server
- Open Ports Dynamically by Port Triggering
- Make Applications Free from Port Restriction by DMZ
- Make Xbox Online Games Run Smoothly by UPnP

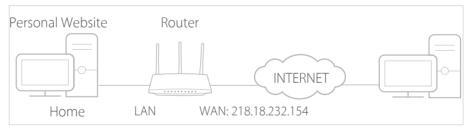
## 2. 23. 1. Share Local Resources in the Internet by Virtual Server

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

Virtual server can be used for setting 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.

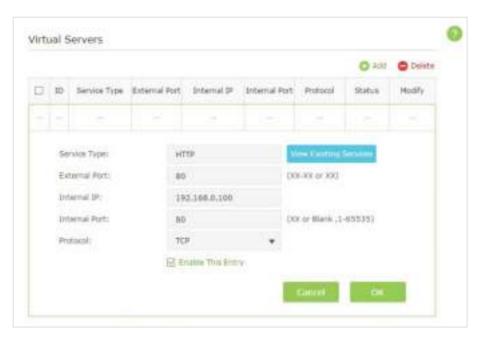
**I want to:** Share my personal website I've built in local network with my friends through the Internet.

For example: The personal website has been built in my home computer (192.168.0.100). I hope that my friends in the Internet can visit my website in some way. The computer is connected to your Touch P5 with the WAN IP address 218.18.232.154.



# How can I do that?

- 1. Assign a static IP address to your computer, for example 192.168.0.100.
- 2. Visit http://tplinkwifi.net, and log in with the username and password you set for your Touch P5.
- 3. Go to Advanced > NAT Forwarding > Virtual Servers, and click Add.
- 4. Click View Existing Services, and select your Service Type (in this case: HTTP). The External Port, Internal Port and Protocol will be automatically filled with contents. Enter the computer's IP address 192.168.0.100 in the Internal IP field.
- 5. Click OK.



#### Note:

- 1. 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.
- 2. If the service you want to use is not in the list of Service Type, you can enter the corresponding parameters manually. You should verify the ports number that the service needs.
- 3. You can add multiple virtual server rules if you want to provide several services in your Touch P5. Please note that the External Port cannot be overlapped.

## Done!

Users in the Internet can enter Service Type://WAN IP to visit your local resources. (in this case, enter http://218.18.232.154 to visit your personal website).

#### Note

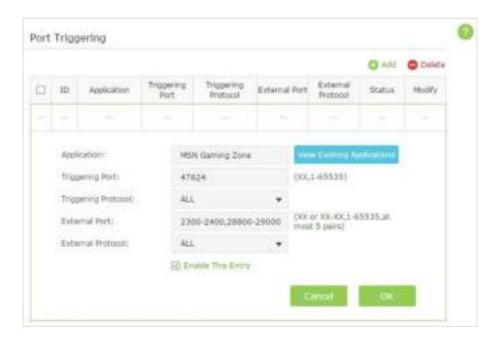
- 1. WAN IP should be a public IP address. For the WAN IP is assigned dynamically by ISP, it is recommended to apply and register a domain name for the WAN by DDNS. Then you can use Service Type://Domain Name to visit your local resources.
- 2. If you have changed the default External Port, you should use Service Type://WAN IP:External Port or Ser-vice Type://Domain Name:External Port to visit your local resources.

## 2. 23. 2. Open Ports Dynamically by 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. Your Touch P5 can record the IP address of the host. When the data from the Internet return to the external ports, your Touch P5 can forward them to the corresponding host. Port triggering is mainly applied to online games, VoIPs and video players. Common applications include MSN Gaming Zone, Dialpad and Quick Time 4 players, etc.

Follow the steps below to configure the port triggering rules:

- 1. Visit http://tplinkwifi.net, and log in with the username and password you set for your Touch P5.
- 2. Go to Advanced > NAT Forwarding > Port Triggering and click Add.
- 3. Click View Existing Applications, and select the desired Application. The External Port, Internal Port and Protocol will be automatically filled with contents. The following picture takes application MSN Gaming Zone as an example.
- 4. Click OK.



#### Note:

- 1. You can add multiple port triggering rules according to your network needs.
- 2. If the application you want to use is not in the list of Existing Applications, you can enter the corresponding parameters manually. You should verify the ports number that the application needs.

## 2. 23. 3. Make Applications Free from Port Restriction by DMZ

When a computer 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, like IP camera and database software, you can set the computer 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 hazard. If DMZ is not in use, please disable it in time.

**I want to:** Make the home computer join the Internet online game without port restriction.

For example: Due to some port restriction, when playing the online games, you can login normally but cannot join a team with other players. To solve this problem, set your computer as a DMZ with all ports opened.

- 1. Assign a static IP address to your computer, for example 192.168.0.100.
- 2. Visit http://tplinkwifi.net, and log in with the username and password you set for your Touch P5.
- 3. Go to Advanced > NAT Forwarding > DMZ and select the checkbox to enable DMZ.



- 4. Enter the IP address 192.168.0.100 in the DMZ Host IP Address filed.
- 5. Click Save.

**Done!** The configuration is completed. You've set your computer to a DMZ host and now you can make a team to game with other players.

# 2. 23. 4. Make Xbox Online Games Run Smoothly by UPnP

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 in both sides of NAT device can freely communicate with each other, thus 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.

#### Note:

- 1. Only the application supporting UPnP protocol can use this feature.
- 2. 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 your Touch P5 which has connected to the Internet to play online games, UPnP will send request to your Touch P5 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 http://tplinkwifi.net, and log in with the username and password you set for your Touch P5.
- 2. Go to Advanced > NAT Forwarding > UPnP and toggle on or off according to your needs.



# 2. 24 Firmware Upgrade

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

- 1. Download the latest firmware file from our website: *TP-LINK Support*.
- 2. Visit http://tplinkwifi.net, and log in with the username and password you set for your Touch P5. Go to Advanced > System Tools > Firmware Upgrade.



- 3. Click Browse to locate the downloaded new firmware file, and click Upgrade.
- 4. Wait a few moments for the upgrading and rebooting.

#### Note:

- 1. Before upgrading the firmware, it's better to back up your current settings.
- 2. During the upgrading process, do NOT turn off or reset your Touch P5.
- 3. The upgraded firmware version must correspond to the hardware.

### 2.25 FAO

#### Q1 What can I do if I cannot access the Internet?

- 1. Check if the Internet is working properly by connecting a computer directly to the modem via an Ethernet cable. If not, contact your Internet Service Provider.
- 2. Tap Quick Setup on the menu screen to run the setup again.
- 3. Tap Reboot & Reset on the menu screen, select Reboot to reboot your Touch P5 and try again.
- 4. If your Internet Connection Type is Dynamic IP, go through Quick Setup and enter the MAC address that is registered with your ISP, then reboot both the modem and your Touch P5.

## Q2. What can I do if I forgot my wireless network password?

Tap Wireless Settings on the menu screen to obtain the security password, both for 2.4GHz and 5GHz wireless network. For the Guest network, the password displays on the home screen.

## Q3. How do I restore my Touch P5 to its factory default settings?

- 1. Tap Reboot & Reset on the menu screen, then tap Reset.
- 2. With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays.

Note: Once your Touch P5 is reset, all the settings will be lost and you will need to re-configure your Touch P5.

## Q4. What can I do if I forgot my administrator password?

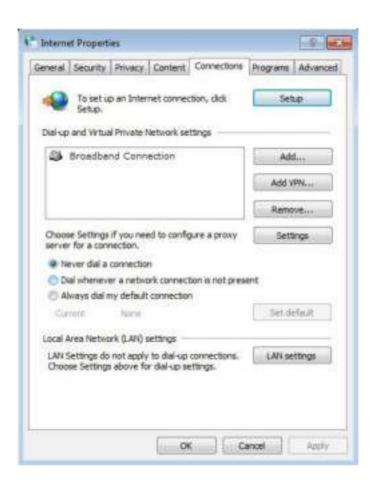
With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays to restore your Touch P5 to its factory default settings, and create a new administrator password.

## Q5. What can I do if I forgot my web-based management utility account?

- 1. The default username and password of the web management utility are admin (in lower case).
- 2. The web-based management utility and touchscreen shares the same password, please try the administrator password of the touchscreen.
- 3. Restore your Touch P5 to its factory default settings: With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays.

# Q6. I cannot log into my Touch P5's web management page, what can I do?

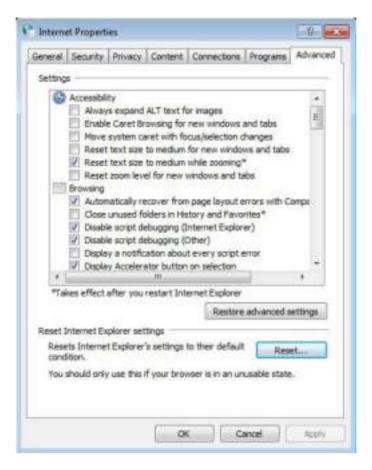
- 1. Make sure your Touch P5 connect to the computer correctly.
- 2. Make sure the IP address of your computer is configured as "Obtain an IP address automatically" and "Obtain DNS server address automatically".
- 3. Make sure the default access you input is right.
- 4. Check your computer's settings:
  - 1) Go to Start > Control Panel > Network and Internet page, and click View network status and tasks;
  - 2) Click Internet Options on the bottom left:
  - 3) Click Connections, select Never dial a connection;



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



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



- 5. Change a web browser or computer and login again.
- 6. Reset your Touch P5 to factory default settings: With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays.
  - Note: You'll need to reconfigure your Touch P5 to surf the Internet once your Touch P5 is reset.

If this doesn't solve the problem, please contact the technical support.

## Q7. I cannot find my wireless network or I cannot connect the wireless network, what can I do?

- 1. If you fail to find any wireless network, please follow the steps below:
  - 1) Make sure the wireless function 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.
  - 2) Make sure the wireless adapter driver is installed successfully and the wireless adapter is enabled.

#### On Windows 7

- a . If you see the message No connections are available, it is usually because the wireless function is disabled or blocked somehow;
- b. Clicking on Troubleshoot and windows might be able to fix the problem by itself.

#### On Windows XP

- a . 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;
- b. Exit the wireless configuration tool( the TP-LINK Utility, for example);
- c. Select and right click on My Computer on desktop, select Manage to open Computer Management window;
- d . Expand *Services and Applications > Services*, find and locate Wireless Zero Configuration in the Services list on the right side;
- e. Select Wireless Zero Configuration, right click, and then select Properties;

- f. Change Startup type to Automatic, click on Start button and make sure the Service status is Started. And then click OK.
- g. Connect to wireless network.
- 2. If you can find other wireless network except your own, please follow the steps below:
  - 1) Make sure your computer/device is still in the range of your Touch P5/modem, move closer if it is currently too far away;
  - 2) Tap the Wireless Settings icon to open it, and be sure the wireless function is enabled, double check your Network Name, make sure the Region/Country is selected correctly and SSID is not hided;

This chapter introduces how to connect and configure your Touch P5 in repeater mode which will extend existing wireless coverage by repeating the wireless signal. We recommend that you use repeater mode when your home network connection is poor, or when you want a larger wireless coverage to eliminate "dead zones". You can also use Touch P5 as an adapter to connect any Ethernet-enabled device (such as a Blu-ray player, game console, DVR, or smart TV) to your Wi-Fi network.



As in compliance with the wireless transmission protocol, all the repeater devices are set to work in half-duplex instead of full-duplex mode. In other words, the repeater has to process one-way communication between your host network and the terminal clients; so the transmission time will be double-increased, while the speed will be decreased.

Touch P5 supports two configuration methods: Web-based utility and Touchscreen utility. Web-based utility includes the configuration for all functions, and it requires a connection (wired or wireless) between your Touch P5 and the device you are using to log into the web-based management page. Touchscreen utility supports configuration for most commonly used function, and the configuration can be easily done within a few taps on the touchscreen.

In this chapter, we will introduce most of the configuration through the touchscreen utility.

# 3. 1 Quick Setup

You can log in and manage your Touch P5 through the touchscreen or web-based utility.

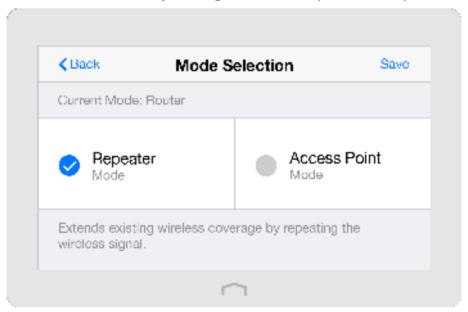
## Option 1: Through Touchscreen Utility (Recommended)

The Quick Setup app on the touchscreen will guide you through the process to connect your Touch P5 to the front host network and set up its extended network.

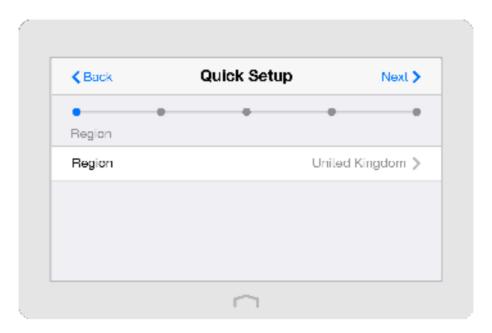


- 1. Install the antennas and position them vertically.
- 2. Plug your Touch P5's power adapter into an electrical outlet near your host network, then turn on it and wait until the system boot on the screen completes.
- 3. On the menu screen, tap the Mode Selection icon to open it.
- 4. Select Repeater mode and tap Save.

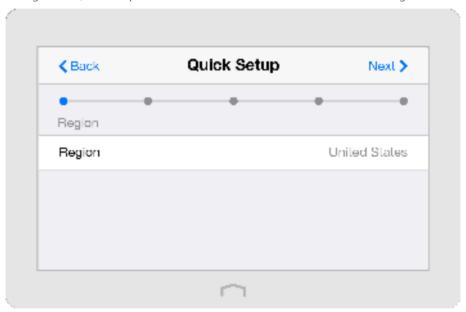
Note: Your Touch P5 will reboot to make your changes take effect, and please do NOT operate during the process.



- 5. Go to the menu screen and tap the Quick Setup icon to open it.
- 6. Set your Region and tap Next.



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



- 7. Follow the on-screen instructions to complete the configuration.
- 8. Once the configuration is completed, please follow the instructions below to relocate your Touch P5 at an **ideal location**. Be sure it is always within the wireless coverage of the host network.
  - Half-way Between Generally, the ideal location for your Touch P5 is half-way between the host network and wireless client. If the wireless signal is not satisfactory, you may place your Touch P5 somewhat nearer to the host network.



• No Obstacles and Spacious - Clear obstacles in the way between your Touch P5 and host network. It's better to locate it in a spacious place, such as near the corridors.

- **No Interference** Choose a location away from Bluetooth devices and other household electronics, such as cordless phone, microwave, and baby monitor, etc., to minimize signal interference.
- 9. Connect your wireless clients to the network of your Touch P5.

**Note:** Your Touch P5 shares your host network's Wi-Fi password for both 2.4GHz and 5GHz networks, but may have different wireless network name if you customize the names during the configuration. Please connect your wireless devices to the extended network of your Touch P5.

## **Option 2: Through Web-based Utility**

The web-based utility can be used on any Windows, Macintosh or UNIX OS with a web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari. Follow the steps below to log into your Touch P5.



- 1. Install the antennas and position them vertically.
- 2. Plug your Touch P5's power adapter into an electrical outlet near your host network, then turn on it and wait until the system boot on the screen completes.
- 3. Connect your computer's Ethernet port to the Ethernet port on your Touch P5 via the Ethernet cable, or wirelessly connect to your Touch P5 using the default SSID (Wireless Network Name) and Wireless Password printed on the product label at the bottom of your Touch P5.
  - Note: If the TCP/IP Protocol on your computer is set to the static (fixed) IP address, you need to change it to obtain an IP address automatically.
- 4. Open a web-browser on your computer, visit <a href="http://tplinkwifi.net">http://tplinkwifi.net</a> and log in with the default username and password (admin/admin).
- 5. Click the Mode button on the upper-right corner of title bar, select Repeater and click Save.
  - Note: Your Touch P5 will reboot to make your changes take effect, and please do NOT operate during the process.



- 6. Re-login and select your region and click Next.
  - Note: Per FCC regulations, all Wi-Fi products marketed in the U.S. are fixed to the U.S. region. ■



- 7. Follow the Quick Setup instructions to complete the configuration.
- 8. Once the configuration is completed, please follow the instructions below to relocate your Touch P5 at an **ideal location**. Be sure it is always within the wireless coverage of the host network.
  - Half-way Between Generally, the ideal location for your Touch P5 is half-way between the host network and wireless client. If the wireless signal is not satisfactory, you may place your Touch P5 somewhat nearer to the host network.



- No Obstacles and Spacious Clear obstacles in the way between your Touch P5 and host network. It's better to locate it in a spacious place, such as near the corridors.
- **No Interference** Choose a location away from Bluetooth devices and other household electronics, such as cordless phone, microwave, and baby monitor, etc., to minimize signal interference.
- 9. Connect your wireless clients to the network of your Touch P5.

Note: Your Touch P5 shares your host network's Wi-Fi password for both 2.4GHz and 5GHz networks, but may have different wireless network name if you customize the names during the configuration. Please connect your wireless devices to the extended network of your Touch P5.

# 3. 2 Entertainment Adapter

Your Touch P5 can be used as a wireless network adapter to help any Ethernet-only device (such as a Blu-ray player, game console, DVR, or smart TV) to connect to the host network. After your Touch P5 is connected to the host router, you can connect an Ethernet-enabled device to your Touch P5's Ethernet port via an Ethernet cable, then these devices can connect to the wireless network of the host router.



If both 2.4GHz and 5GHz wireless bands of your Touch P5 are connected to host network, the 5GHz band is used for transferring data between the host network and the wired connected devices by default. If you want to change the wireless band, please follow the steps below:

- 1. Open a web-browser on your computer, visit *http://tplinkwifi.net* and log in with the default username and password (admin/admin).
- 2. Go to Settings > Network, and focus on the Ethernet Port section.



3. Select 2.4GHz or 5GHz band and click Save.

#### 3. 3 Mode Selection

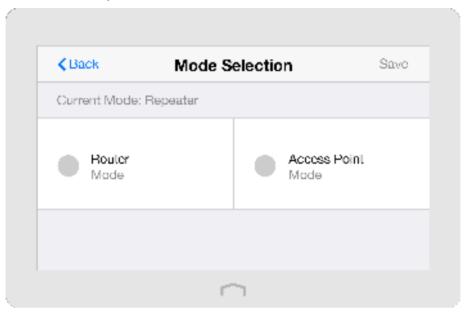
The Mode Selection app helps you easily switch your Touch P5 to a router, repeater or an access point.

Router Mode (Default): Touch P5 can provides Internet access for multiple wired and wireless devices simultaneously.

Repeater Mode: Touch P5 can extend your existing wireless coverage by repeating the wireless signal.

Access Point Mode: Touch P5 can transform your existing wired network to a wireless network.

- 1. On the menu screen, tap the Mode Selection icon to open it.
- 2. Select your desired mode, and tap Save.



**Note:** Your Touch P5 will reboot to make your changes take effect, and please do NOT operate during the process.

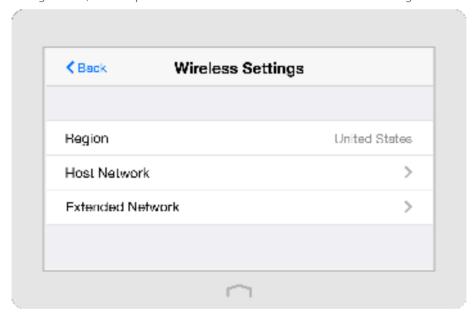
#### 3.4 Wireless Settings

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

1. On the menu screen, tap the Wireless Settings icon to open it. Set your Region.



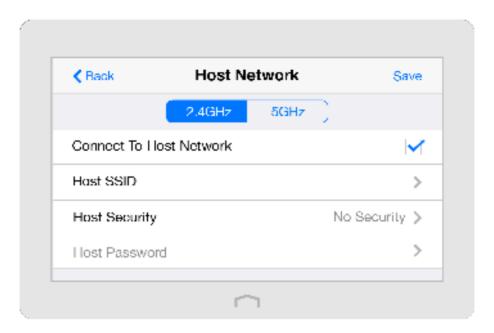
**Note:** Per FCC regulations, all Wi-Fi products marketed in the U.S. are fixed to the U.S. region.



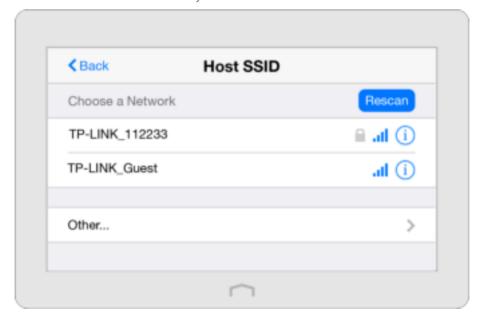
2. Configure the wireless settings according to your needs.

To set the host network connection of your Touch P5:

1) Select Host Network.



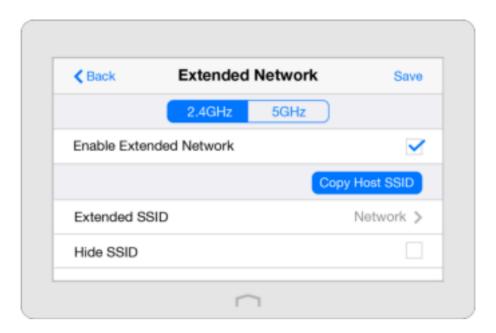
- 2) Select the Connect To Host Network checkbox.
- 3) Tap Host SSID to scan for the host network you want to extend.



- 4) Select the SSID of your host network from the list.
  - Note: If the host network you want to extend is on but not shown in the list, please try to move your Touch P5 closer to your host router, then tap Rescan. Or, select Other...to enter the SSID manually.
- 5) Once a network is selected, the SSID and security settings of that network will automatically be filled in. Tap Host Password to enter the password of the host network in corresponding encryption.
  - **Note:** If the host network security is WEP, tap Index to select index same as host network.
- 6) Tap Save.

#### To configure the extended network of your Touch P5:

Select Extended Network on the home page of Wireless Settings.



Enable Extended Network: Enable or disable the 2.4GHz/5GHz extended network.

Extended SSID: Either tap Copy Host SSID to copy the host router's SSID or create a new name using up to 32 characters. This field is case-sensitive.

Hide SSID: Select this checkbox if you want to hide your Touch P5's SSID from the Wi-Fi network list, and your wireless device will need to manually join the network.

Extended Password: The password of the extended network is the same as the host network.

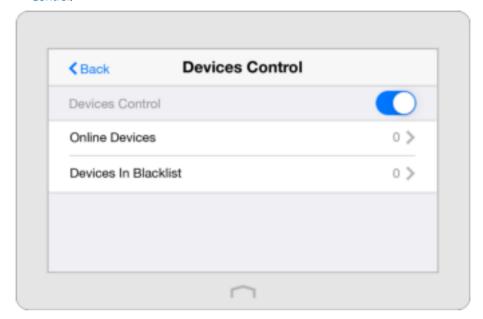
#### 3. 5 Devices Control

The Devices Control app helps to view the client information and block unauthorized users (wired or wireless) from connecting to your Touch P5.

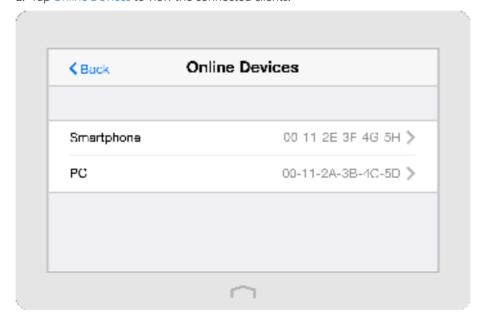
**I want to:** Block some specific client devices from connecting to my Touch P5.

# How can I do that?

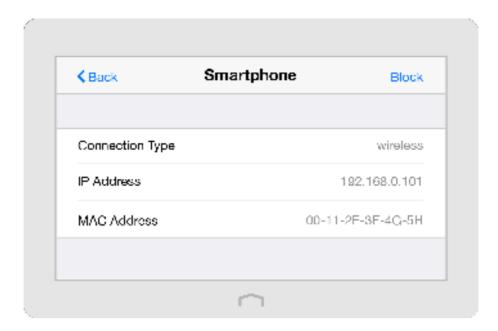
1. On the menu screen, tap the Devices Control icon to open it. Toggle the button to enable Devices Control.



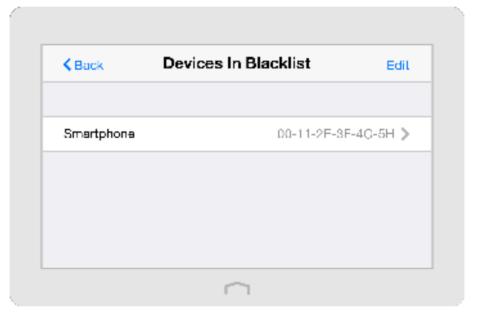
2. Tap Online Devices to view the connected clients.



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



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



Note: If you want to add a device manually or delete a blocked device, tap Edit on the Devices In Blacklist page to set up according to your needs.

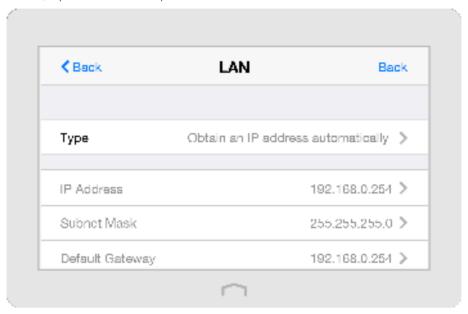
**Done!** Now devices in the blacklist cannot connect to your Touch P5.

#### 3.6 LAN

By default, your Touch P5 is set to obtain an IP address automatically from the host router. The LAN app allows you to use a specific IP address appropriate to your network demand.

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

1. On the menu screen, tap the LAN icon to open it.

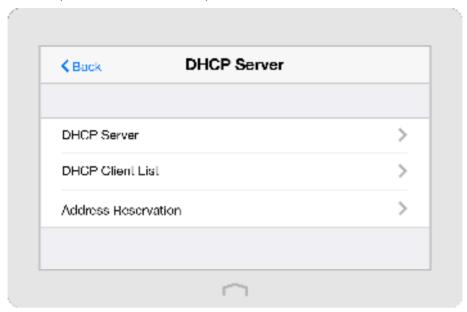


- 2. Tap Type to select Use the following IP address and tap Done.
- 3. Tap IP Address to enter an IP address in dotted decimal notation. It should be in the same subnet as the host network.
- 4. Tap Subnet Mask to enter the subnet mask in dotted decimal notation. It determines the network portion and host portion of the IP address.
- 5. Tap Default Gateway to enter the gateway in dotted decimal notation. It should be in the same subnet as the IP address.
- 6. Tap Save.

#### 3. 7 DHCP Server

The DHCP Server app can configure your Touch P5 to act as a DHCP (Dynamic Host Configuration Protocol) server to assign IP addresses to its clients and view client information from the client list. To use the DHCP server function of your Touch P5, you must configure all computers on the LAN as "Obtain an IP Address automatically". You can also manually reserve an IP address for a client that is connected to your Touch P5. Once reserved, the IP address will only be assigned to the same client by the DHCP server.

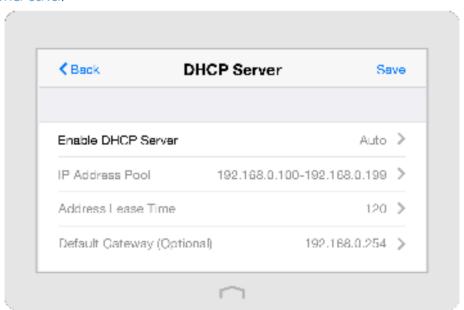
1. On the menu screen, tap the DHCP Server icon to open it.



2. Configure the DHCP settings according to your needs.

#### To set DHCP server of your Touch P5:

1) Select DHCP Server.



2) The Enable DHCP Server is set to be Auto by default and the function will automatically turn on or off to assign valid IP addresses to client devices according to the DHCP server settings of the host network.

If you select On, please configure it manually.

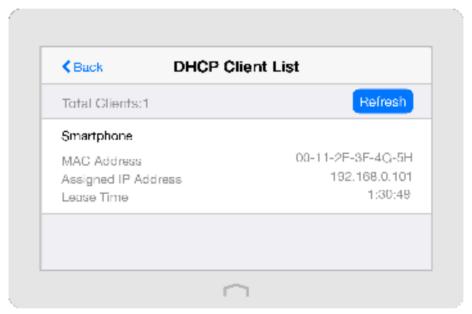
- IP Address Pool: The start address and end address must be on the same subnet with LAN IP. Your Touch P5 will assign addresses within this specified range to its clients. It is from 192.168.0.100 to 192.168.0.199 by default.
- Address Lease Time: The amount of time in which a DHCP client can lease its current dynamic IP address assigned by your Touch P5. After the dynamic IP address expires, the client will be automatically assigned a new dynamic IP address.
- Default Gateway (Optional): Enter the LAN IP address of your Touch P5.
- Primary/Secondary DNS (Optional): Enter this parameters as provided by your ISP.

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

3) Tap Save.

#### To view the client information:

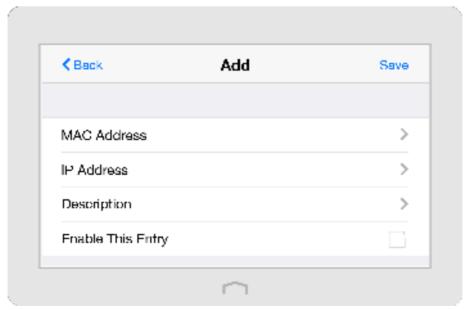
1) Select DHCP Client List.



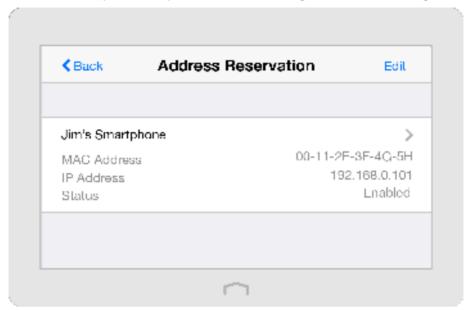
2) You can view the information of connected client.

#### To reserve an IP address for a specified client device:

1) Select Address Reservation and tap Add to add an address reservation entry for your device.



- 2) Enter the MAC Address of the device for which you want to reserve IP address.
- 3) Specify the IP Address which will be reserved for the device.
- 4) Enter the Description for the device.
- 5) Check the Enable This Entry box and tap Save to make the settings effective (shown as figure below).

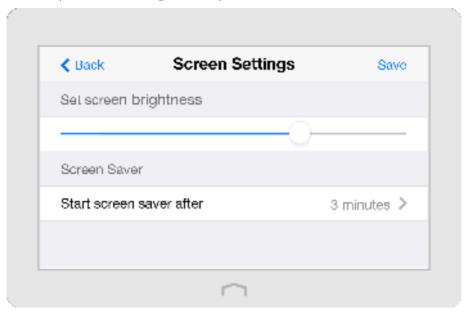


Note: If you want to modify a reserved address, tap the reserved address to modify it. If you want to add or delete a reserved address, tap Edit to set up according to your needs.

#### 3.8 Screen Settings

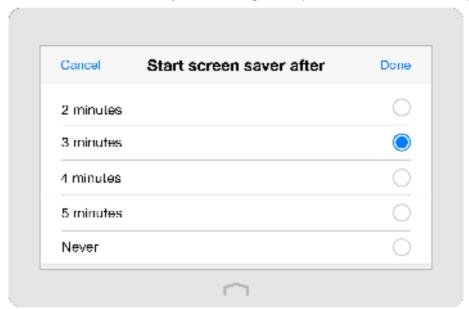
The Screen Settings app helps to set the brightness and screen saver of your Touch P5.

1. On the menu screen, tap the Screen Settings icon to open it.



- 2. Drag the scroll bar to set the brightness of the screen.
- 3. By default, the screen saver will start if the screen is idle for 3 minutes, you can change the wait time.

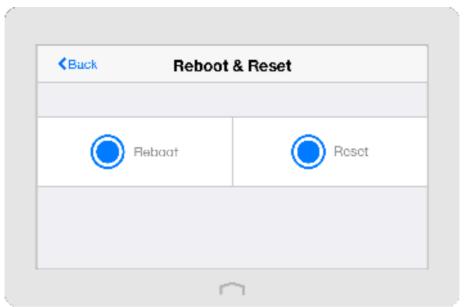
  Note: If you select Never, the screen will stay on and never go to sleep and this will decrease the life span of the screen.



#### 3.9 Reboot & Reset

With Reboot & Reset app, you can restart your Touch P5 or reset it to its factory default settings.

1. On the menu screen, tap the Reboot & Reset icon to open it.



2. Reboot: Your Touch P5 will shut down and boot again.

Reset: To reset your Touch P5 to its factory default settings and all the settings you have configured will be erased.

Note: Please do NOT power off your Touch P5 during the rebooting or resetting process. ■

#### 3. 10 Administrator Password

Administrator password is used to log in to the touchscreen page and web-management page of your Touch P5. You are required to set a new administrator password at your first login. You can also change it with the Administrator Password app.

1. On the menu screen, tap the Administrator Password icon to open it.



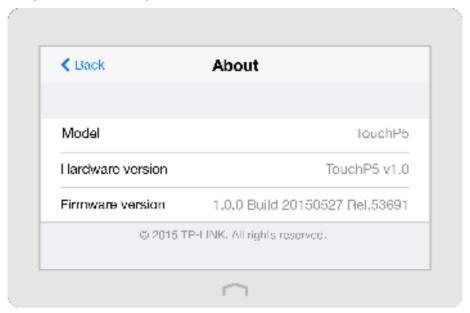
- 2. Enter the old password. Enter the new password and enter again to confirm.
- 3. Tap Save.

#### Note:

- 1. If you disable this function, your touchscreen will under no protection and anyone can change the settings of your Touch P5 through the touchscreen. But logging in through web-based management page still requires the password.
- 2. If you change the administrator password on the screen, logging into web-based management page also requires the new password.

#### 3.11 About

The About app displays the product model, hardware and firmware information of your Touch P5. On the menu screen, tap the About icon to open it.



#### 3. 12 FAO

#### Q1. What can I do if I forgot my wireless network password?

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

#### Q2. How do I restore my Touch P5 to its factory default settings?

- 1. Tap Reboot & Reset on the menu screen, then tap Reset.
- 2. With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays.

Note: Once your Touch P5 is reset, all the settings will be lost and you will need to re-configure your Touch P5.

#### Q3. What can I do if I forgot my administrator password?

With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays to restore your Touch P5 to its factory default settings, and create a new administrator password.

#### Q4. What can I do if I cannot access the Internet?

- 1. Check if the Internet is working properly by connecting to your host network. If not, contact your Internet Service Provider.
- 2. Move closer to the host router. Clear obstacles in the way between your Touch P5 and host network, and avoid interference from cordless phone, microwave, and baby monitor.
- 3. Tap Quick Setup on the menu screen to run the setup again.
- 4. Tap Reboot & Reset on the menu screen, select Reboot to reboot your Touch P5 and try again.

#### Q5. What can I do if I forgot my web-based management utility account?

- 1. The default username and password of the web management utility are admin (in lower case).
- 2. The web-based management utility and touchscreen shares the same password, please try the administrator password of the touchscreen.
- 3. Restore your Touch P5 to its factory default settings: With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays.
  - Note: Once your Touch P5 is reset, all the settings will be lost and you will need to re-configure your Touch P5.

# Configure Touch P5 as an Access Point

4

This chapter introduces how to connect and configure your Touch P5 in access point mode which will transform your existing wired network to a wireless network. We recommend that you use access point mode when your wireless devices need to access to a wired network, or when you require a supplement of ports for your wired router.



Your Touch P5 supports two configuration methods: Web-based utility and Touchscreen utility. Web-based utility includes the configuration for all functions, and it requires a connection (wired or wireless) between your Touch P5 and the device you are using to log into the web-based management page. Touchscreen utility supports configuration for most commonly used function, and the configuration can be easily done within a few taps on the touchscreen.

In this chapter, we will introduce most of the configuration through the touchscreen utility.

#### 4. 1 Connect Your Touch P5

Follow the steps below to connect your Touch P5.



- 1. Install the antennas and position them vertically.
- 2. Connect the wired router's LAN port to the Internet port on your Touch P5 via an Ethernet cable.
  - Note: If your Internet connection is through an Ethernet cable from the wall, instead of a wired router, connect the Ethernet cable directly to your Touch P5's Internet port.
- 3. Turn on your Touch P5 and wait until the system boot on the screen completes.
- 4. Connect your computer to your Touch P5. Use the default SSID (Wireless Network Name) and Wireless Password printed on the product label at the bottom of your Touch P5 to connect wirelessly.
  - Note: You can also connect your computer to the Ethernet port on your Touch P5 via an Ethernet cable.

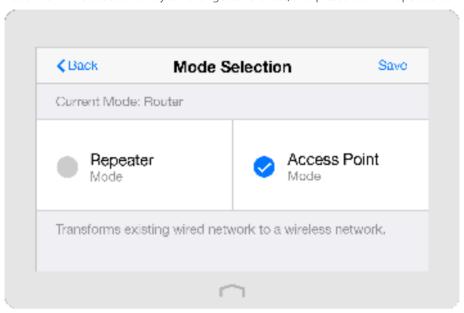
#### 4. 2 Log into Your Touch P5

You can log in and manage your Touch P5 through the touchscreen or web-based utility.

#### Option 1: Through Touchscreen Utility (Recommended)

- 1. On the menu screen, tap the Mode Selection icon to open it.
- 2. Select Access Point mode and tap Save.

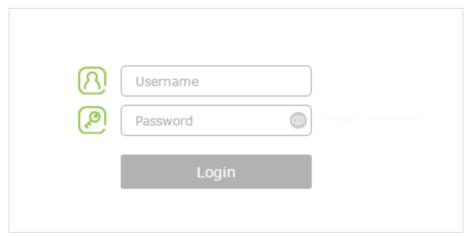
Note: Your Touch P5 will reboot to make your changes take effect, and please do NOT operate during the process.



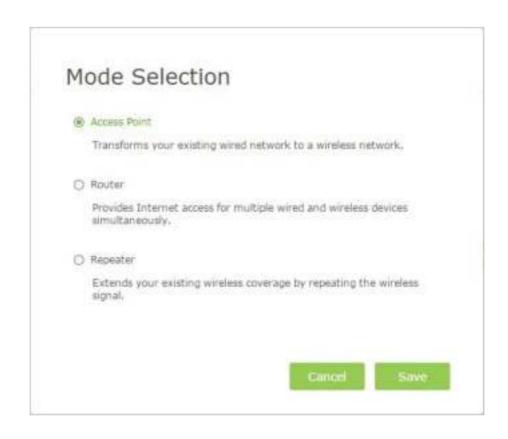
#### **Option 2: Through Web-based Utility**

The web-based utility can be used on any Windows, Macintosh or UNIX OS with a web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari. Follow the steps below to log into your Touch P5.

- 1. If the TCP/IP Protocol on your computer is set to the static (fixed) IP address, you need to change it to obtain an IP address automatically.
- 2. Open a web-browser on your computer, visit *http://tplinkwifi.net* and log in with the default username and password (**admin/admin**).



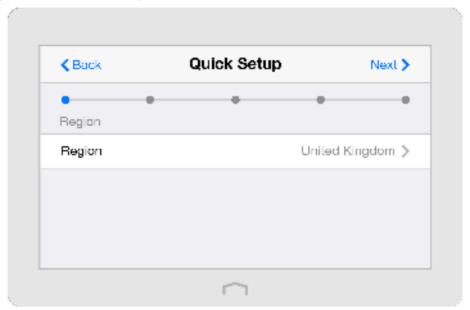
- 3. Click the Mode button on the upper-right corner of title bar, select Access Point and click Save.
  - Note: Your Touch P5 will reboot to make your changes take effect, and please do NOT operate during the process.



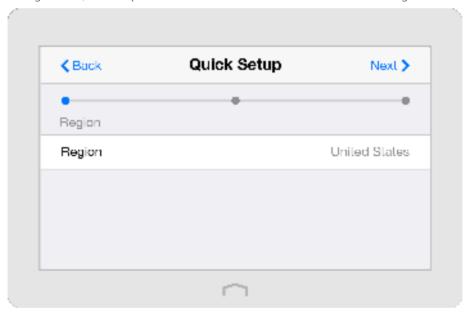
#### 4.3 Quick Setup

The Quick Setup app on the touchscreen will guide you through the process to set the wireless network of your Touch P5.

- 1. On the menu screen, tap the Quick Setup icon to open it.
- 2. Set your Region and Time Zone and tap Next.



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



- 3. Follow the on-screen instructions to complete the configuration.
- 4. Once the configuration is completed, please connect your wireless devices to the wireless network of your Touch P5. **Note:** If you change the preset wireless network name (SSID) and wireless password during the quick setup process, all your wireless devices must use the new SSID and password to connect to your Touch P5.

#### 4. 4 Mode Selection

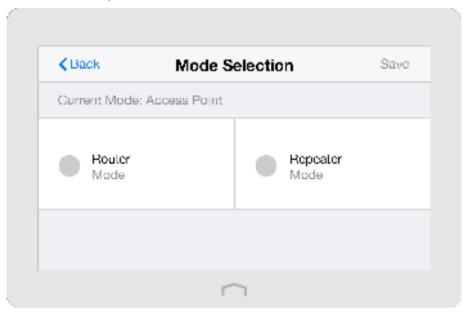
The Mode Selection app helps you easily switch your Touch P5 to a router, repeater or an access point.

Router Mode (Default): Touch P5 can provides Internet access for multiple wired and wireless devices simultaneously.

Repeater Mode: Touch P5 can extend your existing wireless coverage by repeating the wireless signal.

Access Point Mode: Touch P5 can transform your existing wired network to a wireless network.

- 1. On the menu screen, tap the Mode Selection icon to open it.
- 2. Select your desired mode, and tap Save.

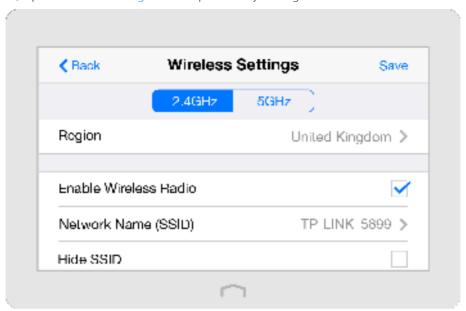


**Note:** Your Touch P5 will reboot to make your changes take effect, and please do NOT operate during the process.

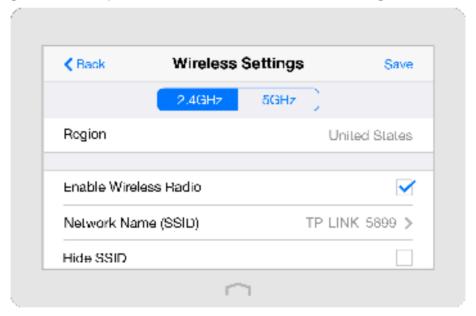
#### 4. 5 Wireless Settings

The Wireless Settings app helps you customize the wireless settings including the wireless radio, wireless network name, password and security option, etc., according to your needs.

On the menu screen, tap the Wireless Settings icon to open it. Set your Region.



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



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

Select the wireless network 2.4GHz or 5GHz and enable the Wireless Radio. If you don't want to use the wireless function, just uncheck the box. If you disable the wireless function, all the wireless settings won't be effective.

#### To change the network name (SSID) or hide SSID:

Select the wireless network 2.4GHz or 5GHz and enter a new SSID using up to 32 characters. The default SSID is TP-LINK\_XXXX and the value is case-sensitive.

#### Note:

1. If you use a wireless device to change the wireless settings, you will be disconnected when the settings are effective.

2. Select the wireless network 2.4GHz or 5GHz and select Hide SSID, and your SSID will not broadcast. Your SSID won't display when you scan for local wireless network list on your wireless device and you need to manually join the network.

#### To change the security option:

Select the wireless network 2.4GHz or 5GHz and choose your Security Type, and enter the corresponding encryption parameters, your Touch P5 provides three options:

- No Security: Select this option to disable the wireless security.
- WPA/WPA2-Personal (Recommended): Select this option to enable the standard authentication method based on a Preshared Key (PSK), also called passphrase. Its security level is the highest.
- WEP: Select this option to enable basic authentication method if any of your client devices can only access the wireless using WEP (Wired Equivalent Privacy).

#### To change the mode, channel width, channel or transmit power:

Select the wireless network 2.4GHz or 5GHz.

Mode: Select the desired mode.

- 802.11n only: Select only if all of your wireless clients are 802.11n devices.
- 802.11g/n mixed: Select if you are using both 802.11b and 802.11g wireless clients.
- 802.11b/g/n mixed: Select if you are using a mix of 802.11b, 802.11q, and 802.11n wireless clients.

Note: When 802.11n only mode is selected, only 802.11n wireless stations can connect to your Touch P5. It is strongly recommended that you select 802.11b/g/n mixed, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to your Touch P5.

- 802.11ac only (For 5GHz): Select only if all of your wireless clients are 802.11ac devices.
- 802.11n/ac mixed (For 5GHz): Select if you are using both 802.11n and 802.11ac wireless clients.
- 802.11a/n/ac mixed (For 5GHz): Select if you are using a mix of 802.11a, 802.11n and 802.11ac wireless clients. It is strongly recommended that you select 802.11a/n/ac mixed.

Channel Width: Select the channel width from the list. The default setting is Auto, which can adjust the channel width for your clients automatically.

Channel: Select the channel you want to use from the list. This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.

Transmit Power: Select either High, Middle, or Low to specify the data transmit power. The default and recommended setting is High.

#### 4.6 WPS

The WPS app helps you quickly establish a secure wireless connection between the WPS (Wi-Fi Protected Setup) supported devices and your Touch P5. Wireless devices that support WPS, including Android phones, tablets, and most USB network cards, can connect to your Touch P5 through this method. (WPS is not supported by IOS devices.)

Note: The WPS function cannot be configured if the wireless function of your Touch P5 is disabled. Also, the WPS function will be disabled if your wireless encryption for both 2.4GHz and 5GHz is WEP. Please make sure the wireless function is enabled and is configured with the appropriate encryption before configuring the WPS.

1. On the menu screen, tap the WPS icon to open it.

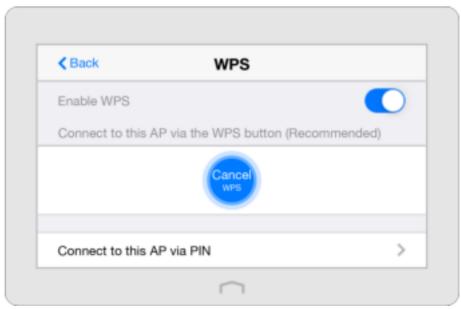


2. Connect using either WPS Button method or PIN method.

Option 1: Use the WPS Button (Recommended)

Use this option if your client device has a Wi-Fi Protected Setup button.

1) Tap the Start WPS button on the screen of your Touch P5, and the WPS button will show as below during the process.



2) Immediately press the WPS button of the client device.

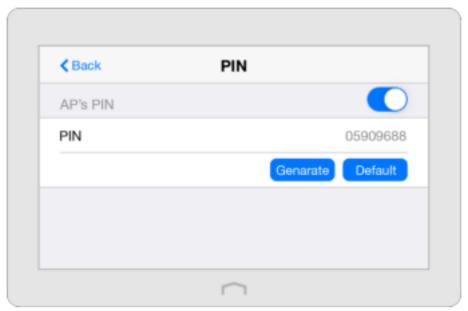
3) Success will appear on the above screen, which means the client device has successfully connected to your Touch P5

Note: Connection failed will appear if the connection cannot be established within 2 minutes.

#### Option 2: Use the PIN

Use this option if your client device asks for your Touch P5's PIN.

1) Tap Connect to this AP via PIN on the above screen of your Touch P5 to get the PIN, you can use the default one or generate a new one.



2) On the client device, enter your Touch P5's PIN to connect.

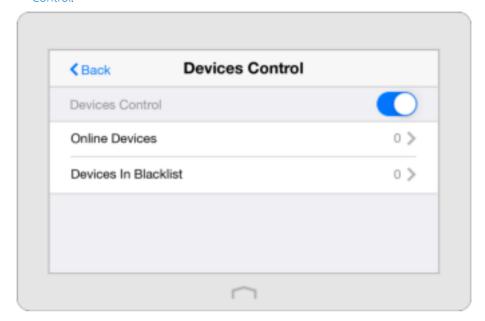
#### 4. 7 Devices Control

The Devices Control app helps to view the client information and block unauthorized users (wired or wireless) from connecting to your Touch P5.

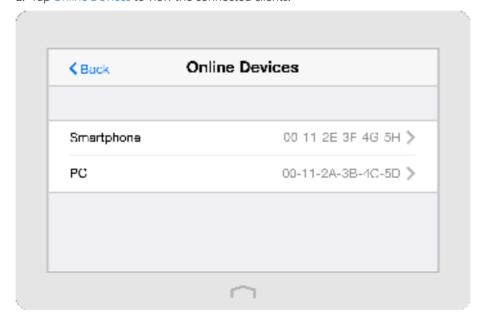
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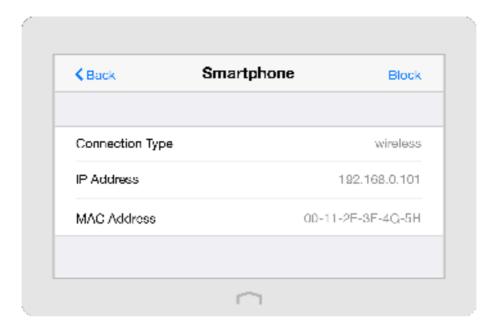
1. On the menu screen, tap the Devices Control icon to open it. Toggle the button to enable Devices Control.



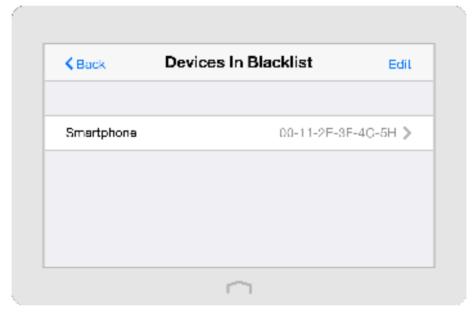
2. Tap Online Devices to view the connected clients.



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



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



Note: If you want to add a device manually or delete a blocked device, tap Edit on the Devices In Blacklist page to set up according to your needs.

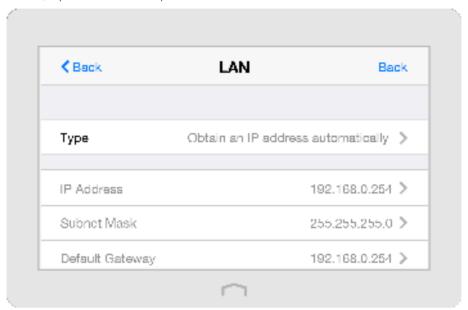
**Done!** Now devices in the blacklist cannot connect to your Touch P5.

#### 4.8 LAN

By default, your Touch P5 is set to obtain an IP address automatically from the host network. The LAN app allows you to use a specific IP address appropriate to your network demand.

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

1. On the menu screen, tap the LAN icon to open it.

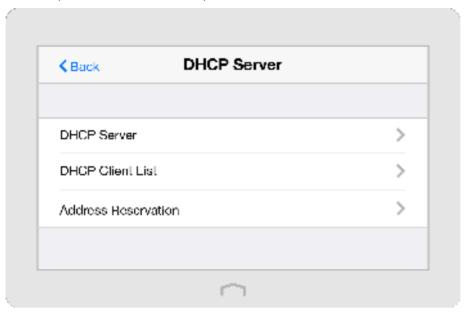


- 2. Tap Type to select Use the following IP address and tap Done.
- 3. Tap IP Address to enter an IP address in dotted decimal notation. It should be in the same subnet as the host network.
- 4. Tap Subnet Mask to enter the subnet mask in dotted decimal notation. It determines the network portion and host portion of the IP address.
- 5. Tap Default Gateway to enter the gateway in dotted decimal notation. It should be in the same subnet as the IP address.
- 6. Tap Save.

#### 4. 9 DHCP Server

The DHCP Server app can configure your Touch P5 to act as a DHCP (Dynamic Host Configuration Protocol) server to assign IP addresses to its clients and view client information from the client list. To use the DHCP server function of your Touch P5, you must configure all computers on the LAN as "Obtain an IP Address automatically". You can also manually reserve an IP address for a client that is connected to your Touch P5. Once reserved, the IP address will only be assigned to the same client by the DHCP server.

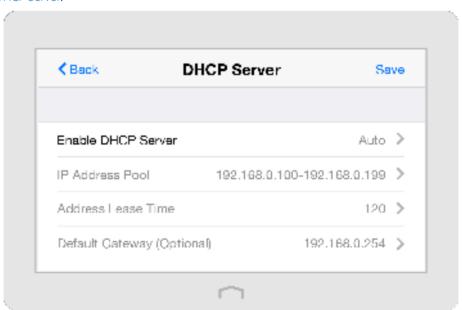
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2. Configure the DHCP settings according to your needs.

#### To set DHCP server of your Touch P5:

1) Select DHCP Server.



2) The Enable DHCP Server is set to be Auto by default and the function will automatically turn on or off to assign valid IP addresses to client devices according to the DHCP server settings of the host network.

If you select On, please configure it manually.

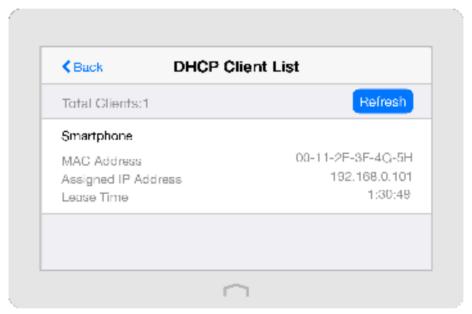
- IP Address Pool: The start address and end address must be on the same subnet with LAN IP. Your Touch P5 will assign addresses within this specified range to its clients. It is from 192.168.0.100 to 192.168.0.199 by default.
- Address Lease Time: The amount of time in which a DHCP client can lease its current dynamic IP address assigned by your Touch P5. After the dynamic IP address expires, the client will be automatically assigned a new dynamic IP address.
- Default Gateway (Optional): Enter the LAN IP address of your Touch P5.
- Primary/Secondary DNS (Optional): Enter this parameters as provided by your ISP.

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

3) Tap Save.

#### To view the client information:

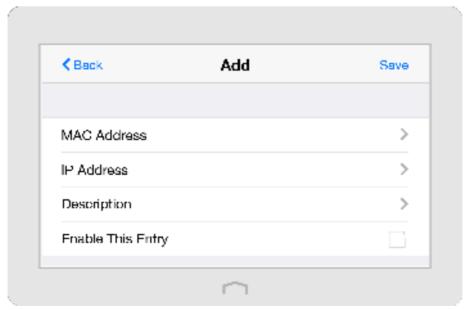
1) Select DHCP Client List.



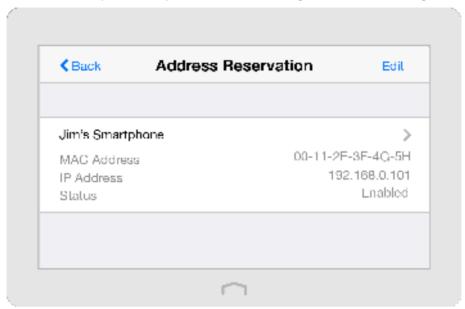
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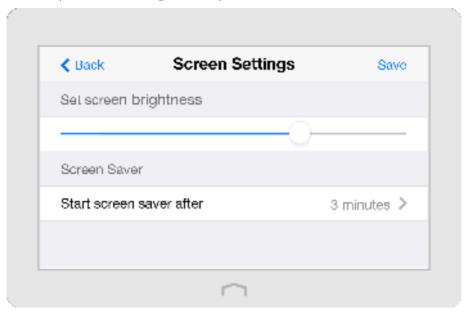


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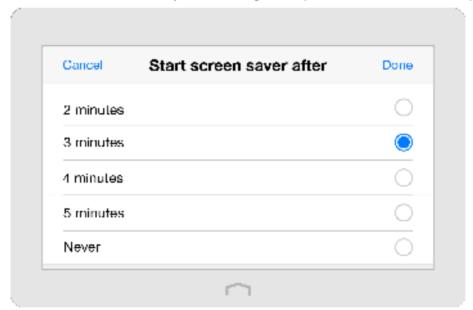
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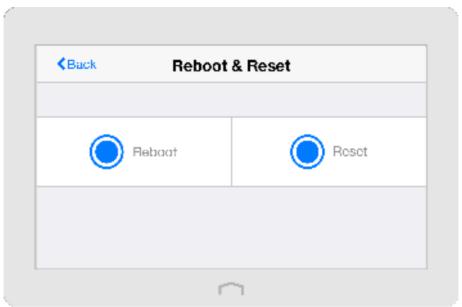
  Note: If you select Never, the screen will stay on and never go to sleep and this will decrease the life span of the screen.



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With Reboot & Reset app, you can restart your Touch P5 or reset it to its factory default settings.

1. On the menu screen, tap the Reboot & Reset icon to open it.



2. Reboot: Your Touch P5 will shut down and boot again.

Reset: To reset your Touch P5 to its factory default settings and all the settings you have configured will be erased.

Note: Please do NOT power off your Touch P5 during the rebooting or resetting process. ■

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Administrator password is used to log in to the touchscreen page and web-management page of your Touch P5. You are required to set a new administrator password at your first login. You can also change it with the Administrator Password app.

1. On the menu screen, tap the Administrator Password icon to open it.



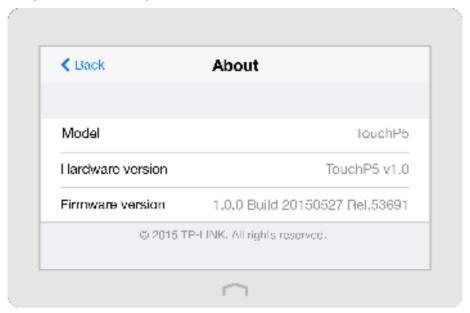
- 2. Enter the old password. Enter the new password and enter again to confirm.
- 3. Tap Save.

#### Note:

- 1. If you disable this function, your touchscreen will under no protection and anyone can change the settings of your Touch P5 through the touchscreen. But logging in through web-based management page still requires the password.
- 2. If you change the administrator password on the screen, logging into web-based management page also requires the new password.

#### 4. 13 About

The About app displays the product model, hardware and firmware information of your Touch P5. On the menu screen, tap the About icon to open it.



#### 4. 14 FAO

#### Q1. What can I do if I cannot access the Internet?

- 1. Check if the Internet is working properly by connecting a computer directly to the wired router via an Ethernet cable. If not, contact your Internet Service Provider.
- 2. Tap Quick Setup on the menu screen to run the setup again.
- 3. Tap Reboot & Reset on the menu screen, select Reboot to reboot your Touch P5 and try again.

#### Q2. What can I do if I forgot my wireless network password?

Tap Wireless Settings on the menu screen to obtain the security password, both for 2.4GHz and 5GHz wireless network.

#### Q2. How do I restore my Touch P5 to its factory default settings?

- 1. Tap Reboot & Reset on the menu screen, then tap Reset.
- 2. With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays.

Note: Once your Touch P5 is reset, all the settings will be lost and you will need to re-configure your Touch P5.

#### Q3. What can I do if I forgot my administrator password?

With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays to restore your Touch P5 to its factory default settings, and create a new administrator password.

#### Q4. What can I do if I forgot my web-based management utility account?

- 1. The default username and password of the web management utility are admin (in lower case).
- 2. The web-based management utility and touchscreen shares the same password, please try the administrator password of the touchscreen.
- 3. Restore your Touch P5 to its factory default settings: With your Touch P5 powered on, press and hold the Reset button on the back panel until the Touch P5 logo displays.

Note: Once your Touch P5 is reset, all the settings will be lost and you will need to re-configure your Touch P5.

### **Appendix A: Specifications**

	Gen	eral			
Standards and Protocols	IEEE 802.11ac, IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.11a, IEEE 802.11e, IEEE 802.11i, IEEE 802.12 802.3X, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab				
Protocols	TCP/IP, PPPoE, DHCP, ICMP, NAT, SNTP				
Ports	1 10/100/1000M Auto-Negotiation Internet RJ45 port; 4 10/100/1000M Auto-Negotiation Ethernet RJ45 ports supporting Auto MDI/MDIX; 1 USB 2.0 port and 1 USB 3.0 port supporting storage/FTP/Media/Print Server;				
Cabling Type	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100 $\Omega$ STP (maximum 100m) 100Base-TX: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100 $\Omega$ STP (maximum 100m) 1000Base-TX: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100 $\Omega$ STP (maximum 100m)				
Safety & Emissions	FCC, CE				
	Wire	eless			
Frequency Band	2.4GHz, 5GHz				
Radio Data Rate	11b: 1/2/5.5/11Mbps 11a/g: 6/9/12/18/24/36/48/54Mbps 11n: up to 600Mbps 11ac: up to 1.3Gbps				
Frequency Expansion	DSSS (Direct Sequence Spread Spectrum	1)			
Modulation	11ac: 256-QAM for OFDM 11n/g/a: QPSK,BPSK,16-QAM, 64-QAM fo 11b: CCK,DQPSK,DBPSK	r OFDM			
Security	WEP, WPA/WPA2, WPA2-PSK/WPA-PSK				
5GHz: 2.4GH 11a 6Mbps: -94dBm 11b 1 11a 54Mbps: -75dBm 11g 5 Sensitivity 11ac HT20: -66dBm 11n H		2.4GHz: 11b 1M: -96dBm 11g 54M: -76dBm 11n HT20: -73dBm 11n HT40: -71dBm			
	Physical and	Environment			
Working Temperature	0°C ~ 40°C (32°F to 104°F)				
Storage Temperature	-40°C ~ 70°C (-40°F to 158°F)				
Working Humidity	10% ~ 90% RH, Non-condensing				
Storage Humidity	5% ~ 90% RH, Non-condensing				

<sup>\*</sup> Only 2.412GHz~2.462GHz is allowed to be used in USA, which means only channel 1~11 is available for American users to choose.

### **Appendix B: Glossary**

- 802.11ac IEEE 802.11ac is a wireless computer networking standard of 802.11. This specification will enable multi-station WLAN throughput of at least 1 gigabit per second. This is accomplished by extending the air interface concepts embraced by 802.11n: wider RF bandwidth, more MIMO spatial streams, multi-user MIMO, and high-density modulation (up to 256 QAM).
- 802.11n 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The En-hanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- 802.11b The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- 802.11g specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) tech-nology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compati-bility with IEEE 802.11b devices, and WEP encryption for security.
- DDNS (Dynamic Domain Name System) The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.
- DHCP (Dynamic Host Configuration Protocol) A protocol that automatically configure the TCP/IP parameters for the all the computer(s) that are connected to a DHCP server.
- DMZ (Demilitarized Zone) A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.
- DNS (Domain Name System) An Internet Service that translates the names of websites into IP addresses.
- Domain Name A descriptive name for an address or group of addresses on the Internet.
- DSL (Digital Subscriber Line) A technology that allows data to be sent or received over existing traditional phone lines.
- ISP (Internet Service Provider) A company that provides access to the Internet.
- MTU (Maximum Transmission Unit) The size in bytes of the largest packet that can be transmitted.
- NAT (Network Address Translation) NAT technology translates IP addresses of a local area network to a different IP address
  for the Internet.
- PPPoE (Point to Point Protocol over Ethernet) PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.
- SSID A Service Set Identification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless computer card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- WEP (Wired Equivalent Privacy) A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- Wi-Fi A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- WLAN (Wireless Local Area Network) A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.

Appendix B: Glossary 107

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#### **FCC STATEMENT**



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

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

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

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

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

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

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

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

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

#### **CE Mark Warning**

# C € 1588 ①

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

#### **National Restrictions**

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

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

Country	Restriction	Reason/remark
Russian Federation	None	Only for indoor applications

#### 5150-5250 MHz

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

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

#### **Canadian Compliance Statement**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

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

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

This device has been designed to operate with the antennas listed below, and having a maximum gain of 2 dBi. Antennas not included in this list or having a gain greater than 2 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

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

#### **Industry Canada Statement**

Complies with the Canadian ICES-003 Class B specifications.

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

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

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

#### **Korea Warning Statements:**

당해 무선설비는 운용중 전파혼신 가능성이 있음.

#### **NCC Notice & BSMI Notice:**

注意!

依據 低功率電波輻射性電機管理辦法

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

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

減少電磁波影響,請妥適使用。

#### 安全諮詢及注意事項

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



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

### EAC

Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- · Avoid water and wet locations.

This product can be used in the following countries:

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

### TP-LINK TECHNOLOGIES CO., LTD

#### **DECLARATION OF CONFORMITY**

For the following equipment:

Product Description: AC1900 Touch Screen Wi-Fi Gigabit Router

Model No.: **Touch P5**Trademark: **TP-LINK** 

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

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

EN 300 328 V1.8.1

EN 301 489-1 V1.9.2 & EN 301 489-17 V2.2.1

EN 55022: 2010 + AC: 2011

EN 55024: 2010

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

EN 61000-3-3: 2013

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

EN 50385: 2002 EN 301 893 V1.7.1

The product carries the CE Mark:

**(€1588 (**)

Person responsible for making this declaration:

Yang Hongliang
Product Manager of International Business

Date of issue: 2015/06/30