



# Quick Start Guide (CPE and WBS)

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## CHAPTERS

1. Check the System Requirements
2. Log In to the Device
3. Set Up the Wireless Network



**This guide applies to:**

CPE610(UN) 1.0, CPE520(UN) 3.0, CPE510(UN) 3.0, CPE210(UN) 3.0, CPE210(EU) 3.0, CPE220(UN) 3.0, CPE510(UN) 1.0, CPE510(UN) 2.0, CPE210(UN) 1.0, CPE210(UN) 2.0, CPE220(UN) 1.0, CPE220(UN) 2.0, CPE520(UN) 1.0, CPE520(UN) 2.0, WBS210(UN) 1.0, WBS210(UN) 2.0, WBS510(UN) 1.0, WBS510(UN) 2.0.

This guide introduces how to build a wireless network using the CPE/WBS products:

1. Check the System Requirements
2. Log In to the Device
3. Set Up the Wireless Network

The following parts detailedly introduces these steps.

# 1 Check the System Requirements

- Operating System:

Microsoft Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Linux, or Mac OS X.

- Web Browser

Google Chrome, Safari, Firefox, and Apple Safari. IE browsers are not recommended.

## 2 Log In to the Device

Before configuring the device, you need to access the PharOS configuration interface. Follow the steps below:

- 1) Connect your PC to the device.
- 2) Set the IP address of your PC as static IP address on 192.168.0.X subnet (X ranges from 2 to 253, e.g.192.168.0.10)

Figure 2-1 Specifying the IP Address

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:

Subnet mask:

Default gateway:

Obtain DNS server address automatically

Use the following DNS server addresses

Preferred DNS server:

Alternate DNS server:

Validate settings upon exit

Advanced...

OK Cancel

- 3) Launch a web browser on and enter **the management IP address of the device (192.168.0.254 by default)** in the address bar to load the login page of the PharOS configuration interface.

Figure 2-2 Entering the Management IP Address

← http://192.168.0.254

- 4) Use **admin** for both of *User Name* and *Password*. Select the appropriate language from the Language drop-down list. Read and agree the terms of use, then click *Login*.

Figure 2-3 Logging In

tp-link

User Name: admin

Password:

Language: English

**TERMS OF USE**

This TP-LINK wireless device must be installed by a certified professional. Properly installed shielded Ethernet cable and earth grounding must be used in compliance with this product's warranty. Installers must abide by local rules and regulations in terms of legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements. The End User accepts responsibility for maintaining the product in accordance with these rules and regulations. For further information, please visit [www.tp-link.com](http://www.tp-link.com).

I agree to these terms of use

Login Clear

- 5) Create a new username and password for network security. Click *Finish* to log in to the PharOS.

Figure 2-4 Creating a New Account

tp-link

New User Name:

New Password:

Confirm Password:

**TERMS OF USE**

It is recommended to change the device user name and password from its default settings.

Finish Clear

# 3 Set Up the Wireless Network

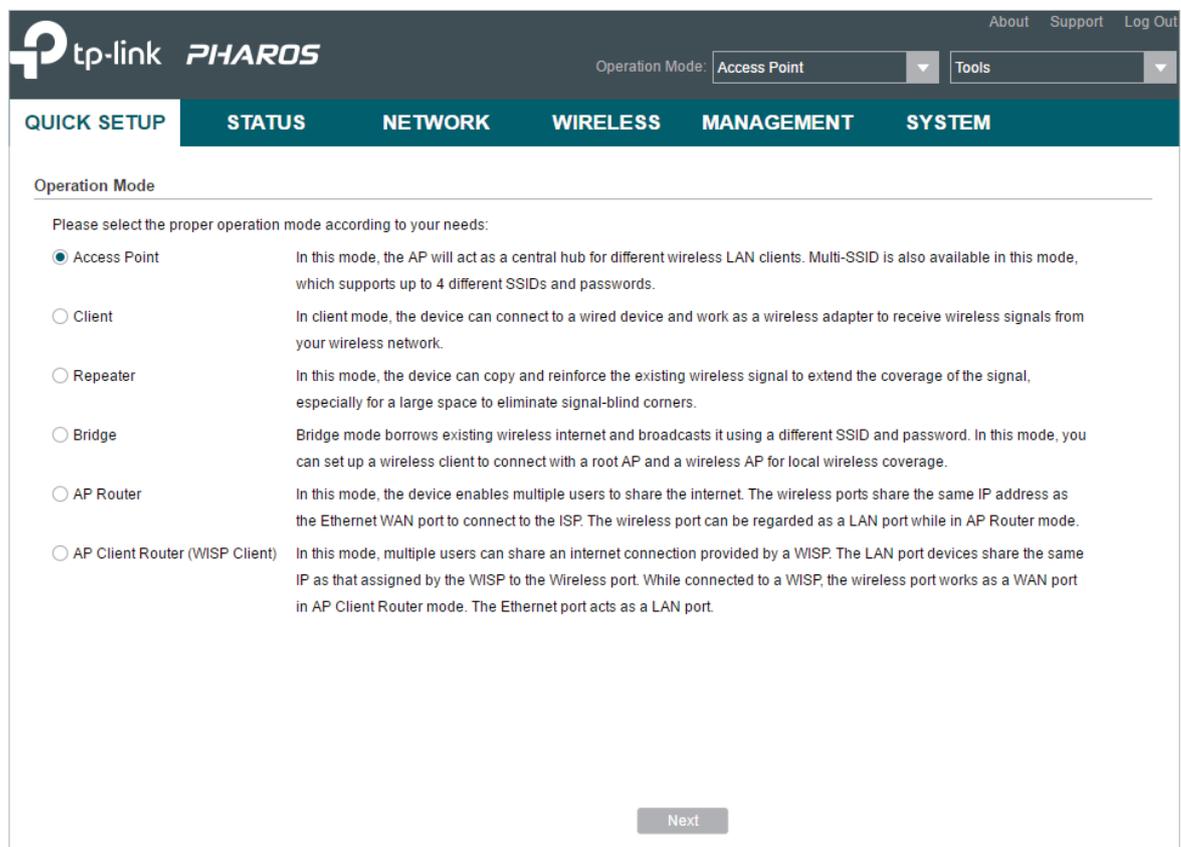
You can use the Quick Setup wizard to quickly configure your device step by step. Choose the suitable operation mode according to your network environment and follow the step-by-step instructions.

## 3.1 Access Point

Follow the steps below to configure the device as Access Point mode:

- 1) Go to the **QUICK SETUP** page, select *Access Point* and click *Next*.

Figure 3-1 Selecting an Operation Mode



- 2) In the **LAN Settings** section, specify the LAN IP address and the Subnet Mask for the device. Then, click *Next*.

Figure 3-2 Specifying the LAN Settings

The screenshot shows a web interface for configuring LAN settings. At the top, there is a navigation bar with tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'NETWORK' tab is selected. Below the navigation bar, the page title is 'LAN Settings'. There are two input fields: 'IP Address' with the value '192.168.0.254' and 'Subnet Mask' with the value '255.255.255.0'. At the bottom of the page, there are two buttons: 'Back' and 'Next'.

- 3) In the **Wireless AP Settings** section, specify the basic wireless parameters to create a wireless network. Click Next.

 **Note:**

- It is recommended to specify *Security* as **WPA-PSK/WPA2-PSK** for the network security.
- You can keep the default settings or specify the parameters according to your need. For details, refer to [Configure the Wireless Parameters](#).

Figure 3-3 Specifying the Wireless AP Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Wireless AP Settings

SSID: TP-LINK\_Outdoor\_BD205C

Mode: 802.11a/n

Channel Width: 20/40MHz

Channel/Frequency: Auto

Security: None

PSK Password:   Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

Distance Setting: 0 (0-27.9)km

MAXtream:  Enable ?

Back Next

- 4) In the **Finish** section, review the configurations and click *Finish* to complete the quick setup.

Figure 3-4 Checking the Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Finish

Operation Mode: Access Point

IP Address: 192.168.0.254

Subnet Mask: 255.255.255.0

SSID: TP-LINK\_Outdoor\_BD205C

Mode: 802.11a/n

Channel Width: 20/40MHz

Channel/Frequency: Auto

Security: None

Distance Setting: 0 km

MAXtream: Disable

Back Finish

- 5) Connect the device according to your network topology and use it normally.

## 3.2 Client

Follow the steps below to configure the device as Client mode:

- 1) Go to the **QUICK SETUP** page, select *Client* and click *Next*.

Figure 3-5 Selecting an Operation Mode

The screenshot shows the TP-Link PHAROS web interface. At the top, there is a navigation bar with the TP-Link logo and 'PHAROS' text. On the right, there are links for 'About', 'Support', and 'Log Out'. Below the navigation bar, there is a header with 'Operation Mode: Access Point' and a 'Tools' dropdown menu. The main content area has a dark teal navigation bar with tabs for 'QUICK SETUP', 'STATUS', 'NETWORK', 'WIRELESS', 'MANAGEMENT', and 'SYSTEM'. The 'QUICK SETUP' tab is active. Below the navigation bar, the 'Operation Mode' section is displayed. It contains a heading 'Operation Mode' and a sub-heading 'Please select the proper operation mode according to your needs:'. There are six radio button options, each with a description:
 

- Access Point: In this mode, the AP will act as a central hub for different wireless LAN clients. Multi-SSID is also available in this mode, which supports up to 4 different SSIDs and passwords.
- Client: In client mode, the device can connect to a wired device and work as a wireless adapter to receive wireless signals from your wireless network.
- Repeater: In this mode, the device can copy and reinforce the existing wireless signal to extend the coverage of the signal, especially for a large space to eliminate signal-blind corners.
- Bridge: Bridge mode borrows existing wireless internet and broadcasts it using a different SSID and password. In this mode, you can set up a wireless client to connect with a root AP and a wireless AP for local wireless coverage.
- AP Router: In this mode, the device enables multiple users to share the internet. The wireless ports share the same IP address as the Ethernet WAN port to connect to the ISP. The wireless port can be regarded as a LAN port while in AP Router mode.
- AP Client Router (WISP Client): In this mode, multiple users can share an internet connection provided by a WISP. The LAN port devices share the same IP as that assigned by the WISP to the Wireless port. While connected to a WISP, the wireless port works as a WAN port in AP Client Router mode. The Ethernet port acts as a LAN port.

 At the bottom right of the form, there is a 'Next' button.

- 2) In the **LAN Settings** section, specify the LAN IP Address and the Subnet Mask for the device. Then, click *Next*.

Figure 3-6 Specifying the LAN Settings

The screenshot shows a web interface with a navigation bar at the top containing the following tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'NETWORK' tab is currently selected. Below the navigation bar, the page title is 'LAN Settings'. The main content area contains two input fields: 'IP Address' with the value '192.168.0.254' and 'Subnet Mask' with the value '255.255.255.0'. At the bottom of the page, there are two buttons: 'Back' and 'Next'.

- 3) In the **Wireless Client Settings** section, click **Survey** to search for the upstream wireless network.

Figure 3-7 Searching for Upstream Wireless Networks

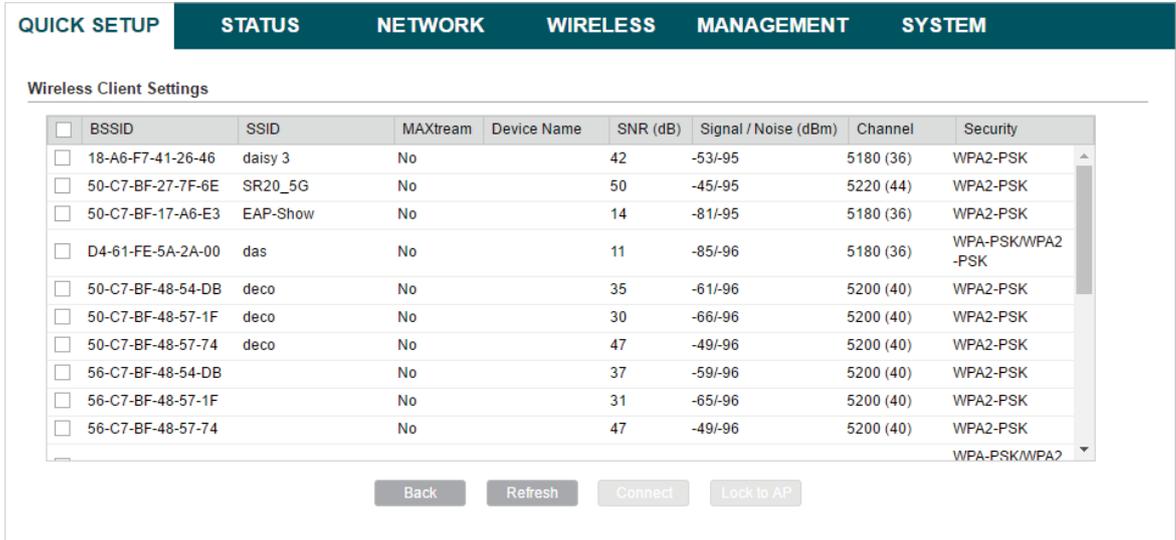
The screenshot shows a web interface with a navigation bar at the top containing the following tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'WIRELESS' tab is currently selected. Below the navigation bar, the page title is 'Wireless Client Settings'. The main content area contains several configuration options: 'SSID of Remote AP' with an input field and a 'Survey' button; 'MAC of Remote AP' with an input field and a 'Lock to AP' checkbox; 'Mode' with a dropdown menu set to '802.11a/n'; 'WDS' with a dropdown menu set to 'Auto'; 'Channel Width' with a dropdown menu set to '20/40MHz'; 'Security' with a dropdown menu set to 'None'; 'PSK Password' with an input field and a 'Show' checkbox; and 'Distance Setting' with an input field set to '0' and a range '(0-27.9)km'. A note below the PSK Password field reads: 'We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.' At the bottom of the page, there are two buttons: 'Back' and 'Next'.

- 4) Select the desired wireless network and click **Connect**.

 **Note:**

There may be two or more networks with the same SSID in the AP list. Click **Lock to AP** to select the SSID and AP simultaneously, which can make the device connect to the specific AP next time.

Figure 3-8 Selecting an Upstream Wireless Network



<input type="checkbox"/>	BSSID	SSID	MAXtream	Device Name	SNR (dB)	Signal / Noise (dBm)	Channel	Security
<input type="checkbox"/>	18-A6-F7-41-26-46	daisy 3	No		42	-53/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-27-7F-6E	SR20_5G	No		50	-45/-95	5220 (44)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-17-A6-E3	EAP-Show	No		14	-81/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	D4-61-FE-5A-2A-00	das	No		11	-85/-96	5180 (36)	WPA-PSK/WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-54-DB	deco	No		35	-61/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-1F	deco	No		30	-66/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-74	deco	No		47	-49/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-54-DB		No		37	-59/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-1F		No		31	-65/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-74		No		47	-49/-96	5200 (40)	WPA2-PSK

Buttons: Back, Refresh, Connect, Lock to AP

- 5) In the **Wireless Client Settings** section, specify the wireless parameters to connect to the specified wireless network. Click Next.

 **Note:**

Make sure that **Security** and **PSK Password** are the same as the upstream wireless network's. Other parameters set in this page and those of the upstream wireless network should be compatible with each other. For details, refer to [Configure the Wireless Parameters](#).

Figure 3-9 Specifying the Wireless Client Settings

- 6) In the **Finish** section, review the configurations and click *Finish* to complete the quick setup.

Figure 3-10 Checking the Settings

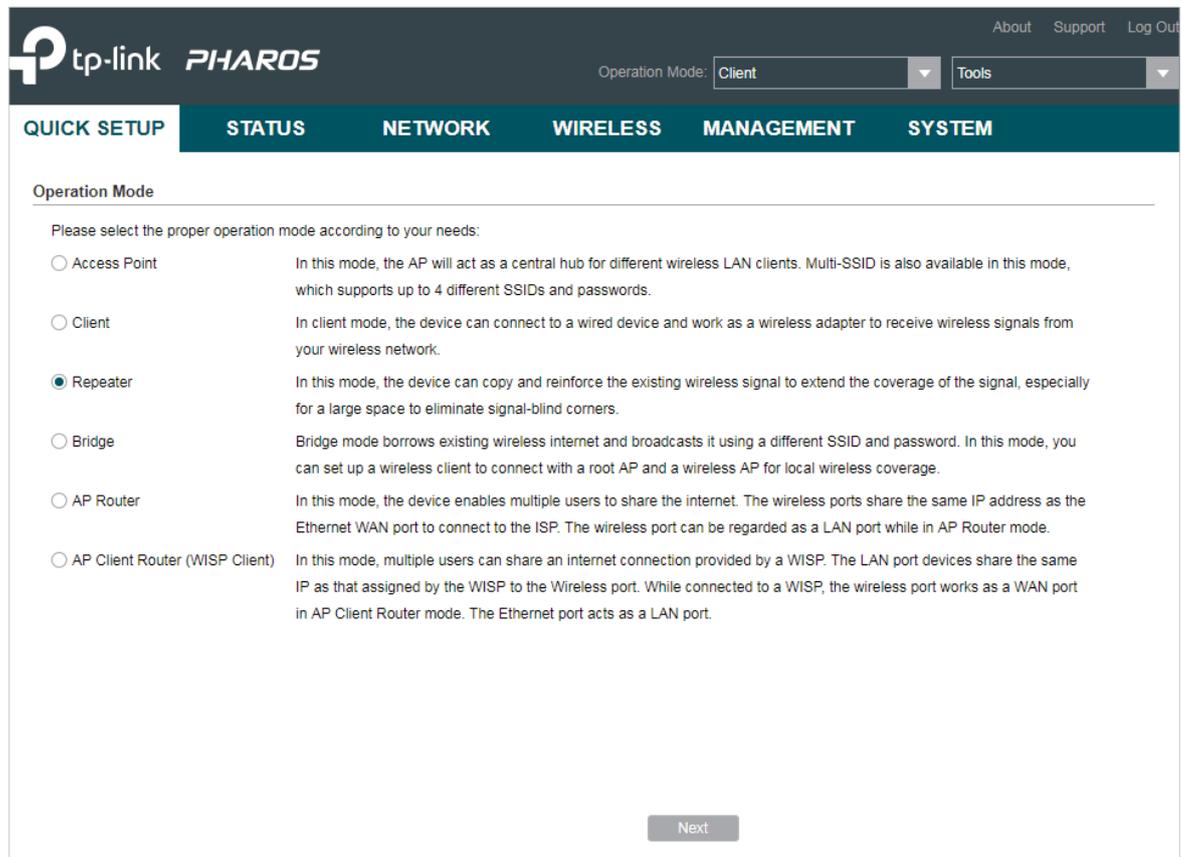
- 7) Connect the device according to your network topology and use it normally.

### 3.3 Repeater (Range Extender)

Follow the steps below to configure the device as Repeater (Range Extender) mode:

- 1) Go to the **QUICK SETUP** page, select *Repeater* and click *Next*.

Figure 3-11 Selecting an Operation Mode



The screenshot shows the TP-Link PHAROS web interface. At the top, there is a navigation bar with the TP-Link logo and 'PHAROS' text. On the right, there are links for 'About', 'Support', and 'Log Out'. Below the navigation bar, there is a header with tabs: 'QUICK SETUP', 'STATUS', 'NETWORK', 'WIRELESS', 'MANAGEMENT', and 'SYSTEM'. The 'QUICK SETUP' tab is active. Below the tabs, there is a section titled 'Operation Mode'. The text reads: 'Please select the proper operation mode according to your needs:'. There are seven radio button options, each with a description: 'Access Point', 'Client', 'Repeater' (which is selected), 'Bridge', 'AP Router', and 'AP Client Router (WISP Client)'. At the bottom right of the form, there is a 'Next' button.

- 2) In the **LAN Settings** section, specify the LAN IP address and the Subnet Mask for the device. Then, click *Next*.

Figure 3-12 Specifying the LAN Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

LAN Settings

IP Address: 192.168.0.254

Subnet Mask: 255.255.255.0

Back Next

- 3) In the **Wireless Client Settings** section, click *Survey* to search for the upstream wireless network.

Figure 3-13 Searching for Upstream Wireless Networks

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Wireless Client Settings

SSID of Remote AP:  Survey

MAC of Remote AP:   Lock to AP

Mode: 802.11a/n

WDS: Auto

Channel Width: 20/40MHz

Security: None

PSK Password:   Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

Distance Setting: 0 (0-27.9)km

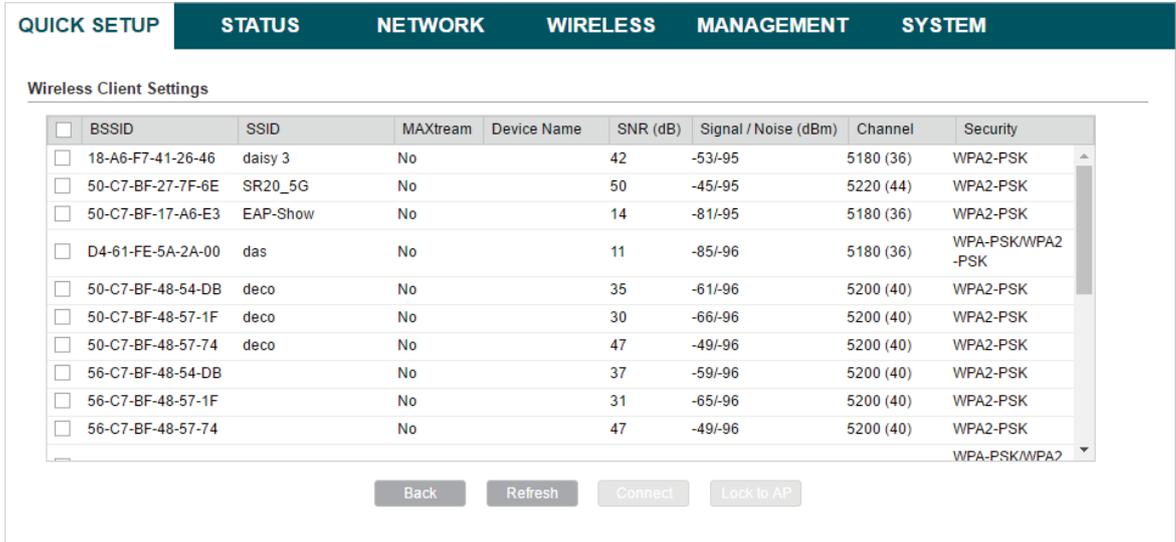
Back Next

- 4) Select the desired wireless network and click *Connect*.

 **Note:**

There may be two or more networks with the same SSID in the AP list. Click **Lock to AP** to select the SSID and AP simultaneously, which can make the device connect to the specific AP next time.

Figure 3-14 Selecting an Upstream Wireless Network



<input type="checkbox"/>	BSSID	SSID	MAXtream	Device Name	SNR (dB)	Signal / Noise (dBm)	Channel	Security
<input type="checkbox"/>	18-A6-F7-41-26-46	daisy 3	No		42	-53/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-27-7F-6E	SR20_5G	No		50	-45/-95	5220 (44)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-17-A6-E3	EAP-Show	No		14	-81/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	D4-61-FE-5A-2A-00	das	No		11	-85/-96	5180 (36)	WPA-PSK/WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-54-DB	deco	No		35	-61/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-1F	deco	No		30	-66/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-74	deco	No		47	-49/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-54-DB		No		37	-59/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-1F		No		31	-65/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-74		No		47	-49/-96	5200 (40)	WPA2-PSK

Buttons: Back, Refresh, Connect, Lock to AP

- 5) In the **Wireless Client Settings** section, specify the wireless parameters to connect to the specified wireless network. Click Next.

 **Note:**

Make sure that **Security** and **PSK Password** are the same as the upstream wireless network's. Other parameters set in this page and those of the upstream wireless network should be compatible with each other. For details, refer to [Configure the Wireless Parameters](#).

Figure 3-15 Specifying the Wireless Client Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Wireless Client Settings

SSID of Remote AP: 7200\_5G

MAC of Remote AP: 50-C7-BF-01-88-1F  Lock to AP

Mode: 802.11a/n

WDS: Auto

Channel Width: 20/40MHz

Security: WPA-PSK / WPA2-PSK

PSK Password: \*\*\*\*\*  Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

Distance Setting: 0 (0-27.9)km

- 6) In the **Finish** section, review the configurations and click *Finish* to complete the quick setup.

Figure 3-16 Checking the Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Finish

Operation Mode: Repeater

IP Address: 192.168.0.254

Subnet Mask: 255.255.255.0

SSID of Remote AP: 7200\_5G

Mode: 802.11a/n

WDS: Disable

Channel Width: 20/40MHz

Security: WPA-PSK / WPA2-PSK

Distance Setting: 0 km

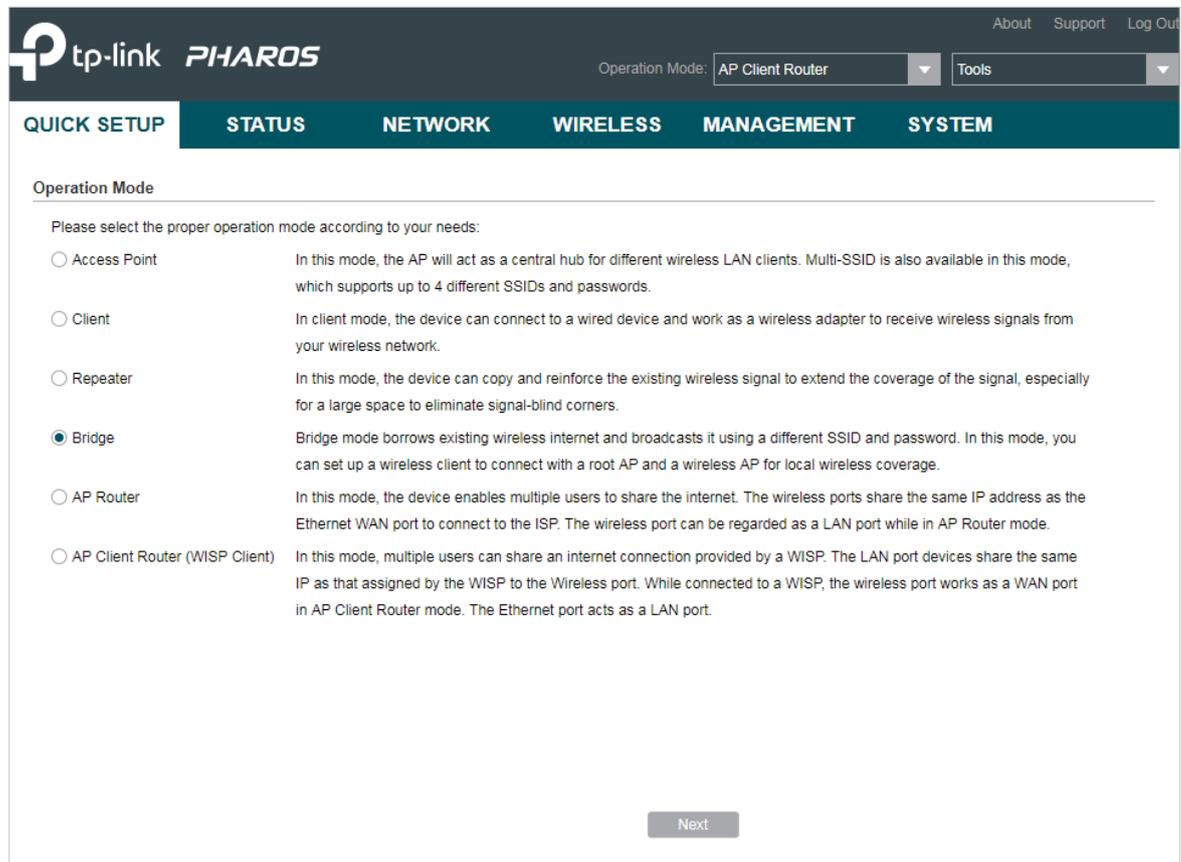
- 7) Connect the device according to your network topology and use it normally.

## 3.4 Bridge

Follow the steps below to configure the device as Bridge mode:

- 1) Go to the **QUICK SETUP** page, select *Bridge* and click *Next*.

Figure 3-17 Selecting an Operation Mode



The screenshot shows the TP-Link PHAROS web interface. At the top, there is a navigation bar with the TP-Link logo and 'PHAROS' text. To the right, there are links for 'About', 'Support', and 'Log Out'. Below the navigation bar, there is a header with 'Operation Mode: AP Client Router' and a 'Tools' dropdown menu. The main content area is titled 'QUICK SETUP' and has several tabs: 'QUICK SETUP', 'STATUS', 'NETWORK', 'WIRELESS', 'MANAGEMENT', and 'SYSTEM'. The 'QUICK SETUP' tab is active. Underneath, there is a section titled 'Operation Mode' with the instruction: 'Please select the proper operation mode according to your needs:'. There are six radio button options, each with a description: 'Access Point', 'Client', 'Repeater', 'Bridge' (which is selected), 'AP Router', and 'AP Client Router (WISP Client)'. At the bottom right of the form, there is a 'Next' button.

- 2) In the **LAN Settings** section, specify the LAN IP address and the Subnet Mask for the device. Then, click *Next*.

Table 3-1 Specifying the LAN Settings

- 3) In the **Wireless Client Settings** section, click *Survey* to search for the upstream wireless network.

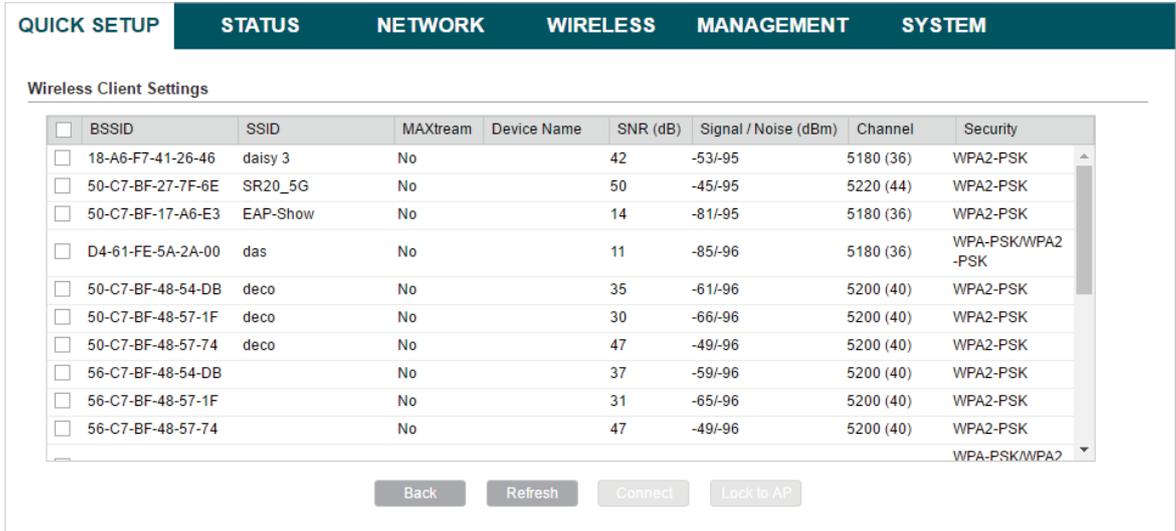
Figure 3-18 Searching for Upstream Wireless Networks

- 4) Select the desired wireless network and click *Connect*.

 **Note:**

There may be two or more networks with the same SSID in the AP list. Click **Lock to AP** to select the SSID and AP simultaneously, which can make the device connect to the specific AP next time.

Figure 3-19 Selecting an Upstream Wireless Network



<input type="checkbox"/>	BSSID	SSID	MAXtream	Device Name	SNR (dB)	Signal / Noise (dBm)	Channel	Security
<input type="checkbox"/>	18-A6-F7-41-26-46	daisy 3	No		42	-53/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-27-7F-6E	SR20_5G	No		50	-45/-95	5220 (44)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-17-A6-E3	EAP-Show	No		14	-81/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	D4-61-FE-5A-2A-00	das	No		11	-85/-96	5180 (36)	WPA-PSK/WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-54-DB	deco	No		35	-61/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-1F	deco	No		30	-66/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-74	deco	No		47	-49/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-54-DB		No		37	-59/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-1F		No		31	-65/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-74		No		47	-49/-96	5200 (40)	WPA2-PSK

Buttons: Back, Refresh, Connect, Lock to AP

- 5) In the **Wireless Client Settings** section, specify the wireless parameters to connect to the specified wireless network. Click Next.

 **Note:**

Make sure that the **Security** and **PSK Password** are the same as the upstream wireless network's. Other parameters set in this page and those of the upstream wireless network should be compatible with each other. For details, refer to [Configure the Wireless Parameters](#).

Figure 3-20 Specifying the Wireless Client Settings

Wireless Client Settings

SSID of Remote AP:

MAC of Remote AP:   Lock to AP

Mode:  ▼

WDS:  ▼

Channel Width:  ▼

Security:  ▼

PSK Password:   Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

Distance Setting:  (0-27.9)km

- 6) In the **Wireless AP Settings** section, specify the parameters to create a new wireless network for the downstream clients. Click *Next*.

Figure 3-21 Specifying the Wireless AP Settings

Wireless AP Settings

Wireless Radio:  Enable

SSID:

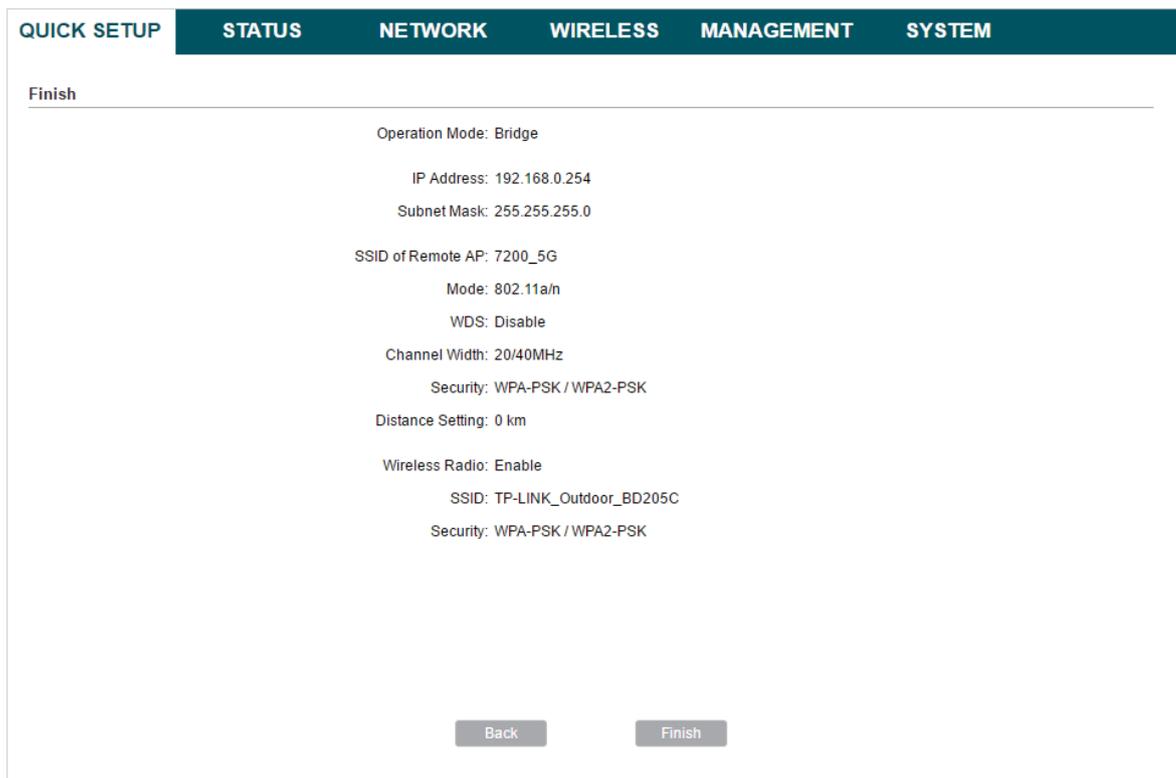
Security:  ▼

PSK Password:   Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

- 7) In the **Finish** section, review the configurations and click *Finish* to complete the quick setup.

Figure 3-22 Checking the Settings



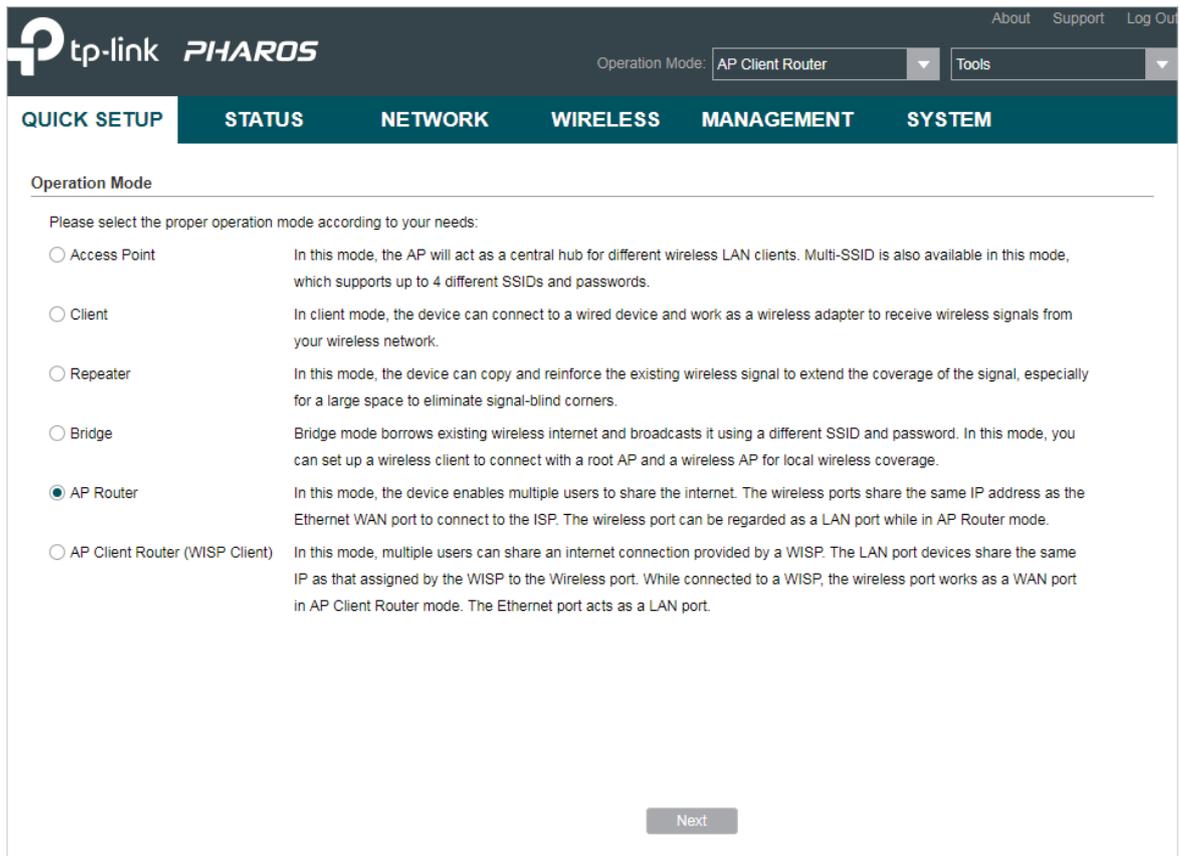
8) Connect the device according to your network topology and use it normally.

## 3.5 AP Router

Follow the steps below to configure the device as AP Router mode:

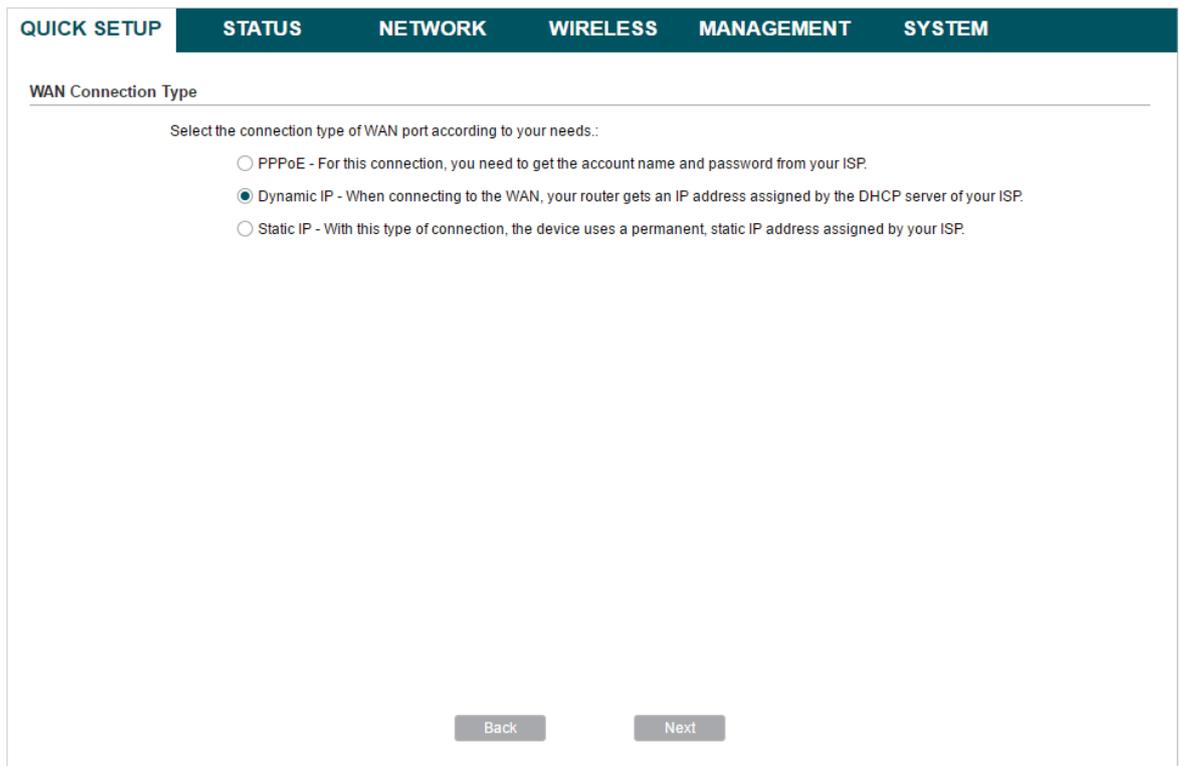
1) Go to the **QUICK SETUP** page, select *AP Router* and click *Next*.

Figure 3-23 Selecting an Operation Mode



2) In the **WAN Connection Type** section, specify the connection type according to your need and click Next.

Figure 3-24 Specifying the WAN Connection Type

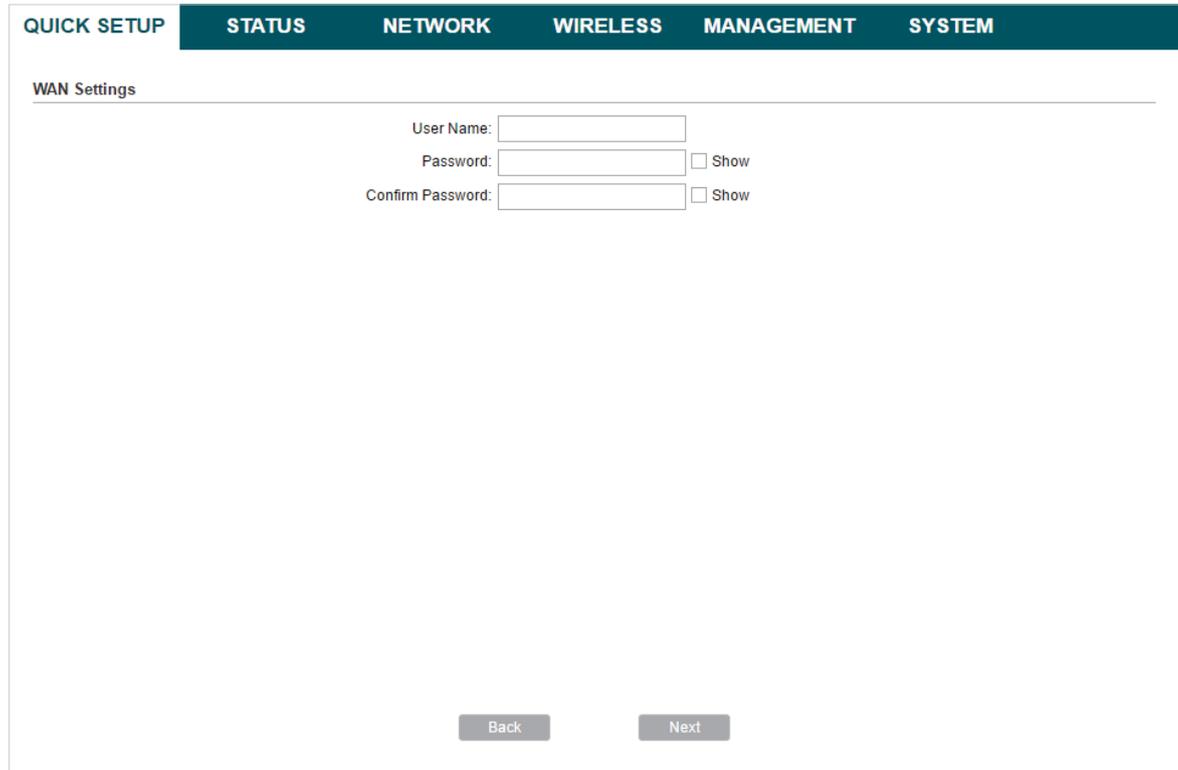


The device supports three types of the WAN connection, including *PPPoE*, *Dynamic IP* and *Static IP*. You can contact with your ISP to confirm your WAN connection type.

» **PPPoE**

Select *PPPoE* and click *Next*, then the following page will appear. In the **WAN Settings** section, specify the parameters that are provided by your ISP and click *Next*.

Figure 3-25 Specifying the WAN Settings



The screenshot shows a web interface with a dark teal header containing navigation tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'QUICK SETUP' tab is active. Below the header, the page title is 'WAN Settings'. The main content area contains three input fields: 'User Name:' with a text box, 'Password:' with a text box and a 'Show' checkbox, and 'Confirm Password:' with a text box and a 'Show' checkbox. At the bottom of the form, there are two buttons: 'Back' and 'Next'.

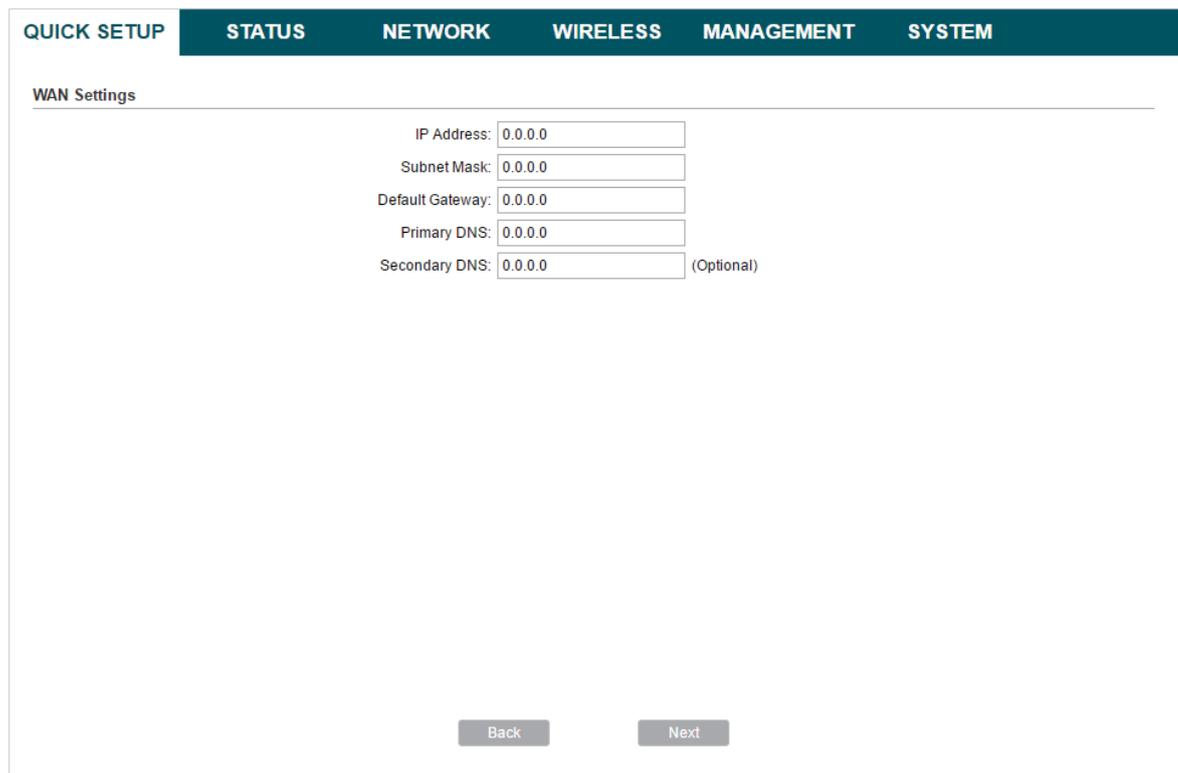
» **Dynamic IP**

Select *Dynamic IP* and click *Next*. In this type, the device will obtain a WAN connection automatically without any WAN configurations.

» **Static IP**

Select *Static IP* and click *Next*, then the following page will appear. In the **WAN Settings** section, specify the parameters that are provided by your ISP and click *Next*.

Figure 3-26 Specifying the WAN Settings



The screenshot shows a web interface with a navigation bar at the top containing the following tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'NETWORK' tab is currently selected. Below the navigation bar, the page is titled 'WAN Settings'. The configuration area contains five input fields, each with a label and a text box containing the value '0.0.0.0':

- IP Address: 0.0.0.0
- Subnet Mask: 0.0.0.0
- Default Gateway: 0.0.0.0
- Primary DNS: 0.0.0.0
- Secondary DNS: 0.0.0.0 (Optional)

At the bottom of the configuration area, there are two buttons: 'Back' and 'Next'.

- 3) In the **Wireless AP Settings** section, specify the basic wireless parameters to create a wireless network. Click Next.

 **Note:**

- It is recommended to specify Security as **WPA-PSK/WPA2-PSK** for the network security.
- You can keep the default settings or specify the parameters according to your need. For details, refer to [Configure the Wireless Parameters](#).

Figure 3-27 Specifying the Wireless AP Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Wireless AP Settings

SSID: TP-LINK\_Outdoor\_BD205C

Mode: 802.11a/n

Channel Width: 20/40MHz

Channel/Frequency: Auto

Security: None

PSK Password:   Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

Distance Setting: 0 (0-27.9)km

MAXstream:  Enable ?

Back Next

- 4) In the **Finish** section, review the configurations and click *Finish* to complete the quick setup.

Figure 3-28 Checking the Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Finish

Operation Mode: AP Router

WAN Connection Type: Static IP

IP Address: 192.168.2.10

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

Primary DNS: 192.168.0.3

Secondary DNS: 192.168.1.3

SSID: TP-LINK\_Outdoor\_BD205C

Mode: 802.11a/n

Channel Width: 20/40MHz

Security: None

Distance Setting: 0 km

MAXstream: Disable

Back Finish

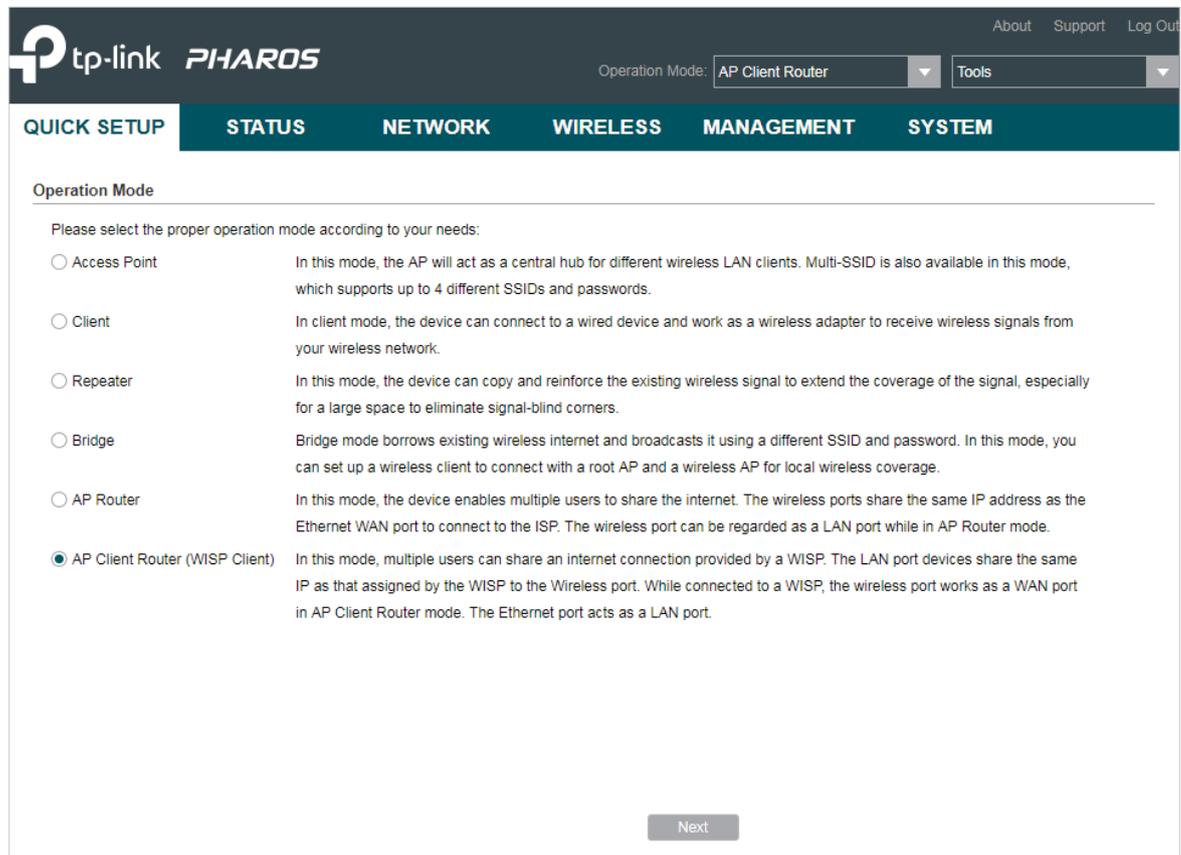
- 5) Connect the device according to your network topology and use it normally.

## 3.6 AP Client Router (WISP Client)

Follow the steps below to configure the device as AP Client Router (WISP Client) mode:

- 1) Go to the **QUICK SETUP** page, select *AP Client Router (WISP Client)* and click *Next*.

Figure 3-29 Selecting an Operation Mode



- 2) In the **WAN Connection Type** section, choose the connection type according to your need and click *Next*.

Figure 3-30 Specifying the WAN Connecting Type

**QUICK SETUP**   **STATUS**   **NETWORK**   **WIRELESS**   **MANAGEMENT**   **SYSTEM**

**WAN Connection Type**

Select the connection type of WAN port according to your needs.:

- PPPoE - For this connection, you need to get the account name and password from your ISP.
- Dynamic IP - When connecting to the WAN, your router gets an IP address assigned by the DHCP server of your ISP.
- Static IP - With this type of connection, the device uses a permanent, static IP address assigned by your ISP.

Back   Next

The device supports types, *PPPoE*, *Dynamic IP* and *Static IP* for the WAN connection. You can contact with your ISP to confirm your WAN connection type.

» **PPPoE**

Select *PPPoE* and click *Next*, then the following page will appear. In the **WAN Settings** section, specify the parameters that are provided by your ISP and click *Next*.

Figure 3-31 Specifying the WAN Settings

The screenshot shows a web interface with a dark teal header containing navigation tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'QUICK SETUP' tab is active. Below the header, the page title is 'WAN Settings'. The main content area contains three input fields: 'User Name:' with a text box, 'Password:' with a text box and a 'Show' checkbox, and 'Confirm Password:' with a text box and a 'Show' checkbox. At the bottom of the form, there are two buttons: 'Back' and 'Next'.

» **Dynamic IP**

Select *Dynamic IP* and click *Next*. In this type, the device will obtain a WAN connection automatically without any WAN configurations.

» **Static IP**

Select *Static IP* and click *Next*, then the following page will appear. In the **WAN Settings** section, specify the parameters that are provided by your ISP and click *Next*.

Figure 3-32 Specifying the WAN Settings

The screenshot shows the WAN Settings configuration page. At the top, there is a navigation bar with tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'NETWORK' tab is selected. Below the navigation bar, the page title is 'WAN Settings'. The configuration area contains the following fields:

- IP Address: 0.0.0.0
- Subnet Mask: 0.0.0.0
- Default Gateway: 0.0.0.0
- Primary DNS: 0.0.0.0
- Secondary DNS: 0.0.0.0 (Optional)

At the bottom of the configuration area, there are two buttons: 'Back' and 'Next'.

- 3) In the **Wireless Client Settings** section, click *Survey* to search for the upstream wireless network.

Figure 3-33 Searching for Upstream Wireless Networks

The screenshot shows the Wireless Client Settings configuration page. At the top, there is a navigation bar with tabs: QUICK SETUP, STATUS, NETWORK, WIRELESS, MANAGEMENT, and SYSTEM. The 'WIRELESS' tab is selected. Below the navigation bar, the page title is 'Wireless Client Settings'. The configuration area contains the following fields and controls:

- SSID of Remote AP: [Text Input] [Survey Button]
- MAC of Remote AP: [Text Input]  Lock to AP
- Mode: 802.11a/n [Dropdown]
- WDS: Auto [Dropdown]
- Channel Width: 20/40MHz [Dropdown]
- Security: None [Dropdown]
- PSK Password: [Text Input]  Show
- We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.
- Distance Setting: 0 [Text Input] (0-27.9)km

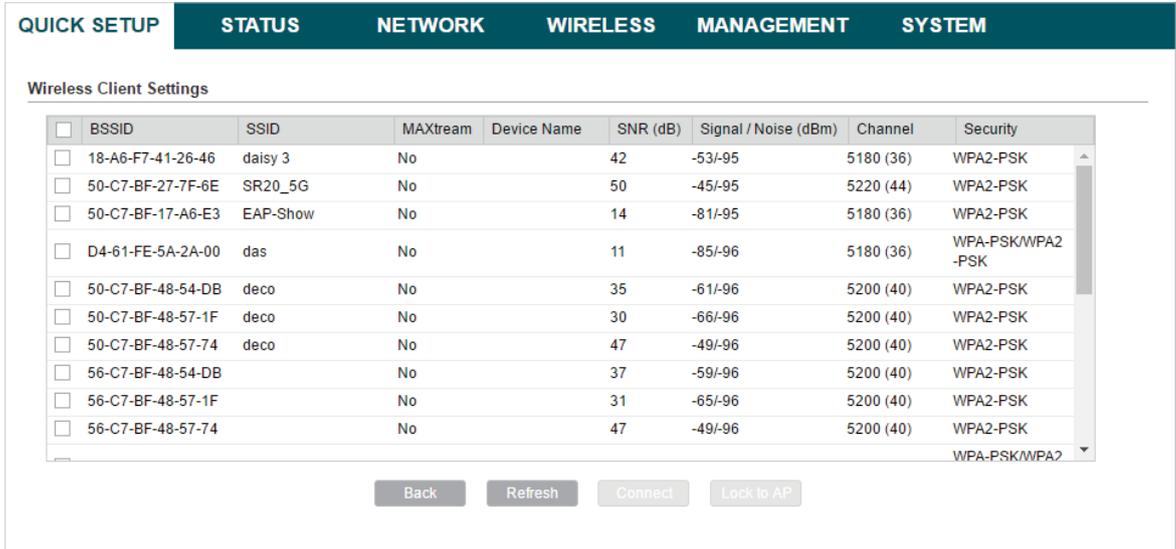
At the bottom of the configuration area, there are two buttons: 'Back' and 'Next'.

- 4) Select the desired wireless network and click *Connect*.

 **Note:**

There may be two or more networks with the same SSID in the AP list. Click **Lock to AP** to select the SSID and AP simultaneously, which can make the device connect to the specific AP next time.

Figure 3-34 Selecting an Upstream Wireless Network



<input type="checkbox"/>	BSSID	SSID	MAXtream	Device Name	SNR (dB)	Signal / Noise (dBm)	Channel	Security
<input type="checkbox"/>	18-A6-F7-41-26-46	daisy 3	No		42	-53/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-27-7F-6E	SR20_5G	No		50	-45/-95	5220 (44)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-17-A6-E3	EAP-Show	No		14	-81/-95	5180 (36)	WPA2-PSK
<input type="checkbox"/>	D4-61-FE-5A-2A-00	das	No		11	-85/-96	5180 (36)	WPA-PSK/WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-54-DB	deco	No		35	-61/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-1F	deco	No		30	-66/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	50-C7-BF-48-57-74	deco	No		47	-49/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-54-DB		No		37	-59/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-1F		No		31	-65/-96	5200 (40)	WPA2-PSK
<input type="checkbox"/>	56-C7-BF-48-57-74		No		47	-49/-96	5200 (40)	WPA2-PSK

Buttons: Back, Refresh, Connect, Lock to AP

- 5) In the **Wireless Client Settings** section, specify the wireless parameters to connect to the specified wireless network. Click Next.

 **Note:**

Make sure that **Security** and **PSK Password** are the same as the upstream wireless network's. Other parameters set in this page and those of the upstream wireless network should be compatible with each other. For details, refer to [Configure the Wireless Parameters](#).

Figure 3-35 Specifying the Wireless Client Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Wireless Client Settings

SSID of Remote AP: 7200\_5G Survey

MAC of Remote AP: 50-C7-BF-01-88-1F Lock to AP

Mode: 802.11a/n

WDS: Auto

Channel Width: 20/40MHz

Security: WPA-PSK / WPA2-PSK

PSK Password: \*\*\*\*\* Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

Distance Setting: 0 (0-27.9)km

Back Next

- 6) In the **Wireless AP Settings** section, specify the parameters to create a new wireless network for the downstream clients. Click *Next*.

Figure 3-36 Specifying the Wireless AP Settings

QUICK SETUP STATUS NETWORK WIRELESS MANAGEMENT SYSTEM

Wireless AP Settings

Wireless Radio:  Enable

SSID: TP-LINK\_Outdoor\_BD205C

Security: WPA-PSK / WPA2-PSK

PSK Password: \*\*\*\*\* Show

We do not recommend using WEP encryption. You can go to WIRELESS page to configure the encryption mode.

Back Next

- 7) In the **Finish** section, review the configurations and click *Finish* to complete the quick setup.

Figure 3-37 Checking the Settings

**QUICK SETUP**   **STATUS**   **NETWORK**   **WIRELESS**   **MANAGEMENT**   **SYSTEM**

**Finish**

Operation Mode: AP Client Router (WISP Client)

WAN Connection Type: Static IP

IP Address: 192.168.2.10

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

Primary DNS: 192.168.0.1

Secondary DNS: 192.168.1.2

SSID of Remote AP: 7200\_5G

Mode: 802.11a/n

WDS: Disable

Channel Width: 20/40MHz

Security: WPA-PSK / WPA2-PSK

Distance Setting: 0 km

Wireless Radio: Enable

SSID: TP-LINK\_Outdoor\_BD205C

Security: WPA-PSK / WPA2-PSK

Back   Finish

- 8) Connect the device according to your network topology and use it normally.