



User Guide For Wireless Transmitter

Release version:V1.0.0

July 2025

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Overview

CPE devices act as a core network access bridge, connecting to external networks (including broadband networks such as optical fiber, Ethernet, and cellular networks like 4G/5G) and internal terminal devices (such as smartphones, computers, and smart home appliances). They convert incoming network signals (broadband or cellular) into forms usable by multiple devices simultaneously, supporting both wireless networks (2.4GHz and 5GHz bands) and wired LAN ports for flexible wireless and wired connections.

Applicable product models are as follows:

WI-CPE110-KIT(V1/V2),WI-CPE111-KIT(V2/V3),WI-CPE511H-KIT(V1/V2),WI-CPE513P-KIT(V3),WI-CPE515H-KIT, WI-CPE517(V2),WI-CPE521(V2),WI-CPE821,WI-CPE800-KIT(V2),WI-CPE800-KIT(V3)

Revision History

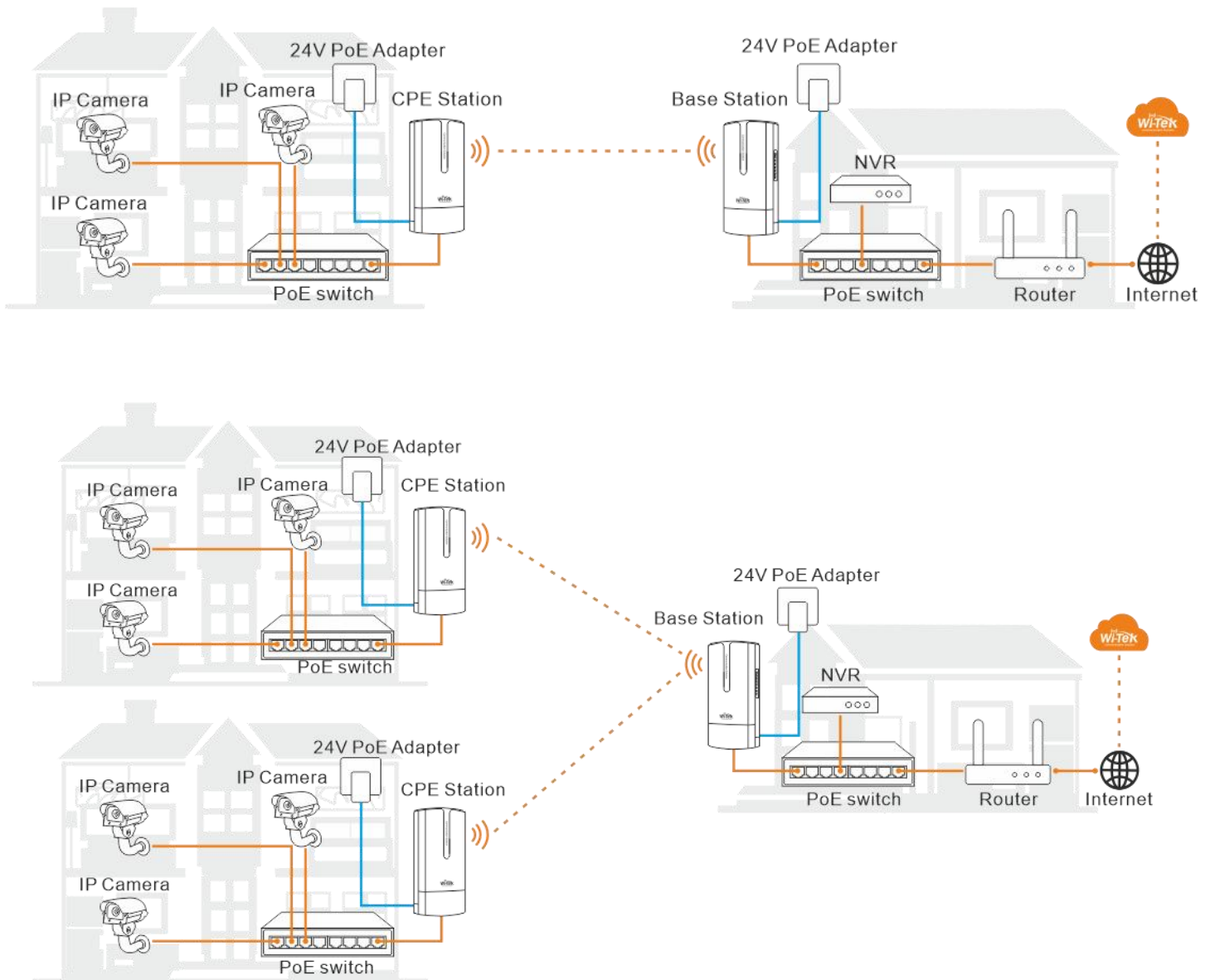
Date	Doc Version	Description
July 2025	V1.0	Initial version

1. Quick Start

In the Quick Setup module, you can quickly set up the CPE to enable Internet access for both wireless devices (such as smartphones and tablets) and wired devices (such as computers and smart TVs).

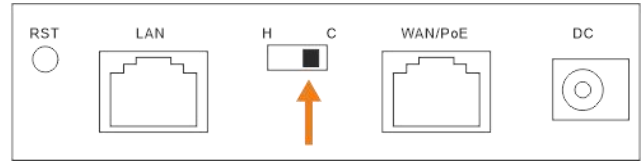
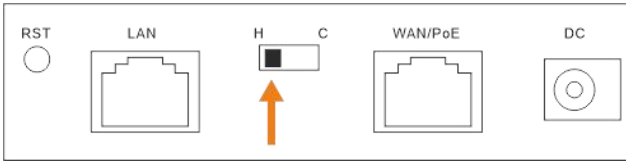
The CPE supports four working modes. In the default working mode, Base Station Mode, the CPE functions as a wireless base station. It supports wireless point-to-point and point-to-multipoint long-distance transmission. It can connect to the Internet through an Ethernet cable (or with a POE gateway collaborating with a router for Internet access). It converts wired signals into wireless signals to provide wireless coverage for terminal devices (such as smartphones, computers, smart home appliances). See topology below.

Take the model WI-CPE-800-KIT-V3 as an example

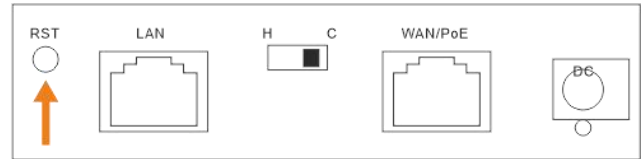
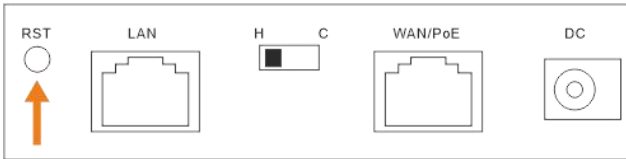


For PTP application

1. Set the DIP switch of the two devices to different modes (one to H and another to C).
and wait for restart to switching mode.



2. Press the RST button at the same time, power indicator starts to blink, the devices starts to search and pair each other. The pair search will last for 120 seconds after short pressing the button.

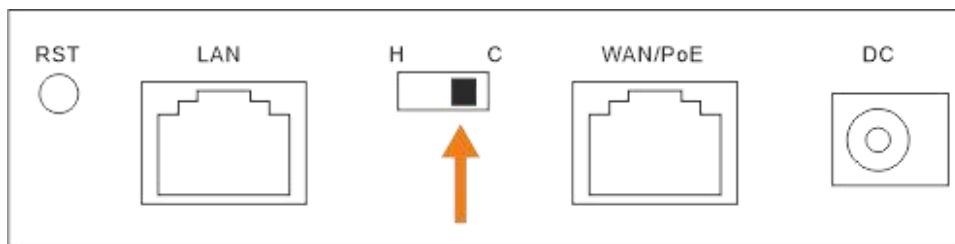


3. Wait about 1 minute, when the wireless signal indicator of the two devices is solid on, the quick pairing is successful, and the signal strength can be judged according to the wireless signal indicator.

For PTMP application

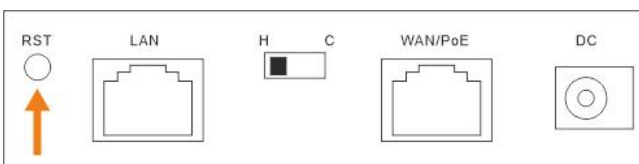
If there is needed to add another CPE to the PTP/PTMP system:

1. Restore the devices that need to be added to the PTMP system.
2. Set the DIP switch to C (CPE) mode for the devices to be added and wait for restart to switching mode..

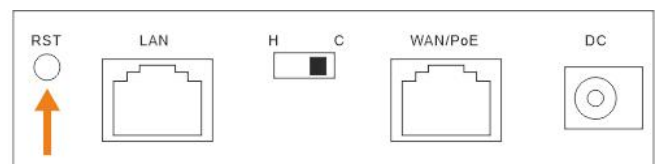


The device to be added

3. Press the RST button simultaneously as the devices to be added and the H (Base station) mode device in the PTP/PTMP system.



The H mode device
in the PTP/PTMP system



The device to be added

4. Wait about 1 minute, when the wireless signal indicator of the two devices is solid on, the quick pairing is successful.

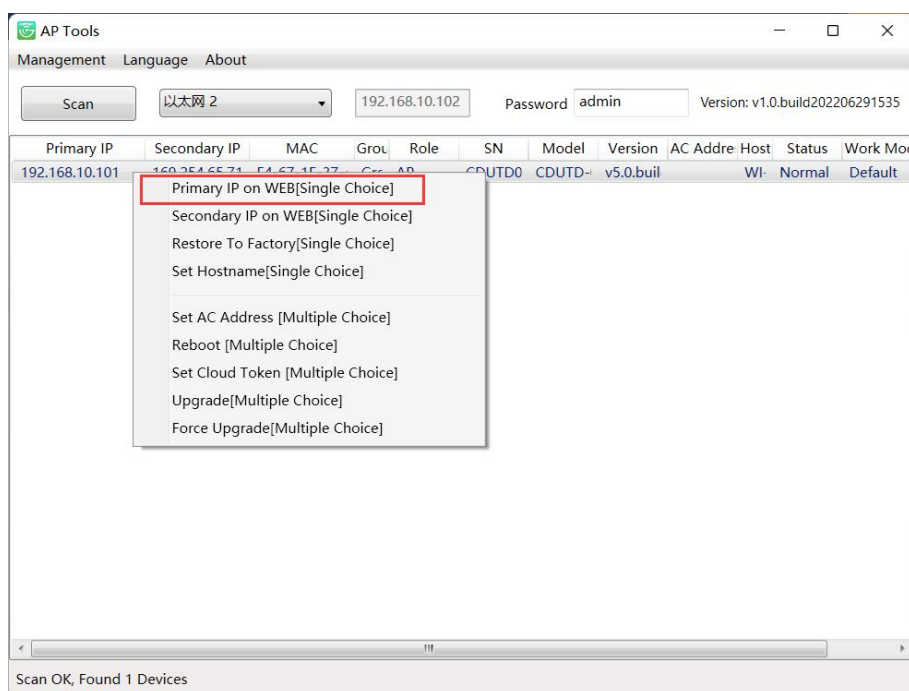
Connect the upstream network device (such as an optical modem for fiber access, a 4G/5G base station via SIM card) and other terminal devices (switches, computers, etc.) with network cables as needed. After checking the connections, use the power adapter included in the product box to connect to the power supply. For wired access scenarios, use the provided network cable to connect the CPE's WAN port to the upstream network device. Then press the power switch to power on the CPE device.

Step 1 Open the Scan Tools on computer.



Note: Download Link https://www.wireless-tek.com/files_down.php?id=241

Step 2 Click the 'Scan' button to query the IP address of CPE, and the tool will use the default browser to open the corresponding IP access device. As follows:



Step 3 After normal access opens, enter the default password admin for Administrator Login, as shown below:



Wi-Tek
Communication Solution

Administrator Login

Default Password is 'admin'

English

[Forget Your Password?](#)

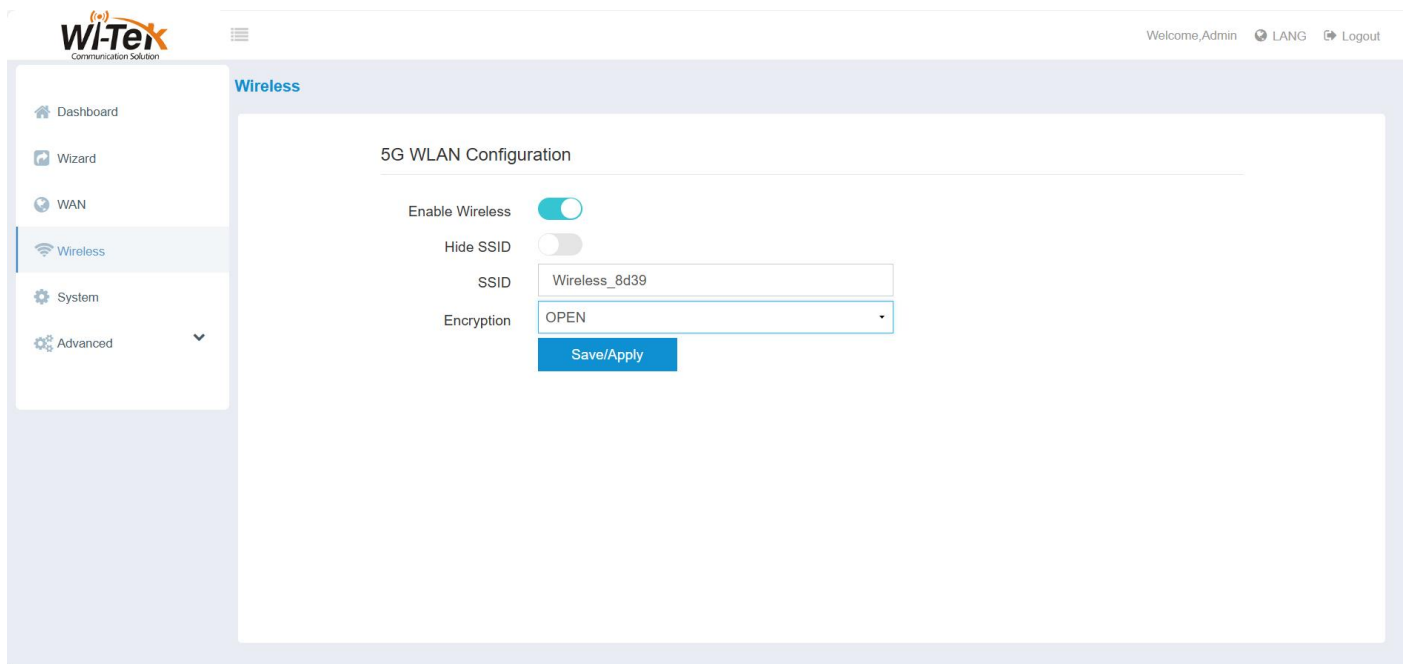
[Login](#)

Step 4 Select **Wireless**.

Step 5 Select the SSID you want to configure.

Step 6 Select any encryption type and enter a password.

Step 7 Click the Save button to submit.



Wi-Tek
Communication Solution

Welcome_Admin LANG Logout

Wireless

5G WLAN Configuration

Enable Wireless ☒

Hide SSID ☐

SSID

Encryption

[Save/Apply](#)

-END

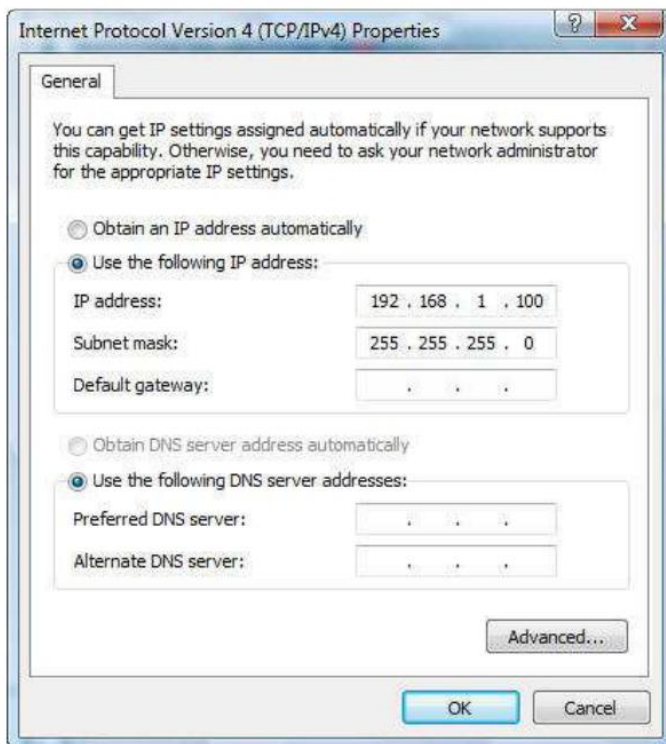
2. Log in to the web interface

2.1. Login

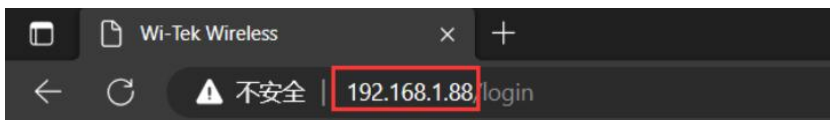
Step 1 Connect your computer to the CPE with an ethernet cable.

Step 2 Make sure that the IP address of the management computer is in the same network segment of the AP.

For example, if the IP address of the AP is 192.168.1.88, the management computer can be configured with an IP address of 192.168.1.100.



Step 3 Launch a web browser on your computer and enter the IP address of the CPE (default:192.168.1.88) in the address bar.



Step 4 Enter the login username and password (default: admin) and click the Login button.



Administrator Login

Default Password is 'admin'

English

Forget Your Password?

Login

If the login page does not appear, try the following solutions:

If there is a DHCP server in the network where the CPE is deployed (such as a router or optical modem), the CPE will automatically obtain an IP address from the DHCP server. In this case, first check the CPE's new IP address in the client list of the DHCP server, and log in to the CPE's web page with the new IP address.

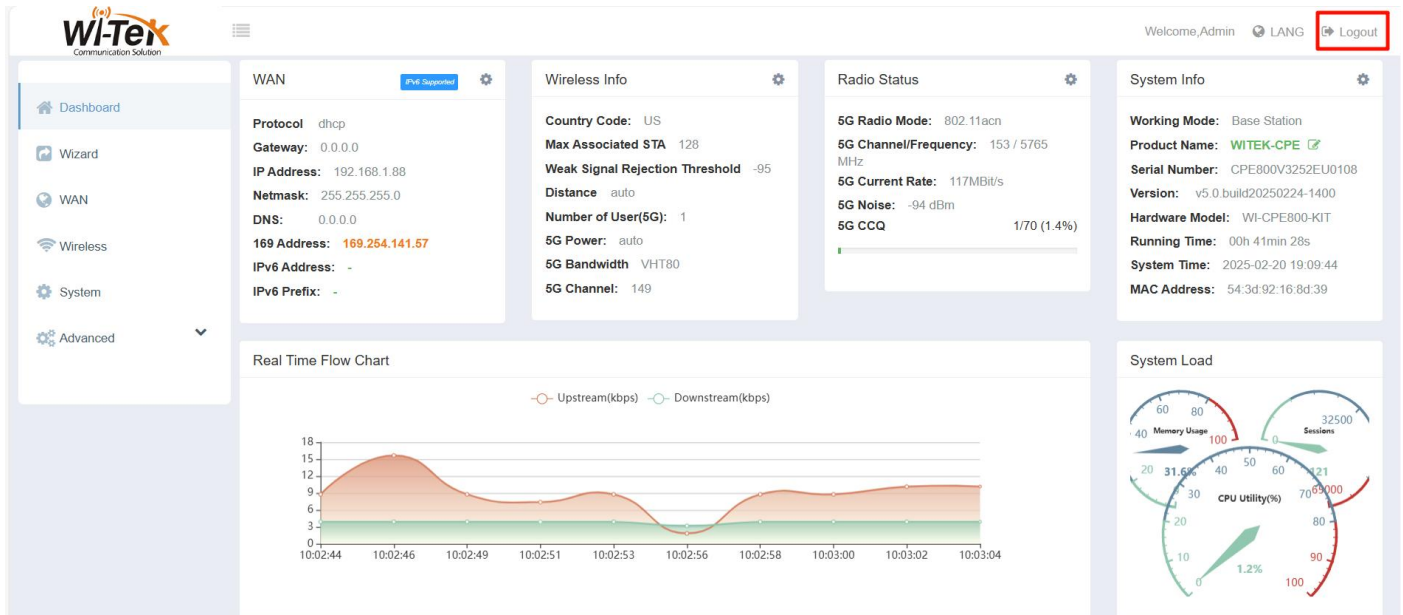
If the CPE is part of a PTMP network with a central base station, it may be managed by the base station and its IP address has changed. Please log in to the base station's web interface and check the CPE's new IP address, then log in again with the new IP address.

If multiple network devices are deployed, IP address conflicts may occur, resulting in web interface login errors. Verify that the CPE's IP address is not in use before integrating it into the network.

Reset the CPE and try to log in with the default IP address. How to reset: After the CPE starts, press and hold the reset button for about 10 seconds and release it. After waiting about 8 seconds, the CPE will reset to factory settings and reboot.

2.2. log out

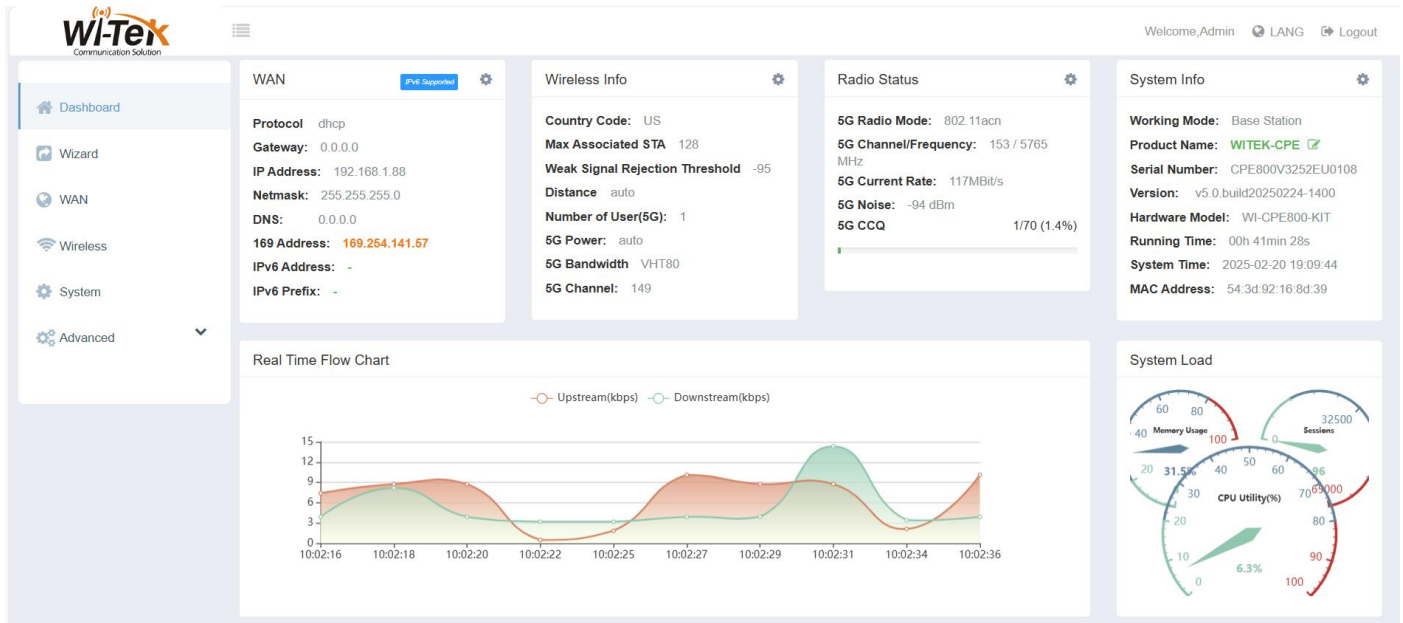
After logging in to the CPE's web interface, the system will automatically log out if no operations are performed during the login timeout interval. Additionally, you can click "Sign Out" in the upper right corner to safely exit the web interface.



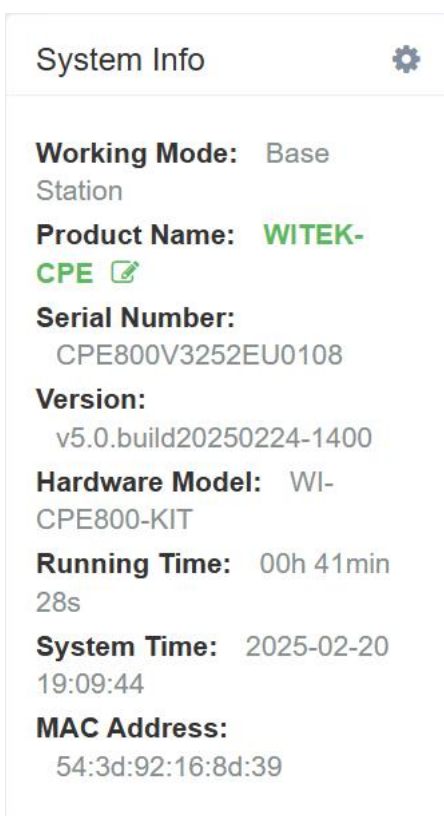
-END

3. Dashboard

The Dashboard page allows you to check current system info of CPEs.



3.1. System Info



Parameter	Describe
Working Mode	Display the current working mode of CPE.
Product Name	Displays the default name of the CPE, which can be modified manually.
Serial Number	Display the SN of CPE.
Version	Displays the firmware version of the CPE.
Hardware Model	Displays the model name of the CPE.
Running Time	Displays how long the CPE has been working since it starts up.
System Time	Displays the current system time.
MAC Address	Displays the MAC address of the CPE.

3.2. WAN Info

WAN
IPv6 Supported


Protocol dhcp

Gateway: 0.0.0.0

IP Address: 192.168.1.88

Netmask: 255.255.255.0

DNS: 0.0.0.0

169 Address:
169.254.141.57

IPv6 Address: -

IPv6 Prefix: -

Parameter	Describe
Protocol	Display the current working protocol of WAN port.
Gateway	Displays the gateway IP of the CPE, which may be dynamically obtained or statically specified.

IP Address	Displays the IP address of the CPE, which may be dynamically obtained or statically specified.
Netmask	Displays the Netmask of the CPE, which may be dynamically obtained or statically specified.
DNS	Displays the DNS of the CPE, which may be dynamically obtained or statically specified.
169 Address	Displays Secondary IP address of the CPE.
IPv6 Address	Displays the IPv6 address of the CPE.
IPv6 Prefix	Displays the IPV6 prefix of the CPE.

3.3. Wireless Info

Wireless Info


Country Code: US
Max Associated STA 128
Weak Signal Rejection Threshold
-95
Distance auto
Number of User(5G): 1
5G Power: auto
5G Bandwidth VHT80
5G Channel: 149

Parameter	Describe
Country Code	Display the country code of the current CPE running.
Weak Signal Rejection Threshold (RSSI)	indicates the minimum signal level required for a client to remain connected.
Number of User	Display the number of users connected to this channel.
Distance	Indicates the detected or manually set physical distance between the CPE device and its paired counterpart (e.g., base station, another CPE).

Power	Display the transmit power of the current CPE operation.
Bandwidth	Displays the bandwidth of the current CPE operation.
Channel	Display the wireless channel of current CPE operation.

3.4. Radio Status

Radio Status



5G Radio Mode:

802.11acn

5G Channel/Frequency:

153 / 5765 MHz

5G Current Rate: 6MBit/s

5G Noise: -93 dBm

5G CCQ 7/70 (10.0%)

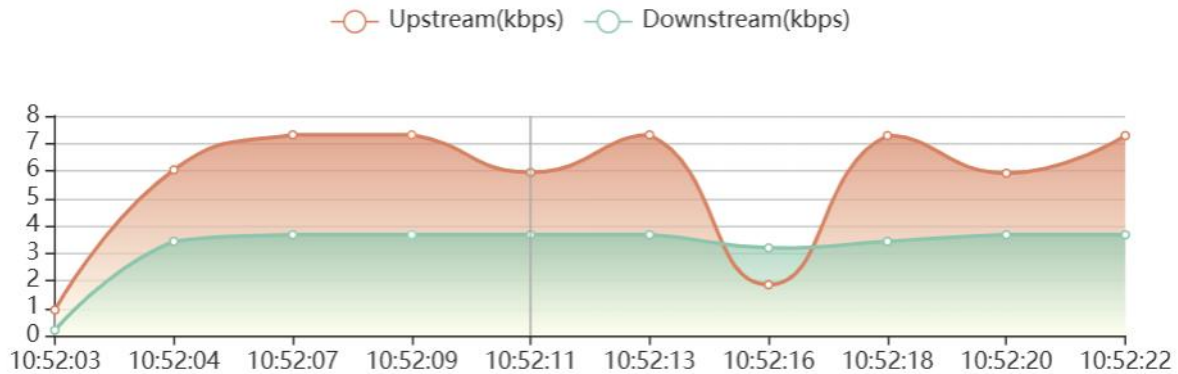


Parameter	Describe
Radio Mode	Displays the wireless protocol of the device.
Channel / Frequency	Displays the channel of the device.
Current Rate	Display the current rate of devices
Noise	Display amount of background noise in your environment. *If the noise level is too high, it can result performance for your wireless network. *The closer the value to 0, the greater the noise level.
CCQ	displays the wireless Client Connection Quality (CCQ), the value in percent that shows how effective the bandwidth is used regarding the theoretically maximum available bandwidth.

3.5. Real Time Flow Chart&System Load

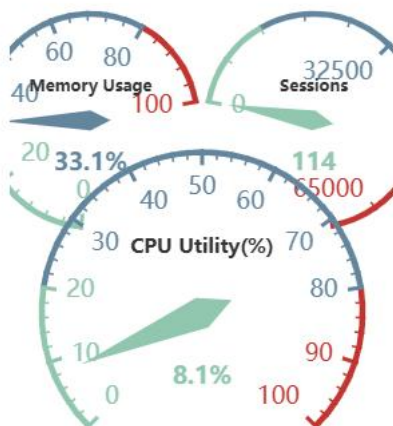
The real-time traffic(WLAN to LAN) is displayed in a graph and refreshed every 2s to display the current working uplink and downlink rates of the CPE, in kbps.

Real Time Flow Chart



The system load is displayed in the form of a meter chart and refreshed every 2s to display the memory usage, the number of sessions, and the CPU usage.

System Load



3.6. SSID List

CPE Wireless Statistics List allows you to check basic information and statistics about SSID based.

SSID	☐ Encryption	☐ SSID Hide	☐ Network
Wireless_8d39	OPEN	NO	5G

Parameter	Describe
SSID	Displays the SSID number associated with the client.
Encryption	Display the encryption type of SSID
SSID Hide	Display whether SSID is hidden.
Network	Display the frequency band of SSID.

3.7. DHCP Client

This part displays the information such as the IP address assigned to the CPE device by the upstream network (e.g., optical modem, base station) in different working modes(e.g., Router mode, Bridge mode).

DHCP Client 			
Name	IP	MAC	Left Lease Time

Note: The list information assigned to the CPE by upstream networks (like optical modems, base stations, or routers) can be viewed when the CPE is in Router mode, Bridge mode, or other network-access working modes.

3.8. Wireless Terminal Station

This part displays information about all wireless terminal devices connected to the CPE (e.g., smartphones, laptops, smart home devices), including device name, MAC address, assigned IP address, and real-time signal strength SNR, etc.



MAC	IP	Signal	SNR	TX	RX
54:3D:92:16:8F:A6	*	-11dBm	85	520MBit/s	433.3MBit/s

Parameter	Describe
MAC	Displays the MAC address of the wireless client device.
IP	Display the IP address of the wireless client.
Signal	Display the signal value of the wireless client connected to the CPE.
SNR	Displays the Signal-Noise Ratio of the device. *In general, you should have a minimum of +25dBm signal-to-noise ratio. Lower values than +25dBm result in poor performance and speeds.
TX/RX	Displays the rate of sending data or receiving data of the device.
TX Pkts / Rx Pkts	TX Pkts: Shows the data transmission rate from the CPE to the connected terminal (in MBit/s). Reflects downstream traffic speed. RX Pkts: Displays the data reception rate by the CPE from the connected terminal (in MBit/s). Reflects upstream traffic speed.
	Click to quickly jump to the wireless configuration page.

3.9. Routing Table

The Routing table views all of the valid route entries in use by the CPE. It displays the Destination IP address, Netmask, Gateway (e.g., upstream optical modem/base station), and outgoing Interface for each entry, guiding data forwarding between the local network and upstream networks.

Routing Table

Goal	Gateway	Netmask	Interface
169.254.0.0	*	255.255.0.0	lan1
192.168.1.0	*	255.255.255.0	lan1

3.10. ARP Table

The ARP Table page allows you to view detailed ARP information of devices connected to the CPE, including those in the local network (e.g., computers, smart home devices) and upstream network devices (e.g., optical modems, base stations)

ARP Table

IP	MAC	Interface
192.168.10.102	2c:16:db:a3:d5:6a	lan1
192.168.10.1	e4:67:1e:0f:60:92	lan1

-END

4. Wizard

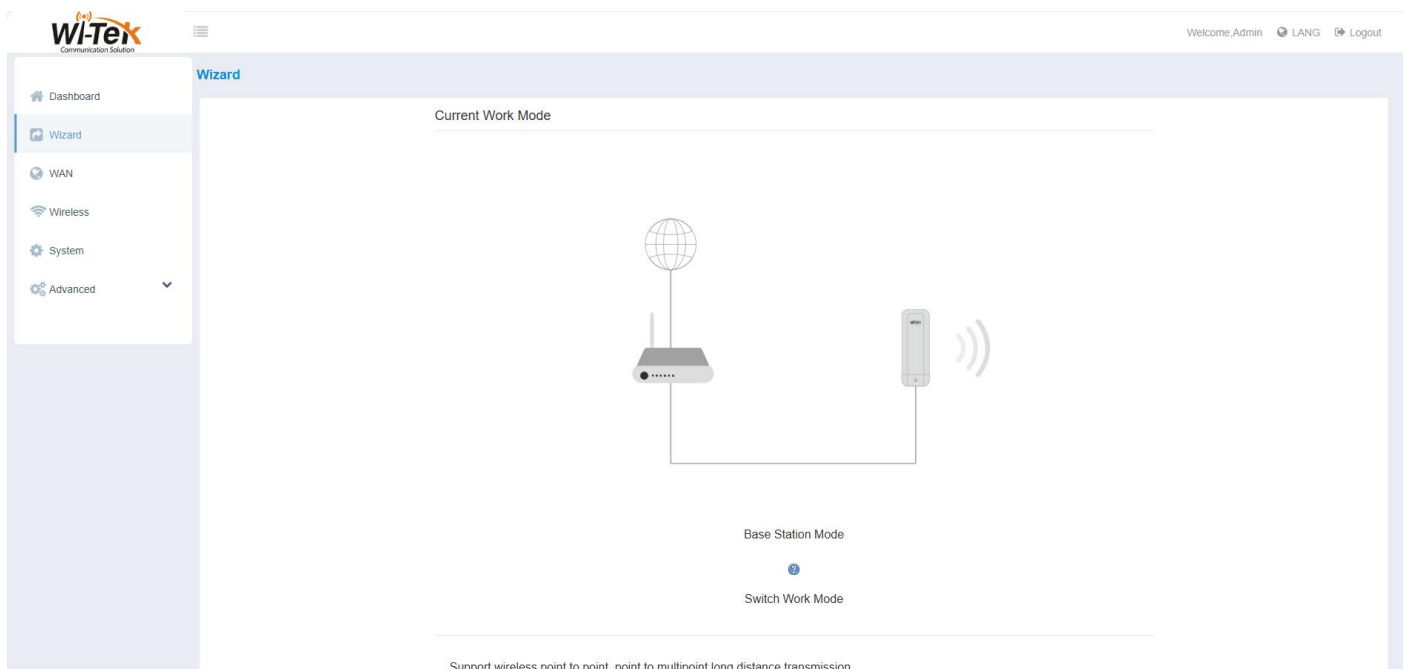
Note: Only some products with DIP Switch support pairing via buttons and LED.
 (WI-CPE110-KIT(V1/V2), WI-CPE111-KIT(V2/V3), WI-CPE511H-KIT(V1/V2), WI-CPE513P-KIT(V3),
 WI-CPE515H-KIT, WI-CPE800-KIT(V2), WI-CPE800-KIT(V3))

Pairing Mode

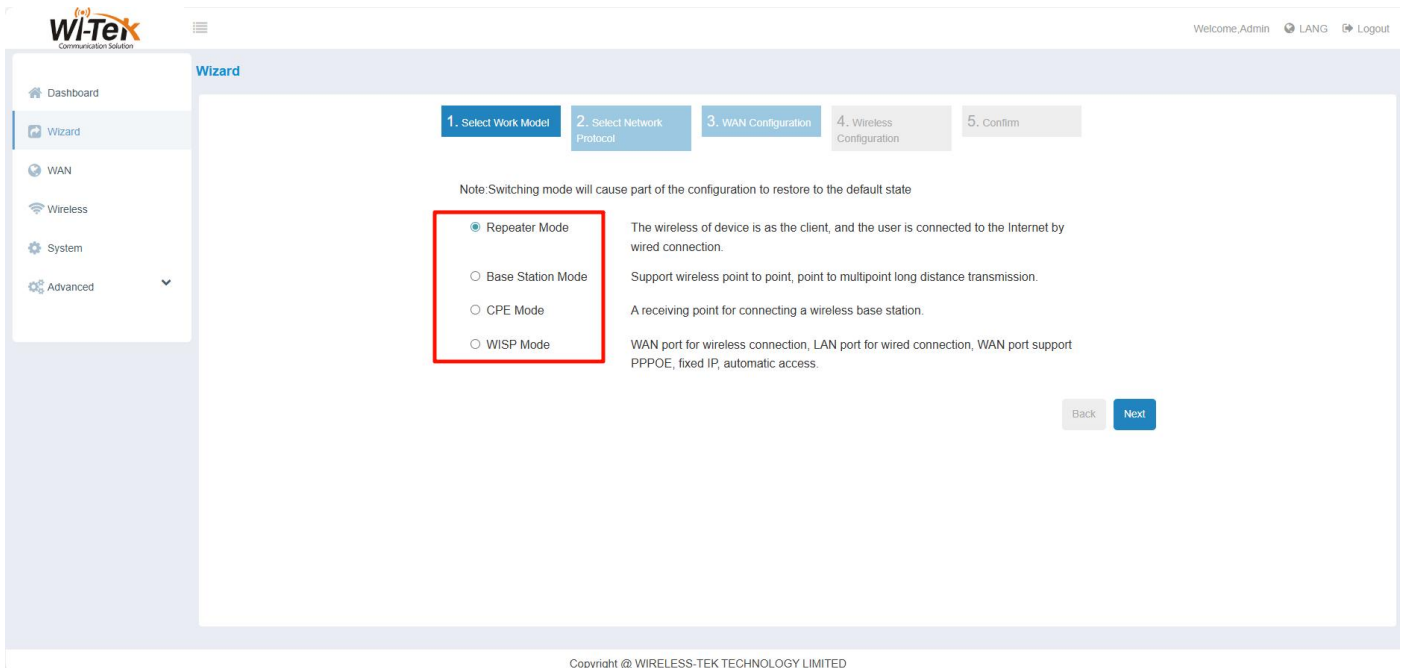
Pairing Mode Management

By Button&LED

By Web



The CPE device supports four working modes to meet various network connection requirements. Choose the appropriate mode based on your actual network scenario.



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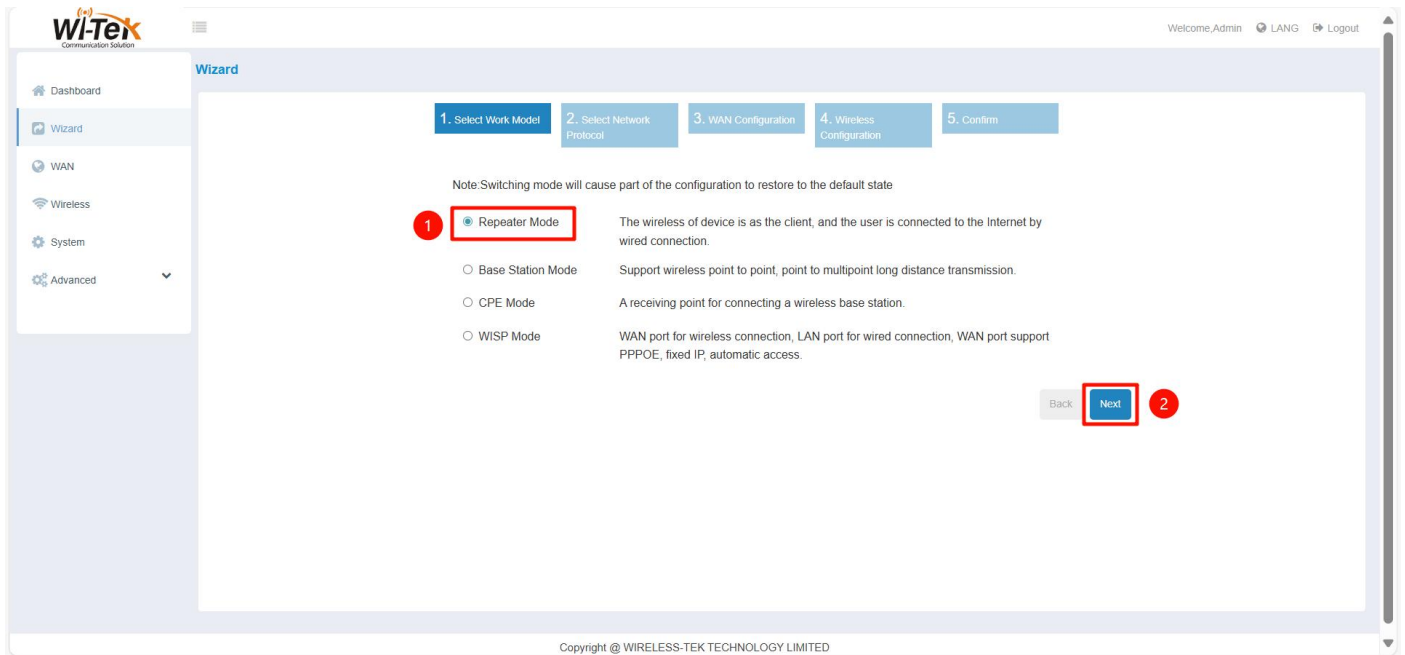
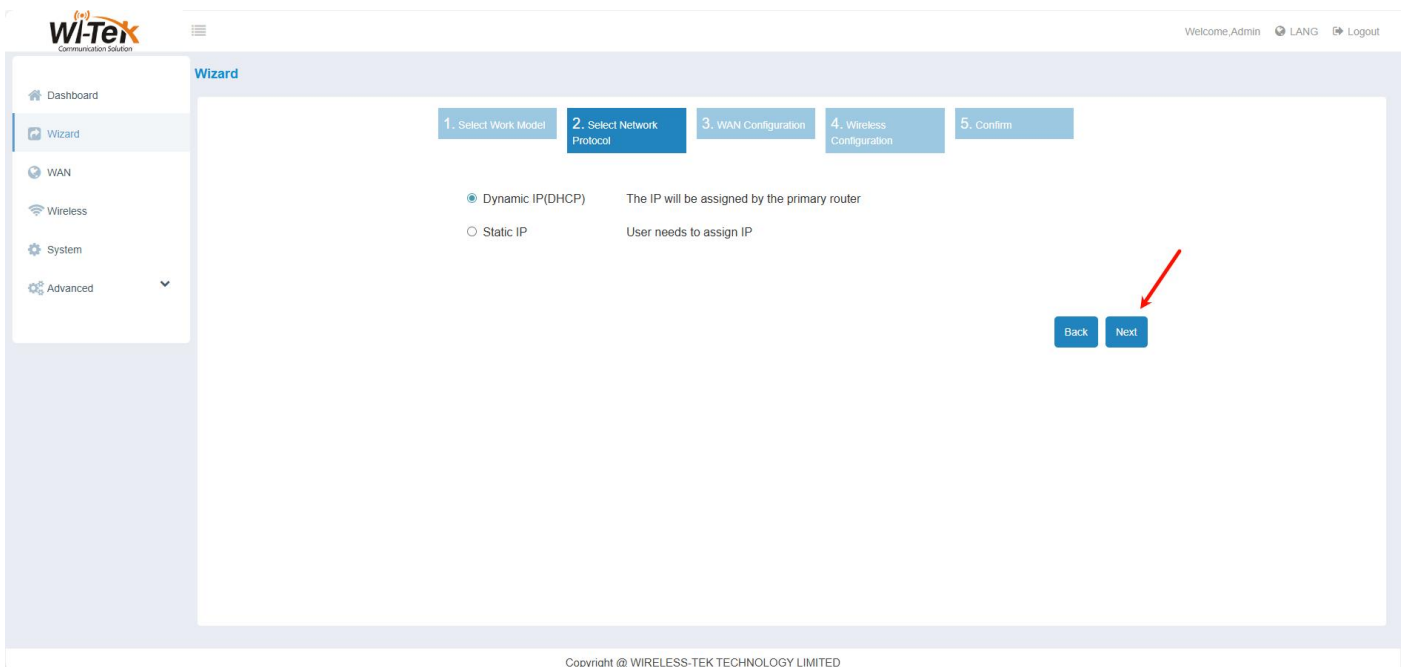
Parameter	Describe
Repeater Mode	The wireless of device is as the client, and the user is connected to the Internet by wired connection
Base Station Mode	Supports wireless point-to-point, point-to-multipoint long-distance transmission.
CPE Mode	Acts as a receiving point to connect to a wireless base station.
WISP Mode	WAN port for wireless connection; LAN port for wired access. Supports PPPoE, fixed IP, or automatic access.

Note: Switching mode will cause part of the configuration to restore to the default state.

4.1. Repeater Mode

The wireless of device is as the client, and the user is connected to the Internet by wired connection

Note: In Repeater Mode, the CPE does not emit a new wireless signal (Wi-Fi). It only receives the upstream wireless signal and provides network access through its LAN port. Wired devices (such as computers, switches, or smart TVs) must be connected to the CPE's LAN port via an Ethernet cable to access the Internet.

Step 1 Go to Wizard and select Repeater Mode.**Step 2** Select the type of connection network you want to configure, click the button to enter step 3.

Step 3 If you choose the Dynamic IP method, Customize DNS Server is optional. If you choose static IP mode, the configuration Parameters are as follows. IP Address and Netmask are required, and others are optional.

Wi-Tek Communication Solution

Welcome, Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

IP Address IP Required

Netmask Netmask Required

Gateway Gateway Address Required

Primary DNS Server 0.0.0.0

Secondary DNS Server 0.0.0.0

Back Next

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Step 4 click “Start scan 2.4G” or “Start scan 5G” to search for ordinary wireless networks (like home router/office AP Wi-Fi). Select the target network to repeat from the list; if not visible, manually input its SSID (e.g., “Home - WiFi”). Optionally, fill in the target network’s Superior BSSID (router/AP MAC address) to specify a device among same - SSID networks and avoid errors. Match Encryption (e.g., WPA2 - AES) to the target network and enter its Password for relay authentication.

Wi-Tek Communication Solution

Welcome, Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

Start scan 5G

Superior Network

Note: 1. It is possible that the wireless signals of some channels cannot be scanned because of national geographic restrictions. 2. There may be a disconnect during the scan.

SSID Wireless-CPE

Superior BSSID Optionally, the input is bound to the specified parent d

Optionally, the input is bound to the specified AP

Encryption WPA2-AES

Password 88888888

Back Next

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...

Scan Again					
Select	Signal	Channel	Wireless MAC	SSID	Encryption
☐	-40dBm	6	44:D1:FA:B2:62:93	WI-TEK-402	WPA2 PSK (CCMP)
☐	-2dBm	1	D2:24:2E:FE:E2:66	*Hidden*	WPA2 PSK (CCMP)
☐	-70dBm	1	F0:92:B4:80:C7:D1	ChinaNet-GCcm	mixed WPA/WPA2 PSK (TKIP)
☐	-83dBm	1	44:D1:FA:7A:11:3E	Wi-Tek-403	WPA2 PSK (TKIP)
☐	-49dBm	2	28:D1:27:D9:C5:71	Xiaomi_C570	mixed WPA/WPA2 PSK (TKIP)
☐	-63dBm	1	CC:24:2E:FE:E2:66	WI-TEK_E260	WPA2 PSK (CCMP)
☐	-84dBm	1	A0:63:91:B4:56:BA	NETGEAR61	WPA2 PSK (CCMP)

Step 5 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.

Wi-Tek Communication Solution

Welcome, Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

Working mode Repeater Mode

Protocol of WAN dhcp

SSID Wireless-CPE

Encryption WPA2-AES

Password 88888888

Back Confirm

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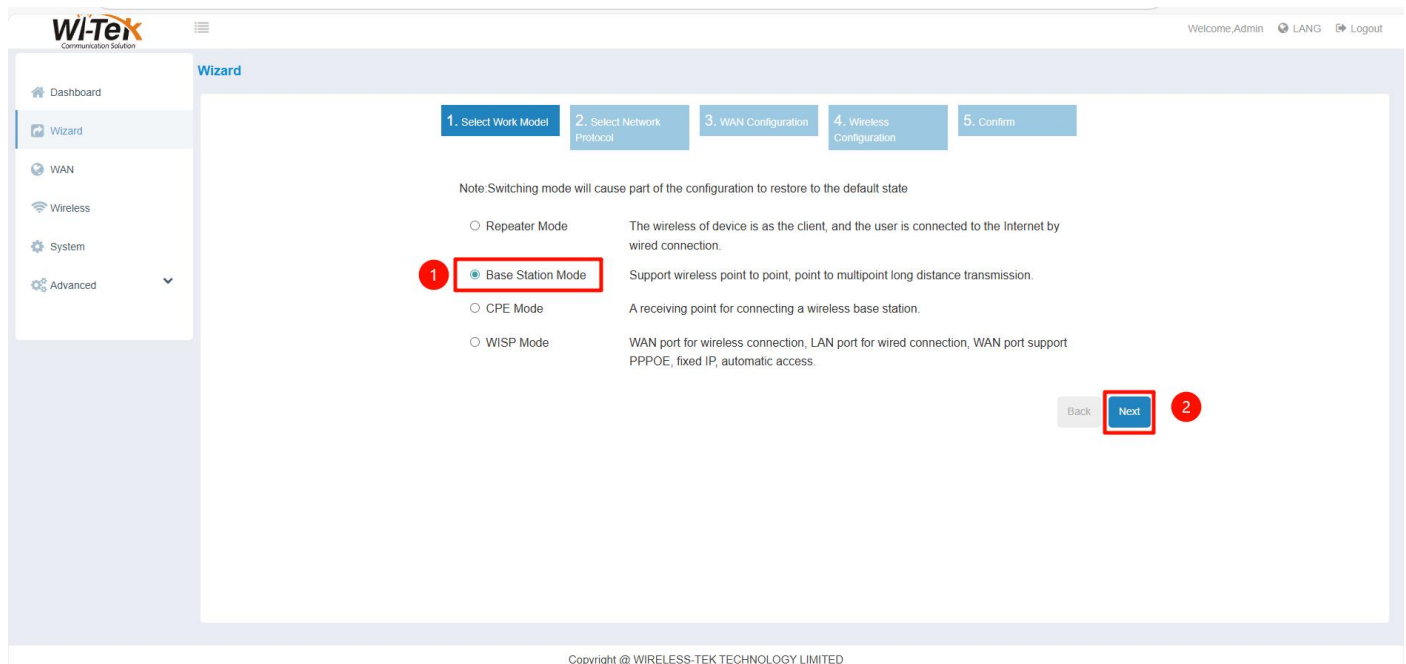
--END

4.2. Base Station Mode

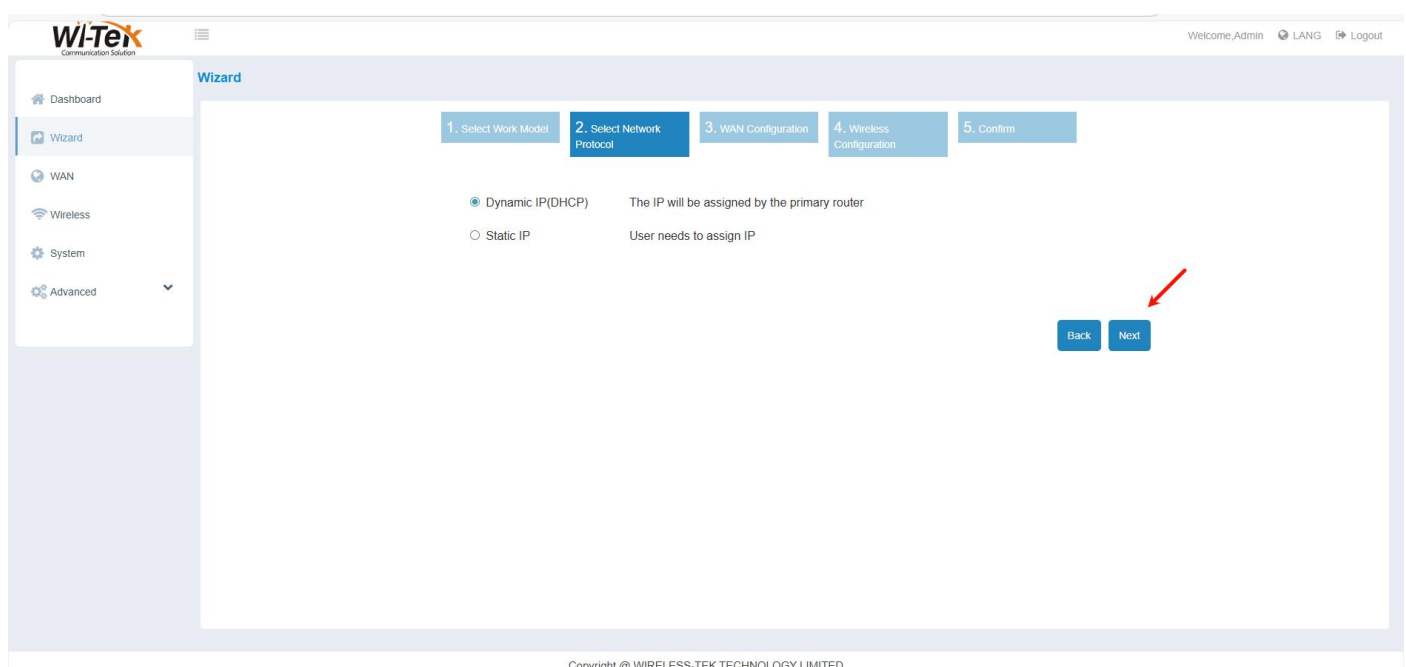
Supports wireless point-to-point, point-to-multipoint long-distance transmission.

The example is as follows for other working modes to change to Base Station Mode working mode, and the steps for other working modes are roughly the same.

Step 1 Select **Base Station Mode** working mode.



Step 2 Select the type of connection network you want to configure, and click the **Next** button to enter step 3.



Step 3 If you choose the Dynamic IP method, Customize DNS Server is optional.

If you choose static IP mode, the configuration Parameters are as follows. IP Address and

Netmask are required, and others are optional.

Wi-Tek Communication Solution

Welcome Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

IP Address IP Required

Netmask Netmask Required

Gateway Gateway Address Required

Primary DNS Server 0.0.0.0

Secondary DNS Server 0.0.0.0

Back Next

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Step 4 Set the Wi-Fi name, choose a security encryption mode, and enter the password.

Wi-Tek Communication Solution

Welcome Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

SSID Wireless-CPE

Encryption WPA2-AES

Password 88888888

Back Next

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Step 5 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.

**Wi-Tek**
Communication Solutions

Dashboard

Wizard

WAN

Wireless

System

Advanced

Welcome,AdminLANGLogout

Wizard

1. Select Work Model2. Select Network Protocol3. WAN Configuration4. Wireless Configuration5. Confirm

Working modeBase Station Mode

Protocol of WANDhcp

SSIDWireless-CPE

EncryptionWPA2-AES

Password88888888

Back

Confirm

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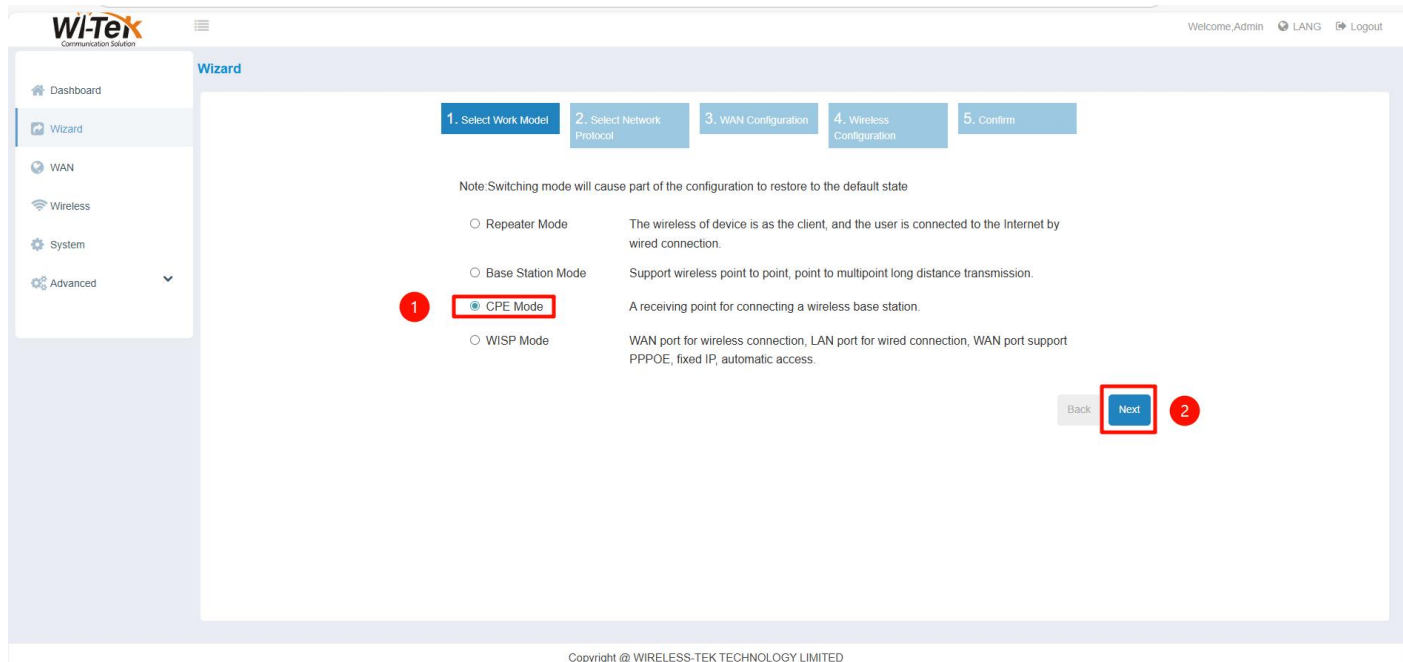
--END

4.3. CPE Mode

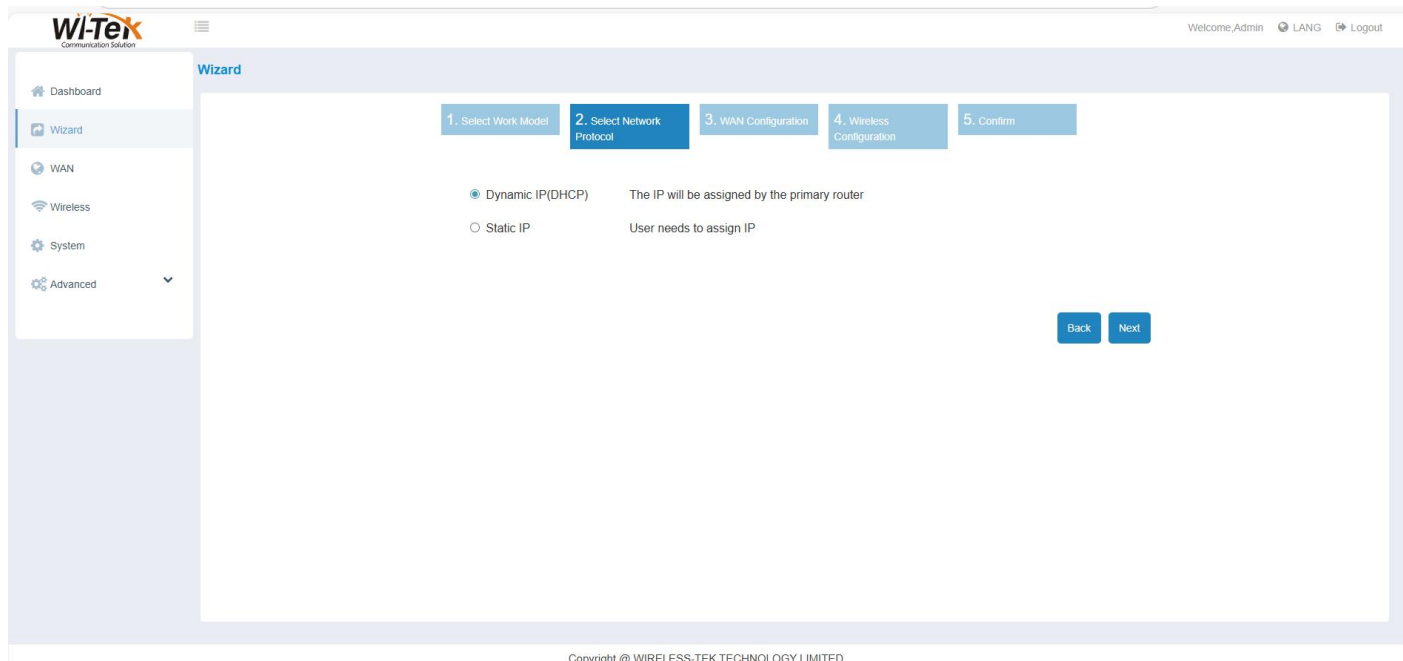
Acts as a receiving point to connect to a wireless base station

The default working mode of the CPE is Base Station Mode. An example of changing other working modes to CPE Mode is as follows.

Step 1 Select the 'CPE Mode' working mode.



Step 2 Select the type of connection network you want to configure, and click the **Next** button to enter step 3.



Step 3 If you choose the Dynamic IP method, Customize DNS Server is optional.

If you choose static IP mode, the configuration Parameters are as follows. IP Address and

Netmask are required, and others are optional.

Wi-Tek Communication Solutions

Welcome, Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

IP Address IP Required

Netmask Netmask Required

Gateway Gateway Address Required

Primary DNS Server 0.0.0.0

Secondary DNS Server 0.0.0.0

Back Next

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Step 4 click the scan buttons to search for professional wireless base stations (e.g., operator 4G/5G macro base stations). Select the target base station from results; if missing, manually enter its SSID (set by operators/deployers). Optionally, fill in the base station's Superior BSSID (MAC address) to lock onto a specific one in multi - coverage areas. Ensure Encryption (often a dedicated protocol) matches, then enter the base station's access password (meeting its auth rules) to finalize the connection.

Wi-Tek Communication Solutions

Welcome, Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

Superior Network Start scan 5G

Note: 1. It is possible that the wireless signals of some channels cannot be scanned because of national geographic restrictions. 2. There may be a disconnect during the scan.

SSID Wireless-CPE

Superior BSSID Optionally, the input is bound to the specified parent d

Optionally, the input is bound to the specified AP

Encryption WPA2-AES

Password 88888888

Back Next

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...

Scan Again					
Select	Signal	Channel	Wireless MAC	SSID	Encryption
☐	-40dBm	6	44:D1:FA:B2:62:93	WI-TEK-402	WPA2 PSK (CCMP)
☐	-2dBm	1	D2:24:2E:FE:E2:66	*Hidden*	WPA2 PSK (CCMP)
☐	-70dBm	1	F0:92:B4:80:C7:D1	ChinaNet-GCcm	mixed WPA/WPA2 PSK (TKIP)
☐	-83dBm	1	44:D1:FA:7A:11:3E	Wi-Tek-403	WPA2 PSK (TKIP)
☐	-49dBm	2	28:D1:27:D9:C5:71	Xiaomi_C570	mixed WPA/WPA2 PSK (TKIP)
☐	-63dBm	1	CC:24:2E:FE:E2:66	WI-TEK_E260	WPA2 PSK (CCMP)
☐	-84dBm	1	A0:63:91:B4:56:BA	NETGEAR61	WPA2 PSK (CCMP)

Step 5 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.

Wi-Tek Communication Solution

Welcome, Admin LANG Logout

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

Working mode CPE Mode

Protocol of WAN dhcp

SSID Wireless-CPE

Encryption WPA2-AES

Password 88888888

Back Confirm

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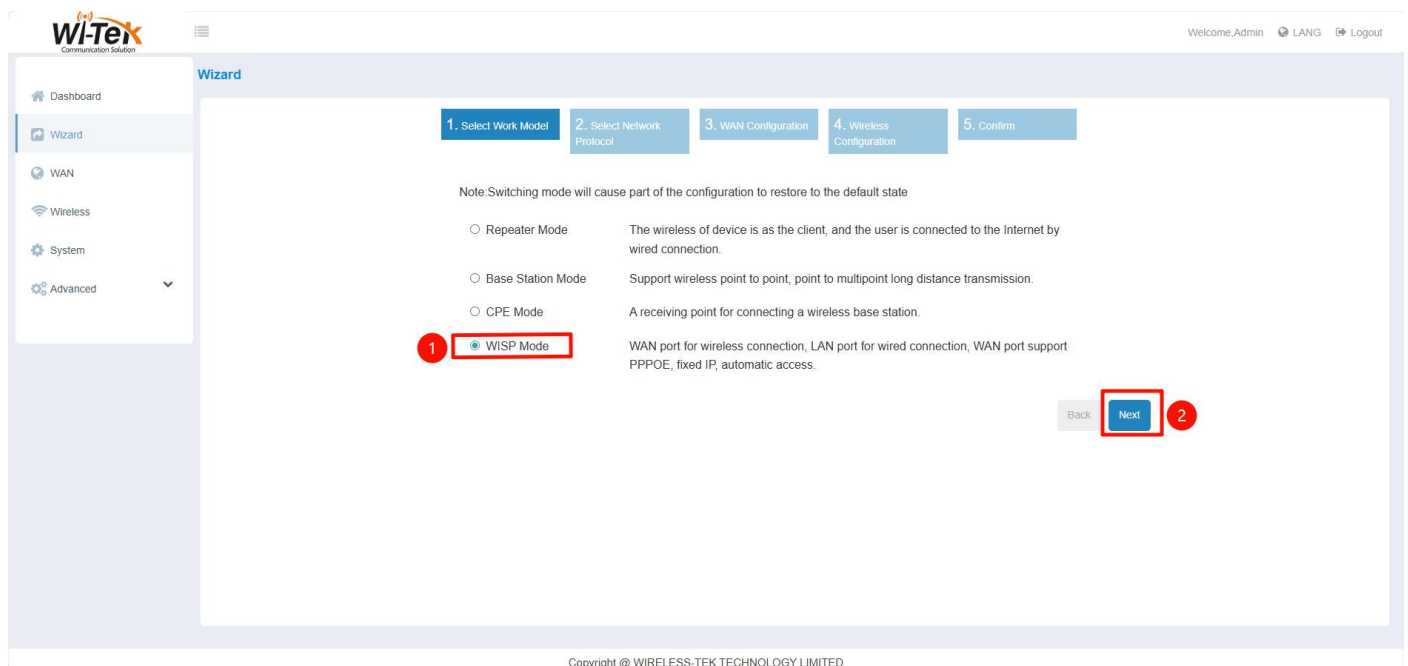
--END

4.4. WISP Mode

WAN port for wireless connection; LAN port for wired access. Supports PPPoE, fixed IP, or automatic access.

Example CPE default working mode is Base Station Mode and changed to WISP Mode working mode.

Step 1 Select 'WISP Mode' working mode.



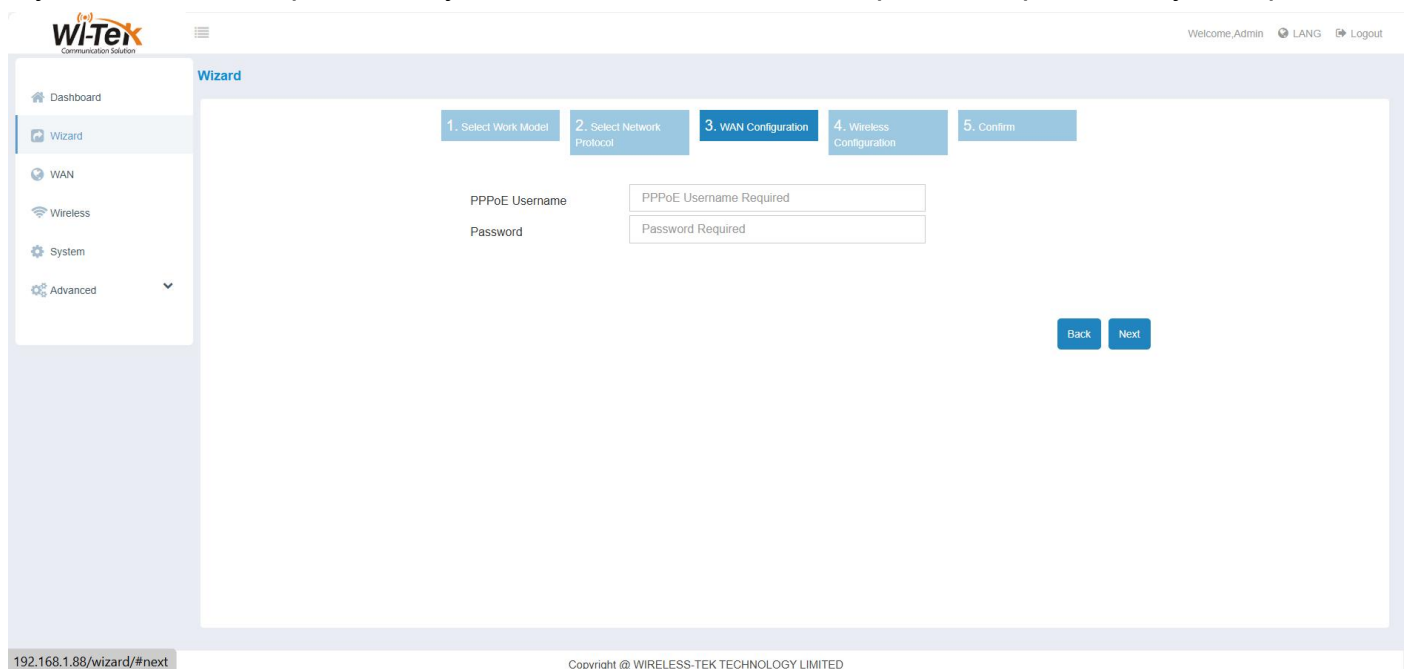
Step 2 Select the type of connection network you want to configure, click the **Next** button to enter step 3.



Step 3 If you choose the Dynamic IP method , Customize DNS Server is optional.

If you choose static IP mode, the configuration Parameters are as follows. IP Address and Netmask are required, and others are optional.

If you choose Dial-up Internet, you need to enter the account password provided by the operator.



Step 4 Click the **Start scan 2.4G** or **Start scan 5G** button to search for the upper level wireless network, and select the upper-level network(such as a home Wi-Fi, public hotspot, or operator wireless signal) to connect. If not found Corresponding result WiFi can click **Scan Again** to refresh again to query the superior wireless network list.

...

✕

Scan Again					
Select	Signal	Channel	Wireless MAC	SSID	Encryption
☐	-85dBm	36	A0:63:91:B4:56:BC	NETGEAR61-5G	WPA2 PSK (CCMP)
☐	-37dBm	52	44:D1:FA:B2:62:94	WI-TEK-402	WPA2 PSK (CCMP)
☐	-61dBm	36	76:D6:C8:65:02:CF	*Hidden*	WPA2 PSK (CCMP)
☐	-61dBm	36	76:D6:C8:75:02:CF	TRF-5G	mixed WPA/WPA2 PSK (TKIP)
☐	-82dBm	36	D8:A8:C8:E7:D5:59	ChinaNet-xSq6-5G	mixed WPA/WPA2 PSK (TKIP)
☐	-89dBm	40	96:F7:B2:6A:5C:0A	*Hidden*	WPA2 PSK (CCMP)
☐	-88dBm	40	90:F7:B2:6A:5C:0A	308_5G	WPA2 PSK (CCMP)


Communication Solution

Welcome Admin
LANG
Logout

Dashboard
Wizard
WAN
Wireless
System
Advanced

Wizard

1. Select Work Model
2. Select Network Protocol
3. WAN Configuration
4. Wireless Configuration
5. Confirm

Superior Network

SSID: Wireless-CPE

Superior BSSID: Optionally, the input is bound to the specified parent d

Encryption: WPA2-AES

Password: 88888888

Note: 1. It is possible that the wireless signals of some channels cannot be scanned because of national geographic restrictions. 2. There may be a disconnect during the scan.

Start scan 5G

Optionally, the input is bound to the specified AP.

Back Next

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Step 5 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.



Welcome, Admin LANG Logout

Dashboard

Wizard

WAN

Wireless

System

Advanced

Wizard

1. Select Work Model

2. Select Network Protocol

3. WAN Configuration

4. Wireless Configuration

5. Confirm

Working mode

Protocol of WAN

SSID

Encryption

Password

WISP Mode

dhcp

Wireless-CPE

WPA2-AES

88888888

Back

Confirm

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--END

5. WAN

How to set up the CPE to access the Internet (there are two ways to access the Internet)
Enter the configuration page by clicking 'WAN' in the primary navigation bar.

The image displays two screenshots of the WAN configuration page. The top screenshot shows the 'Dynamic IP' tab selected, with options to 'Enable IPv6' (checked) and 'Customize DNS Server' (Optional). The bottom screenshot shows the 'Static IP' tab selected, with fields for 'IP Address', 'Netmask', 'Gateway', 'Primary DNS Server', and 'Secondary DNS Server', all marked as required or optional.

Parameter	Describe
Dynamic IP(DHCP)	The IP address, subnet mask, gateway, and other information will be automatically obtained when the CPE is connected to an upstream network device with a DHCP server. Customize DNS Server is optional .
Static IP	Enter the correct information such as static IP, subnet mask, gateway, DNS, etc. obtained from the upstream network.

-END

6. Wireless

Make wireless settings for the CPE.

Click "Wireless" in the first-level navigation bar to enter the page to configure CPE wireless Parameters.

The screenshot displays the Wi-Tek web interface for configuring wireless settings. On the left is a navigation menu with options: Dashboard, Wizard, WAN, Wireless (selected), System, and Advanced. The main content area is titled 'Wireless' and contains the '5G WLAN Configuration' section. This section includes several configuration options: 'Enable Wireless' is a toggle switch that is turned on; 'Hide SSID' is a toggle switch that is turned off; 'SSID' is a text input field containing 'Wireless-CPE'; 'Encryption' is a dropdown menu set to 'WPA2-AES'; and 'Password' is a text input field containing '88888888'. A blue 'Save/Apply' button is located below the password field. At the top right of the interface, there is a user status bar showing 'Welcome, Admin', a language selector 'LANG', and a 'Logout' button.

Parameter	Describe
Enable Wireless	Check this option to disable the wireless. If checked, the wireless radio will disable.
Hide SSID	Check this option to hide the SSID from clients. If checked, the SSID will not appear in the site survey.
SSID	Specify a name for the wireless network.
Encryption	Select the Encryption mode of the wireless network. There are five options: WPA-TKIP, WPA2-AES, WPA1/WPA2-Mixed, WPA-Enterprise and WPA2-Enterprise. The latest WPA2-AES mode is recommended. None: Clients can access the wireless network without authentication.
Password	Specify password for SSID.

-END

7. System

Manage and configure system parameters for CPEs.

Enter the page configuration by clicking "System" in the first-level navigation bar.

Wi-Tek
Communication Solution

Welcome,Admin LANG Logout

System

Change Password

Old Password

New Password

Confirm New Password

Save/Apply

Pairing Mode

Pairing Mode Management

WiFi Signal Intension Mode

WiFi Signal Mode

System Upgrade

Firmware Upgrade ☐ Upgrade without retaining configuration
Current Version: v5.0.build20250224-1400

Config
After the configuration is restored, it is necessary to restart the device manually to take effect.

Reboot

7.1. Change Password

Change Password

Old Password	Old Password Required
New Password	New Password Required
Confirm New Password	Confirm Your New Password
Save/Apply	

Parameter	Describe
Old Password	Specify to enter the old password.
New Password	Specify to enter a new password.
Confirm New Password	Specify and then confirm the new password.

7.2. Paring Mode

On this page, you can quickly modify the Paring Mode

Paring Mode

Pairing Mode Management

By Button&LED

By Web

Parameter	Describe
By Button&LED	Use DIP Switch: H=Base Station Mode (point-to-point/multipoint); C=CPE Mode (connect to base station)
By Web	Configure via UI: select Repeater/Base Station/CPE/WISP Mode for pairing

7.3. Wi-Fi Signal Intension Mode

On this page, you can quickly modify the wireless transmission power.

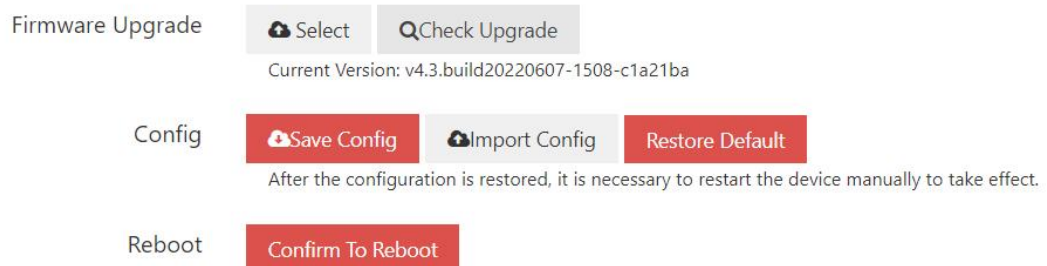
WiFi Signal Intension Mode

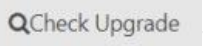


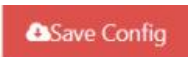
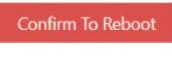
Parameter	Describe
Low	Represents 50% of the transmission power.
Middle	Represents 70% of the transmission power.
High	Represents 100% of the transmission power

7.4. System Upgrade

System Upgrade



Parameter	Describe
Select	Click  to upload the firmware upgrade version. * During the restoring process, do not power off or reset the router.
Check Upgrade	Click  to check for updates online.

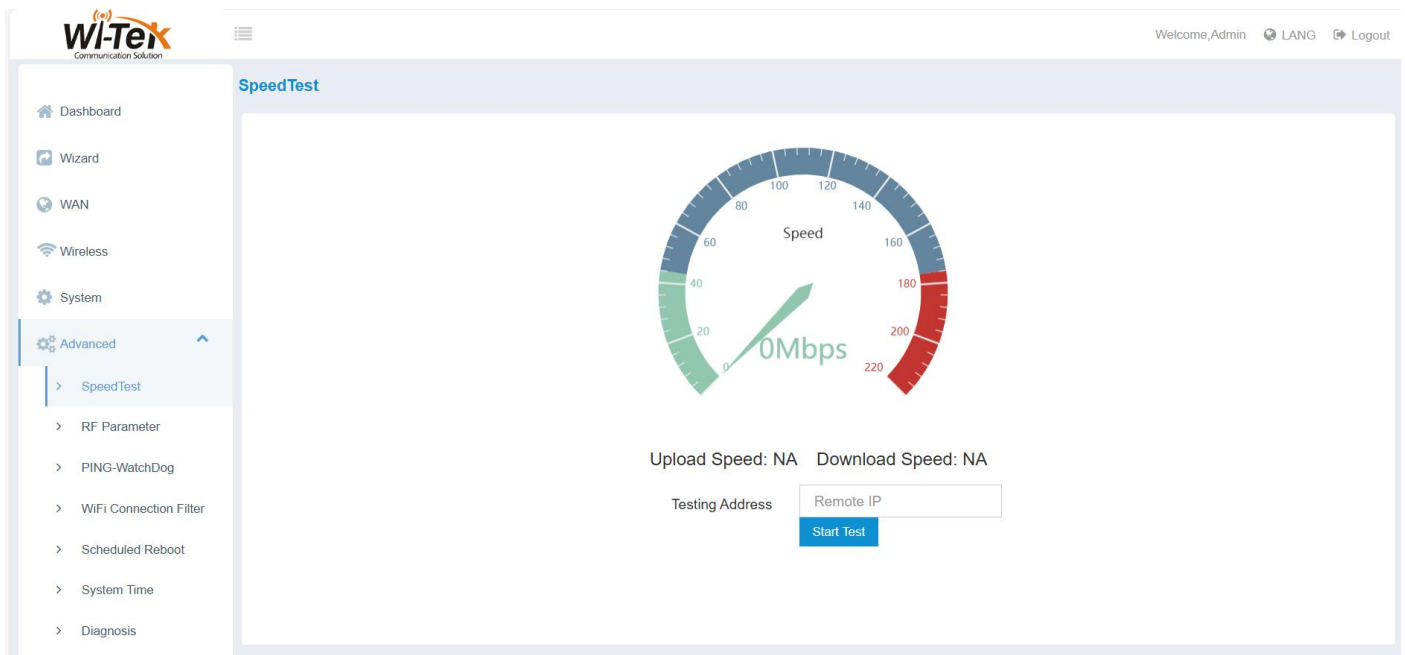
Save Config	Click  to save a copy of the current settings in your local computer.
Import Config	Click  to locate the backup configuration file stored in your computer.
Restore Default	Click  to reset all settings to the default values.
Reboot	Click  to reboot the device.

--END

8. Advanced

8.1. SpeetTest

This feature allows users to input a remote IP address and click "Start Test" to measure the real-time upstream and downstream rates of the network, helping users quickly understand the current network transmission performance.



8.2. RF Parameter

The screenshot shows the 'Radio' configuration page in the Wi-Tek Web Management Interface. The left sidebar contains navigation links: Dashboard, Wizard, WAN, Wireless, System, and Advanced. The 'Advanced' section is expanded, showing sub-links: SpeedTest, RF Parameter (selected), PING-WatchDog, WiFi Connection Filter, Scheduled Reboot, System Time, and Diagnosis.

The 'Radio' configuration page includes the following parameters:

- Country:** A dropdown menu currently set to 'United States'. A note below states: 'Note: Switching national regions can affect the available channels, and you may not be able to connect wifi if it is different from the higher-level network channel in the sta mode.'
- Enable WMM:** A toggle switch currently turned on.
- Enable FILS:** A toggle switch currently turned off. A note below states: 'Note: Supporting fast initial link setup features, you can choose to turn off for old devices that are not supported.'
- User Isolation:** A toggle switch currently turned off.
- Max Associated STA:** A text input field with the value '128'.
- Beacon Interval:** A text input field with the value '100'. Below it, the unit is specified as 'Units:ms'.
- RTS/CTS Threshold:** A text input field with the value '2347'. Below it, the unit is specified as 'Unit:bytes, default 2347'.
- Weak Signal Rejection Threshold:** A text input field with the value '-95'. Below it, the unit is specified as 'Unit:dbm. Suggested value:-85, Max:-65, Min:-95'.
- Distance:** A dropdown menu currently set to 'Automatic Distance Mode'. Below it, the unit is specified as 'Unit:km, suggestion: Short distance and high speed and high density coverage mode'.
- 5G RF Switch:** A dropdown menu currently set to 'Enable'.
- 5G Channel:** A dropdown menu currently set to '149 - 5.745 GHz'. A note below states: 'Note: Channel for receiving station mode is controlled by superior base station'.
- 5G Bandwidth:** A set of radio buttons for 'HT20', 'VHT40', 'VHT80' (selected), and 'AUTO'.
- 5G TxPower:** A dropdown menu currently set to 'AUTO'. Below it, the unit is specified as 'Unit of Power:dbm'.

A 'Save/Apply' button is located at the bottom of the configuration area.

Parameter	Describe
Country	Select the corresponding country from the drop-down menu.
WMM	When enabled, the CPE uses QoS to prioritize audio and video packet transmission, ensuring smooth real-time communication.
FILS	Supports fast initial link setup. Disable this for old devices that do not support the feature to avoid compatibility issues.
User Isolation	With this function enabled, the device isolates all the connected clients within the same wireless network from each other.
Max Associated STA	The maximum number of wireless clients allowed to connect,
Beacon Interval	The interval at which the CPE sends beacon frames to announce the wireless network.

RTS/CTS Threshold	RTS/CTS (Request to Send/Clear to Send) is used to improve the data transmission efficiency of the network with hidden nodes, especially when there are lots of large packets to be transmitted. The packet size threshold (unit: bytes) for activating the RTS/CTS mechanism. When a packet exceeds this size threshold, the mechanism reduces collisions in networks with hidden nodes. For a busy network with hidden nodes, a low threshold value will help reduce interference and packet collisions. But for a not-so-busy network, a too low threshold value will cause bandwidth wasting and reduce the data throughput.
Weak Signal Rejection Threshold	minimum signal level required for a client to remain connected.
Distance	Set to "Automatic Distance Mode" by default, adapting to short-distance/high-speed/high-density coverage scenarios automatically (unit: km).
RF Switch	When enabled, activates the corresponding radio band (2.4G or 5G) for wireless transmission. Dual-band CPEs support independent control of 2.4G and 5G switches; single-band CPEs display only the supported band.
Channel	Displays the working channel of the active radio band (e.g., 2.4G: 1-14; 5G: 36-165). Note: In receiving station mode, the channel is controlled by the upstream device (e.g., base station, router).
Bandwidth	Select the channel width for the active radio band (options vary by band: 2.4G supports HT20/HT40; 5G supports HT20/VHT40/VHT80/AUTO). Greater bandwidth increases throughput but shortens transmission distance and increases interference susceptibility.

Tx Power

Set the transmit power of the active radio band, default is AUTO. The actual power will not exceed the maximum allowed by regional regulations to avoid interference.

8.3. Ping Watchdog

Ping Watchdog allows the access point to continuously ping a specific remote host for connection status using a user-defined IP address (or an internet gateway). If it is unable to ping the target IP address under the user-defined constraints, the device will automatically reboot.

The screenshot displays the 'PING-WatchDog' configuration interface. It features a sidebar on the left with a menu including Dashboard, Wizard, WAN, Wireless, System, and Advanced. The main panel contains the following settings:

- Enable Ping Watchdog:** A toggle switch.
- Address:** A text input field with a placeholder 'IP or Domain'.
- Checking Interval:** A text input field with a placeholder 'Interval, unit:sec, Suggested value :60'.
- Number of Failure:** A text input field with a placeholder 'Selected action initiated after number of failures indicated. Suggested value 3'.
- Ping Timeout:** A text input field with a placeholder 'Ping Timeout, Suggested value 2'.
- Action:** A row of buttons: Reboot, Close wireless, Restart Network, Enable Rescue SSID, and NO Action (highlighted in green).

Below the buttons, a note states: 'If the monitored address can not be pinged, the corresponding action will be performed RESCUE SSID format :RESCUE 99 XXXX, RESCUE password: 99999999.' A blue 'Save/Apply' button is located at the bottom of the configuration area.

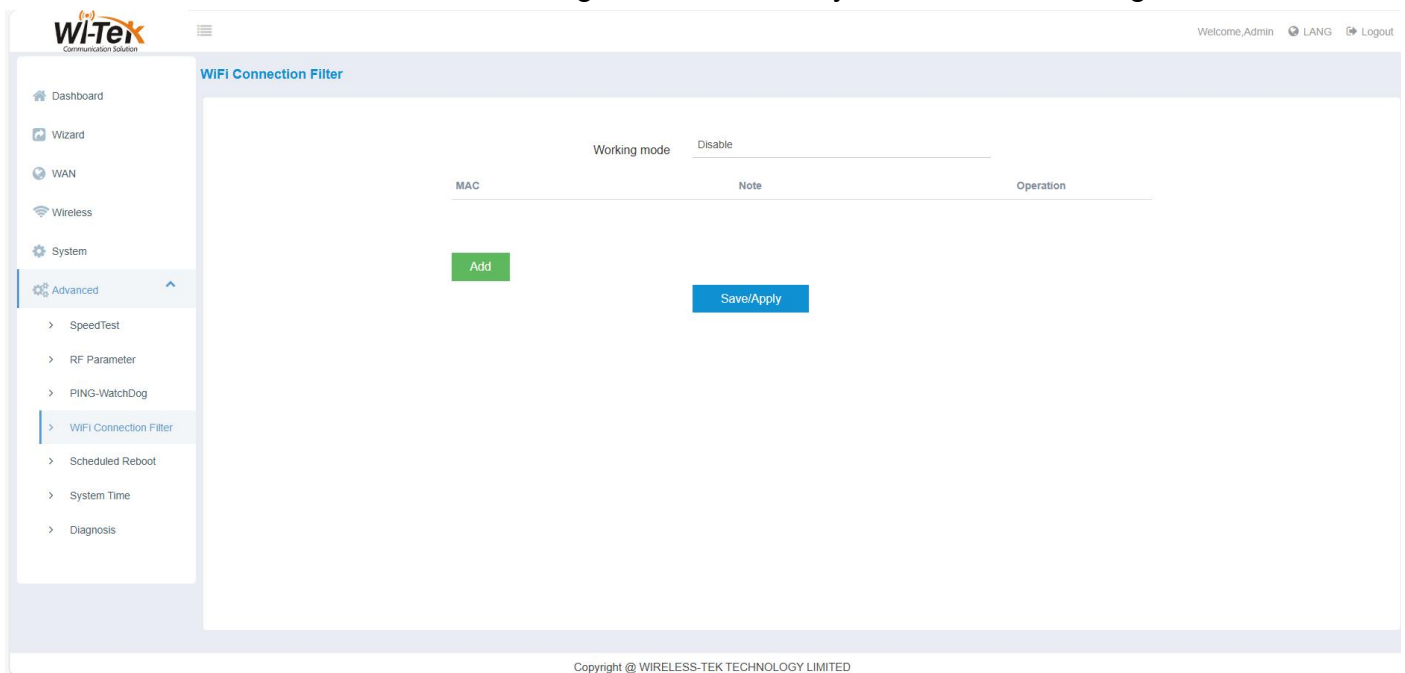
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Parameter	Describe
Enable Ping Watchdog	Click the button to enable or disable.
Address	Specify the reachable IP address or domain name
Checking Interval	Specify the time interval between two continuous ping packets.

Number of Failure	Specify the number of failed Ping packets.
Ping Timeout	Specify the times of Ping timeout. The recommended value is 2.
Action	After the above conditions are met, the following actions are performed. * Reboot *Close wireless *Restart Network *Enable Rescue SSID *NO Action

8.4. WiFi Connection Fliter

This feature allows you to control wireless access permissions by filtering client devices based on their MAC addresses, enhancing network security and access management.



Parameter	Describe
Working Mode	Three modes are available: *Disable: The filter function is turned off; all wireless clients can connect. *Whitelist-Allow listed only: Only clients with MAC addresses added to the list are allowed to connect.

	*Blacklist-Allow all except listed: All clients can connect except those with MAC addresses added to the list.
MAC Add	Click the "Add" button to input the MAC address of the client device you want to include in the whitelist or blacklist.
Note	When adding a MAC address, you can fill in descriptive notes (e.g., device name, user, usage scenario) for easy management and identification of filtered devices.
Operation	Manage the MAC address list (e.g., edit or delete existing entries, including modifying associated notes) to update the filter rules.

8.5. Scheduled Reboot

Configure the parameters of the scheduled restart plan for the CPE

Go to Advanced > Scheduled Reboot in the secondary navigation bar to enter the page to configure the parameters for the scheduled restart of the CPE.

Every Day:

Scheduled Reboot

Scheduled Reboot ☒

Reboot Cycle Every Day

Reboot Time 00:00

Save/Apply

Every Week:

Scheduled Reboot

Scheduled Reboot ☒

Reboot Cycle Every Week

Date Select Sunday

Reboot Time 00:00

Save/Apply

Every Month:

Scheduled Reboot

Scheduled Reboot ☒

Reboot Cycle Every Month

Date Select 1

Reboot Time 00:00

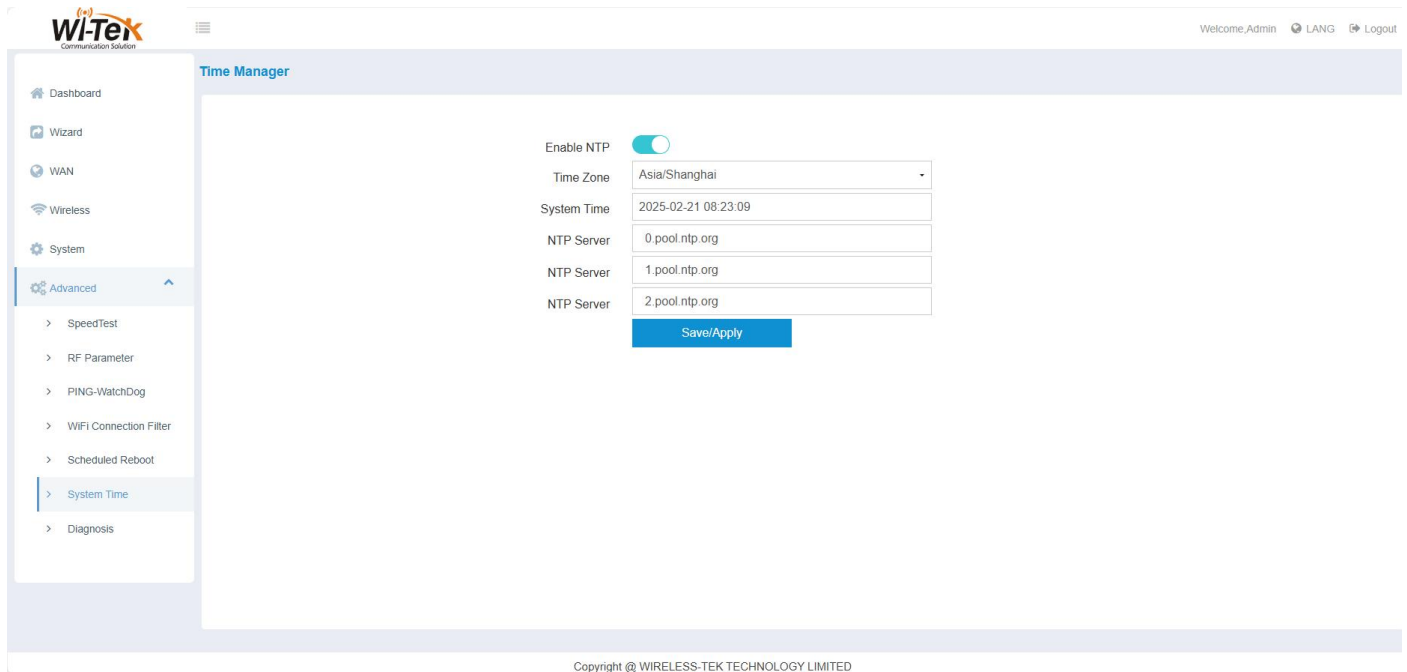
Save/Apply

Parameter	Describe
Scheduled Reboot	Click the button to enable or disable.
Reboot Cycle	Specify the reachable IP address or domain name *Every Day/ Every Week/Every Month
Date Select	Specify the date of scheduled reboot.
Reboot Time	Specify the time point for scheduled reboot.

8.6. Time Manager

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

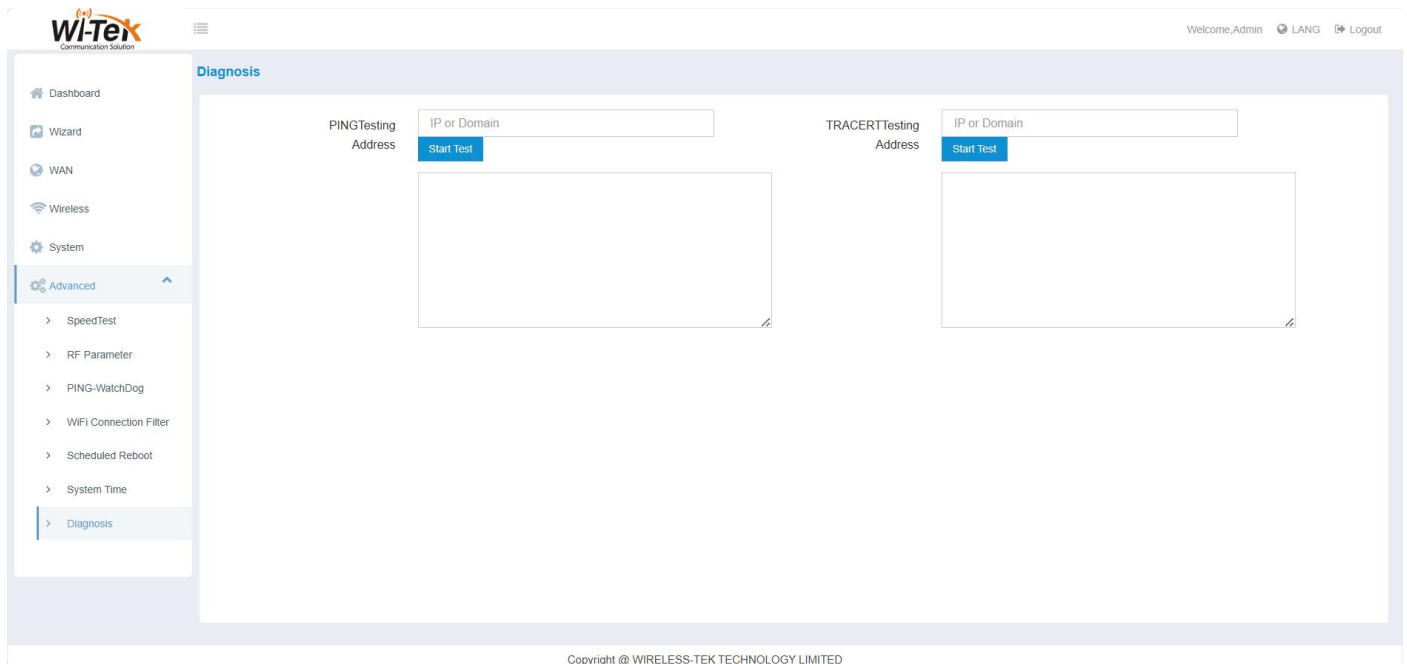
Go to Advanced>System Time page, to configure the system time parameters of the CPE



Parameter	Describe
Enable NTP	Enable or disable NTP function.
Time Zone	Select your local time zone from this pull down list.
System Time	Display the current system time of the device.
NTP Server	The server addresses used for NTP synchronization. The device will connect to these servers to get accurate time. Multiple servers improve the success rate of time synchronization.

8.7. Diagnosis

Go to Advanced>Diagnosis page, and then you can transact Ping or Traceroute function to check connectivity of your network in the following page.



Parameter	Describe
Ping Testing Address	Specify the IP or domain name of the reachable network. * This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
TRACERT Testing Address	Specify the IP or domain name of the reachable network. * This diagnostic tool tests the performance of a connection.

--END