User Guide

Wireless Outdoor CPE

TOTO LINK

The Smartest Network Device

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About This Guide

This guide contains information for introduction and setup of TOTOLINK Wireless Outdoor CPE series. Please read this guide carefully before operation.

When using this guide, please notice that feature of the product may vary slightly depending on your location, language and Internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstrations only.

Package Contents：

Please open the Gift-box carefully, it should contain:

- TOTOLINK CPE *1
- Passive PoE Box*1
- 24V Power Adapter *1
- User Guide*1
- TOTOLINK Flyer *1
- Ethernet Cable *1
- Strips *2

If there is any accessories broken or missing, please contact local retailer as soon as possible.

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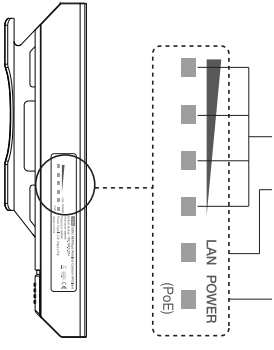
Introduction

1. Overview

TOTOLINK Wireless Outdoor CPEs are designed to provide cost-effective solution for outdoor long range Wi-Fi coverage. With built-in polarized antennas, high power output and multiple working modes, TOTOLINK CPEs are used extensively in many applications. Powered by Passive PoE also makes the network cabling more easy and flexibly. Meanwhile, the professional structural design allows them suitable for any kind of severe environments, an ideal choice for outdoor Wi-Fi transfer over long distance.

2. LED Indicators



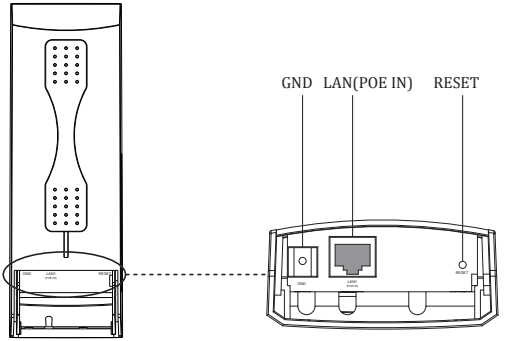
AP Mode:
all signal strength indicators keep lighting

Client/ Repeater/WISP Modes:
the stronger Wi-Fi signal the device get, the more indicators lighting.

LAN -On: It is lighting when LAN port is connected without data transfer
-Flashing: It flashes when LAN port is connected with data transfer.

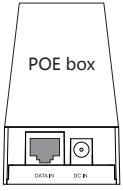
POWER(PoE): It is lighting when the device gets power.

3. Ports and Buttons



Ports and Buttons	Description
GND	This GND port is used to connect electrical ground for ESD and lightning protection.
LAN（POE IN）	This RJ45 Port is used to connect PoE box for both power supply and data transfer.
RESET	Press this RESET button for more than 5 seconds, the device will restored to factory default settings and reboot automatically.

4. Passive PoE Box



front

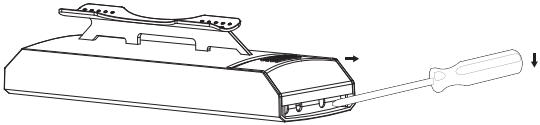
back

Ports and Buttons	Description
DATA IN	This RJ45 port is used to connect PC for data input
DC IN	The DC IN socket is where you will connect the power adapter.
POWER	Power indicator, it is lighting when power on
RESET	Press the RESET button for more than 5 seconds, TOTOLINK CPE will restore to factory default settings.
DATA & POWER OUT	This RJ45 port is used to connect TOTOLINK CPE for data and power transfer.

Hardware Installation

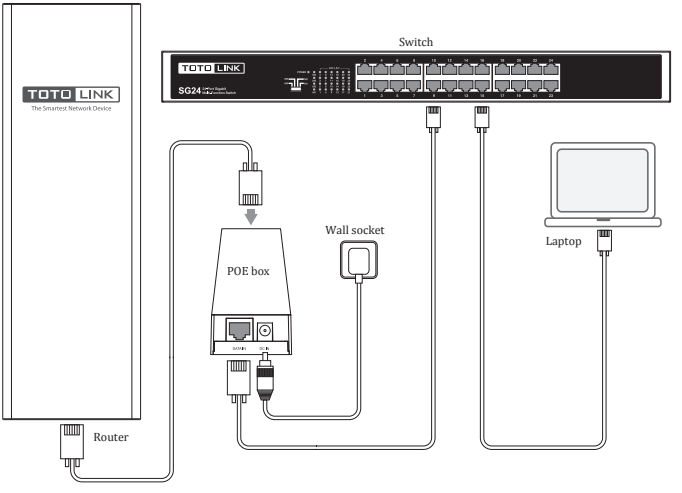
1. Connection and Installation

Step 1. Open the sliding closure on the CPE to plug into the Ethernet cable. This may not easy because the sliding closure is fasten on in case it will come off when CPE works outdoors. We recommend you refer to the operations on the below diagram to make it easier.

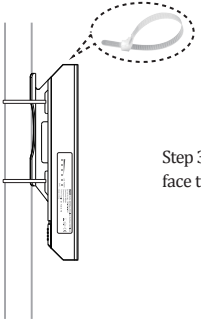


① Insert a screwdriver into the seam between CPE shell and sliding closure;
② Press down the screwdriver to make the sliding closure slip off.

Connection diagram：



Step 2. After the Ethernet cable connection, push up the sliding closure to make it fasten again on the case.



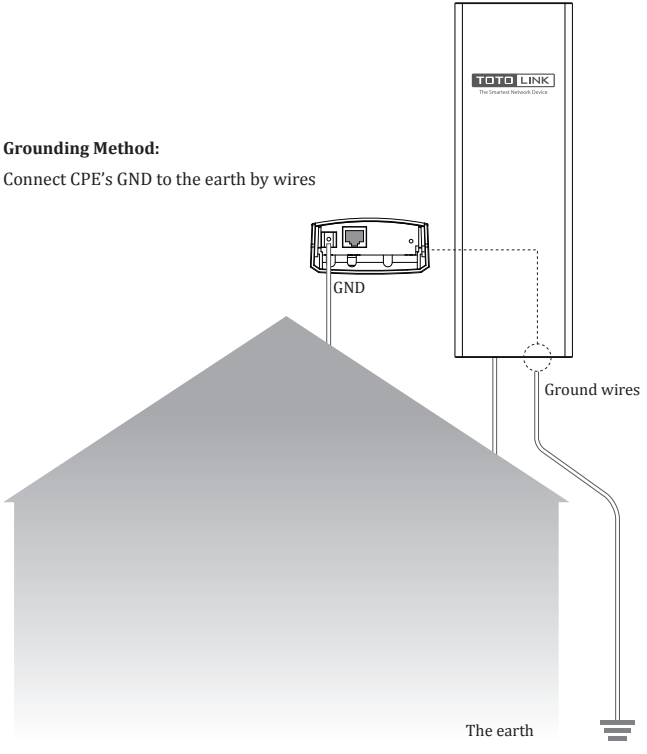
Step 3. Fix the CPE to the pole by strips, then adjust it to face the Wi-Fi coverage area(see left-hand side).

2. ESD and lightning Protection

For outdoor devices, it is significant to do the grounding for lightning. If your wireless CPE has a GND port, please connect the port to the earth terminal of the building by yellow & green double color line for grounding, see below. Otherwise, we suggest you use lightning protection device for signal.

Grounding Method:

Connect CPE's GND to the earth by wires

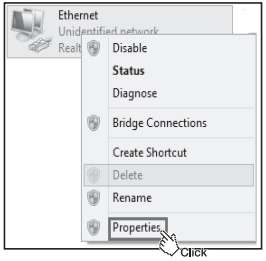


Easy Setup Guide

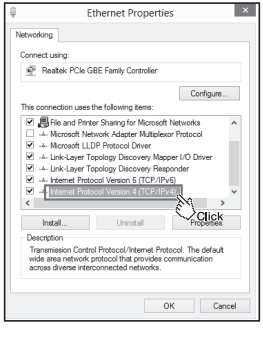
1. PC Settings（for Windows 8）

After hardware connection, please setup the network parameters of your PC.

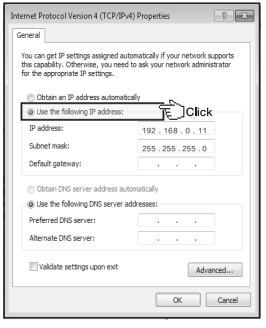
1）Click “Start—Control Panel—Network and Sharing Center—Change adapter setting”, right-click “Ethernet”, and choose “Properties”.



2）Double-click “Internet Protocol Version 4 (TCP/IPv4)”.



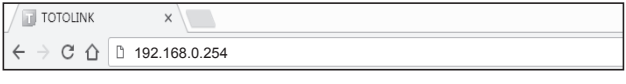
3) Choose “Use the following IP address”, input the IP address in the same network segment with your router’s default IP address, as below, then click “OK”.



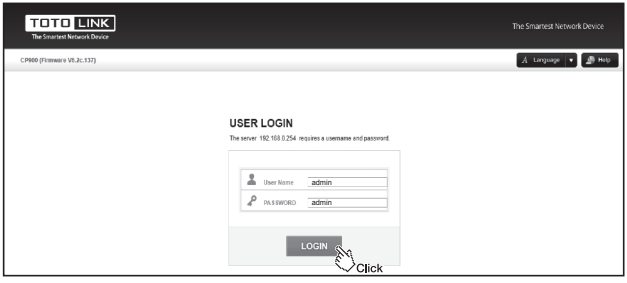
2. Web Interface Login

1) Open any Web browser.

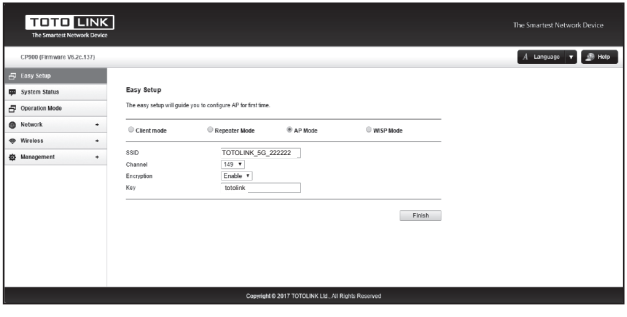
2) Enter 192.168.0.254 to access the CPE.



3) Upon initial login, enter **admin** in the **User Name** and **Password** fields, and select the appropriate **Language** from the Language drop-down lists. Then click **Login**.



4）Login to the Web interface successfully. First you will see the Easy Setup page.

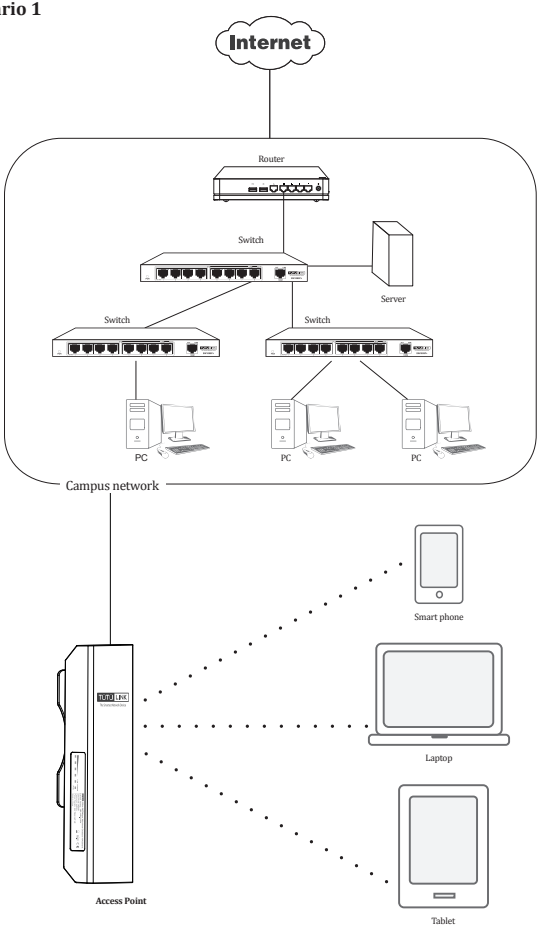


3. Working Modes

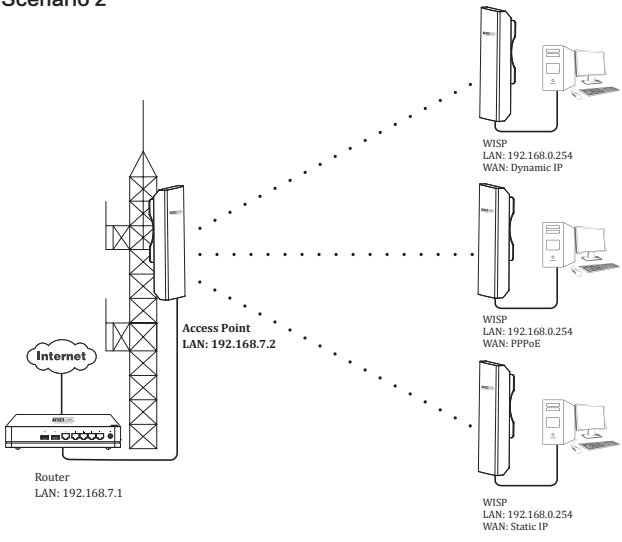
TOTOLINK CPE supports multiple working modes to satisfy diversified network requirement including AP Mode, Client Mode, Repeater Mode and WISP Mode. The following guide introduces typical scenarios of each mode. You can choose the scenario according to your needs.

1) AP Mode

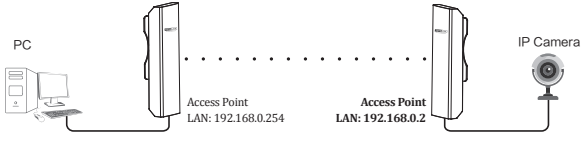
Scenario 1


Internet
Router
Switch
Server
Switch
Switch
PC
PC
PC
Campus network
Smart phone
Laptop
Tablet
Access Point

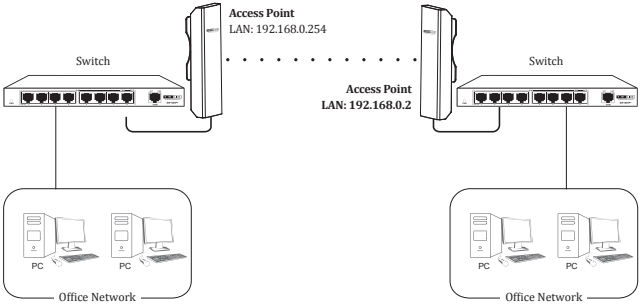
Scenario 2



Scenario 3



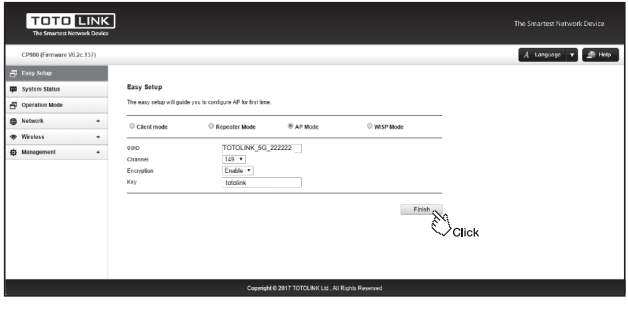
Connect two office areas



AP Settings

1）Go to the CPE's **Easy Setup** page.

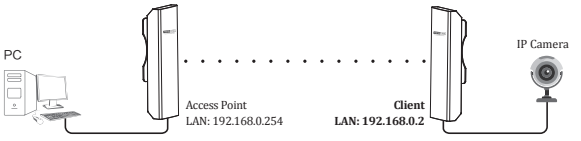
2）Choose "**AP Mode**", setup the CPE's **SSID**, **Channel** and **Key**(pass word), click **Finish**.



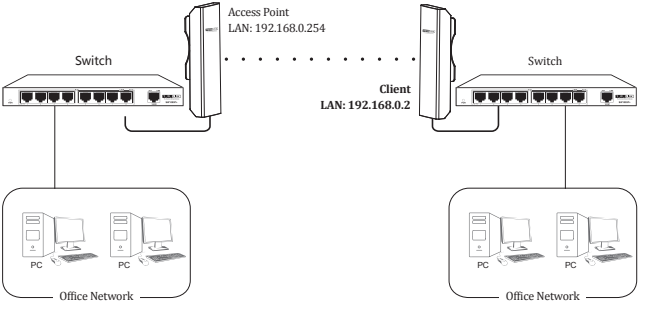
3） After the settings, please connect the PoE box's LAN port to upper level network device.

2) Client Mode

Scenario 1



Connect two office areas

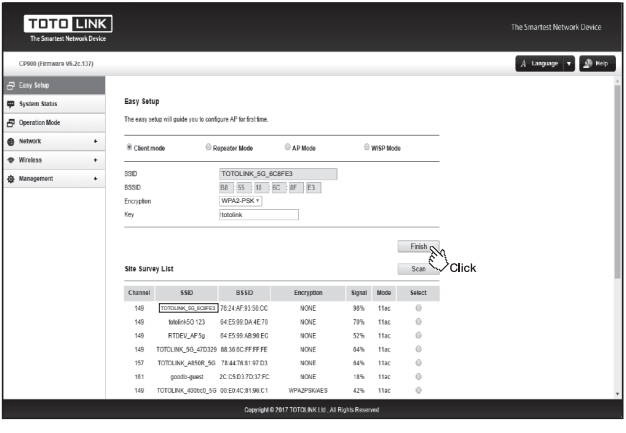


Client Settings

1）Go to CPE's Easy Setup page.

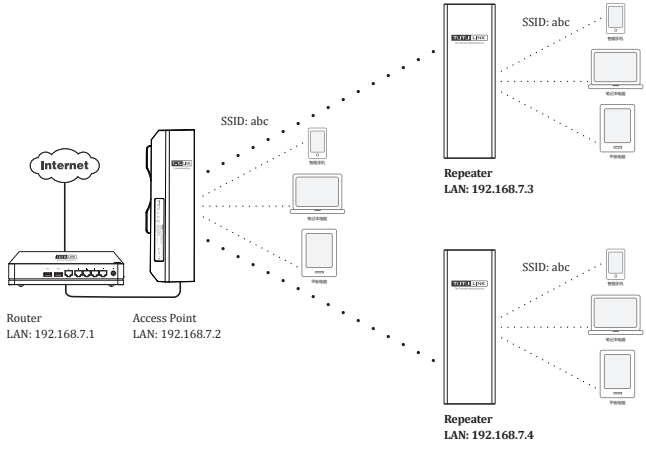
2）Choose "**Client Mode**", clice "**Scan**" to check all available wireless networks around.

3) Choose the SSID you need to connect. Enter correct **key**, click "**Finish**".

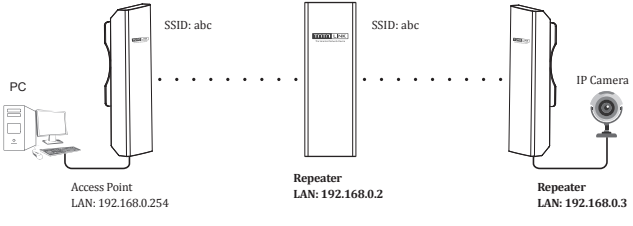


3) Repeater Mode

Scenario 1



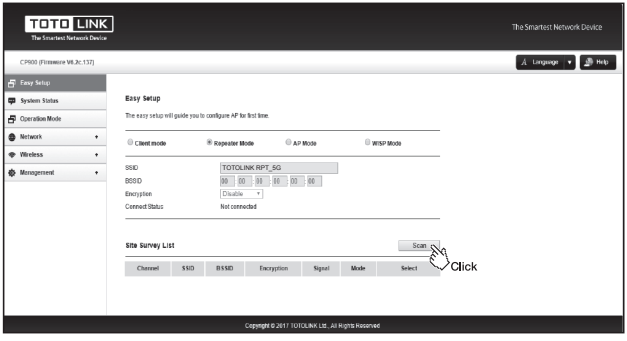
Scenario 2



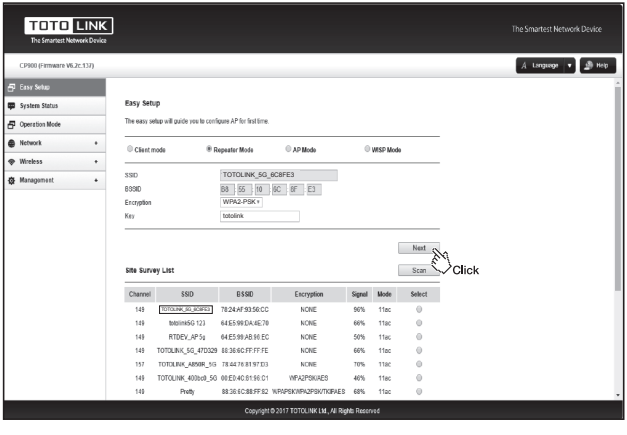
Repeater Settings

1）Go to CPE's **Easy Setup** page.

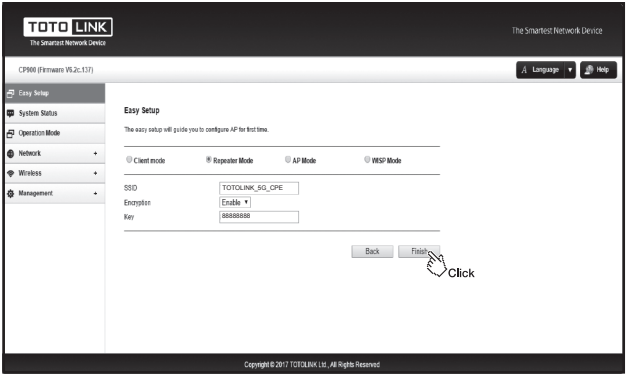
2）Choose "**Repeater Mode**", click "**Scan**" to check all available wireless networks around.



3) Select the SSID that you want to connect, enter correct key. Then click "**Next**" to setup the expanded network parameters.



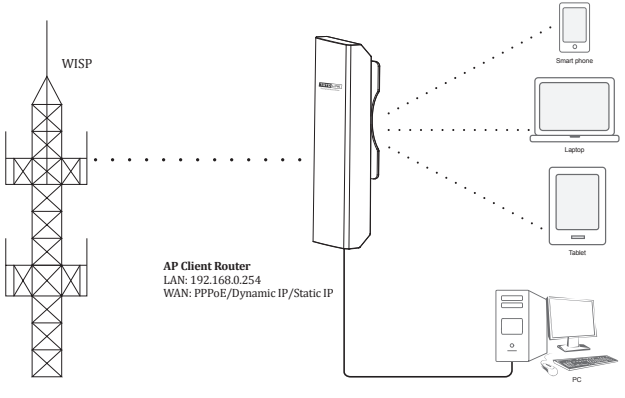
4) Setup the expanded network SSID and password. Click "**Finish**".



5) Now setup your PC's LAN card IP address to "Obtain the IP address automatically." Or you can access the Wi-Fi network through wireless devices.

4) WISP Mode

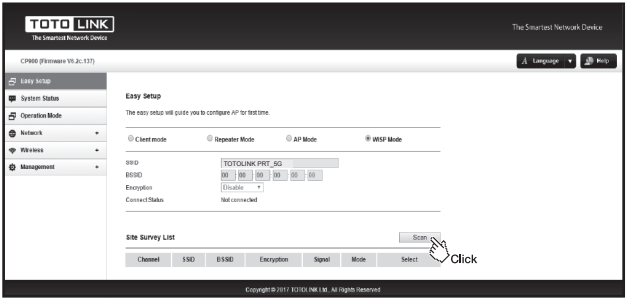
Scenario 1



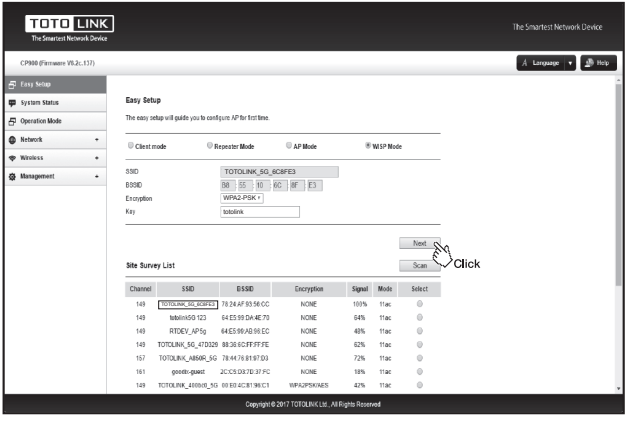
WISP Settings

1) Go to CPE's **Easy Setup** page.

2） Choose "WISP Mode", click "Scan", the device will check all available ISP wireless networks around.

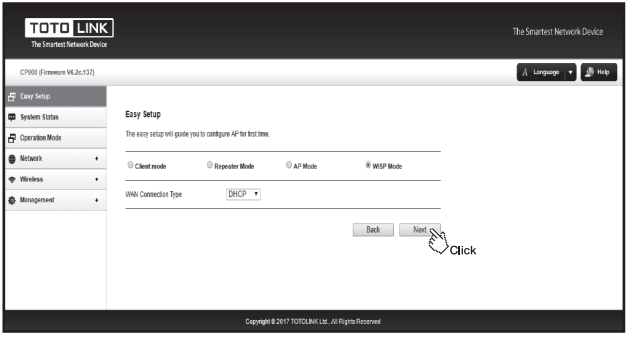


3） Select the ISP Wi-Fi you need to connect. Enter correct **Key**. Then click "**Next**".



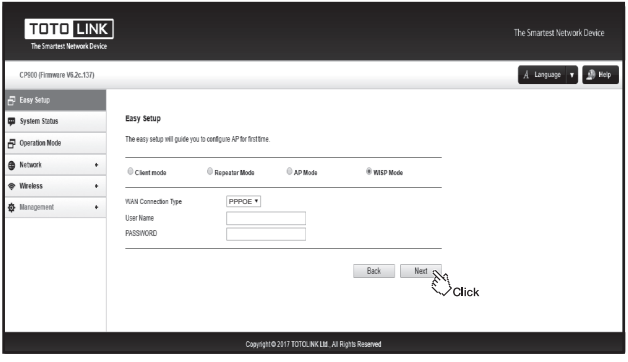
4) Choose WAN Method:

① DHCP, the device will obtain IP address from ISP router automatically. Click "Next" to setup the CPE's wireless parameters.

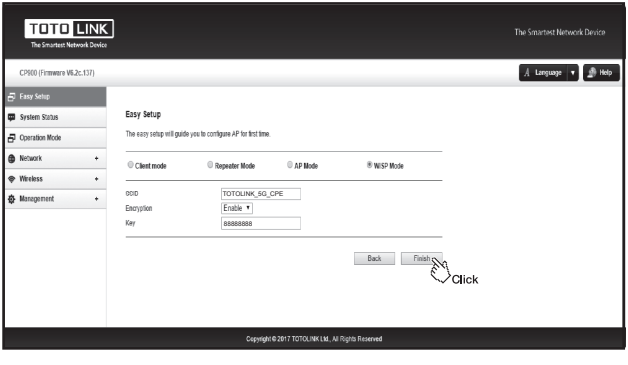


② If your ISP provides static IP address, please choose "**Static IP**", and input corresponding parameters, click "**Next**" to setup the wireless parameters.

③ PPPoE, please input the User Name and **PASSWORD** provided by your ISP, click "**Next**" to setup the wireless parameters.



5) Setup the SSID and Key, click "**Finish**".



6) Now setup your PC's LAN card IP address to "Obtain the IP address automatically." Or you can access the Wi-Fi network through wireless devices.

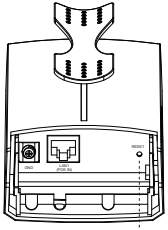
Specifications

Model No.	**CP900**
Hardware	
Interface	1*LAN1（POE IN）RJ45 Port
Button	1*RESET Button
Indicators	1*Power，1*LAN，4*Signal Strength
Power Supply	24V Passive PoE
Reliability	6KV Lightning Protection 15KV ESD Protection IP65 level dustproof and waterproof
Circuit	Watch-dog circuit
Dimensions（L X W X H）	237.5mm x 79mm x 58.5mm
Operating Temperature	-30℃~70℃
Storage Humidity	10%~90%
Wireless	
Standard	IEEE 802.11ac/a/n
RF Frequent	5.15~5.85GHz
Antenna	Built-in 13dBi dual polarized antennas
Output Power	26dBm

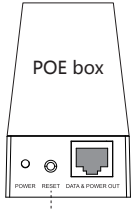
FAQ

1. How to reset the CPE to factory default Settings?

Keep the CPE powered on, press the RESET button on CPE or Passive PoE box about 8 seconds, the CPE will restore to factory default settings.



RESET
Press the RESET button for about 8 seconds until the signal strength indicators blink.



RESET on PoE box
Press the RESET button on PoE box for about 8 seconds until the signal strength indicators blink.

2. What Can I do If I forgot the CPE's Web Login User Name and Password?

In case you changed your CPE's Login User Name and Password, we suggest you reset your CPE to factory default settings by above operations. Then use the following parameters to login the CPE's Web interface:
Default IP address: 192.168.0.254
User Name: admin
Password: admin