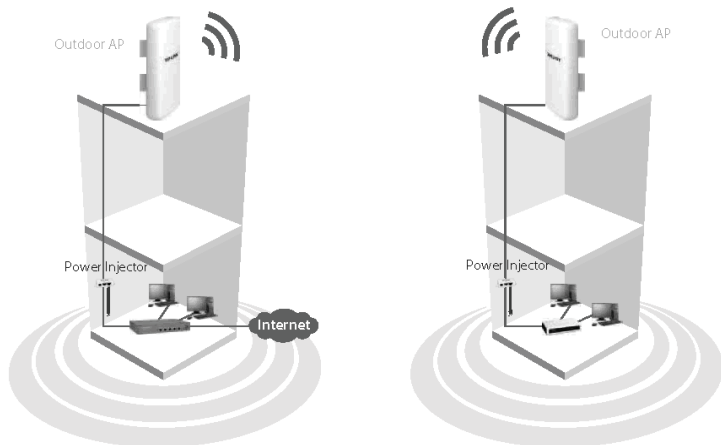


Installation

1 Typical network

TL-WA5210G is used for remote point-to-point connection. It makes remote internet share possible.



Note The typical connection for TL-WA5210G is shown as above. Please make sure that the two CPEs are placed face to face, otherwise the wireless signal strength might be weak. Here shows several incorrect examples.



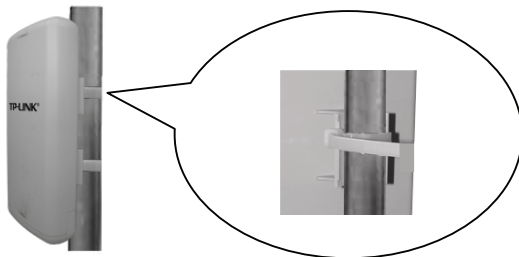
Note If you are using an external antenna to connect, please refer to **Appendix 1**.

2

Connecting the device

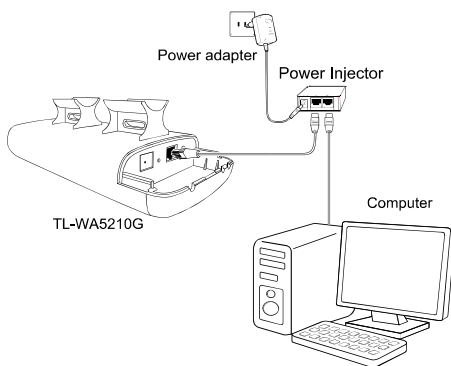
Note Please use only wired network connections to configure the AP.

- 1 Locate a suitable mounting site for your CPE. For choosing the best location, select an elevated location where trees, buildings and large steel structures will not obstruct the antenna signals and which offers maximum line-of-sight propagation with the users.
- 2 Adjust the direction of your CPE for a best signal. Place the straps through the slots on the back of the CPE and then around the pole. Tighten the straps.



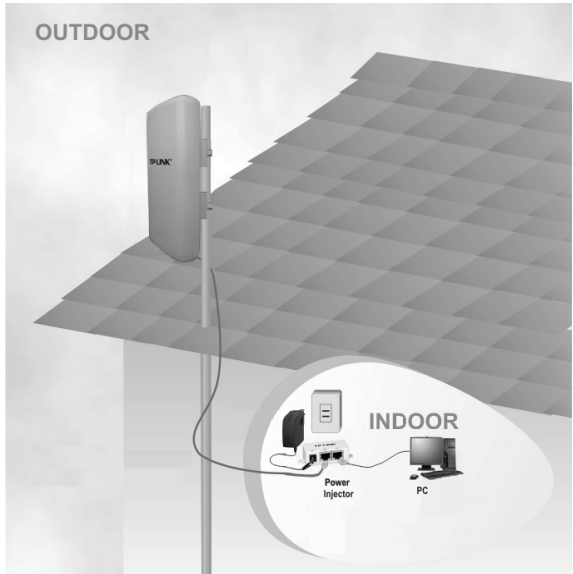
Note To get a best signal, you can refer to the Antenna Alignment on Page 8.

- 3 Connect one end of an Ethernet cable to the POE port of the provided Power Injector and the other end of the Ethernet cable to the LAN port of the CPE. Then, connect the LAN port of the Power Injector to a PC using another Ethernet cable. Finally, plug the provided power adapter into the DC jack on the Power Injector, and the other end to a standard electrical wall socket.

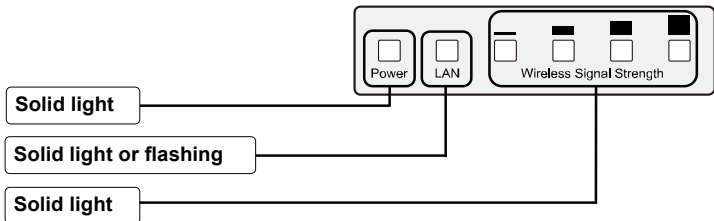


- 4** The connection will be similar to the figure below after the above steps are finished.

If you use two CPEs to build the network, please make sure that the two CPEs are placed face to face.



- 5** Turn on all your network devices and then check to see if the LEDs on the AP display normally as the diagram below describes.



Note If the LEDs display abnormally, please check to see if all the cable connectors (power adapter and Ethernet cable) are well connected to your device.

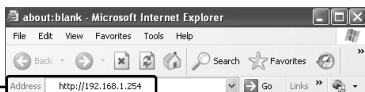
3

Configuring the device

Note You will need to assign your computer a **Static IP address** within the same range as the AP's IP address. See the **Troubleshooting T3** if you need assistance.

1 Login

Open your web browser and type **http://192.168.1.254** in the address bar and press **Enter**



A dialog box will prompt you for the **User name** and **Password**. Enter the default values and click **OK**.

User name: admin
Password: admin

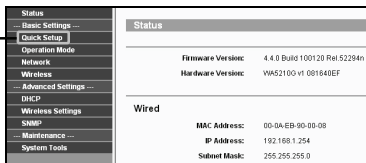


Click **OK**

Note If the dialog box does not pop up, please refer to **T3** in the **Troubleshooting** guide. **T2** will give you some help if you forget the password.

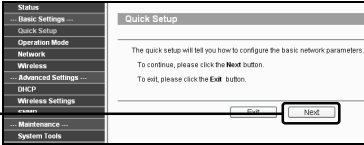
The web management page will display after successfully logging in.

Click **Quick Setup**

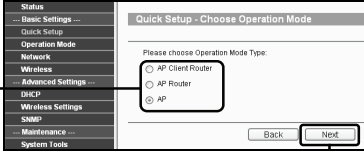


2 Operation Mode Setting

This page will then display.



Click **Next**



Choose the **Operation Mode Type** appropriate to your needs

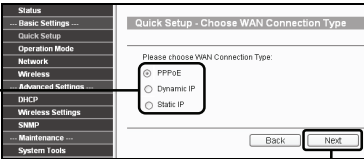
Click **Next**

Note The AP supports three operation mode types: **AP Client Router**, **AP Router** and **AP**.

- If you want to connect to your WISP, please choose **AP Client Router** mode and proceed to **A**;
- If you want to set it as a router, please choose **AP Router** mode, and for further configuration, please refer to the user guide in the resource CD;
- If you want to set up a point-to-point connection with TL-WA5210G, please skip to **B**;
If you want to set it as a repeater, please skip to **C**.

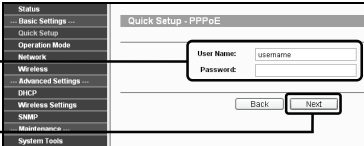
A. Configuration for AP Client Router Mode

This page will then display.



Choose your **WAN Connection Type** provided by your WISP. Here we choose PPPoE as an example

Click **Next**



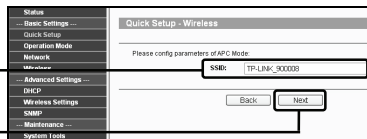
Enter the **Username** and **Password** given by your WISP

Click **Next**

Note The **Username** and **Password** are provided by your WISP.

Enter the **SSID** provided by your WISP

Click **Next**



Click **Finish** to exit the **Quick Setup** wizard and wait until the AP completes rebooting automatically. The changes will take effect after rebooting.

Click **Finish**



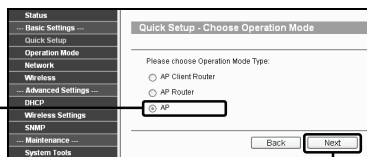
B. Configuration for Point-to-Point Connection

Note Two TL-WA5210Gs are needed for this application.

1) The AP Setting

Select **AP**

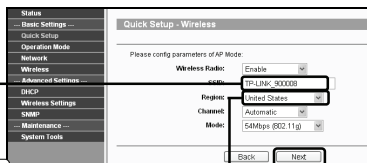
Click **Next**



Enter a unique name for your wireless network; however, choose a name that is easily remembered by network users. Here we enter **TP-LINK_900008** as the SSID for example

Select your region from the drop-down list

Click **Next**



Click **Finish** to exit the **Quick Setup** wizard and wait until the AP completes rebooting automatically. The changes will take effect after rebooting.

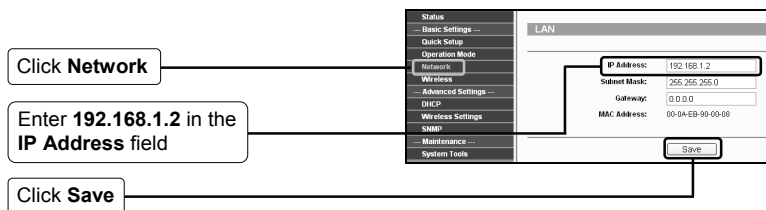
Click **Finish**



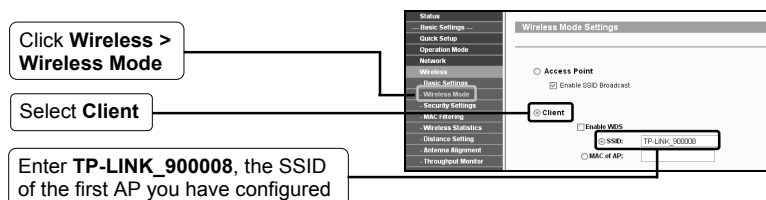
After successfully logging in, configure the other TL-WA5210G by following the steps below.

2) The Client Setting

Note You should change the default LAN IP address of the Client from 192.168.1.254 to 192.168.1.X (X can be any number from 2 to 253) to avoid an IP conflict with the former AP. Here we choose 192.168.1.2 as an example.



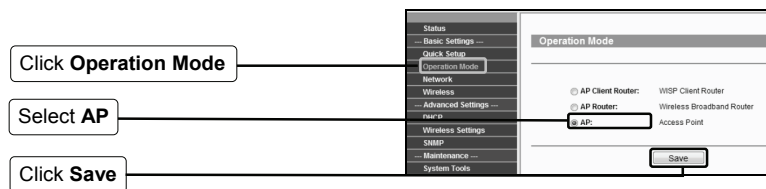
Note The AP will begin rebooting automatically after you click **Save**.



Click **Save** at the bottom of this page.

C. Configuration for Repeater

To make sure the TL-WA5210G is under AP mode, please follow the steps below.



The AP will begin rebooting automatically after you click **Save**.

Click **Wireless > Wireless Mode**

Select **Repeater**

Click **Survey**

This page will then display.

Find the BSSID of the remote AP that you want to repeat, and then click **Connect** on the right side of the line.

AP List

AP Count: 56

ID	BSSID	SSID	Signal	Channel	Security	Choose
1	00-0A-ED-00-12-34	for_743_intl_0120	26 dB	11	OFF	Connect
3	00-AE-AF-AF-AF-AF	TP-LINK_AFAFAF	9 dB	1	OFF	Connect
4	00-25-86-BF-32-FE	Huawei-002586B32FE	18 dB	11	OFF	Connect
6	00-1D-0F-01-06-18	TP-LINK_010618	13 dB	4	OFF	Connect

[Refresh](#)

Note The BSSID is the same as the MAC address.

Then click **Save** at the bottom of this page.

3 Antenna Alignment

After basic configuration of operation mode, you can change your CPE's direction to get a better signal strength according to the parameters shown on the Antenna Alignment page.

Click **Wireless**

Click **Antenna Alignment**

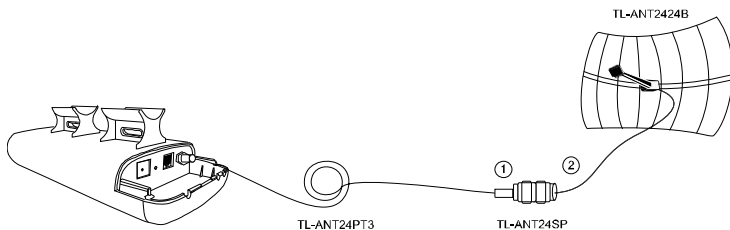
Appendix 1: External antenna installation

1

External antenna connection

Note

1. If you have an external antenna with the RP-SMA (male) port, you could connect it to the RP-SMA port of your CPE directly.
2. If you don't have any external antennas, you are recommended to use TP-LINK products for outdoor solution. You could choose TL-ANT2424B (external antenna), TL-ANT24SP (Surge Protector), and TL-ANT24PT3 (Pigtail Cable) to connect as the following steps:



1

Connect one side of the TL-ANT24SP to the RP-SMA port of your CPE through the TL-ANT24PT3.

2

Connect the other side of the TL-ANT24SP to the TL-ANT2424B.

2

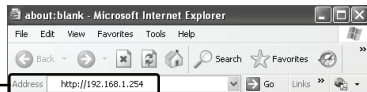
Configure the external antenna

Note

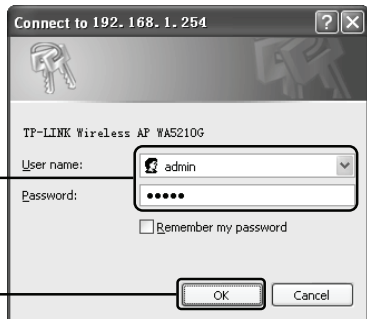
You will need to assign your computer a **Static IP address** within the same range as the AP's IP address. See the **Troubleshooting T3** if you need assistance.

1 Login

Open your web browser and type in **http://192.168.1.254** in the address bar and press **Enter**



A dialog box will prompt you for the **User name** and **Password**. Enter the default values and click **OK**.



User name: admin
Password: admin

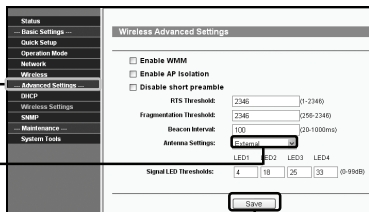
Click **OK**

2 Configure the external antenna

Click **Wireless Setting**

Select **External**

Click **Save**

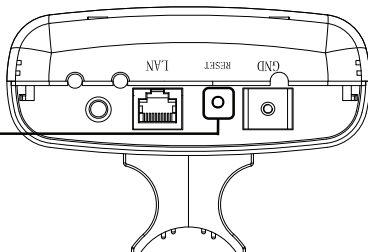


Appendix 2: Troubleshooting

T1. How do I restore my AP's configuration to its factory default settings?

With the AP powered on, press and hold the **RESET** button for about 8 seconds before releasing it.

Hold it for about 8 seconds



Note Once the AP is reset, the current configuration settings will be lost and you will need to reconfigure the router.

T2. What can I do if I forget my password?

- 1) Restore the AP's configuration to its factory default settings. If you don't know how to do that, please refer to previous section **T1**;
- 2) Use the default user name and password: **admin, admin**;
- 3) Try to reconfigure your AP by following the instructions of this QIG.

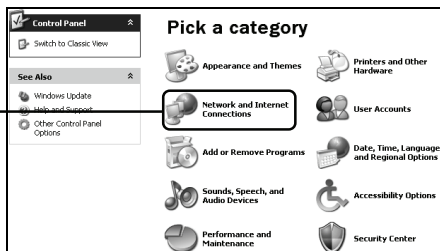
T3. What can I do if I cannot access the web-based configuration page?

- 1) Configure your computer's IP Address.

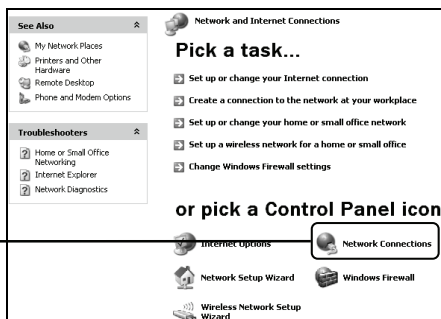
For Windows XP OS

Go to **Start > Control Panel**, you will then see the following page.

Click **Network and Internet Connections**

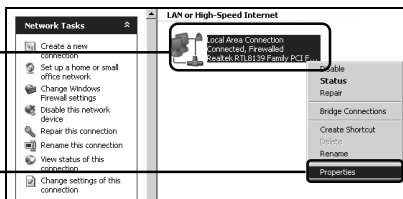


Click **Network Connections**

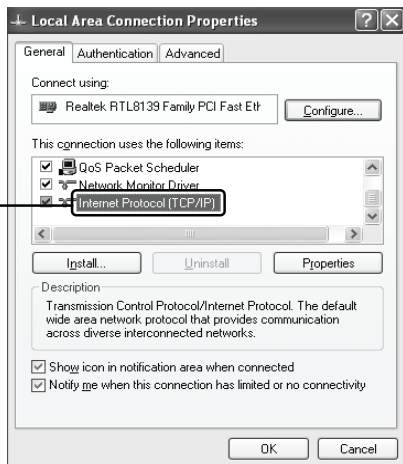


Right-click **Local Area Connection**

Click **Properties**



Double-click **Internet Protocol (TCP/IP)**



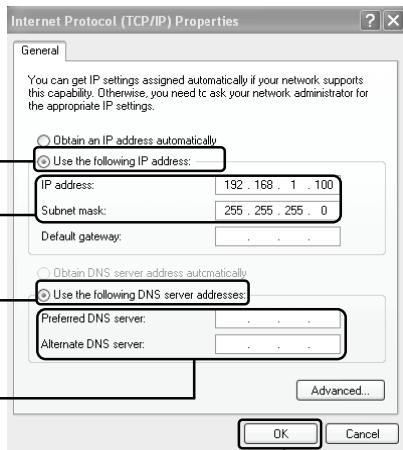
Select **Use the following IP address**

Enter the 192.168.1.100 into the IP address field, 255.255.255.0 into the Subnet mask field

Select **Use the following DNS server addresses**

Enter the **DNS server address** provided by your ISP or network administrator

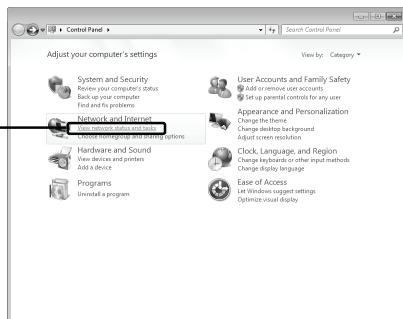
Click **OK**



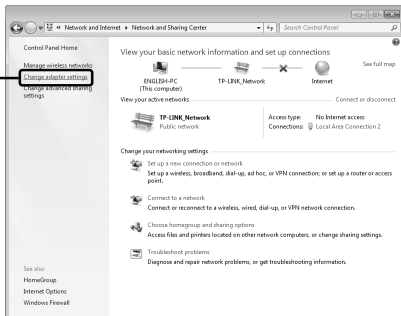
For Windows 7 OS

Go to **Start > Settings > Control Panel**, and then you will see the following page.

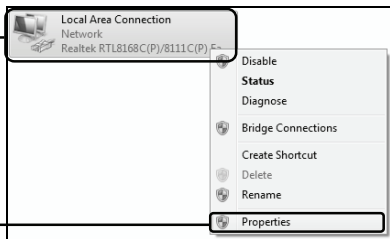
Click **View network status and tasks**



Click **Change adapter settings**

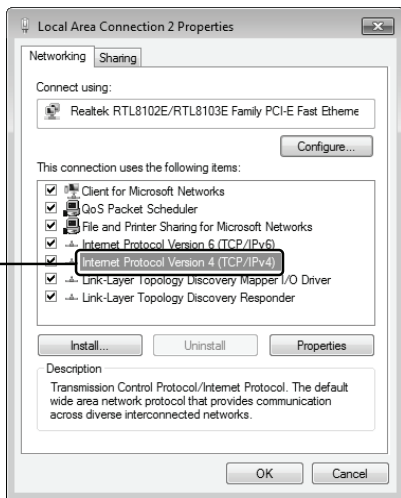


Right-click **Local Area Connection**



Click **Properties**

Double-click **Internet Protocol Version 4 (TCP/IPv4)**



The image shows a screenshot of the "Internet Protocol Version 4 (TCP/IP v4) Properties" dialog box. The "General" tab is selected. The dialog contains the following elements:

- Introductory text: "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."
- Radio button selection: "Obtain an IP address automatically" is unselected, and "Use the following IP address:" is selected.
- IP address fields: "IP address:" is set to "192 . 168 . 1 . 100" and "Subnet mask:" is set to "255 . 255 . 255 . 0".
- Default gateway: "Default gateway:" is set to ". . .".
- Radio button selection: "Obtain DNS server address automatically" is unselected, and "Use the following DNS server addresses:" is selected.
- DNS server fields: "Preferred DNS server:" and "Alternate DNS server:" are both set to ". . .".
- Checkboxes: "Validate settings upon exit" is unselected.
- Buttons: "Advanced...", "OK", and "Cancel" are at the bottom.

Five callout boxes with arrows point to specific elements in the dialog:

- Box 1: "Select **Use the following IP address**" points to the selected radio button.
- Box 2: "Enter the 192.168.1.100 into the IP address field, 255.255.255.0 into the Subnet mask field" points to the IP address and Subnet mask fields.
- Box 3: "Select **Use the following DNS server addresses**" points to the selected radio button.
- Box 4: "Enter the **DNS server address** provided by your ISP or network administrator" points to the Preferred DNS server field.
- Box 5: "Click **OK**" points to the OK button.

Technical Support

- For more troubleshooting help, go to:
www.tp-link.com/support/faq.asp
- To download the latest Firmware, Driver, Utility and User Guide, go to:
www.tp-link.com/support/download.asp
- For all other technical support, please contact us by using the following details:

Global

Tel: +86 755 26504400
E-mail: support@tp-link.com
Service time: 24hrs, 7 days a week

Singapore

Tel: +65 62840493
E-mail: support.sg@tp-link.com
Service time: 24hrs, 7 days a week

UK

Tel: +44 (0) 845 147 0017
E-mail: support.uk@tp-link.com
Service time: 24hrs, 7 days a week

USA/Canada

Toll Free: +1 866 225 8139
E-mail: support.usa@tp-link.com
Service time: 24hrs, 7 days a week

Malaysia

Tel: 1300 88 875465 (1300
88TPLINK)
Email: support.my@tp-link.com
Service time: 24hrs, 7 days a week

Switzerland

Tel: +41 (0)848 800998 (German
Service)
E-mail: support.ch@tp-link.com
Fee: 4-8 Rp/min, depending on rate
of different time
Service time: Monday to Friday
9:00 AM to 6:00 PM
GMT+ 1 or GMT+ 2
(Daylight Saving Time)

Australia & New Zealand

Tel: AU 1300 87 5465
NZ 0800 87 5465
E-mail: support@tp-link.com.au
Service time: 24hrs, 7 days a week

Turkey

Tel: 444 19 25 (Turkish Service)
E-mail: support.tr@tp-link.com
Service time: 9:00 AM to 6:00 PM
7 days a week

Italy

Tel: +39 02 66987799
E-mail: support.it@tp-link.com
Service time: Monday to Friday
9:00 AM to 6:00 PM

Indonesia

Tel: (+62) 021 6259 135
E-mail : support.id@tp-link.com
Service time : Monday to Friday
9:00 -12:00 ; 13:00 -18:00
*Except public holidays

Germany / Austria

Tel: +49 1805 875465 (German Service) /
+49 1805 TPLINK
E-mail: support.de@tp-link.com
Fee: 0.14 EUR/min from the German fixed
phone network and up to 0.42 EUR/min
from mobile phone
Service time: Monday to Friday
9:00 AM to 6:00 PM
GMT+ 1 or GMT+ 2
(Daylight Saving Time in Germany)
*Except bank holidays in Hesse