

# Installation

**Note** The product model shown in this QIG is TL-WA701ND, as an example.

## 1

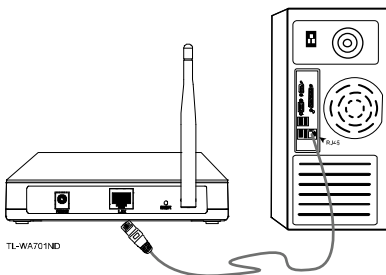
### Connecting the Device for Configuration

#### 1

Assign a static IP address 192.168.1.100 for your computer. Please refer to the **T3** in **Troubleshooting** guide if you need assistance.

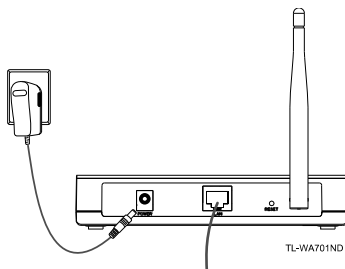
#### 2

Connect to the Access Point with the Ethernet cable or via wireless. The default SSID of the Access Point is TP-LINK\_XXXXXX. The XXXXXX is the last 6 characters of the Access Point's MAC address.



#### 3

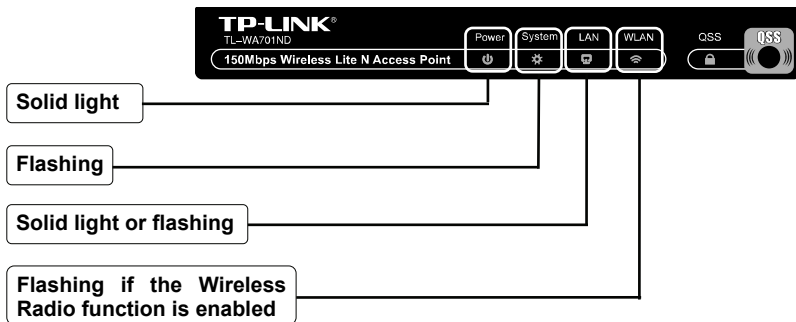
Plug the provided power adapter into the power jack on the back of the Access Point, and the other end to a standard electrical wall socket.



**Note**

If the distance between the outlet and the Access Point is too long to supply the power, you can refer to the Power over Ethernet(PoE) solution in **Appendix B: With PoE Setup**.

- 4 Turn on all of your network devices and then check to see if the LEDs on the Access Point display normally as the diagram below describes.

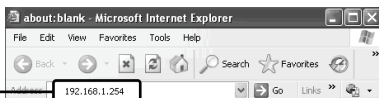


**Note** If the LEDs display abnormally, please check to see if all the cable connectors (power adapter and Ethernet cable) are well connected to your device.

## 2 Configuring the device

### 1 Login

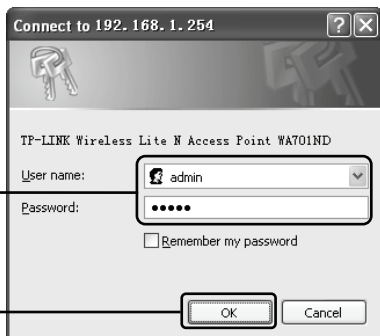
Open your web browser and type in **192.168.1.254** in the address bar and press **Enter**



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

**User name: admin**  
**Password: admin**

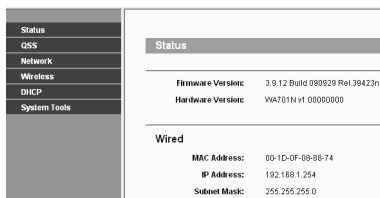
Click **OK**



**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.

## 2 Network Setting

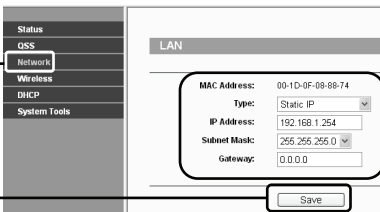
After successfully logging in, this page will then display.



You may need to change the LAN IP address and the gateway according to your network.

Click **Network**

Click **Save** after you have completed the settings



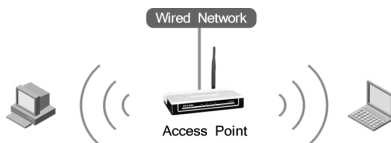
**Note** If you have changed the LAN IP address, please log in to the Access Point using the new IP address.

## 3 Operation Mode Selection

This Access Point provides six operational modes: Access Point mode, Multi-SSID, Client mode, Repeater mode, Universal Repeater mode and Bridge with AP mode. Please choose an appropriate operation mode for the Access Point.

### Access Point Mode

In this mode, the Access Point will act as a wireless central hub for your wireless LAN clients, giving a wireless extension for your current wired network. The **Multi-SSID** mode is similar to **Access Point** mode.



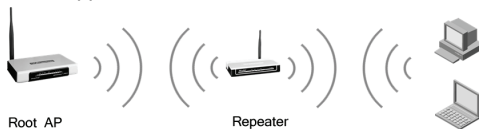
### Client Mode

In this mode, the Access Point will act as a wireless card to connect with WISP.



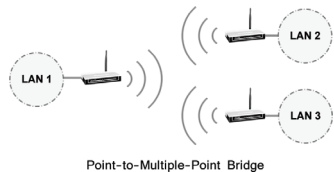
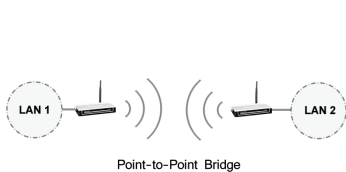
### Repeater Mode

In this mode, the Access Point can extend the coverage of another wireless Access Point or Router. The universal repeater mode is for the wireless Access Point or Router which does not support WDS function.



## Bridge with AP Mode

In this mode, the Access Point can wirelessly connect two or more remote LANs together.



## 4 Operation Mode Setting

Click **Wireless**

Click **Wireless Settings**

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

The screenshot shows a web interface with a left-hand navigation menu and a main content area. The menu items are: Status, DHCP, Network, **Wireless**, Wireless Settings, Wireless Security, Wireless MAC Filtering, Wireless Advanced, Throughput Monitor, and Wireless Statistics. The 'Wireless' menu item is highlighted. The main content area is titled 'Wireless Settings' and contains an 'Operation Mode' dropdown menu set to 'Access Point'. Below this are fields for 'SSID' (TP-LINK\_000074), 'Region' (United States), and a 'Warning' section with a note about channel selection.

If **Access Point** mode is selected, please proceed to part **A**; If **Client** mode is selected, please skip to part **B**; If **Repeater** mode is selected, please skip to part **C**; If **Bridge with AP** mode is selected, please skip to part **D**.

**Note** If the wireless security is required, please refer to the **Appendix A: Wireless Security Setup** to configure the Access Point after finishing the following operation mode settings.

## A. Access Point Mode

This Access Point is set to Access Point mode by default. The wireless settings can be changed as follows.

Wireless Settings

Operation Mode: Access Point

SSID: TP-LINK\_088874

Region: United States

Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Channel: Auto

Mode: 11bgn mixed

Channel Width: 20/40MHz

Max Tx Rate: 150Mbps

Enable Wireless Radio

Enable SSID Broadcast

Save

Create a unique name (SSID) for your wireless network

Select your Region

Click **Save** at the bottom of this page. **Your setup is now complete.**

**Note** The setup for **Multi-SSID** mode is similar to that of **Access Point** mode.

## B. Client Mode

Wireless Settings

Operation Mode: Client

Enable WDS

SSID:

MAC of AP:

Region: United States

Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Channel Width: 20/40MHz

Enable Wireless Radio

Search

Save

Click Search

The **AP List** page will then pop up in a new window.

AP List

AP Count: 5

ID	BSSID	SSID	Signal	Channel	Security	Choose
1	08-19-E0-AC-BF-4C	TP-LINK_ACBF4C	6	6	OFF	Connect
2	08-0A-EB-88-77-5D	TP-LINK_88775D	36	6	OFF	Connect
3	08-1D-0F-07-29-01	TP-LINK_072901	19	11	OFF	Connect

Refresh

Find the SSID of the Access Point / Router or WISP, and click **Connect** in the corresponding row

You will then return to the previous page.

The SSID and MAC address will be automatically filled into the corresponding box

Ⓢ SSID: TP-LINK\_072001  
MAC of AP: 00-1D-0F-07-20-01  
Region: United States  
Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Click **Save** at the bottom of this page. **Your setup is now complete.**

## C. Repeater Mode

Click **Search**

Wireless Settings  
Operation Mode: Repeater  
MAC of AP:   
Region: United States  
Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.  
Channel Width: 20/40MHz  
Max Tx Rate: 150Mbps  
 Enable Wireless Radio  
Search  
Save

The **AP List** page will then pop up in a new window.

Find the SSID of the root Access Point / Router that you want to repeat, and then click **Connect** in the corresponding row

AP Count: 3

ID	BSSID	SSID	Signal	Channel	Security	Choose
1	00-10-0F-01-06-32	TP-LINK_010632	5	10	ON	Connect
2	00-10-0F-07-01-06	TP-LINK_070106	23	6	OFF	Connect
3	00-21-27-46-9E-30	TP-LINK_test_name	16	11	ON	Connect

Refresh

You will then return to the previous page.

The BSSID of the root Access Point / Router will be automatically filled into the **MAC of AP** box

Wireless Settings  
Operation Mode: Repeater  
MAC of AP: 00-1D-0F-07-01-06  
Region: United States  
Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Click **Save** at the bottom of this page. **Your setup is now complete.**

**Note** The setup for **Universal Repeater** mode is similar to that of **Repeater** mode.

## D. Bridge Mode

Wireless Settings

Operation Mode: Bridge with AP

SSID: TP\_LINK\_088974

Region: United States

Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Channel: Auto

Mode: 11bgn mixed

Channel Width: 20/40MHz

Max Tx Rate: 150Mbps

Enable Wireless Radio

Enable SSID Broadcast

MAC of AP1:

MAC of AP2:

MAC of AP3:

MAC of AP4:

Click **Search**

The **AP List** page will then pop up in a new window.

Find the SSID of another bridge, and click **Connect** in the corresponding row

AP List

AP Count: 4

ID	BSSID	SSID	Signal	Channel	Security	Choose
1	00-10-0F-01-06-32	TP_LINK_010632	5	10	ON	<a href="#">Connect</a>
2	00-19-E0-AC-BF-4C	TP_LINK_ACBF4C	5	6	OFF	<a href="#">Connect</a>
3	00-21-27-46-9E-30	TP_LINK_test_name	14	11	ON	<a href="#">Connect</a>
4	00-03-7F-BE-F2-5C	testnet2	11	11	OFF	<a href="#">Connect</a>

The BSSID of the remote bridge will be automatically filled into the **MAC of AP** box

Enable SSID Broadcast

MAC of AP1: 00-19-E0-AC-BF-4C

MAC of AP2:

MAC of AP3:

MAC of AP4:

Click **Save** at the bottom of this page. **Your setup is now complete.**

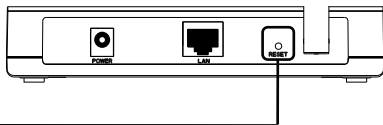
**Note** Please make sure all the bridges are set to operate in the same channel with different LAN IP address.



# Troubleshooting

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

With the Access Point powered on, press and hold the **Reset** button on the rear panel for 8 to 10 seconds before releasing it.



Hold it in for 8 to 10 seconds

**Note** Once the Access Point is reset, the current configuration settings will be lost and you will need to reconfigure the Access Point.

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

- 1) Restore the Access Point'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?

### For Windows XP OS

- 1) Go to **Start > Settings > Control Panel > Network and Internet Connections > Network Connections**;  
Right Click **Local Area Connection or Wireless connection** > Select **Properties**;
- 2) Double Click **Internet Protocol (TCP/IP)** in the item list.  
Select **Use the following IP address**, enter the 192.168.1.100 as the IP address, 255.255.255.0 as the Subnet mask;  
Select **Use the following DNS server addresses**, enter the **DNS server address** provided by your ISP or network administrator;
- 3) Click **OK** button to finish the settings.

### **For Windows Vista OS**

- 1) Go to **Start > Settings > Control Panel > View network status and tasks**;  
Click **View Status** at the right side > **Properties**;
- 2) Double Click **Internet Protocol Version 4 (TCP/IPv4)** in the item list;  
Select **Use the following IP address**, enter the 192.168.1.100 as the IP address, 255.255.255.0 as the Subnet mask;  
Select **Use the following DNS server addresses**, enter the **DNS server address** provided by your ISP or network administrator;
- 3) Click **OK** button to finish the settings.

**Note** More detailed instructions for the IP address settings can be found in the User Guide on the resource CD.

Now, try to log on to the Web-based configuration page again after the above settings have been configured. If you still cannot access the configuration page, please restore your Access Point's factory default settings and reconfigure your Access Point following the instructions of this QIG. Please feel free to contact our Technical Support if the problem persists.

# Appendix A: Wireless Security Setup

Log on to the web management page.  
Click **Wireless** on the leftmost side.

Click **Wireless Security**

Wireless Security

Operation Mode: Access Point

Disable Security

WEP

Type: Automatic

WEP Key Format: Hexadecimal

Key Selected	WEP Key	Key Type
Key 1		Disabled
Key 2		Disabled
Key 3		Disabled
Key 4		Disabled

WPA/WPA2

Version: Automatic

Encryption: Automatic

Radius Server IP: [ ]

Radius Port: 1812 (0-65535, 0 stands for default port 1812)

Radius Password: [ ]

Group Key Update Period: 0 (in second, minimum is 30, 0 means no update)

WPA-PSK/WPA2-PSK

Version: Automatic

Encryption: Automatic

Select **WPA-PSK/WPA2-PSK**

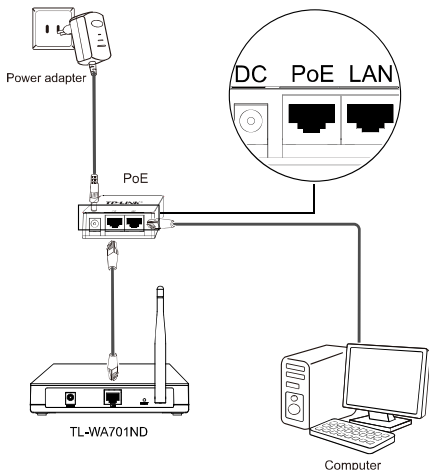
Create a security password using  
8 to 63 ASCII characters or 8 to  
64 Hexadecimal characters in  
the **PSK Password** field

Click **Save**

**Note** The WPA-PSK/WPA2-PSK encryption type is more secure and recommended, but it is not available for Bridge mode.

## Appendix B: With PoE Setup

- 1 Turn off all your network devices, including your computer(s), power injector and the AP.
- 2 Connect your computer to the **LAN** port on the power injector with an Ethernet Cable.
- 3 Connect your AP to the **PoE** port on the power injector with an Ethernet Cable.
- 4 Plug the provided power adapter into the **DC** jack on the power injector, and the other end to a standard electrical wall socket.



- Note**
1. Passive PoE Injector supports a maximum cable length up to 30 meters due to the environment.
  2. For longer powered cable up to 100 meters, please choose TP-LINK's 48V PoE adapters: TL-POE200 or TL-POE150S & TL-POE10R.

Product information can be found on our official website  
<http://www.tp-link.com>.

# Technical Support

- For more troubleshooting help, go to:  
**[www.tp-link.com/support/faq.asp](http://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](http://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](mailto:support@tp-link.com)  
Service time: 24hrs, 7days a week

## Singapore

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

## Switzerland

Tel: +41 (0)848 800998 (German service)  
E-mail: [support.ch@tp-link.com](mailto: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)

## Malaysia

Tel: 1300 88 875465 (1300 88TPLINK)  
Email: [support.my@tp-link.com](mailto:support.my@tp-link.com)  
24 hours a day, 7 days a week

## Australia & New Zealand

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

## USA/Canada

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

## UK

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

## Germany/Austria

Tel: +49 1805 875465 (German Service) / +49 1805 TPLINK  
E-mail: [support.de@tp-link.com](mailto: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: GMT+ 1 or GMT+ 2 (Daylight Saving Time in Germany)  
Except bank holidays in Hesse