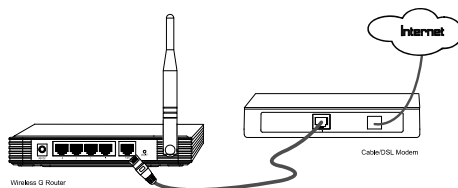# Installation

Connecting the device

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

1 Connect the WAN port on your Router to the Modem's LAN port with an Ethernet cable.

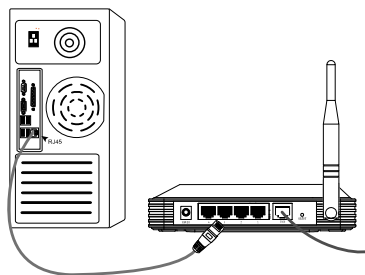Wireless G Router

Internet

Cable/DSL Modem

Note If connecting the TL-WR543G to the WISP (Wireless Internet Service Provider), please skip to the next step.
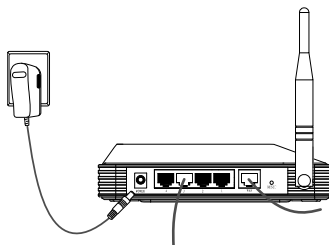
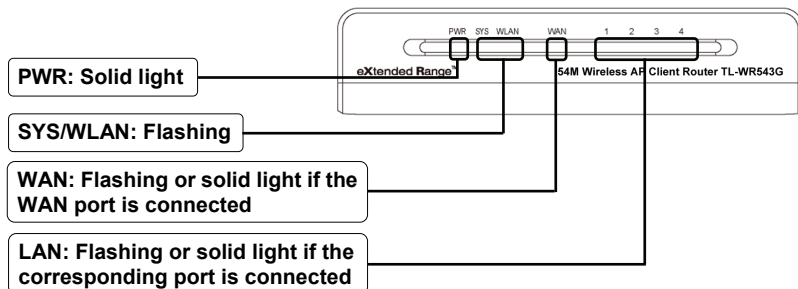**2** Connect your computer to the TL-WR543G with an Ethernet cable.

RJ45

3 Plug the provided Power Adapter into the Power jack on the back of the Router and the other end to a standard electrical wall socket.

4 Turn on all of your network devices, including your computer, Modem and the Router then check to see if the LEDs of the Router display normally as the digram below describes.

PWR: Solid light

SYS/WLAN: Flashing

WAN: Flashing or solid light if the WAN port is connected

LAN: Flashing or solid light if the corresponding port is connected

PWR SYS WLAN WAN 1 2 3 4

eXtended Range® 54M Wireless AP Client Router TL-WR543G

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.
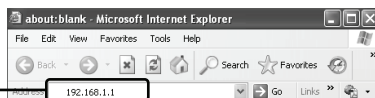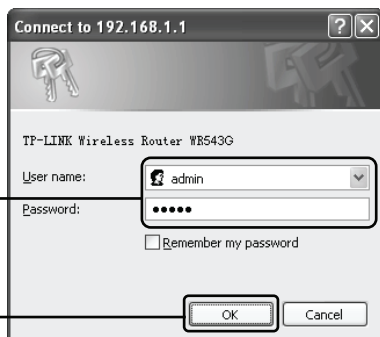
2 Configuring the device

1 **Login**

Open your web browser, type in **http://192.168.1.1/** in the address field and press **Enter**.

about:blank - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back · · Search Favorites

Address 192.168.1.1 Go Links »

A dialog box will prompt you for the **User name** and **Password**. Enter the default values and click **OK**.
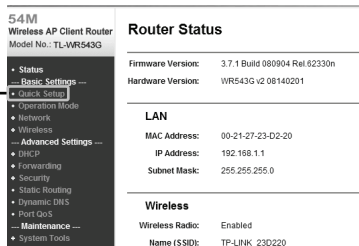
Connect to 192.168.1.1

TP-LINK Wireless Router WR543G

User name: ☺ admin

Password: •••••

☐ Remember my password

| User name: admin
| Password: admin

OK   Cancel

Click **OK**

Note If the dialog box does not pop up, please refer to **T3** in the **Troubleshooting** guide on page 8. **T2** will help you if you forget the password.

The web management page will display after a successful login.

Click **Quick Setup**

54M
Wireless AP Client Router
Model No.: TL-WR543G

• Status
--- Basic Settings ---
• Quick Setup
• Operation Mode
• Network
• Wireless
--- Advanced Settings ---
• DHCP
• Forwarding
• Security
• Static Routing
• Dynamic DNS
• Port QoS
--- Maintenance ---
• System Tools

Router Status

| Firmware Version: | 3.7.1 Build 080904 Rel.62330n |
| Hardware Version: | WR543G v2 08140201 |

LAN

MAC Address:	00-21-27-23-D2-20
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0

Wireless

| Wireless Radio: | Enabled |
| Name (SSID): | TP-LINK_23D220 |

2 Internet Parameters Configuration

This page will then display.

Click **Next**

Choose the operation mode for the TL-WR543G.

AP Client Router mode is for connecting to the WISP (Wireless Internet Service Provider);

AP Router is for connecting to the common ISP using cable connection.

Click **Next**

Choose the **Connection Type** given by your ISP.

If **PPPoE** is selected, please proceed to **A**;

If **Dynamic IP** is selected, please skip to **B**;

If **Static IP** is selected, please skip to **C.**

Click **Next**

Note 1. If you did not get the **Connection Type** information, please contact your ISP for this information.

2. If your ISP provides other connection types such as PPTP, L2TP or BigPond (or Heart Beat Signal), you should go to **"Network > WAN"** to configure your connection type referring to the User Guide on the Resource CD provided.

A   Configuration for PPPoE

If you select **PPPoE**, this page
will then display.

Enter the **Account Name**
and **Password** provided
by your ISP.

Click **Next**

54M
Wireless AP Client Router
Model No.: TL-WR543G

Quick Setup - PPPoE

• Status
— Basic Settings —
• Quick Setup
• Operation Mode
♦ Network
♦ Wireless

Account Name:
Password:

Back   Next

B   Configuration for Dynamic IP

If you select **Dynamic IP**, you will be prompted to configure the wireless settings as
seen in section 3 Wireless Settings Confituration.

C   Configuration for Static IP

If you select **Static IP**, this page
will then display.

Enter the **IP Address**,
Subnet Mask, **Gateway**,
DNS provided by your ISP
manually.

Click **Next**

54M
Wireless AP Client Router
Model No.: TL-WR543G

Quick Setup - Static IP

• Status
— Basic Settings —
• Quick Setup
• Operation Mode
♦ Network
♦ Wireless
— Advanced Settings —
♦ DHCP
♦ Forwarding
♦ Security

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

Back   Next

③ Wireless Settings Configuration

This page will then display

Keep the default setting **Enable**. If you want to disable wireless, please select **Disable**.

Create a unique and easy to remember name for your wireless network. You can also keep the default setting without the device being affected.

Select your region from the drop-down list.

Click **Next**

54M
Wireless AP Client Router
Model No.: TL-WR543G

- Status
- --- Basic Settings ---
- Quick Setup
- Operation Mode
- Network
- Wireless
- --- Advanced Settings ---
- DHCP
- Forwarding
- Security
- Static Routing
- Dynamic DNS
- Port QoS

Quick Setup - Wireless

If you modify the following settings, please reboot the router manually to take...

Wireless Radio:	Enable
SSID:	TP-LINK_23D220
Region:	United States
Channel:	6
Mode:	54Mbps (802.11g)

Back   Next

Note

1. The wireless security has not yet been configured in the above steps. You are suggested to finish this configuration first and then refer to **Appendix Wireless Security Setup** on page 15 to configure the wireless security.
2. In AP Client mode, only the SSID can be changed according to the WISP.

Click **Finish**

54M
Wireless AP Client Router
Model No.: TL-WR543G

- Status
- --- Basic Settings ---
- Quick Setup
- Operation Mode
- Network
- Wireless

Quick Setup - Finish

Congratulations! The router is now connecting you to the Internet. For detail settings, please contact other menus if necessary.

Back   Finish

3   Testing the Internet Connection

The basic settings for your Router are completed. Please open the web browser and log on to the following websites:
http://www.tp-link.com
http://www.google.com

If the above websites can be accessed, it indicates that your Router has been configured successfully and you can begin to enjoy the Internet. If the website cannot be accessed, please refer to **"T4. What can I do if I cannot access the Internet?"** in the **Troubleshooting** guide on page 13.

Note   For advanced configurations, please refer to the User Guide on the Resource CD provided.

Note   The above configurations only need to be set once. If you want other computers in your network to access the Internet, please connect the desired computer to the Router directly. If the additional computer can not access the Internet, please set that computer referring to **"T3. What can I do if I cannot access the web-based configuration page?"** in the **Troubleshooting** guide on page 8.

Troubleshooting

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

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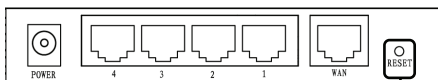
Press it for 8 to 10 seconds

Note Once the Router is reset, the current configuration settings will be lost and you will need to re-configure the Router.

T2. What can I do if I don't know or forgot my password?

1) Restore the Router's configuration to its factory default settings. If you don't know how to do that, please refer to section **T1**.

2) Use the default user name and password: **admin**, **admin**.

3) Try to configure your Router once again by following the instructions in the previous steps of the QIG.
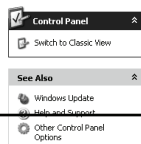
T3. What can I do if I cannot access the web-based configuration page?
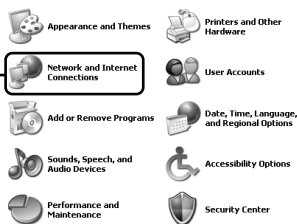
1) Configure your computer's IP Address.
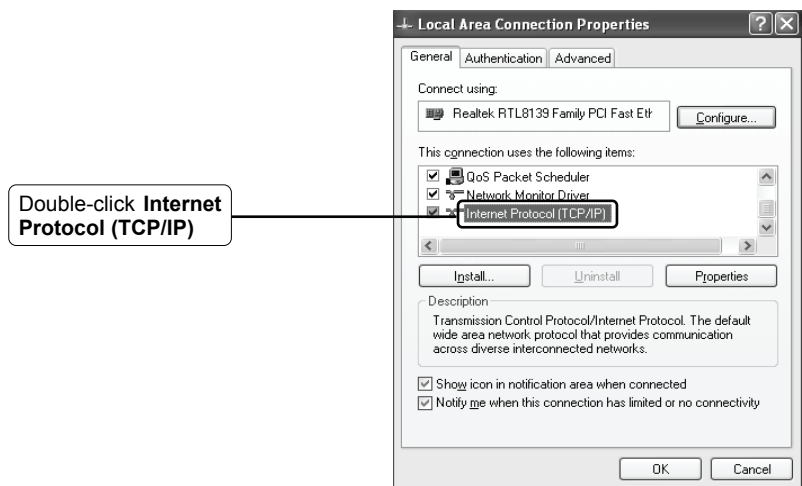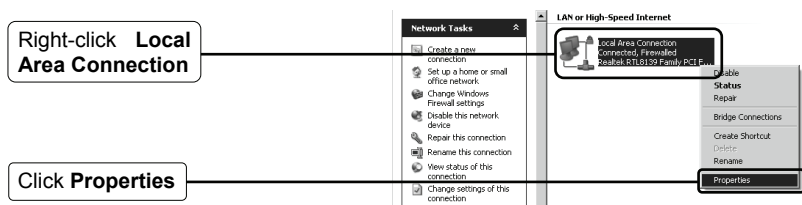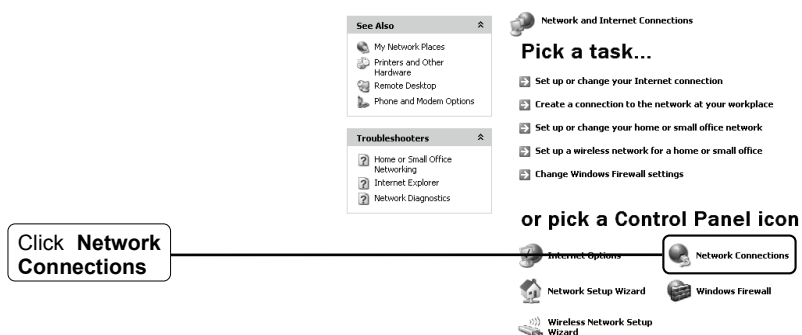
<u>For Windows XP OS</u>

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

Click **Network and Internet Connections**

See Also ⋀
My Network Places
Printers and Other Hardware
Remote Desktop
Phone and Modem Options

Troubleshooters ⋀
Home or Small Office Networking
Internet Explorer
Network Diagnostics

Network and Internet Connections

Pick a task...

Set up or change your Internet connection

Create a connection to the network at your workplace

Set up or change your home or small office network

Set up a wireless network for a home or small office

Change Windows Firewall settings

or pick a Control Panel icon

Internet Options

Network Connections

Network Setup Wizard

Windows Firewall

Wireless Network Setup Wizard

Click **Network Connections**

Right-click **Local Area Connection**

Network Tasks ⋀
Create a new connection
Set up a home or small office network
Change Windows Firewall settings
Disable this network device
Repair this connection
Rename this connection
View status of this connection
Change settings of this connection

LAN or High-Speed Internet

Local Area Connection
Connected, Firewalled
Realtek RTL8139 Family PCI Fa...

Disable
Status
Repair
Bridge Connections
Create Shortcut
Delete
Rename
Properties

Click **Properties**

Local Area Connection Properties

General | Authentication | Advanced

Connect using:

Realtek RTL8139 Family PCI Fast Eth   [Configure...]

This connection uses the following items:

☑ QoS Packet Scheduler
☑ Network Monitor Driver
☑ Internet Protocol (TCP/IP)

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

[Install...] [Uninstall] [Properties]

Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

☑ Show icon in notification area when connected
☑ Notify me when this connection has limited or no connectivity
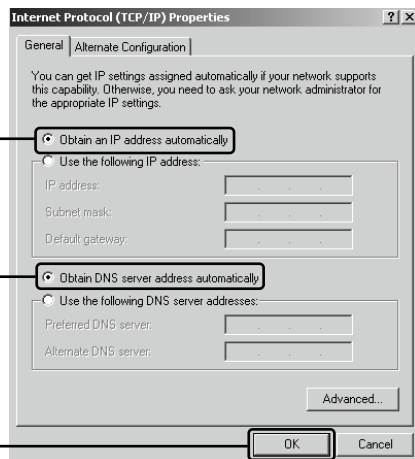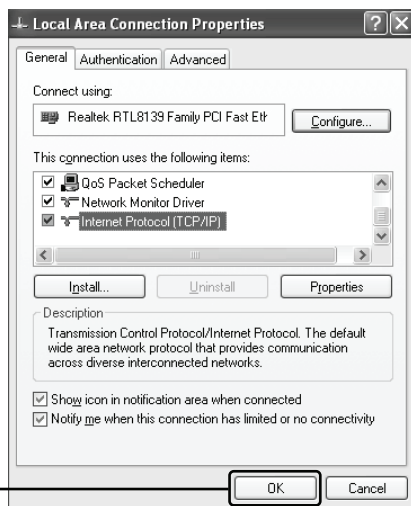
[OK] [Cancel]

9

Select **Obtain an IP address automatically**

Select **Obtain DNS server address automatically**

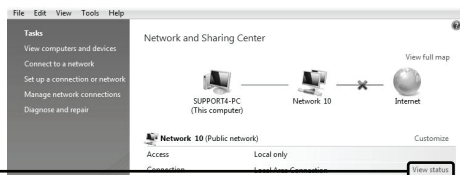Click **OK**

Click **OK**

For Windows Vista OS

Go to **Start** > **Settings** > **Control Panel**, and then you will see the following page.
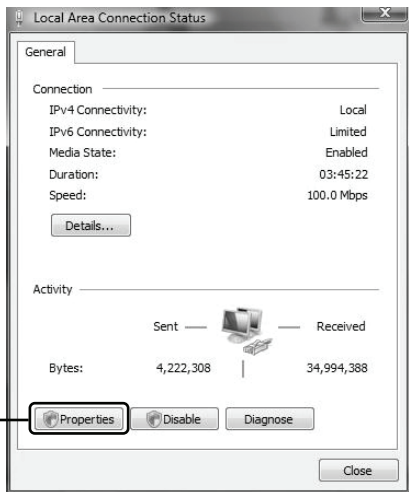
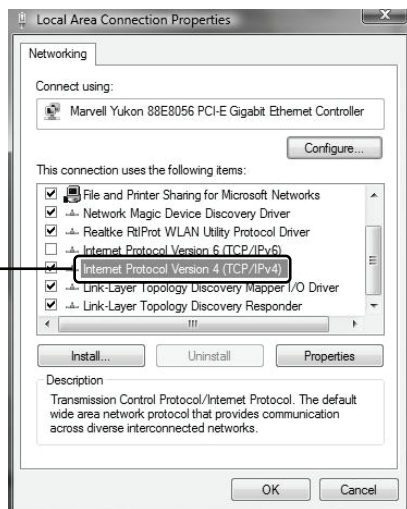Click **View network status and tasks**
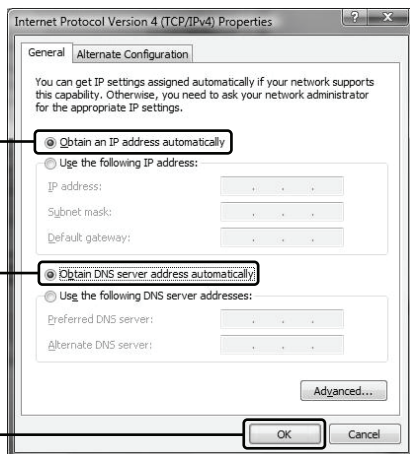
Click **View status**

Click **Properties**

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

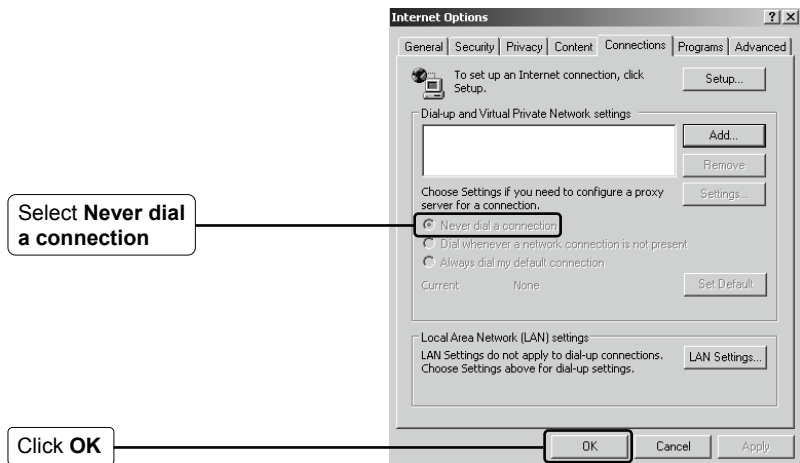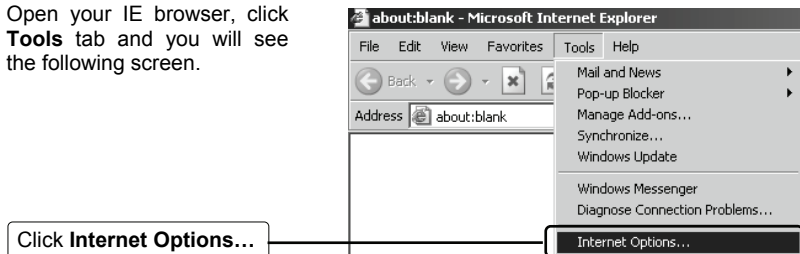Select **Obtain an IP address automatically**

Select **Obtain DNS server address automatically**

Click **OK**

2) Configure your IE browser

Open your IE browser, click **Tools** tab and you will see the following screen.

Click **Internet Options…**

Select **Never dial a connection**

Click **OK**

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 Router's factory default settings and reconfigure your Router following the instructions of this QIG. Please feel free to contact our Technical Support if the problem persists.

T4. What can I do if I cannot access the Internet?

1) Check to see if all the connectors are connected well, including the telephone line (for your modem), Ethernet cables and power adapter.

2) Check to see if you can access the Router's web management page. If you can, please follow the following steps to solve the problem. If you can't, please set your computer referring to section **T3** then try to access the Internet again. If the problem persists, please go to the next step.

3) Make sure that you are connected to the TP-LINK Router with the computer that was originally connected to your modem, then log on to the web-based management page and browse to **"Network > MAC Clone"**, click **"Clone MAC address"** and then click **"Save"**. The Router will then reboot and you may try to access the Internet from your computer. If the problem persists, please go to the next step.

4) Some modems use the same LAN IP range (192.168.1.x) as TP-LINK Router, it will cause IP address conflict between the two devices. To avoid the problem, please log on to the web-based management page and browse to **"Network > LAN"**, change the default LAN IP address from 192.168.1.1 to 192.168.x.1 **(x can be any number from 2 to 254)** to avoid an IP conflict with your Modem. Click the **"Save"** button. The Router will then reboot and you may try to access the Internet from your computer. Please note that the Router can only be accessed using the new LAN IP address (192.168.x.1).

5) Please feel free to contact our Technical Support if the problem persists.

Appendix Wireless Security Setup

Log on to the WEB Management page. Click **Wireless Settings** on the leftmost side.

Click **Wireless Settings**

Check **Enable Wireless Security** box.

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

Enter a security key using more than 8 characters (using numbers or letters).

Click **Save**

15

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, 7days a week

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

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

Australia & New Zealand
Tel:　AU 1300 87 5465
　　　NZ 0800 87 5465
E-mail: support@tp-link.com.au
Service time: Monday to Friday 9:00 AM to 9:00 PM AEST

USA/Canada
Toll Free: +1 866 225 8139
E-mail: 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
Service time: 24hrs, 7days a week