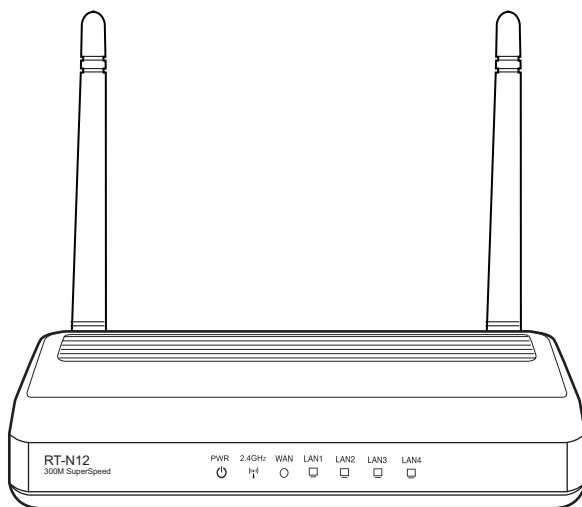




**RT-N12**  
**ASUS Wireless SuperSpeed N Router**



**User Manual**

E4809

First Edition V1

July 2009

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# About this guide

This user guide contains information that you need to install and configure the ASUS Wireless Router.

# How this guide is organized

This guide contains the following parts:

- **Chapter 1: Knowing your wireless router**

This chapter provides information on the package contents, system requirements, hardware features, and LED indicators of the ASUS Wireless Router.

- **Chapter 2: Getting started**

This chapter provides instructions on setting up the Router, Repeater, and Access Point modes of the ASUS Wireless Router.

- **Chapter 3: Configuring the network clients**

This chapter provides instructions on setting up the clients in your network to work with your ASUS Wireless Router.

- **Chapter 4: Configuring via the web GUI**

This chapter provides instructions on configuring the ASUS Wireless Router using its web graphics user interface (web GUI).

- **Chapter 5: Installing the utilities**

This chapter provides information on the utilities that are available from the support CD.

- **Chapter 6: Troubleshooting**

This chapter provides you with a troubleshooting guide for solving common problems you may encounter when using the ASUS Wireless Router.

- **Appendices**

This chapter provides you with the regulatory Notices and Safety Statements.

## Conventions used in this guide



**WARNING:** Information to prevent injury to yourself when trying to complete a task.



**CAUTION:** Information to prevent damage to the components when trying to complete a task.



**IMPORTANT:** Instructions that you **MUST** follow to complete a task.



**NOTE:** Tips and additional information to aid in completing a task.

# 1

## Knowing your wireless router

### Package contents

Check the following items in your ASUS Wireless Router package.

- ☒ RT-N12 Wireless Router x1
- ☒ Power adapter x1
- ☒ Support CD (manual, utilities) x1
- ☒ RJ45 cable x1
- ☒ Detachable antenna x2
- ☒ Quick Start Guide x1



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**Note:** If any of the items is damaged or missing, contact your retailer.

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### System requirements

Before installing the ASUS Wireless Router, ensure that your system/network meets the following requirements:

- An Ethernet RJ-45 port (10Base-T/100Base-TX)
- At least one IEEE 802.11b/g/n device with wireless capability
- An installed TCP/IP and Internet browser

### Before you proceed

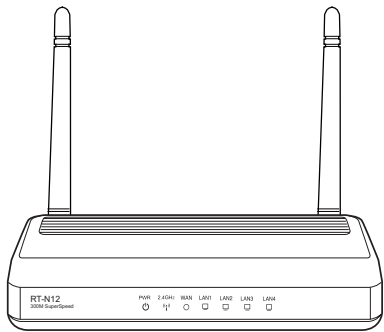
Take note of the following guidelines before installing the ASUS Wireless Router:

- The length of the Ethernet cable that connects the device to the network (hub, ADSL/cable modem, router, wall patch) must not exceed 100 meters.
- Place the device on a flat and stable surface as far from the ground as possible.
- Keep the device clear from metal obstructions and away from direct sunlight.
- Keep the device away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal loss.
- Install the device in a central area to provide ideal coverage for all wireless mobile devices.





- Install the device at least 20cm from a person to insure that the product is operated in accordance with the RF Guidelines for Human Exposure adopted by the Federal Communications Commission.

# Hardware features

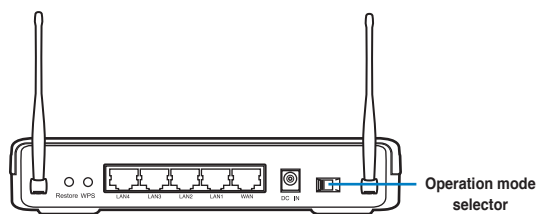
## Front panel



## Status indicators

LED	Status	Indication
 (Power)	Off	No power
	On	System ready
	Flashing-slow	Rescue mode
	Flashing-quick	WPS processing
 (Wireless)	Off	No power
	On	Wireless system ready
	Flashing	Transmitting or receiving data (wireless)
 LAN 1-4 (Local Area Network)	Off	No power or no physical connection
	On	Has physical connection to an Ethernet network
	Flashing	Transmitting or receiving data (through Ethernet cable)
 WAN (Wide Area Network)	Off	No power or no physical connection
	On	Has physical connection to an Ethernet network
	Flashing	Transmitting or receiving data (through Ethernet cable)

# Rear panel

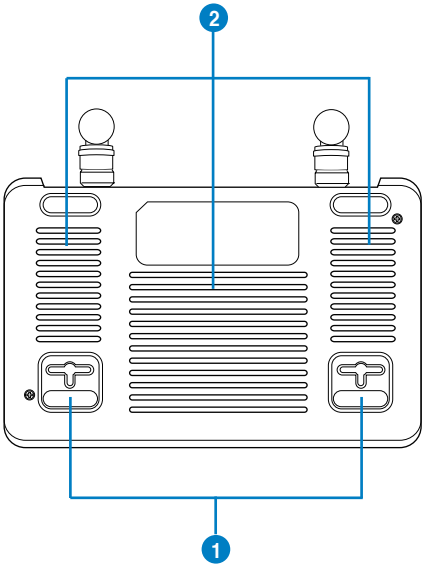


Label	Description
WAN	Connect an RJ-45 Ethernet cable to this port to establish WAN connection.
LAN1-LAN4	Connect RJ-45 Ethernet cables to these ports to establish LAN connection.
DC IN	Insert the AC adapter into this port to connect your router to a power source.
WPS	Press this button to establish wireless connection.
Restore	Press this button for more than five seconds to restore the system to its factory default settings.

Item	Description
Operation mode selector	<p>Use this selector to choose an operation mode:</p> <p><b>Router (IP Sharing mode):</b> In the Router mode, the wireless router connects to the Internet via PPPoE, Automatic IP, PPTP, L2TP, or Static IP, and provides you with wireless radio signal. The NAT, firewall, and IP sharing services for LAN clients are enabled.</p> <p><b>Repeater:</b> In this mode, the wireless router extends your wireless network coverage and provides you with higher quality wireless radio signal. The NAT, firewall, and IP sharing services are disabled.</p> <p><b>Access Point (AP):</b> In this mode, the wireless router receives the WAN IP address from the router connected to the WAN port and provides you with wireless radio signal. The NAT, firewall, and IP sharing services are disabled.</p>



# Bottom panel



Item	Description
1	<b>Mounting hooks</b> Use the mounting hooks to mount your router on concrete or wooden surfaces using two round head screws.
2	<b>Air vents</b> These vents provide ventilation to your router.



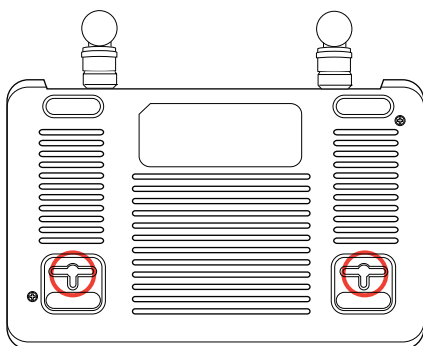
**Note:** For details on mounting your router on a wall or ceiling, refer to the section **Mounting options** on the next page of this user manual.

# Mounting options

Out of the box, the ASUS Wireless Router is designed to sit on a raised flat surface like a file cabinet or book shelf. The unit may also be converted for mounting to a wall or ceiling.

## To mount the ASUS Wireless Router:

1. Look on the underside for the two mounting hooks.
2. Mark two upper holes in a flat surface.
3. Tighten two screws until only 1/4" is showing.
4. Latch the hooks of the ASUS Wireless Router onto the screws.



**Note:** Re-adjust the screws if you cannot latch the ASUS Wireless Router onto the screws or if it is too loose.

# Getting started 2

## Setting up the wireless router

The ASUS Wireless Router includes a web graphics user interface (web GUI) that allows you to configure the wireless router using your web browser on your computer.



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**Note:** For details on configuring your wireless router using the web GUI, refer to **Chapter 4: Configuring via the web GUI**.

---

You can set up the wireless router in any of these three operation modes: Router (IP Sharing), Repeater, and Access Point (AP). Set up the wireless router in the Router (IP Sharing) and Repeater modes via the Quick Internet Setup (QIS), and the AP mode via the web GUI.



---

**Note:** To set up the wireless router in the AP mode, use Device Discovery included in the support CD to access the web GUI.

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## Using the Quick Internet Setup (QIS)

The Quick Internet Setup (QIS) function, which is integrated in the wireless router's web GUI, detects the Internet connection type automatically and guides you in setting up your network quickly.

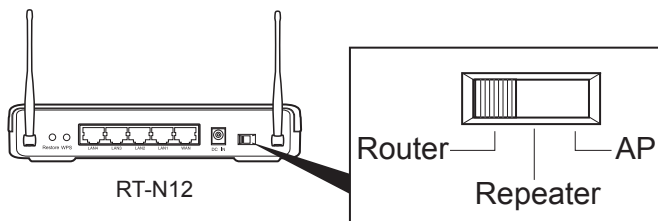
The QIS web page appears automatically after you connected all your devices and launched your web browser. You may also launch the QIS from the Network Map page in the web GUI. To do this, click **Go** in the QIS field under Internet status.

## Setting up the wireless router in Router mode

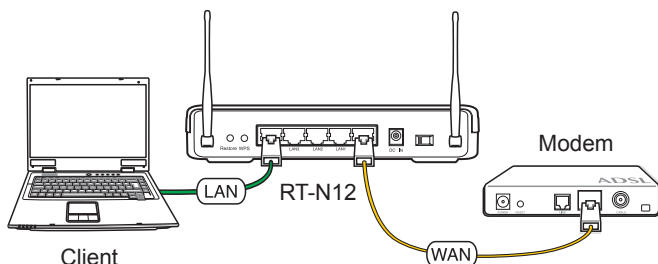
In the Router mode, the wireless router connects to the Internet via PPPoE, Automatic IP, PPTP, L2TP, or Static IP, and provides you with wireless radio signal. The NAT, firewall, and IP sharing services for LAN clients are enabled.

### To set up the wireless router in Router mode:

1. Choose the Router mode.

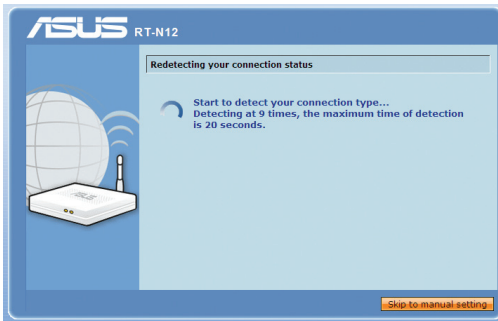


2. Connect your devices.



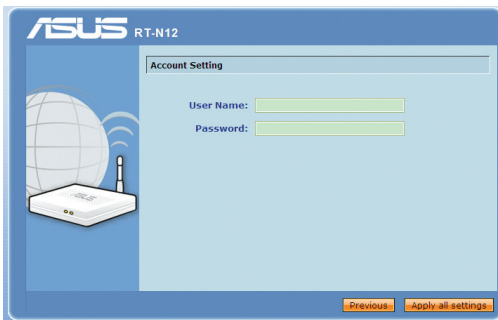
**Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

3. Launch your web browser and the QIS starts to detect your Internet connection type.



**Note:** If the QIS web page does not appear after you launched your web browser, disable the proxy settings on your web browser.

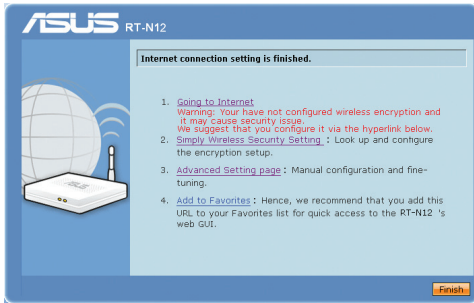
4. Key in the user name and password. Click **Apply all settings**.



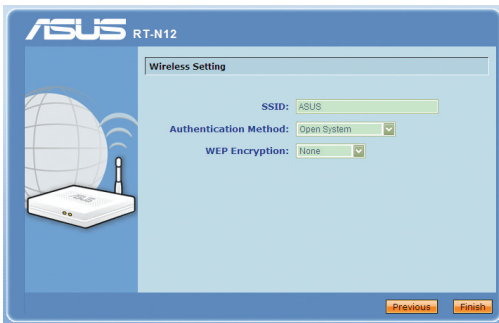
**Note:**

- The PPPoE Internet connection type is used in this setup case. The setup screen varies with different Internet connection types.
- Obtain the required information such as the username and password from your Internet Service Provider (ISP).

5. The Internet connection setup is completed.



- Click **Going to Internet** to surf the Internet.
- Click **Simply Wireless Security Setting** to configure the basic security settings including the SSID, authentication, and encryption methods for the wireless router.



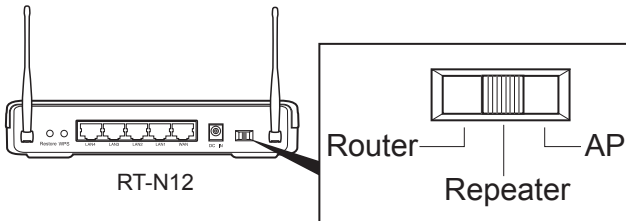
- Click **Advanced Setting page** to manually configure advanced settings for the wireless router.
- Click **Add to Favorites** to add this URL to your Favorites list for quick access to the web GUI.

## Setting up the wireless router in Repeater mode

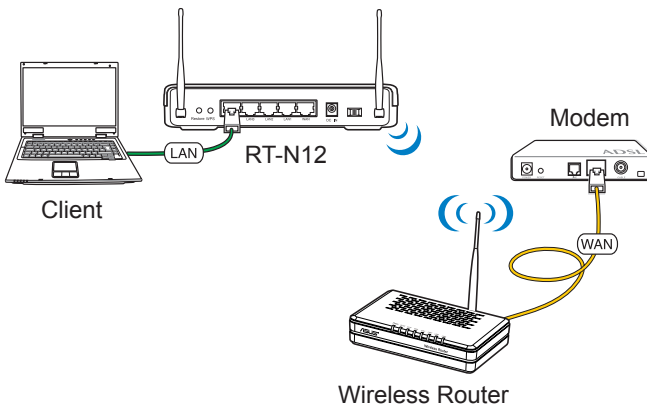
In the Repeater mode, the wireless router extends your wireless network coverage and provides you with higher quality wireless radio signal. The NAT, firewall, and IP sharing services are disabled.

**To set up the wireless router in Repeater mode:**

1. Choose the Repeater mode.

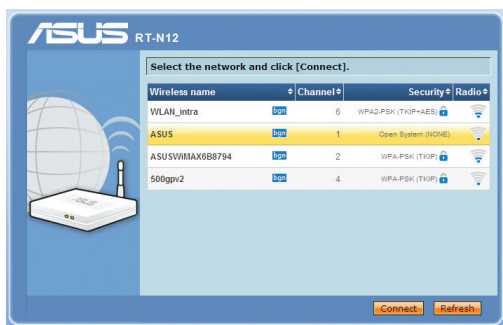


2. Connect your devices.



**Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

3. Launch your web browser and the QIS web page appears automatically. Select the AP whose wireless signal you want to extend, then click **Connect**.



**Note:** If the QIS web page does not appear after you launched your web browser, disable the proxy settings on your web browser.



## Setting up the wireless router in AP mode

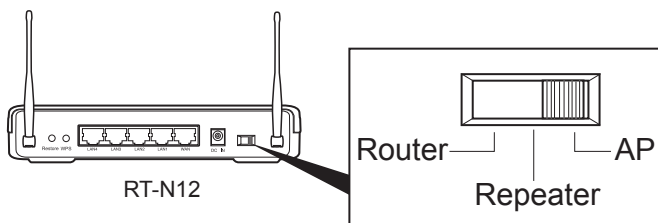


**Note:** To set up the wireless router in the AP mode, use Device Discovery included in the support CD to access the web GUI.

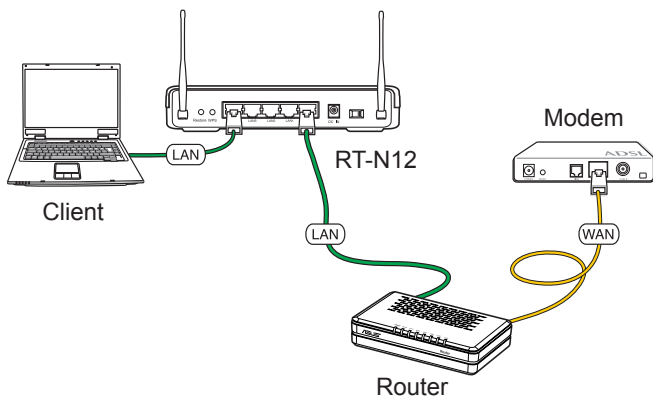
In the AP mode, the wireless router receives the WAN IP address from the router connected to the WAN port and provides you with wireless radio signal. The NAT, firewall, and IP sharing services are disabled.

### To set up the wireless router in AP mode:

1. Choose the AP mode.

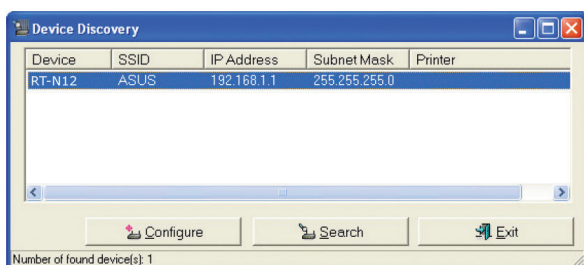


2. Connect your devices.



**Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

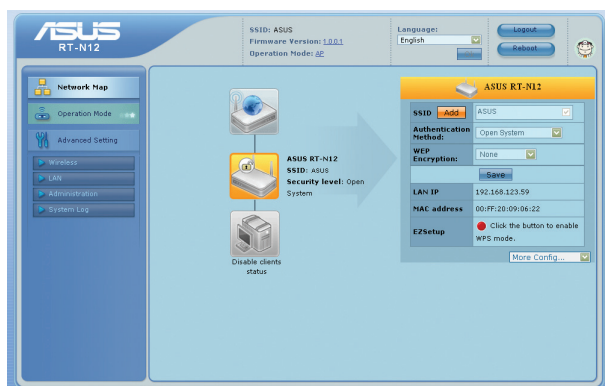
3. Launch the Device Discovery utility and click **Configure** to access the web GUI.



4. On the login page, key in the default user name (**admin**) and password (**admin**).



5. From the main page, click the navigation menu or links to configure the various features of the wireless router.



# 3

## Configuring the network clients

### Accessing the wireless router

#### Setting an IP address for wired or wireless clients

To access the ASUS Wireless Router, you must have the correct TCP/IP settings on your wired or wireless clients. Ensure that the clients' IP addresses are within the same subnet as the ASUS Wireless Router.

By default, the ASUS Wireless Router integrates the DHCP server function, which automatically assigns IP addresses to the clients in your network.

But in some instances, you may want to manually assign static IP addresses on some of the clients or computers in your network rather than automatically getting IP addresses from your wireless router.

Follow the instructions below that correspond to the operating system installed on your client or computer.



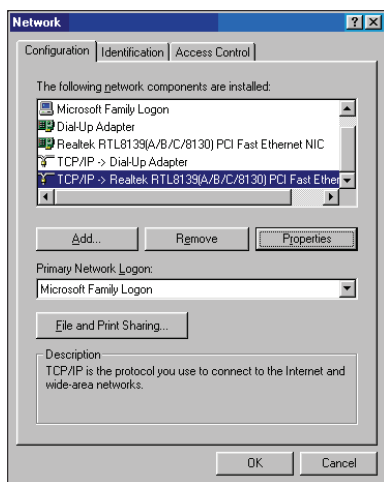
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**Note:** In the Router mode, if you want to manually assign an IP address to your client, we recommend that you use the following settings:

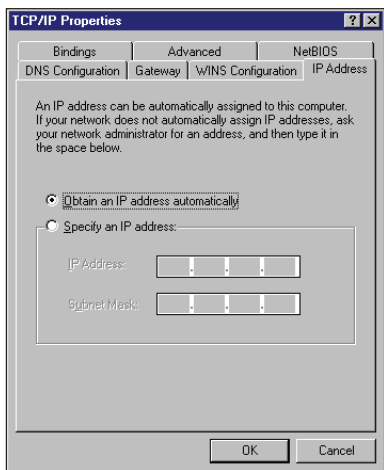
- **IP address:** 192.168.1.xxx (xxx can be any number between 2 and 254. Ensure that the IP address is not used by another device)
  - **Subnet Mask:** 255.255.255.0 (same as the ASUS Wireless Router)
  - **Gateway:** 192.168.1.1 (IP address of the ASUS Wireless Router)
  - **DNS:** 192.168.1.1 (ASUS Wireless Router) or assign a known DNS server in your network
-

## Windows® 9x/ME

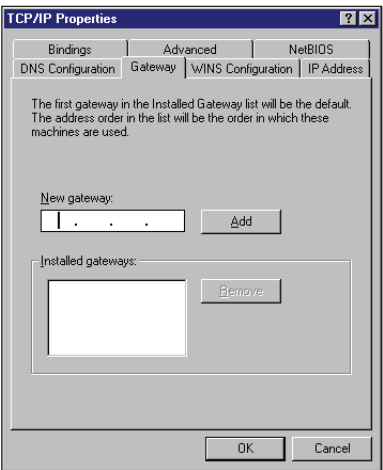
1. Click **Start > Control Panel > Network** to display the Network setup window.
2. Select **TCP/IP** then click **Properties**.



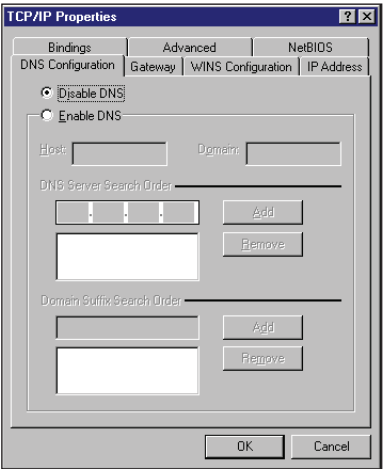
3. If you want your computer to automatically obtain an IP address, click **Obtain an IP address automatically** then click OK. Otherwise, click **Specify an IP address**, then key in the **IP address** and **Subnet Mask**.



4. Select the **Gateway** tab, and key in **New gateway** then click **Add**.

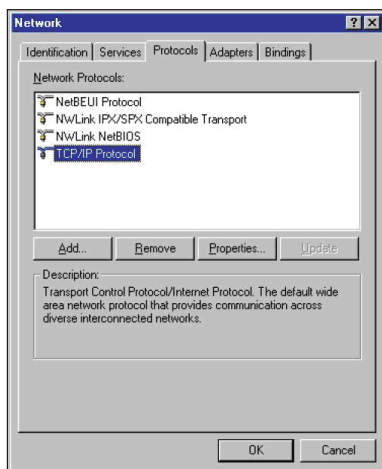


5. Select the **DNS configuration** tab and click **Enable DNS**. Key in **Host**, **Domain**, and **DNS Server Search Order**, then click **Add**.
6. Click **OK**.

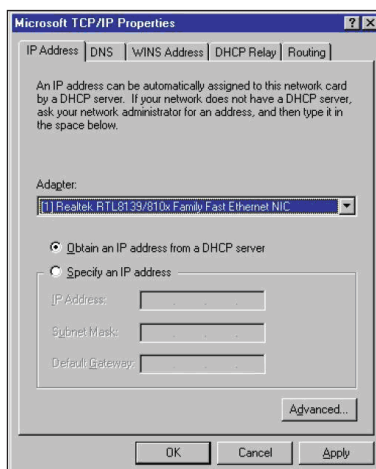


## Windows® NT4.0

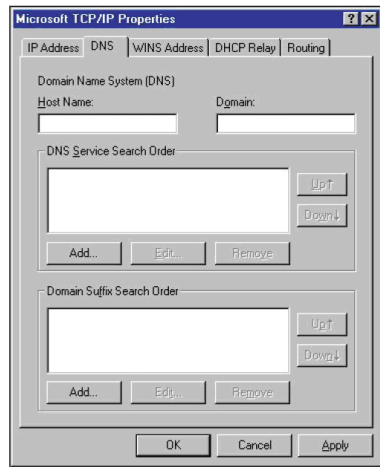
1. Go to **Control Panel > Network** to display the Network setup window then select the **Protocols** tab.
2. Select **TCP/IP Protocol** from the Network Protocols list then click **Properties**.



3. From the IP Address tab of the Microsoft TCP/IP Properties window, you can:
  - Select the type of network adapter installed in your system.
  - Set the router to assign IP address automatically.
  - Manually set up the IP address, subnet mask, and default gateway.

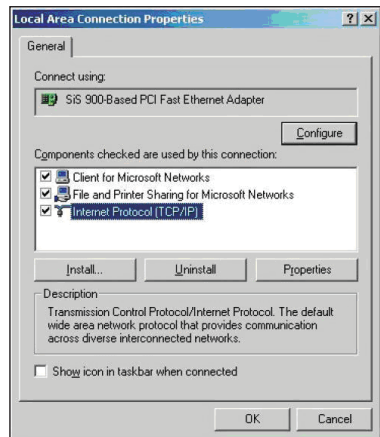


4. Select the **DNS** tab then click **Add** under the **DNS Service Search Order** and key in DNS.

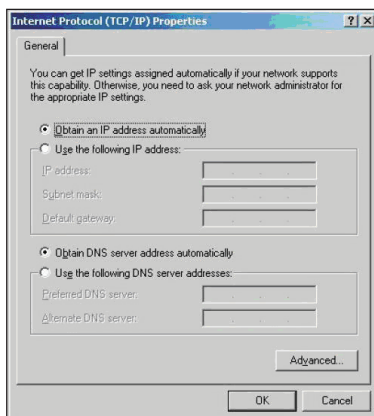


## Windows® 2000

1. Click **Start > Control Panel > Network and Dial-up Connection**. Right-click **Local Area Connection** then click **Properties**.



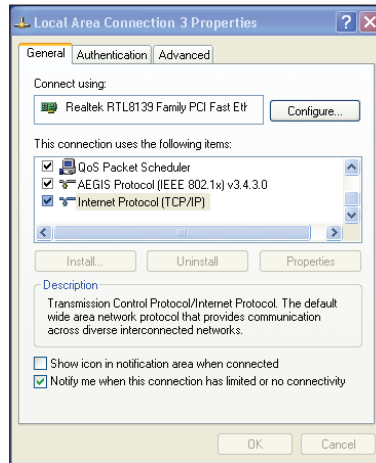
2. Select **Internet Protocol (TCP/IP)**, then click **Properties**.
3. Select **Obtain an IP address automatically** if you want the IP settings to be assigned automatically. Otherwise, select **Use the following IP address:** and key in **IP address**, **Subnet mask**, and **Default gateway**.
4. Select **Obtain DNS server address automatically** if you want the DNS server settings to be assigned automatically. Otherwise, select **Use the following DNS server addresses:** and key in the **Preferred** and **Alternate DNS server**.
5. Click **OK** when done.



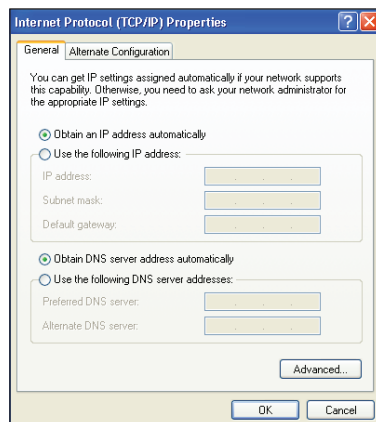


## Windows® XP

1. Click **Start > Control Panel > Network Connection**. Right-click **Local Area Connection** then select **Properties**.

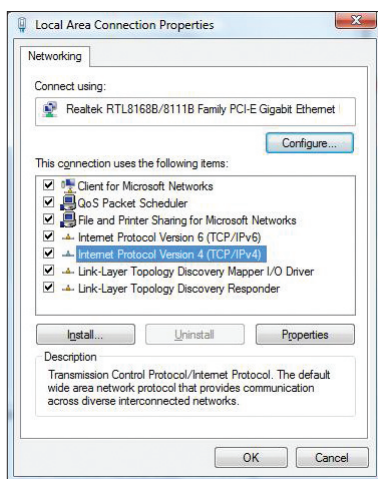


2. Select **Internet Protocol (TCP/IP)**, then click **Properties**.
3. Select **Obtain an IP address automatically** if you want the IP settings to be assigned automatically. Otherwise, select **Use the following IP address:** and key in **IP address**, **Subnet mask**, and **Default gateway**.
4. Select **Obtain DNS server address automatically** if you want the DNS server settings to be assigned automatically. Otherwise, select **Use the following DNS server addresses:** and key in the **Preferred and Alternate DNS server**.
5. Click **OK** when done.

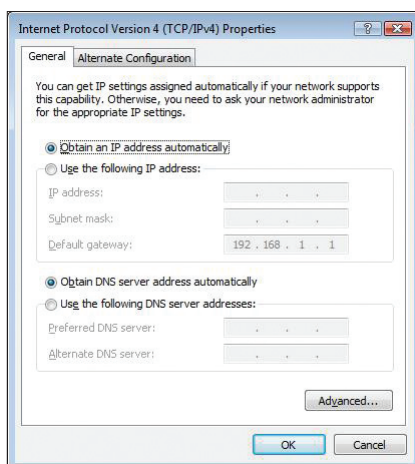


## Windows® Vista

1. Go to **Start > Control Panel > Network and Internet > Network and Sharing Center**. Click **View status > Properties > Continue**.



2. Select **Internet Protocol Version 4 (TCP/IPv4)**, then click **Properties**.
3. Select **Obtain an IP address automatically** if you want the IP settings to be assigned automatically. Otherwise, select **Use the following IP address:** and key in **IP address** and **Subnet mask**.
4. Select **Obtain DNS server address automatically** if you want the DNS server settings to be assigned automatically. Otherwise, select **Use the following DNS server addresses:** and key in the **Preferred and Alternate DNS server**.
5. Click **OK** when done.



# 4

## Configuring via the web GUI

### Configuring via the web GUI

The router's web graphics user interface (web GUI) allows you to configure these features: **Network Map** and **EZQoS Bandwidth Management**.

#### To access the web GUI:

1. Launch a web browser, then key in the router's IP address. The login page of the router's web GUI appears.

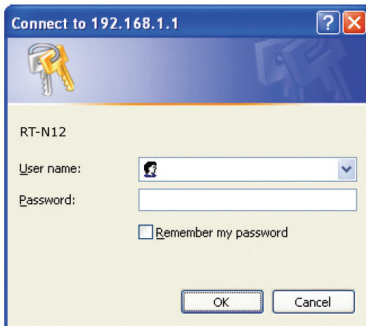


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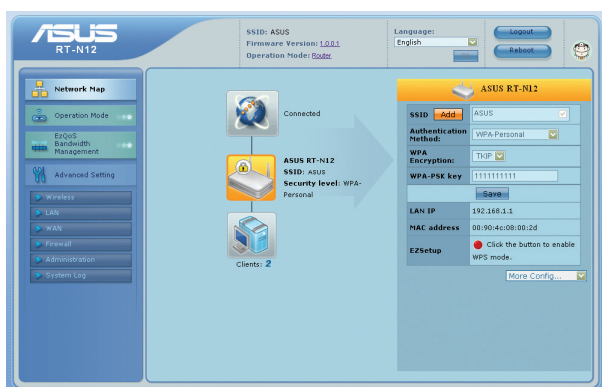
**Note:**

- In the Router mode, the router's IP address is 192.168.1.1.
  - In the Repeater and AP modes, use Device Discovery included in the support CD to find the router's IP address.
- 

2. On the login page, key in the default user name (**admin**) and password (**admin**).



3. From the main page, click the navigation menu or links to configure the various features of the ASUS Wireless Router.






# Using the Network Map

Network Map allows you to view the status and configure the connection settings of the Internet, system, and clients in your network. It enables you to quickly set up your Wide Area Network (WAN) using the Quick Internet Setup (QIS) feature, or to quickly set up your Local Area Network (LAN) using the WPS Wizard.



**Note:** For more details on the WPS Wizard, refer to the section **WPS Wizard** in Chapter 5 of this user manual.

To view the status or configure the settings, click any of these icons displayed on the main page:

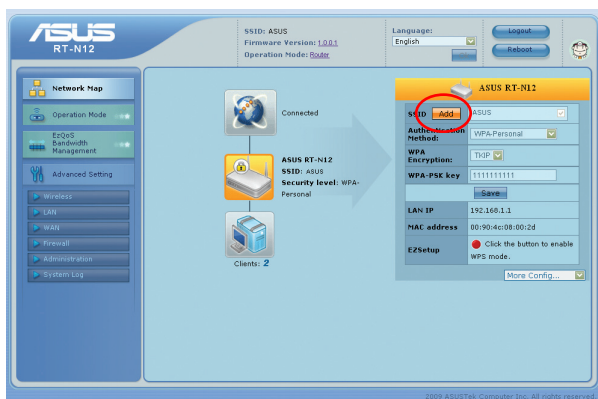
Icon	Description
	<b>Internet status</b> Click this icon to display information on the Internet connection status, WAN IP address, DNS, connection type, and gateway address. From the Internet status screen, use the Quick Internet Setup (QIS) feature to quickly set up your network.
	<b>System status</b> Click this icon to display information on the SSID, authentication and encryption methods, LAN IP, MAC address, or turn the wireless radio on/off. Enable the WPS mode from the System status screen.
	<b>Client status</b> Click this icon to display information about the clients or computers in the network, and allows you to block/unblock a client.

# Creating multiple SSID profiles

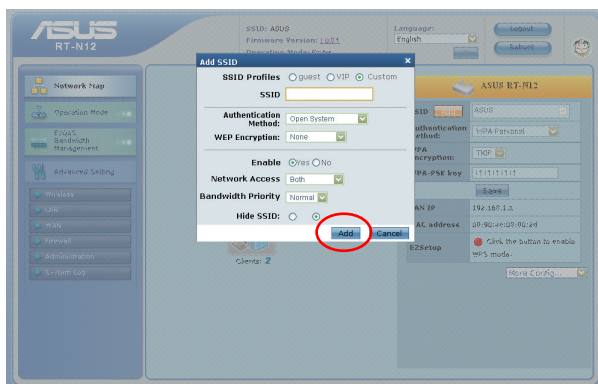
The wireless router allows you to create multiple SSID profiles that meet various working scenarios.

To create an SSID profile:

1. Under **System status**, click **Add**.



2. Configure the profile settings, then click **Add**.

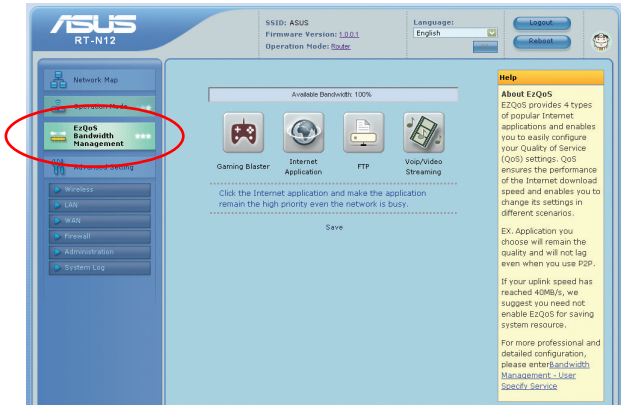


# Managing bandwidth with EzQoS

EzQoS Bandwidth Management enables you to set the bandwidth priority and manage the network traffic.

**To set up the bandwidth priority:**

- 1. Click **EzQoS Bandwidth Management** from the navigation menu at the left side of your screen.



- 2. Click each of these four applications to set the bandwidth priority:

Icon	Description
	<b>Gaming Blaster</b> The router handles gaming traffic at first priority.
	<b>Internet Application</b> The router handles the e-mail, web browsing and other Internet applications traffic at first priority.
	<b>FTP</b> The router handles at first priority the traffic of downloading/ uploading data to/from the FTP server.
	<b>Voip/Video Streaming</b> The router handles the audio/video traffic at first priority.

- 3. Click **Save** to save the configuration settings.

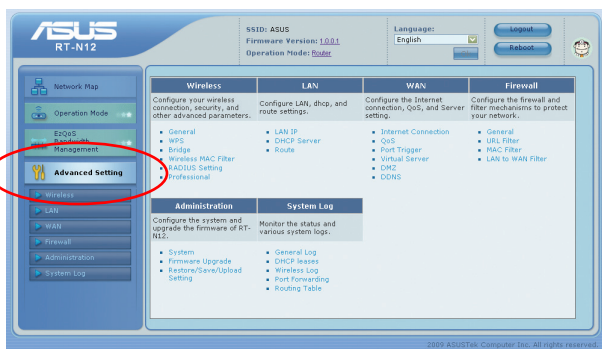
# Upgrading the firmware



**Note:** Download the latest firmware from the ASUS website at <http://www.asus.com>.

## To upgrade the firmware:

1. Click **Advanced Setting** from the navigation menu at the left side of your screen.



2. Under the **Administration** menu, click **Firmware Upgrade**.
3. In the **New Firmware File** field, click **Browse** to locate the new firmware on your computer.
4. Click **Upload**. The uploading process takes about three minutes.



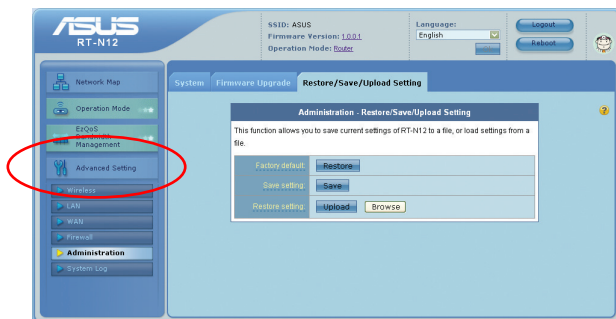
**Note:** If the upgrade process fails, use the Firmware Restoration utility to restore the system. For details on this utility, refer to the section **Firmware Restoration** in Chapter 5 of this user manual.



# Restoring/Saving/Uploading settings

To restore/save/upload the settings:

1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
2. Under the **Administration** menu, click **Restore/Save/Upload Setting**.



3. Select the tasks that you want to do:
  - To restore to the default factory settings, click **Restore**, and click **OK** in the confirmation message.
  - To save the current system settings, click **Save**, and click **Save** in the file download window to save the system file in your preferred path.
  - To restore previous system settings, click **Browse** to locate the system file that you want to restore, then click **Upload**.

# 5

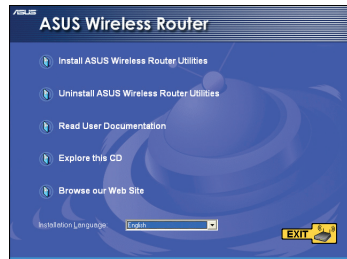
## Installing the utilities

### Installing the utilities

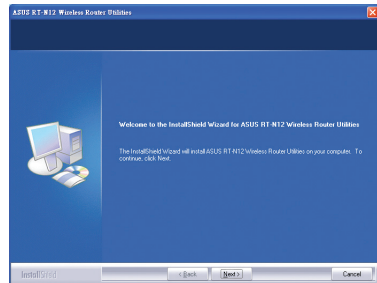
The support CD contains the utilities for configuring the ASUS Wireless Router. To install the ASUS WLAN Utilities in Microsoft® Windows, insert the support CD in the CD drive. If Autorun is disabled, run **setup.exe** from the root directory of the support CD.

To install the utilities:

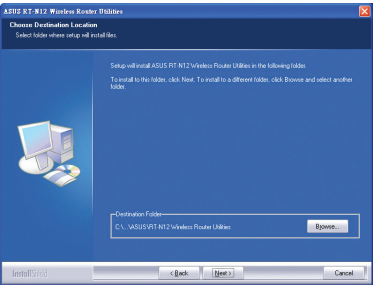
1. Click **Install...Utilities**.



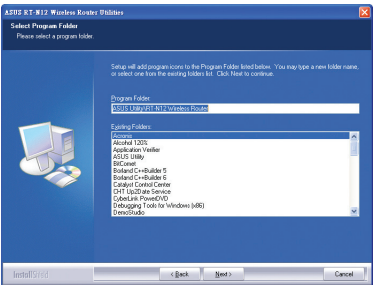
2. Click **Next**.



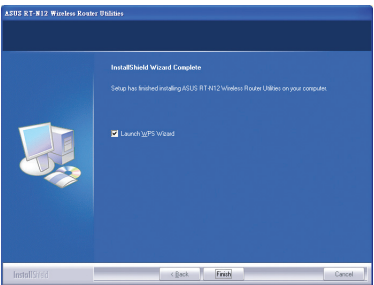
3. Click **Next** to accept the default destination folder or click **Browse** to specify another path.



4. Click **Next** to accept the default program folder or enter another name.



5. Click **Finish** when setup is completed.

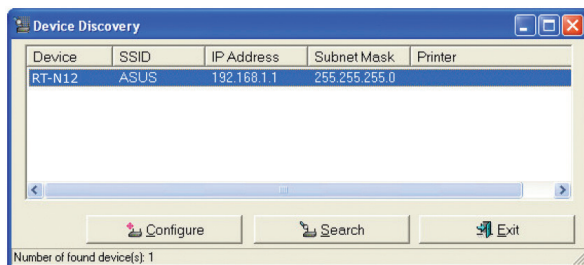


# Device Discovery

Device Discovery is an ASUS WLAN utility that detects an ASUS wireless router and enables you to configure the device.

## To launch the Device Discovery utility:

From your computer's desktop, click **Start > All Programs > ASUS Utility > RT-N12 Wireless Router > Device Discovery**.



- Click **Configure** to access the web GUI and configure the wireless router.
- Click **Search** to search for ASUS wireless routers within range.
- Click **Exit** to exit the application.

# Firmware Restoration

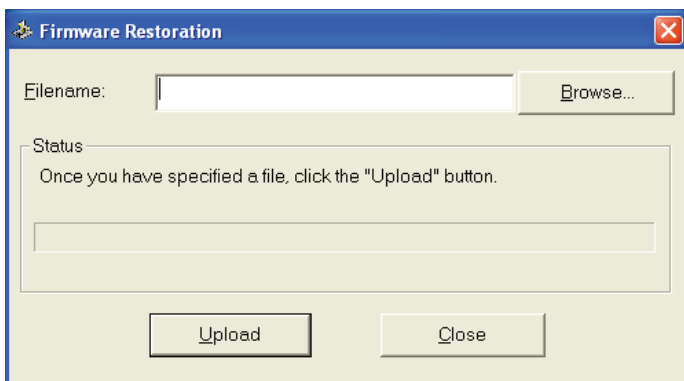
Firmware Restoration is used on an ASUS Wireless Router that failed during its firmware upgrading process. It uploads the firmware that you specify. The process takes about three to four minutes.



**Important:** Launch the rescue mode before using the Firmware Restoration utility.

## To launch the rescue mode and use the Firmware Restoration utility:

1. Unplug the wireless router from the power source.
2. Hold the Restore button at the rear panel and simultaneously re-plug the wireless router into the power source. Release the Restore button when the Power LED at the front panel flashes slowly, which indicates that the wireless router is in the rescue mode.
3. From your computer's desktop, click **Start > All Programs > ASUS Utility > RT-N12 Wireless Router > Firmware Restoration**.



4. Specify a firmware file, then click **Upload**.



**Note:** This is not a firmware upgrade utility and cannot be used on a working ASUS Wireless Router. Normal firmware upgrades must be done through the web interface. Refer to **Chapter 4: Configuring via the web GUI** for more details.

# WPS Wizard

WPS (Wi-Fi Protected Setup) allows you to set up a secure and protected wireless network easily.

## Using WPS Wizard



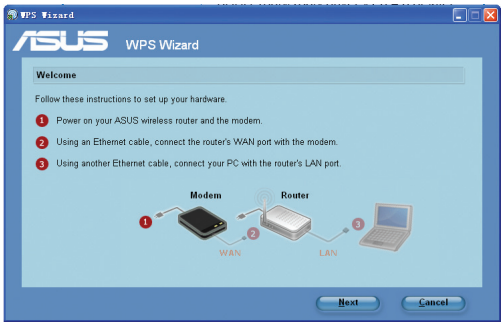
**Note:**

- Ensure that you use a wireless LAN adapter with WPS function.
- Windows® operating systems and wireless LAN cards/adapters that support WPS:

OS Support	Wireless Adapter Support
Vista 32/64	Intel wireless LAN card
	ASUS 167gv2 driver v3.0.6.0 or later
	ASUS 160N/130N driver v2.0.0.0 or later
XP SP2	Intel wireless LAN card
	ASUS 167gv2 driver v1.2.2.0 or later
	ASUS 160N/130N driver v1.0.4.0 or later
XP SP1 and 2000	ASUS LAN card with ASUS WLAN Utility
	ASUS 167gv2 driver v1.2.2.0 or later
	ASUS 160N/130N driver v1.0.4.0 or later

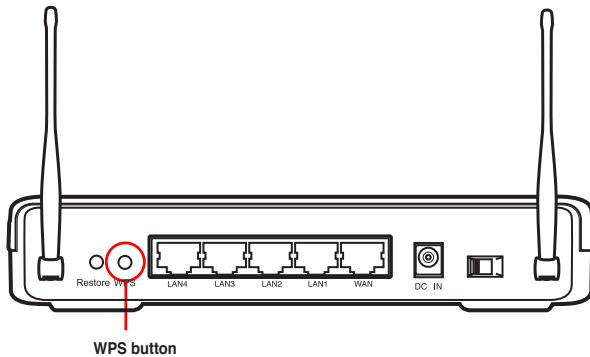
**To use WPS Wizard:**

1. Follow the onscreen instructions to set up your hardware. When done, click **Next**.

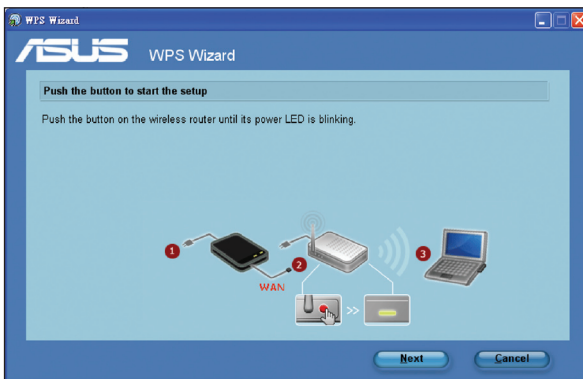


**Note:** Use the WPS Wizard with one wireless client at a time. If the wireless client cannot discover the wireless router, shorten the distance between the client and the router.

2. Push the WPS button at the rear panel of the wireless router for more than five seconds.



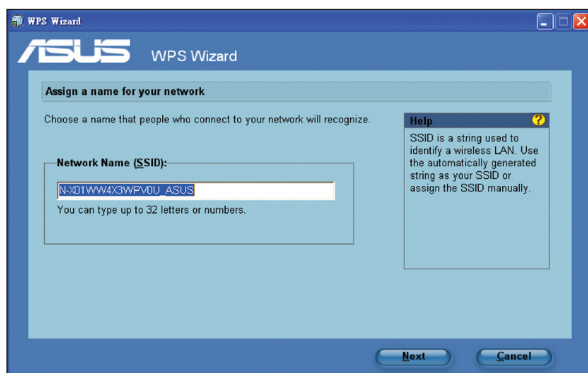
3. On the WPS Wizard, click **Next** to continue.



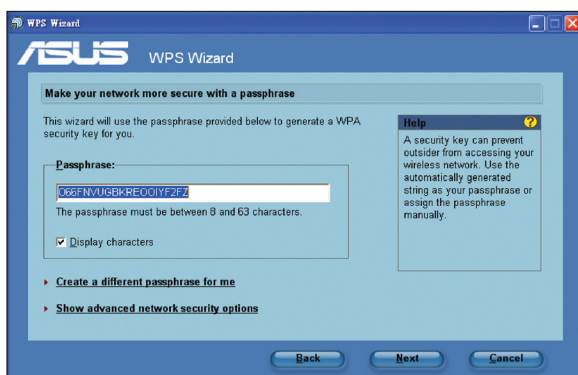
#### Notes:

- When running WPS, the Internet connection pauses briefly then reestablishes the connection.
- If the WPS button is pushed without running the WPS Wizard, the PWR indicator flashes and Internet connection pauses briefly and then reestablishes the connection.

4. Assign a name to your network, then click **Next**.



5. Use the auto-generated passphrase as your network's security key or manually assign a passphrase containing between 8 and 63 characters. Click **Next**.



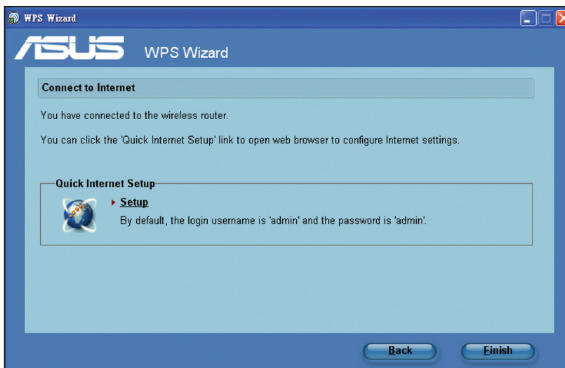


6. Installation is completed. Click **Save or print settings** for future reference or **Save settings to a USB flash drive** to add other devices to the network. Click **Next** to connect to the Internet.



**Note:** For more details on adding devices to the network using a USB flash drive, refer to the section **Adding network devices using a USB flash drive** on the next page.

7. You have connected to the wireless router. If you want to configure the Internet settings, click **Setup**. Click **Finish** to close the WPS Wizard.



## Adding network devices using a USB flash drive

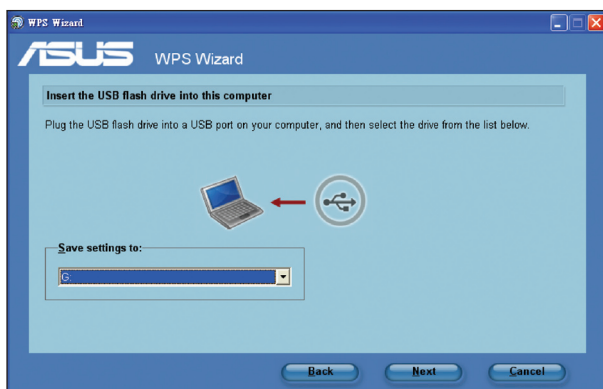
With the WPS utility, you can add devices to your network using a USB flash drive.

To add network devices using a USB flash drive:

1. In the WPS Wizard, click **Save settings to a USB flash drive**.



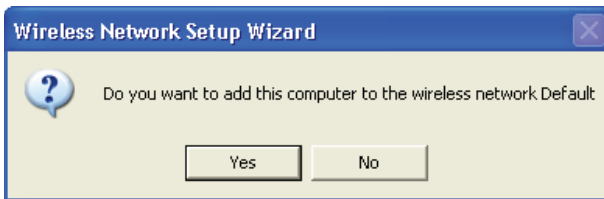
2. Plug a USB flash drive into the USB port on your computer, and then select the drive from the dropdown list. When done, click **Next** to continue.



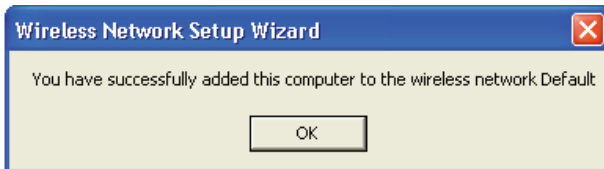
3. Remove the USB flash drive from this computer, and then plug it to the computer that you want to add to the wireless network.



4. Locate the **SetupWireless.exe** from the USB drive, and double-click to run it. Click **Yes** to add the computer to the wireless network.



5. Click **OK** to exit the **Wireless Network Setup Wizard**.



# Troubleshooting

## Troubleshooting

This troubleshooting guide provides solutions to some common problems that you may encounter while installing or using the ASUS Wireless Router. These problems require simple troubleshooting that you can perform by yourself. Contact the ASUS Technical Support if you encounter problems not mentioned in this chapter.

Problem	Action
I cannot access the web GUI for configuring the router.	<ol style="list-style-type: none"><li>1. Launch a web browser, then click <b>Tools &gt; Internet Options...</b></li><li>2. Under <b>Temporary Internet files</b>, click <b>Delete Cookies...</b> and <b>Delete Files...</b></li><li>3. Disable the proxy settings of the web browser.</li></ol>
The client cannot establish a wireless connection with the router.	<p><b>Out of Range:</b></p> <ul style="list-style-type: none"><li>• Put the router closer to the wireless client.</li><li>• Try to change the channel settings.</li></ul> <p><b>Authentication:</b></p> <ul style="list-style-type: none"><li>• Use wired connection to connect to the router.</li><li>• Check the wireless security settings.</li><li>• Press the Restore button at the rear panel for more than five seconds.</li></ul> <p><b>Cannot find the router:</b></p> <ul style="list-style-type: none"><li>• Press the Restore button at the rear panel for more than five seconds.</li><li>• Check the setting in the wireless adapter such as SSID and encryption settings.</li></ul>

Problem	Action
Cannot access the Internet via wireless LAN adapter.	<ul style="list-style-type: none"> <li>• Move the router closer to the wireless client.</li> <li>• Check whether the wireless adapter is connected to the correct wireless router.</li> <li>• Check whether the wireless channel in use conforms to the channels available in your country/area.</li> <li>• Check the encryption settings.</li> <li>• Check if the ADSL or Cable connection is correct.</li> <li>• Retry using another Ethernet cable.</li> </ul>
Internet is not accessible.	<ul style="list-style-type: none"> <li>• Check the status indicators on the ADSL modem and the wireless router.</li> <li>• Check if the WAN LED on the wireless router is ON. If the LED is not ON, change the cable and try again.</li> </ul>
When ADSL Modem "Link" light is ON (not blinking), this means Internet Access is possible.	<ul style="list-style-type: none"> <li>• Restart your computer.</li> <li>• Refer to the Quick Start Guide of the wireless router and re-configure the settings.</li> <li>• Check if the WAN LED on the wireless router is ON.</li> <li>• Check the wireless encryption settings.</li> <li>• Check if the computer can get the IP address (via both wired network and wireless network).</li> <li>• Ensure that your web browser is configured to use the local LAN, and is not configured to use a proxy server.</li> </ul>
If the ADSL "LINK" light blinks continuously or stays off, Internet access is not possible - the Router is unable to establish a connection with the ADSL network.	<ul style="list-style-type: none"> <li>• Ensure that all your cables are all properly connected .</li> <li>• Disconnect the power cord from the ADSL or cable modem, wait a few minutes, then reconnect the cord.</li> <li>• If the ADSL light continues to blink or stays OFF, contact your ADSL service provider.</li> </ul>
Network name or encryption keys are forgotten.	<ul style="list-style-type: none"> <li>• Try setting up the wired connection and configuring the wireless encryption again.</li> <li>• Press the Restore button at the rear panel of the wireless router for more than five seconds.</li> </ul>

Problem	Action
<p>How to restore the system to its default settings?</p>	<ul style="list-style-type: none"> <li>• Press the Restore button at the rear panel of the wireless router for more than five seconds.</li> <li>• Refer to the section <b>Restoring/Saving/Uploading settings</b> in Chapter 4 of this user manual.</li> </ul> <p>The following are the factory default settings:</p> <p><b>User Name:</b> admin</p> <p><b>Password:</b> admin</p> <p><b>Enable DHCP:</b> Yes (if WAN cable is plugged in)</p> <p><b>IP address:</b> 192.168.1.1</p> <p><b>Domain Name:</b> (Blank)</p> <p><b>Subnet Mask:</b> 255.255.255.0</p> <p><b>DNS Server 1:</b> 192.168.1.1</p> <p><b>DNS Server 2:</b> (Blank)</p> <p><b>SSID:</b> ASUS</p>
<p>I cannot use 192.168.1.1 to enter the web GUI.</p>	<p>Check the router's operation mode.</p> <ul style="list-style-type: none"> <li>• In the Router mode, the default IP address is 192.168.1.1.</li> <li>• In the Repeater / AP mode, use Device Discovery to find the router's IP address.</li> </ul>

# ASUS DDNS Service

RT-N12 supports the ASUS DDNS service. When exchanging devices at the service center, if you have registered the ASUS DDNS service and want to keep the original domain name, data transfer is a must. Visit your local service center for more information.



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## Notes:

- If there is no activity in the domain - such as reconfiguring the router or accessing the registered domain name - within 90 days, the system automatically deletes the registered information.
  - If you encounter any problem or difficulty in using your device, contact the service center.
- 

## Frequently Asked Questions (FAQs)

### 1. Will the registered information be lost or registered by others?

If you have not updated the registered information in 90 days, the system automatically deletes the registered information and the domain name may be registered by others.

### 2. I did not register the ASUS DDNS for the router I bought six months ago. Can I still register it?

Yes, you can still register the ASUS DDNS service for your router. The DDNS service is embedded in your router, so you can register the ASUS DDNS service anytime. Before registering, click **Query** to check if the hostname has been registered or not. If not, the system registers the hostname automatically.

### 3. I have registered a domain name before and it has been working well until my friends told me that they could not access my domain name.

Check the following:

1. The internet is working well.
2. The DNS server is working well.
3. The last time you updated the domain name.

If there are still problems in accessing your domain name, contact the service center.

### 4. Can I register two domain names to separately access my http and ftp servers?

No, you cannot. You can only register one domain name for one router. Use port mapping to implement security in the network.

**5. After restarting the router, why is it that I see different WAN IPs in MS DOS and in the router configuration page?**

This is normal. The interval time between the ISP DNS server and ASUS DDNS results in different WAN IPs in MS DOS and in the router configuration page. Different ISPs may have different interval time for IP updating.

**6. Is the ASUS DDNS service free, or is it just a trial version?**

The ASUS DDNS service is a free and embedded service in some ASUS routers. Check your ASUS router if it supports the ASUS DDNS service.



## Notices

### Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



---

**Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

---

### Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

### Safety Information

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

## **Declaration of Conformity for R&TTE directive 1999/5/EC**

Essential requirements – Article 3

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328- 2 has been conducted. These are considered relevant and sufficient.

## **CE Mark Warning**

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Operation Channels: Ch1~11 for N. America, Ch1~14 Japan, Ch1~13 Europe (ETSI)

## **IC Warning**

The Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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Version 2, June 1991

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## REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at <http://green.asus.com/english/REACH.htm>.

## Safety Warning

**SAFE TEMP:** This wireless router should be only used in environments with ambient temperatures between 5°C(41°F) and 40°C(104°F)

**DO NOT** expose to or use near liquids, rain, or moisture. **DO NOT** use the modem during electrical storms.

## Canada Notices

Industry Canada regulatory information

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.



# ASUS Contact information

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Online support	<a href="http://support.asus.com">support.asus.com</a>

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Online support	<a href="http://support.asus.com">support.asus.com</a>

\* Available on this site is an online Technical Inquiry Form that you can fill out to contact technical support.

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