RT-N12
ASUS Wireless SuperSpeed N Router

RT-N12
300M SuperSpeed

PWR 2.4GHz WAN LAN1 LAN2 LAN3 LAN4
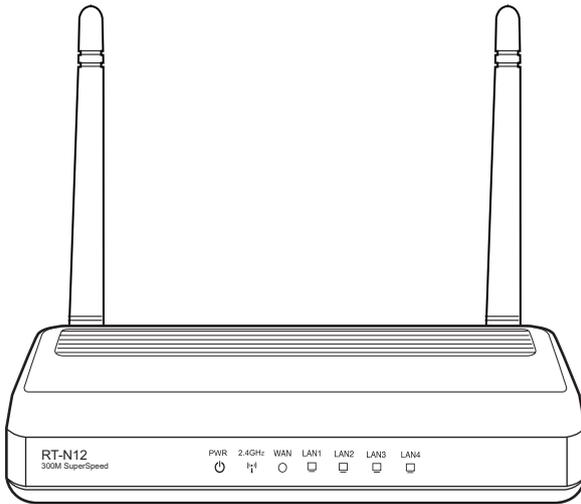
User Manual

E4809
First Edition V1
July 2009

Table of contents

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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

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

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

RT-N12
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PWR 2.4GHz WAN LAN1 LAN2 LAN3 LAN4
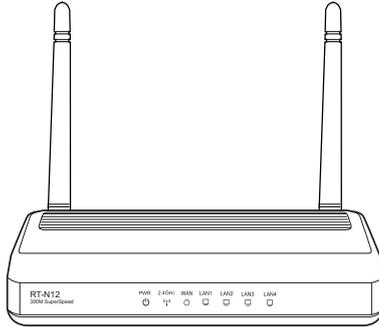
Status indicators

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

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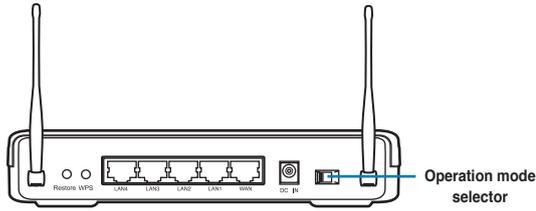
Label	Description
WAN	Connect an RJ-45 Ethernet cable to this port to establish WAN connection.
LAN1-LAN4	Connect RJ-45 Ethernet cables to these ports to establish LAN connection.
DC IN	Insert the AC adapter into this port to connect your router to a power source.
WPS	Press this button to establish wireless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

Item	Description
Operation mode selector	Use this selector to choose an operation mode:
	Router (IP Sharing 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.
	Repeater: 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.
	Access Point (AP): 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.

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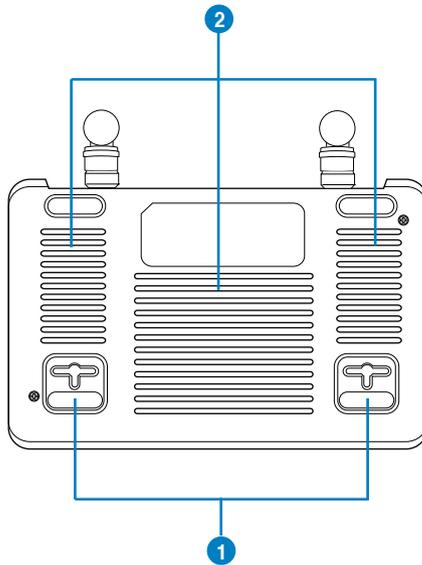
Item	Description
1	**Mounting hooks** Use the mounting hooks to mount your router on concrete or wooden surfaces using two round head screws.
2	**Air vents** These vents provide ventilation to your router.

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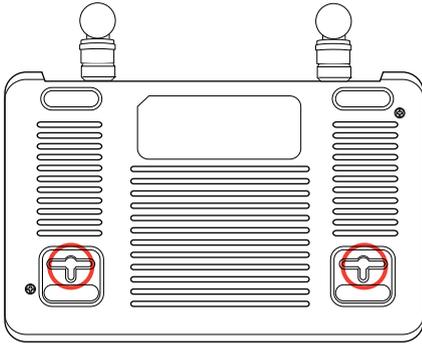
Note: Re-adjust the screws if you cannot latch the ASUS Wireless Router onto the screws or if it is too loose.

2 Getting started

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.

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.

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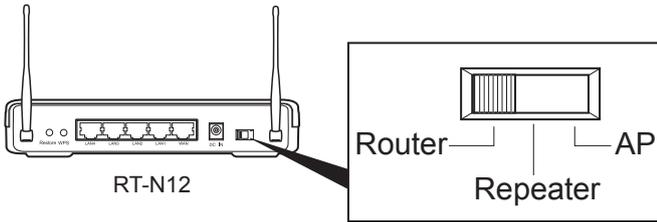
2. Connect your devices.
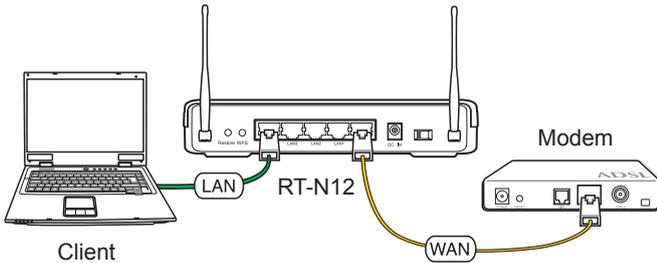
📝 **Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

3. Launch your web browser and the QIS starts to detect your Internet connection type.
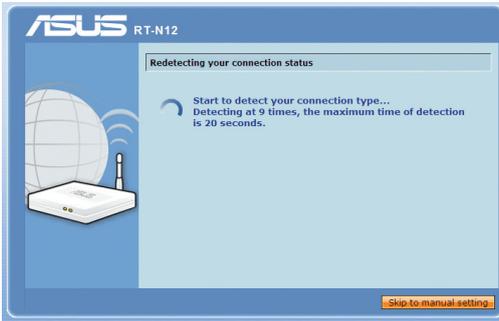
✏ **Note:** If the QIS web page does not appear after you launched your web browser, disable the proxy settings on your web browser.

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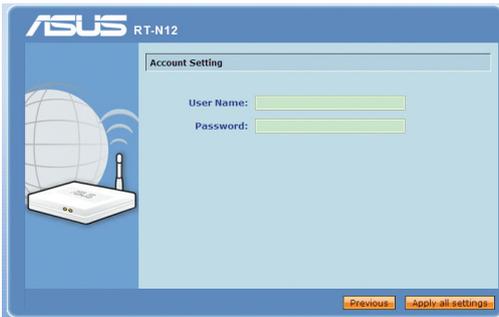
✏ **Note:**

  • 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).

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5. The Internet connection setup is completed.
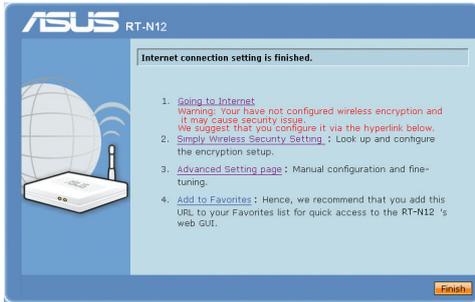
- •   Click **Going to Internet** to surf the Internet.
- •   Click **Simply Wireless Security Setting** to configure the basic security settings including the SSID, authentication, and encryption methods for the wireless router.
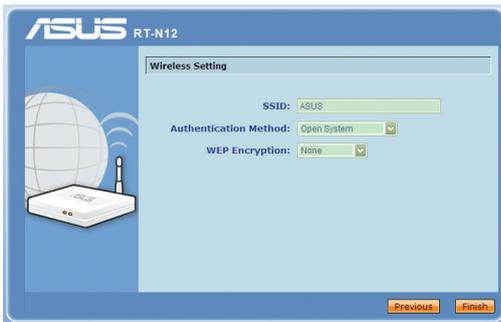
- •   Click **Advanced Setting page** to manually configure advanced settings for the wireless router.
- •   Click **Add to Favorites** to add this URL to your Favorites list for quick access to the web GUI.

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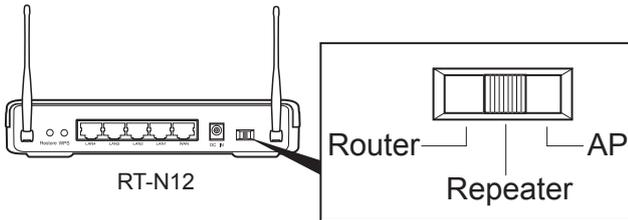
2. Connect your devices.
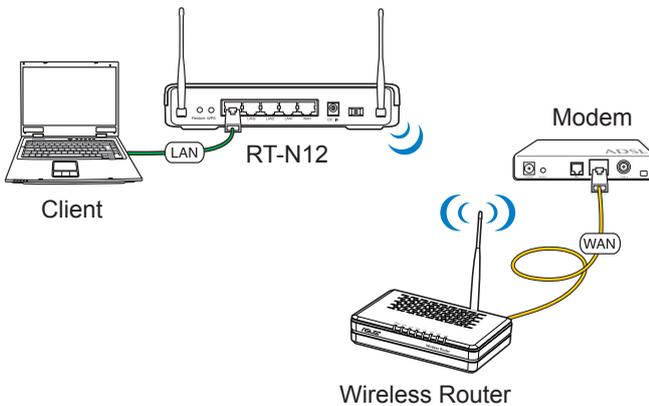
✎ **Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

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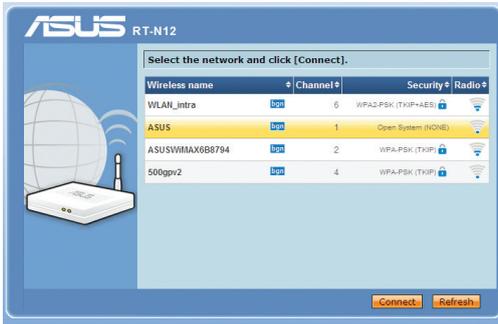
✎ **Note:** If the QIS web page does not appear after you launched your web browser, disable the proxy settings on your web browser.

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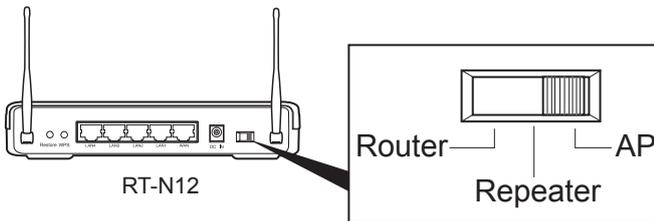
2. Connect your devices.
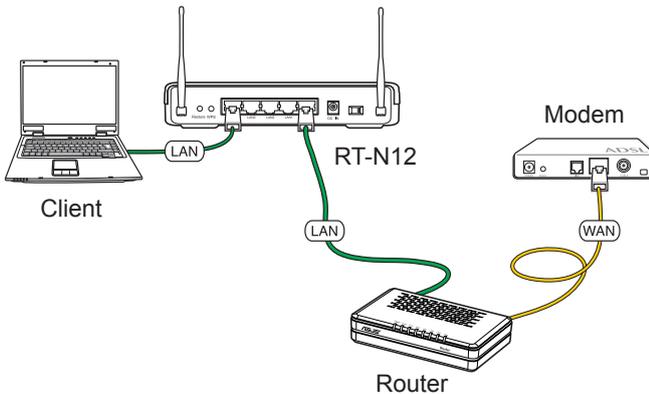
✎ **Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

3. Launch the Device Discovery utility and click **Configure** to access the web GUI.
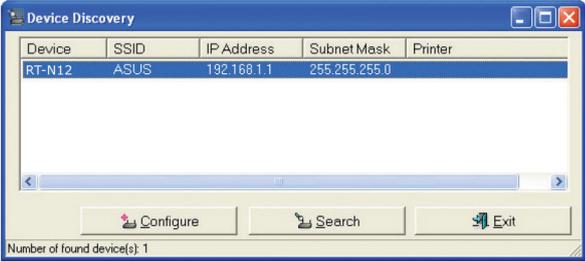
4. On the login page, key in the default user name (**admin**) and password (**admin**).

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