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> [ASUS RT-N13U Wireless-N Router, Access Point, and Repeater User Manual](#)

## ASUS RT-N13U

# ASUS RT-N13U Wireless-N Router User Manual

Model: RT-N13U

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## 1. INTRODUCTION

This manual provides instructions for the installation, configuration, and operation of your ASUS RT-N13U Wireless-N Router. The RT-N13U is a versatile networking device capable of functioning as a wireless router, an access point, or a wireless repeater. It also features a USB 2.0 port for enhanced functionalities such as printer sharing, FTP hosting, network storage, and direct BitTorrent downloading.

Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- **EZ All-in-One Printer Sharing:** Utilize the USB port to share a printer across your network.
- **EZ Switch:** Easily switch between Router, Repeater, and Access Point modes with a single touch.
- **Enhanced Download Master:** Download files directly to a connected USB hard drive even when your computer is off.
- **Wireless-N Connectivity:** Supports 802.11b/g/n standards for high-speed wireless networking.
- **4 LAN Ports:** Provides four 10/100 Mbps Ethernet ports for wired connections.
- **Diagnostic and Bandwidth Management Tools:** Includes Dr. Surf and EZQoS for network monitoring and quality of service management.

### 2.2 Package Contents

- ASUS RT-N13U Wireless-N Router
- Power Adapter
- Ethernet Cable
- Quick Start Guide

- Support CD (containing user manual and utilities)

## 2.3 Hardware Interface

Familiarize yourself with the ports, buttons, and LED indicators on your RT-N13U router.





**Figure 1:** Front and Side View of the ASUS RT-N13U Router. This image shows the front panel with LED indicators for Power, Wireless, Internet, and LAN ports (1-4), along with the WPS button.





**Figure 2:** Rear View of the ASUS RT-N13U Router. This image displays the rear panel, including the USB 2.0 port, four LAN ports (yellow), one Internet (WAN) port (blue), and the power input port.

### LED Indicators:

- **Power LED:** Indicates power status. Solid green for normal operation.
- **Wireless LED:** Indicates wireless activity. Blinks when data is being transmitted wirelessly.
- **Internet LED:** Indicates internet connection status. Solid green for connected, blinking for activity.
- **LAN 1-4 LEDs:** Indicate activity on the respective LAN ports. Solid green for connected, blinking for activity.
- **WPS LED:** Indicates Wi-Fi Protected Setup status.

### Ports and Buttons:

- **USB 2.0 Port:** For connecting USB devices such as printers or external storage.
- **LAN Ports (1-4):** Connect wired devices like computers or gaming consoles.
- **Internet (WAN) Port:** Connects to your modem for internet access.
- **Power Port:** Connects to the included power adapter.
- **WPS Button:** Initiates Wi-Fi Protected Setup for easy wireless connection.
- **Reset Button:** (Typically a small pinhole button) Used to restore factory default settings.
- **EZ Switch:** A physical switch to change the device's operating mode (Router, AP, Repeater).

## 3. SETUP

### 3.1 Initial Hardware Connection

1. Connect the power adapter to the router's Power port and plug it into a power outlet.

2. Connect one end of the Ethernet cable to the Internet (WAN) port of the RT-N13U and the other end to your modem's Ethernet port.
3. (Optional) For initial configuration, connect your computer directly to one of the LAN ports (1-4) on the router using an Ethernet cable.
4. Power on your modem, then power on the RT-N13U router. Wait for the Power, Internet, and Wireless LEDs to stabilize.

## 3.2 Configuration Modes

The RT-N13U supports three operating modes, selectable via the EZ Switch:

- **Router Mode:** The default mode, where the device acts as a gateway for your network, providing internet access and managing local network traffic.
- **Access Point (AP) Mode:** Extends an existing wired network by adding wireless connectivity. In this mode, internet features are typically disabled, and the device acts as a wireless hub.
- **Repeater Mode:** Extends the range of an existing wireless network by receiving and re-transmitting the wireless signal.

Select the desired mode using the physical EZ Switch on the router before proceeding with software configuration.

## 3.3 Web Interface Access

1. Open a web browser (e.g., Chrome, Firefox, or IE8/Edge; IE9 beta may have compatibility issues).
2. In the address bar, type the default IP address of the router (commonly 192.168.1.1 or router.asus.com) and press Enter.
3. Enter the default username and password (typically admin for both). Refer to the label on the bottom of your router if these defaults do not work.
4. Follow the on-screen setup wizard.

## 3.4 Internet Connection Setup (Router Mode)

If the EZ UI setup feature does not automatically configure your internet connection, manual steps may be required, especially for certain Internet Service Providers (ISPs).

1. **Gather Information:**
  - Your computer's MAC address (Physical Address). On Windows, open Command Prompt and type `ipconfig /all`.
  - Your ISP's DNS server addresses. If connected via Ethernet, use `ipconfig /all` to find "DNS Servers".
2. **Access Network Map:** In the router's web interface, navigate to the "Network Map" or "EZ-UI" section.
3. **Manual Configuration:** If the connection fails, the system may prompt for manual configuration.
  - Utilize the **MAC Clone** feature. Some ISPs tie your internet service to a specific MAC address. Cloning your computer's MAC address to the router can resolve connectivity issues.
  - Manually enter your ISP's DNS server addresses if required.
4. **Apply Settings and Restart:** Apply the new settings. The router will restart. Your computer may temporarily lose connection. Reconnect to the router.
5. **Power Cycle (If Needed):** If the internet connection is still not established:
  - Power off the wireless router.

- Power off your modem/ISP's box.
- Wait for 5 minutes.
- First, power on the modem/ISP's box and wait for it to fully boot.
- Then, power on the ASUS RT-N13U router.
- Check for internet connectivity.

*Note: For optimal wireless performance, ensure the wireless radio is set to "N only" mode in the router's settings if all your devices support 802.11n.*

## 4. OPERATION

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### 4.1 Connecting Devices

#### Wired Connections:

Connect Ethernet-enabled devices (e.g., desktop computers, smart TVs, gaming consoles) to the yellow LAN ports (1-4) on the back of the router using Ethernet cables.

#### Wireless Connections:

1. On your wireless device (laptop, smartphone, tablet), search for available Wi-Fi networks.
2. Select the network name (SSID) of your ASUS RT-N13U (default SSID is usually "ASUS" or "ASUS\_RT-N13U").
3. Enter the network security key (password). This can be found on a label on the router or in the router's web interface.
4. Alternatively, press the WPS button on the router and then activate WPS on your wireless device within two minutes for a quick connection.

### 4.2 USB Features

The USB 2.0 port on the RT-N13U provides additional functionalities:

#### Printer Sharing:

Connect a compatible USB printer to the USB 2.0 port. Configure printer sharing through the router's web interface to allow multiple computers on your network to print to it.

#### Download Master:

Connect a USB storage device (e.g., external hard drive, flash drive) to the USB 2.0 port. The Download Master feature allows you to initiate downloads (including BitTorrent) directly to the connected storage device, even when your computer is turned off. This feature typically works only when the router is in Router Mode.

*Note: Ensure the USB storage device is formatted correctly and recognized by the router. For BitTorrent downloads, you may need to provide the exact URL location for the downloader to function properly.*

## 5. MAINTENANCE

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### 5.1 Firmware Updates

Regularly updating the router's firmware is crucial for performance improvements, security enhancements, and bug fixes. Visit the official ASUS support website for the RT-N13U model to download the latest firmware. Follow the instructions provided with the firmware update package carefully to avoid damaging the device.

*Note: Firmware updates can resolve many common issues and improve compatibility with various devices and services.*

## 5.2 Restoring Factory Defaults

If you encounter persistent issues or forget your login credentials, you can restore the router to its factory default settings. This will erase all custom configurations.

1. With the router powered on, locate the Reset button (often a small pinhole) on the device.
2. Use a paperclip or a similar pointed object to press and hold the Reset button for approximately 5-10 seconds.
3. Release the button when the Power LED starts blinking rapidly or all LEDs briefly flash.
4. The router will restart with factory default settings. You will need to reconfigure it from scratch.

## 6. TROUBLESHOOTING

### 6.1 Common Issues and Solutions

- **No Internet Connection:**

- Check all cable connections (modem to router WAN port, router to computer LAN port).
- Perform a power cycle on both your modem and router (unplug, wait 5 minutes, plug modem first, then router).
- Verify your ISP settings in the router's web interface, especially if MAC cloning or specific DNS servers are required.
- Ensure the router is in the correct operating mode (Router Mode for internet access).

- **Cannot Access Router Web Interface:**

- Ensure your computer is connected to the router (wired or wirelessly).
- Verify the IP address (e.g., 192.168.1.1) is correct.
- Try a different web browser.
- Temporarily disable any firewall or antivirus software on your computer.
- If you forgot the password, perform a factory reset (see Section 5.2).

- **Slow Wireless Speed or Dropped Connections:**

- Ensure the router's firmware is up to date.
- Check for wireless interference from other devices (cordless phones, microwaves).
- Adjust the wireless channel in the router settings.
- Position the router in a central location, away from obstructions.
- If all devices support 802.11n, set the wireless mode to "N only" for higher speeds.

- **USB Device Not Recognized:**

- Ensure the USB device is properly connected and powered (if external power is required).
- Check the router's web interface for USB device status and configuration.
- Verify compatibility of the USB device with the router.
- Ensure the router is in Router Mode for USB features like Download Master.

### 6.2 LED Indicator Meanings

LED Indicator	Status	Description
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LED Indicator	Status	Description
<b>Power</b>	Solid Green	Device is powered on and operating normally.
	Off	Device is powered off.
<b>Wireless</b>	Solid Green	Wireless function is enabled.
	Blinking Green	Wireless data transmission is active.
<b>Internet</b>	Solid Green	Connected to the Internet.
	Blinking Green	Internet data transmission is active.
	Off	No Internet connection.
<b>LAN 1-4</b>	Solid Green	A device is connected to the corresponding LAN port.
	Blinking Green	Data transmission is active on the corresponding LAN port.
<b>WPS</b>	Blinking	WPS connection process is active.

## 7. SPECIFICATIONS

Feature	Detail
<b>Model Name</b>	RT-N13U
<b>Wireless Standard</b>	802.11b/g/n
<b>Frequency Band</b>	Single Band (2.4 GHz)
<b>Connectivity Technology</b>	Wireless, Ethernet
<b>Ethernet Ports</b>	4 x 10/100 Mbps LAN, 1 x 10/100 Mbps WAN
<b>USB Port</b>	1 x USB 2.0
<b>Antenna Type</b>	Internal
<b>Special Features</b>	Access Point Mode, Repeater Mode, WPS, Printer Sharing, Download Master
<b>Product Dimensions</b>	10 x 8.88 x 3.75 inches
<b>Item Weight</b>	5.3 ounces (approx. 150 Grams)
<b>Manufacturer</b>	ASUS
<b>First Available Date</b>	September 28, 2009

## 8. SAFETY INFORMATION

- Use only the power adapter provided with the device. Using an incompatible adapter may damage the device and void your warranty.
- Do not expose the device to water, moisture, or extreme temperatures.
- Place the device in a well-ventilated area to prevent overheating.

- Do not open the device casing. Servicing should only be performed by authorized personnel.
- Keep the device away from strong electromagnetic fields.

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, and further assistance, please visit the official ASUS support website or contact ASUS customer service. Details can typically be found on the ASUS website or in the documentation included with your product.

**ASUS Support Website:** [www.asus.com/support/](http://www.asus.com/support/)