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## ASUS RT-N12

# ASUS N300 WiFi Router (RT-N12\_D1) User Manual

MODEL: RT-N12

## 1. Product Overview

The ASUS N300 WiFi Router (RT-N12\_D1) is a versatile 3-in-1 wireless device designed for home and office environments. It functions as a wireless internet router, an access point, or a range extender, offering flexibility to suit various networking needs. Equipped with 2T2R MIMO technology and two detachable 5dBi high-gain antennas, it provides extended wireless coverage and reliable performance, making it suitable for activities such as HD video streaming, VoIP calls, and general internet usage.



Figure 1: Front view of the ASUS N300 WiFi Router (RT-N12\_D1).

Key features include support for up to 30,000 data sessions for powerful online multitasking and the ability to set up and customize up to four wireless networking accounts, allowing for bandwidth allocation and access control. Its user-friendly interface ensures easy setup and management.

## 2. What's in the Box

Upon unboxing your ASUS N300 WiFi Router, you should find the following items:

- RT-N12 D1 Wireless-N300 Router
- RJ-45 Cable
- 2 x 5dBi Antennas
- Warranty Card
- Power Supply

### 3. Setup Guide

Follow these steps to set up your ASUS N300 WiFi Router:

1. **Connect the Antennas:** Screw the two detachable 5dBi antennas onto the connectors at the rear of the router. Ensure they are securely fastened.



Figure 2: Router with antennas attached.

2. **Connect to Modem:** Connect one end of the provided RJ-45 cable to the WAN port (usually blue) on the back of the router. Connect the other end to your modem's Ethernet port.



Figure 3: Rear ports of the router, highlighting the WAN port.

3. **Connect to Computer (Optional for Setup):** For initial setup, you can connect your computer directly to one of the LAN ports (yellow) on the router using another RJ-45 cable. Alternatively, you can connect wirelessly after powering on.
4. **Power On:** Connect the power adapter to the router's DC-in port and plug it into a power outlet. Press the power button to turn on the router.
5. **Check LED Indicators:** Once powered on, observe the LED indicators on the front panel. The Power, WAN, LAN (if connected), and Wi-Fi LEDs should illuminate, indicating proper operation.
6. **Access Setup Page:** Open a web browser on your connected computer or Wi-Fi enabled device. The router should automatically redirect you to the setup page. If not, type [router.asus.com](http://router.asus.com) into the address bar and press Enter. Follow the on-screen instructions for Quick Internet Setup (QIS) to configure your internet connection and Wi-Fi settings. You will be prompted to enter your internet provider's ID/password if required.

## 4. Operating Modes

The RT-N12\_D1 offers three distinct operating modes for enhanced versatility:

- **Router Mode (Default):** In this mode, the device acts as your primary internet gateway, connecting your local network to the internet. It manages IP addresses, provides Wi-Fi, and handles network traffic.
- **Access Point (AP) Mode:** This mode transforms the router into a wireless access point, extending an existing wired network wirelessly. It connects to a wired router or modem and broadcasts a Wi-Fi signal, allowing wireless devices to connect to the wired network.
- **Range Extender Mode:** In this mode, the device extends the coverage of an existing Wi-Fi network. It connects wirelessly to your main router and re-broadcasts the signal, eliminating Wi-Fi dead zones.

You can easily switch between these modes using the Software EZ switch located on the back of the router, or through the ASUSWRT graphical user interface in your web browser.

## 5. Maintenance

## 5.1. Firmware Update

Keeping your router's firmware up to date is crucial for optimal performance, security, and stability. ASUS regularly releases firmware updates that include bug fixes, new features, and security enhancements.

1. Access the router's web interface ([router.asus.com](http://router.asus.com)).
2. Log in with your router's username and password.
3. Navigate to the "Administration" section, then "Firmware Upgrade".
4. Check for available updates. If a new version is found, follow the on-screen instructions to download and install it.
5. Do not power off or disconnect the router during the firmware update process.

## 5.2. Restoring to Default Settings

If you encounter persistent issues or wish to clear all custom configurations, you can restore the router to its factory default settings. This will erase all settings, including Wi-Fi names (SSIDs) and passwords.

- **Via Web Interface:**

- a. Access the router's web interface ([router.asus.com](http://router.asus.com)).
- b. Log in with your router's username and password.
- c. Go to "Administration" > "Restore/Save/Upload Setting".
- d. Click the "Restore" button next to "Factory default" and confirm.
- e. The router will reboot, and all settings will be reset.

- **Via Reset Button:**

- a. With the router powered on, locate the "RESET" button on the rear panel (often a small pinhole).
- b. Use a paperclip or a thin object to press and hold the "RESET" button for about 5-10 seconds until the Power LED starts to flash.
- c. Release the button. The router will reboot with factory default settings.

## 6. Troubleshooting

### 6.1. Weak Wi-Fi Signal or Frequent Disconnections

- **Router Placement:** Position the router in a central location within your home or office, away from obstacles like thick walls, metal objects, and large appliances (microwaves, refrigerators) that can interfere with the signal.
- **Antenna Adjustment:** Adjust the router's antennas for optimal signal strength. Experiment with different angles (e.g., one vertical, one horizontal) to find the best coverage for your environment.
- **Reduce Interference:** Keep the router away from other electronic devices that operate on the 2.4GHz frequency band.
- **Update Device Drivers:** Ensure that the wireless adapter drivers on your connected devices (laptops, smartphones, etc.) are up to date.
- **Change Wi-Fi Channel:** Access the router's web interface and try changing the Wi-Fi control channel. Sometimes, neighboring Wi-Fi networks can cause interference on crowded channels.

### 6.2. No Internet Connection

- **Check Cable Connections:** Ensure all Ethernet cables (WAN and LAN) are securely plugged into their respective ports on the router and modem.

- **Power Cycle Devices:** Turn off your modem and router. Wait for 30 seconds, then turn on the modem first. Once the modem is fully online (indicated by stable lights), turn on the router.
- **Verify Internet Setup:** Access the router's web interface and navigate to the WAN settings. Confirm that the internet connection type (e.g., PPPoE, Static IP, Automatic IP) and credentials (username/password if applicable) are correctly entered as provided by your Internet Service Provider (ISP).
- **Contact ISP:** If all connections and settings appear correct and you still have no internet, contact your ISP for assistance.

## 7. Specifications

Feature	Description
Model	RT-N12_D1
Wireless Type	802.11bgn
Operating Frequency	2.4 GHz
Data Rate	Up to 300Mbps (802.11n)
Antenna	2 x Detachable 5 dBi antenna
Ports	1 x RJ45 for 10/100 BaseT for WAN, 4 x RJ45 for 10/100 BaseT for LAN
Encryption	64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise, WPA2-Enterprise, WPS support
Dimensions (WxDxH)	11.1 x 7.7 x 3.1 inches
Weight	9.7 ounces
Power Supply	AC Input: 110V~240V(50~60Hz), DC Output: 12 V with max. 0.5 A current

## 8. Warranty and Support

### 8.1. Legal Disclaimer

Actual data throughput and WiFi coverage will vary from network conditions and environmental factors, including the volume of network traffic, building material and construction, and network overhead, result in lower actual data throughput and wireless coverage.

### 8.2. Additional Resources

- [User Guide \(PDF\)](#)
- [User Manual \(PDF\)](#)
- For further support, please visit the official ASUS support website.

