

## NETGEAR AX3000

# NETGEAR Nighthawk AX3000 Wi-Fi 6 Router User Manual

Model: RAX35-100NAS

## 1. INTRODUCTION

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The NETGEAR Nighthawk AX3000 (RAX35-100NAS) is a 4-stream dual-band Wi-Fi 6 router designed to provide high-speed wireless connectivity for your home network. It supports Wi-Fi 6 (802.11ax) technology, offering improved capacity and efficiency for multiple connected devices. This manual provides instructions for setting up, operating, maintaining, and troubleshooting your router.



**Figure 1:** Front view of the NETGEAR Nighthawk AX3000 Wi-Fi 6 Router. This image shows the router's sleek black design with two external antennas and front-facing LED indicators.

## Key Features:

- **Ultra-fast Wi-Fi:** Up to 3Gbps (600Mbps + 2.4Gbps) wireless speeds for demanding applications.
- **Improved Capacity:** Wi-Fi 6 with OFDMA technology allows more devices to connect simultaneously without performance degradation.
- **Gigabit Wi-Fi to Mobile Devices:** Supports 160MHz for faster connections to compatible mobile devices.
- **Powerful Dual-Core Processor:** Ensures smooth 4K UHD streaming, gaming, and video conferencing.
- **5 Gigabit Ports:** Includes one WAN port and four LAN ports for high-speed wired connections.
- **Nighthawk App:** Facilitates easy setup and network management.
- **Automatic Firmware Updates:** Ensures the router has the latest security patches and features.
- **Backward Compatibility:** Works with Wi-Fi 5 (802.11ac) and earlier Wi-Fi standards.

## 2. PACKAGE CONTENTS

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Verify that your package contains the following items:

- NETGEAR Nighthawk AX3000 Wi-Fi 6 Router (RAX35)
- Ethernet Cable
- Power Adapter (12V, 1.5A)
- Quick Start Guide

If any items are missing or damaged, please contact NETGEAR support.

### 3. PHYSICAL OVERVIEW

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



**Figure 2:** Rear view of the NETGEAR Nighthawk AX3000 Wi-Fi 6 Router. This image highlights the power input, Internet (WAN) port, four Ethernet (LAN) ports, Reset button, and LED On/Off switch.

#### Rear Panel:

- **Power On/Off Button:** Turns the router power on or off.
- **Power Input:** Connects to the provided power adapter.
- **Internet Port (Yellow):** Connects to your modem using an Ethernet cable.
- **Ethernet Ports (1-4, Gray):** Connects to wired devices such as computers, gaming consoles, or network storage.
- **Reset Button:** Press and hold for 7-10 seconds to restore factory default settings.
- **LED On/Off Switch:** Toggles the front panel LED indicators.



**Figure 3:** Top view of the NETGEAR Nighthawk AX3000 Wi-Fi 6 Router. This image displays the array of LED indicators for power, internet, Wi-Fi bands, Ethernet ports, and guest Wi-Fi.

### Front Panel LED Indicators:

- **Power LED:** Indicates router power status.
- **Internet LED:** Indicates internet connection status.
- **2.4 GHz Wi-Fi LED:** Indicates 2.4 GHz wireless activity.
- **5 GHz Wi-Fi LED:** Indicates 5 GHz wireless activity.
- **Ethernet Port LEDs (1-4):** Indicates activity on corresponding wired LAN ports.
- **Guest Wi-Fi LED:** Indicates guest Wi-Fi network status.
- **WPS Button/LED:** Initiates Wi-Fi Protected Setup (WPS) and indicates WPS status.

## 4. SETUP INSTRUCTIONS

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Follow these steps to set up your NETGEAR Nighthawk AX3000 Wi-Fi 6 Router.

### Step 1: Unpack and Position the Router

1. Unpack the router and its components from the box.
2. Place the router in a central location in your home, away from obstructions and electronic devices that might cause interference.

### Step 2: Connect the Router to Your Modem

1. Power off your modem. If it has a battery backup, remove the battery.
2. Connect one end of the provided Ethernet cable to the yellow **Internet** port on the back of your RAX35 router.
3. Connect the other end of the Ethernet cable to the Ethernet port on your modem.
4. Reconnect the battery (if applicable) and power on your modem. Wait for the modem to fully boot up and establish an internet connection (this may take a few minutes).

### Step 3: Power On the Router

1. Connect the power adapter to the power input on the router and plug it into a power outlet.
2. Press the **Power On/Off** button.
3. Wait for the Power LED on the front of the router to turn solid white. This indicates the router is ready.

### Step 4: Connect to the Router and Complete Setup

You can set up your router using the Nighthawk app or a web browser.

#### Using the Nighthawk App (Recommended):

1. Download the NETGEAR Nighthawk app from the Apple App Store or Google Play Store.
2. Open the Nighthawk app and follow the on-screen instructions to set up your router. The app will guide you through connecting to the router's default Wi-Fi network and configuring your internet connection and Wi-Fi settings.

#### Using a Web Browser:

1. Connect your computer or mobile device to the router's default Wi-Fi network. The Wi-Fi network name (SSID) and password are printed on the label on the bottom of the router.
2. Open a web browser and type `routerlogin.net` or `192.168.1.1` in the address bar.
3. Follow the on-screen instructions to complete the setup. You will be prompted to create an admin password and configure your Wi-Fi network name and password.

## 5. OPERATING INSTRUCTIONS

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Once your router is set up, you can connect devices and manage your network.

### Connecting Devices

#### Wired Connections:

Use Ethernet cables to connect devices like desktop computers, smart TVs, or gaming consoles to the gray **Ethernet** ports (1-4) on the back of the router for stable and high-speed connections.

#### Wireless Connections:

1. On your wireless device (smartphone, tablet, laptop), open the Wi-Fi settings.
2. Select your Wi-Fi network name (SSID) from the list of available networks.
3. Enter your Wi-Fi password when prompted. This information is typically found on the router's label or was set during the initial setup.
4. For quick connection without entering a password, press the **WPS** button on the router and then activate WPS on your device within two minutes.

### Managing Router Settings

You can manage your router settings, such as Wi-Fi names, passwords, guest networks, and parental controls, through the Nighthawk app or the web interface.

#### Using the Nighthawk App:

The Nighthawk app provides a user-friendly interface for monitoring and managing your network from your mobile device. It allows you to view connected devices, run speed tests, and adjust various settings.

## Using the Web Interface:

For advanced settings, access the router's web interface by opening a web browser on a connected device and navigating to routerlogin.net or 192.168.1.1. Log in with your administrator username and password.

## 6. MAINTENANCE

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Regular maintenance helps ensure optimal performance and security for your router.

### Firmware Updates

Your router is configured for automatic firmware updates to ensure it has the latest security patches and features. You can also manually check for updates via the Nighthawk app or the router's web interface under the 'Advanced' or 'Administration' section.

### Restarting the Router

Periodically restarting your router can resolve minor connectivity issues and improve performance. To restart, simply unplug the power adapter from the router, wait 10 seconds, and then plug it back in. Allow a few minutes for the router to fully boot up.

### Cleaning

Keep the router clean and free of dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or aerosols directly on the router.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your router.

### No Internet Connection

- **Check Cables:** Ensure the Ethernet cable from your modem is securely connected to the yellow Internet port on the router.
- **Modem Status:** Verify that your modem is powered on and has an active internet connection (check its indicator lights).
- **Restart Devices:** Power cycle your modem first, then your router, and finally your connected devices.
- **ISP Issue:** If the problem persists, contact your Internet Service Provider (ISP).

### Slow Wi-Fi Speed

- **Router Placement:** Ensure the router is centrally located and not obstructed.
- **Interference:** Keep the router away from other electronic devices (microwaves, cordless phones) that operate on similar frequencies.
- **Channel Optimization:** Use the Nighthawk app or web interface to check for less congested Wi-Fi channels.
- **Device Compatibility:** Ensure your devices support Wi-Fi 6 for optimal performance.

### Wi-Fi Disconnections

- **Firmware:** Ensure your router's firmware is up to date.
- **Signal Strength:** Move closer to the router to check if signal strength is an issue.
- **Restart:** Perform a router restart.

## Factory Reset

If you experience persistent issues, a factory reset can often resolve them. **Warning:** A factory reset will erase all your custom settings, including Wi-Fi names and passwords. You will need to reconfigure the router after a reset.

1. With the router powered on, use a paperclip or similar pointed object to press and hold the **Reset** button on the rear panel for 7-10 seconds.
2. Release the button when the Power LED starts blinking.
3. Wait for the router to restart and then proceed with the initial setup process as described in Section 4.

## 8. TECHNICAL SPECIFICATIONS

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Feature	Specification
Model Name	RAX35
Item Model Number	AX3000
Brand	NETGEAR
Wireless Communication Standard	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4 GHz and 5 GHz)
Connectivity Technology	Ethernet, Wi-Fi
Number of Ethernet Ports	5 (1 WAN, 4 LAN)
Antenna Type	Fixed
Special Feature	WPS
Product Dimensions	8.1 x 2.2 x 13.3 inches
Item Weight	1 pound
Color	Black
Manufacturer	NETGEAR

## 9. WARRANTY AND SUPPORT

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NETGEAR provides a limited warranty for this product. For detailed warranty information, please refer to the warranty card included in your product package or visit the official NETGEAR website.

For technical support, product registration, and access to the latest software and documentation, please visit the official NETGEAR support website:

[www.netgear.com/support/](http://www.netgear.com/support/)

When contacting support, please have your router's model number (RAX35) and serial number ready. The serial number is typically located on the label on the bottom of the router.

