

## NETGEAR RAX50

# NETGEAR Nighthawk RAX50 AX5400 WiFi 6 Router User Manual

Model: RAX50-100NAR

## INTRODUCTION

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This manual provides comprehensive instructions for the installation, configuration, operation, and maintenance of your NETGEAR Nighthawk RAX50 AX5400 WiFi 6 Router. Please read this manual thoroughly before using the device to ensure optimal performance and safety.

## PACKAGE CONTENTS

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Verify that your package contains the following items:

- NETGEAR Nighthawk RAX50 AX5400 WiFi 6 Router
- Ethernet Cable
- 4 External Antennas
- Quick Start Guide
- Power Adapter

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

## PHYSICAL OVERVIEW

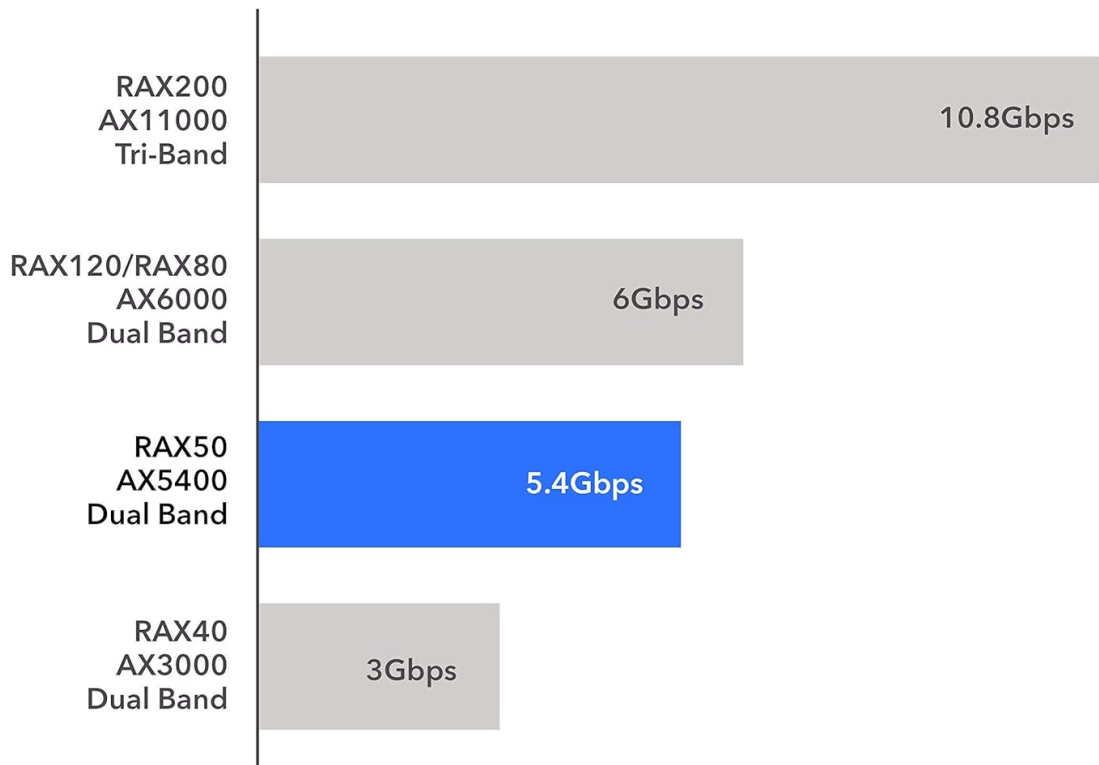
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Familiarize yourself with the router's components and ports.



Figure 1: Front view of the NETGEAR Nighthawk RAX50 Router, showing its four external antennas and LED indicators.

# 5.4Gbps WiFi for streaming movies, lag-free gaming and video calls



WiFi 6

Figure 2: Rear view of the NETGEAR Nighthawk RAX50 Router, highlighting the 1 USB 3.0 port, 4 Gigabit Ethernet LAN ports, and the Internet (WAN) port.

## Front Panel Indicators

- **Power LED:** Indicates power status.
- **Internet LED:** Indicates internet connection status.
- **WiFi LEDs:** Indicate 2.4 GHz and 5 GHz WiFi activity.
- **Ethernet LEDs:** Indicate activity on the LAN ports.
- **USB LED:** Indicates USB port activity.

## Rear Panel Ports and Buttons

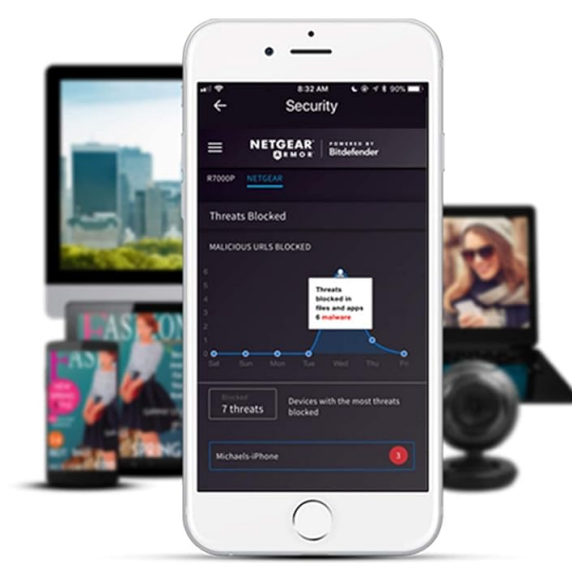
- **Internet (WAN) Port:** Connects to your modem.
- **Ethernet LAN Ports (1-4):** Connect wired devices.
- **USB 3.0 Port:** Connects USB storage devices.
- **Power On/Off Button:** Turns the router on or off.
- **Reset Button:** Restores factory default settings (use a paperclip).
- **WiFi On/Off Button:** Enables or disables WiFi.
- **WPS Button:** For easy connection of WPS-compatible devices.

## SETUP INSTRUCTIONS

### Step 1: Position the Router

Place the router in a central location to maximize WiFi coverage. Avoid placing it near large metal objects, concrete walls, or other devices that emit radio frequency interference.

## Protect your family from Cyber Threats



- Built-in NETGEAR Armor security software
- Best in class multi-layered security
- Covers unlimited devices - eliminates the cost of multiple anti-virus subscriptions

**NETGEAR®**  
**ARMOR™**

Figure 3: Illustration of the RAX50 router providing WiFi coverage throughout a home, connecting various smart devices.

### Step 2: Connect the Antennas

Screw the four external antennas onto the connectors on the router. Adjust them vertically for optimal signal.

### Step 3: Connect to Your Modem

1. Power off your modem and remove its battery (if applicable).
2. Connect one end of the provided Ethernet cable to the Internet (WAN) port on the RAX50 router.
3. Connect the other end of the Ethernet cable to your modem's Ethernet port.
4. Power on your modem and wait for it to fully boot up (usually indicated by stable lights).

### Step 4: Power On the Router

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

2. Press the Power On/Off button.
3. Wait for the Power LED to turn solid white.

## Step 5: Initial Configuration (Nighthawk App Recommended)

The easiest way to set up your router is by using the NETGEAR Nighthawk app.

1. Download the NETGEAR Nighthawk app from the Apple App Store or Google Play Store.
2. Connect your mobile device to the router's default WiFi network (SSID and password are on the router label).
3. Open the Nighthawk app and follow the on-screen instructions to complete the setup, including creating a NETGEAR account and configuring your WiFi network name and password.

# Easy setup and management with the Nighthawk app



Figure 4: The NETGEAR Nighthawk app interface on a smartphone, showing options for WiFi settings, device list, guest WiFi, and parental controls.

## Alternative: Web Browser Setup

1. Connect your computer to the router via an Ethernet cable or the default WiFi network.
2. Open a web browser and navigate to <http://www.routerlogin.net> or <http://www.routerlogin.com>.
3. Follow the on-screen prompts to log in (default username is *isadmin*, default password is *password*) and configure your router.

## OPERATING INSTRUCTIONS

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### Connecting Devices

**Wireless Devices:** Search for your new WiFi network name (SSID) on your device and enter the password you created during setup.

**Wired Devices:** Connect an Ethernet cable from your device to one of the router's yellow LAN ports.

### Guest WiFi Network

To provide internet access to guests without sharing your main network, enable and configure the Guest WiFi network through the Nighthawk app or web interface. This isolates guest devices from your primary network resources.

### USB Storage Sharing

Connect a USB storage device to the router's USB 3.0 port to share files across your network or access them remotely via NETGEAR ReadyCLOUD.

### Parental Controls and Security

Utilize the Nighthawk app or web interface to set up parental controls, manage device access, and configure NETGEAR Armor for enhanced network security against cyber threats.



Figure 5: A smartphone screen displaying the NETGEAR Armor security dashboard, showing blocked threats and device security status.

## MAINTENANCE

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- **Firmware Updates:** Regularly check for and install firmware updates through the Nighthawk app or router's web interface to ensure optimal performance, security, and access to new features.
- **Physical Cleaning:** Keep the router clean and free of dust. Ensure proper ventilation by not obstructing the vents.
- **Restarting:** Periodically restart your router (unplug for 10 seconds, then plug back in) to refresh its connection and clear temporary issues.
- **Backup Settings:** Consider backing up your router's configuration settings through the web interface before major changes or firmware updates.

## TROUBLESHOOTING

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### No Internet Connection

- Check if the Internet LED on the router is solid white. If not, ensure your modem is working correctly and the Ethernet cable between the modem and router is securely connected.
- Restart both your modem and router.
- Verify your internet service provider (ISP) connection.

## Slow WiFi Speed

- Ensure your devices are connected to the 5 GHz band for faster speeds, if supported.
- Reduce interference by moving the router away from other electronics.
- Check for firmware updates.
- Consider the number of devices connected and their bandwidth usage.

## Cannot Access Router Settings

- Ensure your device is connected to the router's network.
- Try accessing <http://www.routerlogin.net> or the router's IP address (e.g., 192.168.1.1).
- If you forgot your password, you may need to perform a factory reset (refer to Physical Overview section).

## SPECIFICATIONS

Feature	Detail
Model Name	RAX50-100NAR
WiFi Technology	WiFi 6 (802.11ax)
WiFi Speed	AX5400 (5.4 Gbps)
WiFi Coverage	Up to 2,500 sq. ft.
Connected Devices	Up to 25 devices
Ethernet Ports	4 x 1G Ethernet LAN ports, 1 x 1G Internet (WAN) port
USB Ports	1 x USB 3.0 port
Processor	Triple-core 1.5GHz processor
Dimensions	10 x 14.7 x 4.7 inches
Item Weight	3.57 pounds

## WARRANTY AND SUPPORT

This product is sold as a renewed item. Please refer to the specific warranty terms provided by the seller or Amazon Renewed at the time of purchase. For technical support, visit the official NETGEAR support website or use the Nighthawk app.

- **NETGEAR Support Website:** [www.netgear.com/support](http://www.netgear.com/support)
- **Nighthawk App:** Available on Apple App Store and Google Play Store.