NETGEAR RAX45-100NAS

NETGEAR Nighthawk AX6 WiFi 6 Router

Model: RAX45-100NAS

Introduction

The NETGEAR Nighthawk AX6 6-Stream AX4300 WiFi 6 Router (RAX45-100NAS) provides advanced wireless connectivity for modern smart homes. Designed to support multiple devices simultaneously, it offers enhanced speed and reliability for streaming, gaming, and general internet use. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your router.

Key Features:

- **WiFi 6 Technology:** Delivers up to four times the data capacity over previous standards, supporting more devices with better reliability and faster speeds.
- **6-Stream AX WiFi:** Enables smooth 4K UHD content streaming to smart TVs, mobile devices, and gaming consoles.
- **Gigabit WiFi Speeds:** Enjoy speeds greater than 1Gbps for rapid streaming and downloading.
- **Powerful Triple-core 1.5GHz Processor:** Increases overall network performance for efficient data handling.
- **Ultimate Range:** High-power amplifiers extend WiFi coverage throughout very large homes.
- **Dual-Band Support:** Operates on both 2.4 GHz and 5 GHz frequencies for optimized performance across various devices.

What's in the Box

Verify that all items are present in the packaging:

- NETGEAR Nighthawk AX6 WiFi 6 Router (RAX45-100NAS)
- Power Adapter
- Ethernet Cable

- Quick Start Guide



Image: The retail packaging for the Netgear Nighthawk AX6 6-Stream WiFi Router, showing the router and its key features.

Setup Instructions

1. Physical Connection

1. **Position the Router:** Place the router in a central location in your home, away from obstructions and other electronic devices that might cause interference.
2. **Connect to Modem:**
    - Power off your existing modem.
    - Connect one end of the provided Ethernet cable to the yellow Internet port on the router.
    - Connect the other end of the Ethernet cable to an Ethernet port on your modem.
3. **Connect Power:**
    - Connect the power adapter to the router's power port.
    - Plug the power adapter into a power outlet.
    - Power on your modem, then wait for it to fully boot up (usually indicated by stable indicator lights).
    - Power on the router. Wait for the router's power LED to turn solid white.
4. **Attach Antennas:** Screw the four external antennas onto the connectors on the router. Adjust them for optimal signal coverage.



Image: Rear view of the Nighthawk AX6 router, highlighting the yellow Internet port, four Ethernet LAN ports, USB 3.0 port, reset button, power input, and on/off switch.

2. Initial Configuration

5. **Connect to Router's WiFi:**
    - On your computer or mobile device, search for available WiFi networks.
    - Select the NETGEAR network name (SSID) found on the router's label.
    - Enter the default password (also found on the router's label) to connect.
6. **Access Router Settings:**
    - Open a web browser and type routerlogin.net or 192.168.1.1 into the address bar.
    - Follow the on-screen instructions from the NETGEAR genie setup wizard to configure your internet connection and personalize your WiFi network name and password.
7. **NETGEAR Nighthawk App:** For easier setup and management, download the NETGEAR Nighthawk app from your mobile device's app store. The app provides intuitive controls for network settings, parental controls, and security features.

Your browser does not support the video tag.

Video: A closer look at the Netgear Nighthawk AX6 router, demonstrating its physical features and setup process, including antenna attachment and port overview.

Operating Your Router

WiFi Network Management

The Nighthawk AX6 operates on dual bands (2.4 GHz and 5 GHz) to provide optimal performance for different devices:

- **2.4 GHz Band:** Ideal for longer range and penetrating walls, suitable for older devices or those that don't require high bandwidth (e.g., smart home devices).
- **5 GHz Band:** Offers faster speeds and lower latency, best for high-bandwidth activities like 4K streaming, online gaming, and connecting newer devices in closer proximity to the router.

The router can intelligently assign devices to the best available band for optimal performance. You can manage these settings via the NETGEAR Nighthawk app or the web interface.

Connecting Devices

To connect a new device:

1. Enable WiFi on your device.
2. Select your router's WiFi network name (SSID) from the list of available networks.
3. Enter your WiFi password when prompted.
4. For wired connections, use an Ethernet cable to connect your device to one of the four LAN ports on the back of the router.



Image: Front view of the Netgear Nighthawk AX6 router, showcasing its sleek design and indicator lights for power, internet, WiFi bands, and Ethernet ports.

Maintenance

- **Firmware Updates:** Regularly check for and install firmware updates through the Nighthawk app or the router's web interface. Updates provide security enhancements, bug fixes, and new features.
- **Router Placement:** Ensure the router remains in an open, central location to maximize WiFi coverage and minimize interference.

- **Cleaning:** Keep the router clean and free of dust to prevent overheating. Use a soft, dry cloth for cleaning.
- **Rebooting:** Periodically reboot your router (unplug from power for 10 seconds, then plug back in) to refresh its connection and improve performance.

Troubleshooting

No Internet Connection

- Check all cable connections between the router, modem, and power outlet. Ensure they are secure.
- Reboot both your modem and router. Power off both devices, wait 30 seconds, then power on the modem first, followed by the router.
- Verify that the Internet LED on the router is solid white. If it's amber or off, there might be an issue with your internet service provider (ISP) connection.

Slow WiFi Speeds or Frequent Disconnections

- **Router Placement:** Move the router to a more central location, away from large metal objects, concrete walls, and other electronic devices (microwaves, cordless phones) that can cause interference.
- **Interference:** Try changing the WiFi channel in the router settings (via the Nighthawk app or web interface) to avoid interference from neighboring networks.
- **Firmware:** Ensure your router's firmware is up to date.
- **Device Overload:** If many devices are connected, consider disconnecting unused devices or utilizing the dual-band feature to distribute traffic.

Cannot Access Router Login Page

- Ensure your device is connected to the router's WiFi network or via an Ethernet cable.
- Try clearing your browser's cache and cookies, or use a different web browser.
- Verify you are typing the correct address: routerlogin.net or 192.168.1.1.
- If all else fails, perform a factory reset (see below).

Factory Reset

To perform a factory reset, locate the Reset button on the back of the router. With the router powered on, use a paperclip or similar pointed object to press and hold the Reset button for about 7-10 seconds until the power LED blinks. Release the button, and the router will restart with factory default settings. You will need to reconfigure your network.

Specifications

Feature	Detail

Feature	Detail
Brand	NETGEAR
Model Name	RAX45
Item Model Number	RAX45-100NAS
Wireless Standard	802.11a/b/g/n/ac, 802.11ax (WiFi 6)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Processor	Triple-core 1.5 GHz
Connectivity Technology	Wi-Fi, USB, Ethernet
Ethernet Ports	4 x Gigabit Ethernet LAN ports, 1 x Gigabit Ethernet WAN port
USB Ports	1 x USB 3.0 port
Antennas	4 External Antennas
Product Dimensions	11.65 x 8.11 x 2.25 inches
Item Weight	3.04 pounds
Special Feature	WPS (WiFi Protected Setup)
Compatible Devices	Gaming Console, Smart Television, Mobile Devices, Computers

Warranty and Support

For detailed warranty information and technical support, please refer to the official NETGEAR website or the documentation included with your product. You can also find FAQs and community forums for additional assistance. Visit the NETGEAR Support Page for the latest resources.

© 2024 NETGEAR. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question