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› NETGEAR Nighthawk AX8 WiFi 6 Router User Manual

NETGEAR RAX80-100CNS

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Model: RAX80-100CNS

INTRODUCTION

The NETGEAR Nighthawk AX8 8-Stream AX6000 WiFi Router (RAX80-100NAS) is designed to provide improved network capacity and incredibly fast internet experience for your home. Powered by a 64-bit 1.8GHz Quad-core processor, it efficiently handles multi-gigabit data transfer. With 160MHz channel support, it doubles speeds for compatible devices, ensuring optimal performance for all your connected devices.

WHAT'S IN THE BOX

- Nighthawk AX8/8-stream AX6000 WiFi Router (RAX80)
- Ethernet cable
- Power adapter
- Quick start guide

SETUP

Setting up your NETGEAR Nighthawk AX8 router is a straightforward process designed for quick and easy installation. Follow these steps to get your network up and running.

1. Connect Your Router

Connect the router to your existing cable modem or gateway using the provided Ethernet cable. Plug the power adapter into the router and an electrical outlet. Wait for the power LED to stabilize.



Figure 1: Front view of the NETGEAR Nighthawk AX8 Router, showcasing its distinctive design with foldable wings.

Supports Internet plans up to 2Gbps and up to 5 gigabit wired connections



Figure 2: Rear view of the NETGEAR Nighthawk AX8 Router, highlighting the 5 Gigabit Ethernet LAN ports, 2 USB 3.0 ports, and Internet (WAN) port for wired connections.

2. Download the Nighthawk App

For the easiest setup, download the NETGEAR Nighthawk app on your mobile device. The app guides you through the installation process step-by-step.

The Nighthawk App Makes it Easy to Setup, Monitor, and Protect Your Household



Simple setup
and monitoring



NETGEAR Armor™
all-in-one internet security*



Smart Parental
Controls*

*requires subscription after 30-day free trial

Figure 3: Screenshots of the Nighthawk App interface, showing options for simple setup, monitoring, NETGEAR Armor, and Smart Parental Controls.

3. Follow In-App Instructions

Open the Nighthawk app and follow the on-screen instructions to connect to your new WiFi network, customize settings, and manage your devices. The app allows you to easily manage your WiFi settings at the device and network level, test your Internet speed, view speed history, and monitor data usage.

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Video 1: Official overview and setup guide for the NETGEAR Nighthawk AX8 8-Stream AX6000 WiFi Router (RAX80). This video demonstrates the physical setup and initial configuration steps.

OPERATING THE ROUTER

The Nighthawk AX8 is designed for high performance and ease of use, supporting a multitude of devices and applications simultaneously.

WiFi 6 Technology

The router utilizes WiFi 6 (802.11ax) technology, which significantly improves network efficiency and capacity, especially in environments with many connected devices. This allows for simultaneous streaming of movies, games, and video calls at speeds up to 6Gbps.



Figure 4: Visual representation of the Nighthawk RAX80 WiFi 6 Router's capabilities, including 8 simultaneous WiFi streams, 4x more device capacity, and 6Gbps WiFi speed.

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Video 2: An informational video explaining the benefits of WiFi 6 technology, including better capacity, increased network efficiency, and extended battery life for connected devices.

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Video 3: This video explains how WiFi 6 and OFDMA (Orthogonal Frequency Division Multiple Access) technology increase the capacity and efficiency of your WiFi network, especially in homes with many smart devices.

Smart Home Device Support

The AX8 is optimized to handle a large number of smart home devices, providing stable and reliable connections even with constant small data transmissions. Its 1.8GHz quad-core processor ensures smooth operation for 4K UHD streaming and gaming.

Video 4: This video highlights the features of NETGEAR Armor Cybersecurity, which provides comprehensive protection for all devices connected to your WiFi network.

Parental Controls

Utilize NETGEAR Smart Parental Controls to manage internet access for your family, promote healthy online habits, and build trust. This feature is accessible via the Nighthawk app.

TROUBLESHOOTING

If you encounter issues with your Nighthawk AX8 router, try these common troubleshooting steps:

- **No Internet Connection:** Check all cable connections. Ensure the modem is working correctly. Restart both the modem and the router.
- **Slow WiFi Speed:** Ensure your devices are compatible with WiFi 6 for optimal performance. Reduce the number of active devices if possible. Check for firmware updates.
- **Intermittent Connection:** Move the router to a central location to improve signal strength. Check for interference from other electronic devices.
- **Cannot Access Router Settings:** Ensure your device is connected to the router's WiFi network or via an Ethernet cable. Try clearing your browser's cache or using a different browser.

SPECIFICATIONS

Feature	Detail
Product Dimensions	12 x 7.95 x 6.34 inches
Item Weight	2.82 pounds
Item Model Number	RAX80-100CNS
Brand	NETGEAR
Model Name	RAX80-100NAS
Wireless Communication Standard	802.11ax (WiFi 6)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Processor	1.8GHz Quad-core processor
Ethernet Ports	5 x 1G Ethernet ports
USB Ports	2 x 3.0 USB ports
Coverage	Up to 2,500 sq. ft.

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official NETGEAR website or the documentation included with your product.

- [User Guide \(PDF\)](#)
- [User Manual \(PDF\)](#)

NETGEAR also offers protection plans for extended coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan)