NETGEAR R8000-100AUS

NETGEAR Nighthawk X6 Smart Wi-Fi Router (R8000) User Manual

Model: R8000-100AUS

Introduction

This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your NETGEAR Nighthawk X6 Smart Wi-Fi Router (R8000). Please read this manual carefully before using the device to ensure optimal performance and safety.

Product Overview

The NETGEAR Nighthawk X6 AC3200 router is designed to deliver high-speed Tri-Band Wi-Fi for homes with numerous connected devices. It offers wireless speeds up to 3.2 Gbps and extended coverage, making it suitable for very large homes with up to 50 devices. Key features include a 1GHz dual-core processor, six amplified antennas, Beamforming+, Dynamic QoS, and multiple Ethernet and USB ports for versatile connectivity.



Figure 1: Front view of the NETGEAR Nighthawk X6 Smart Wi-Fi Router (R8000) with its six antennas extended, showcasing its sleek black design and ventilation grilles.



Figure 2: Top-down view of the NETGEAR Nighthawk X6 Smart Wi-Fi Router (R8000), highlighting the arrangement of its six antennas and the central indicator lights.



Figure 3: Rear view of the NETGEAR Nighthawk X6 Smart Wi-Fi Router (R8000), showing the various ports including four 1 Gigabit Ethernet ports, two USB ports (one USB 3.0 and one USB 2.0), and power input.

Setup Instructions

1. Unboxing and Placement

Carefully remove all components from the packaging. Ensure you have the router, power adapter, and an Ethernet cable. Place the router in a central location in your home, away from obstructions and other electronic devices that may cause interference.

2. Hardware Connection

1. **Connect the Modem:** Disconnect power from your modem. Connect one end of the Ethernet cable to the yellow Internet port on your Nighthawk router and the other end to your modem's Ethernet port.
2. **Power On:** Connect the power adapter to the router and plug it into a power outlet. Wait for the power LED on the router to turn solid white.
3. **Connect Devices:**
   - **Wired Devices:** Connect computers, game consoles, or other wired devices to the yellow Gigabit Ethernet LAN ports (1-4) on the router using Ethernet cables.
   - **Wireless Devices:** Locate the Wi-Fi network name (SSID) and password on the router's label. Connect your wireless devices (smartphones, tablets, laptops) to this network.

3. Initial Configuration (NETGEAR genie app)

For the easiest setup, download the NETGEAR genie app on your mobile device. The app will guide you through the installation process, including setting up your Wi-Fi network name and password, and updating firmware.

- Download the NETGEAR genie app from your device's app store.
- Launch the app and follow the on-screen instructions to detect and configure your router.
- Alternatively, you can open a web browser on a connected computer and type **www.routerlogin.net** or **192.168.1.1** into the address bar. Follow the setup wizard.

Operating Instructions

Wi-Fi Connectivity

The Nighthawk X6 (R8000) features Tri-Band Wi-Fi, providing three distinct Wi-Fi bands (one 2.4 GHz and two 5 GHz) to optimize performance for multiple devices. The Smart Connect feature automatically assigns devices to the fastest available Wi-Fi band.

- **2.4 GHz Band:** Ideal for older devices and devices that are further away from the router, offering wider coverage.
- **5 GHz Bands (x2):** Best for newer, high-bandwidth devices like smart TVs, gaming consoles, and streaming devices, providing faster speeds and less interference.

Dynamic QoS (Quality of Service)

Dynamic QoS prioritizes internet traffic by application and device, ensuring smooth streaming, gaming, and voice calls even when multiple devices are active. This feature automatically detects and allocates bandwidth based on the type of data being transmitted.

Your browser does not support the video tag.

Video 1: An explanatory video from NETGEAR detailing how Dynamic Quality of Service (QoS) works to prioritize internet traffic for different applications and devices, ensuring optimal performance for activities like gaming and streaming.

USB Storage and Printer Sharing

The router includes one USB 3.0 port and one USB 2.0 port. You can connect a USB storage drive to share files across your network or connect a USB printer to make it accessible to all connected devices.

- **ReadySHARE USB Access:** Connect a USB storage device to either USB port. Access files from any device on your network using the ReadySHARE feature.
- **ReadySHARE Printer:** Connect a USB printer to the router. Install the ReadySHARE Printer utility on your computers to print wirelessly.

Maintenance

- **Firmware Updates:** Regularly check for and install firmware updates through the NETGEAR genie app or the router's web

interface. Firmware updates provide performance improvements, security enhancements, and new features.

- **Router Reboot:** Periodically reboot your router (unplug from power for 10 seconds, then plug back in) to clear its memory and refresh network connections. This can resolve minor performance issues.
- **Physical Cleaning:** Keep the router clean and free from dust. Ensure ventilation openings are not blocked to prevent overheating.
- **Security:** Change default administrator passwords and Wi-Fi passwords regularly. Enable network security features like WPA2/WPA3 encryption.

Troubleshooting

Problem	Possible Cause	Solution
No Internet Connection	Modem or router not powered on; incorrect cable connections; ISP issue.	Check power to modem and router. Ensure Ethernet cables are securely connected. Reboot modem and router. Contact your Internet Service Provider (ISP) if the issue persists.
Slow Wi-Fi Speed	Interference; too many devices; outdated firmware; router placement.	Move router away from other electronics. Ensure Dynamic QoS is enabled. Update router firmware. Optimize router placement for better signal.
Cannot Access Router Settings	Incorrect IP address or login credentials; network issue.	Ensure you are connected to the router's network. Try **www.routerlogin.net** or **192.168.1.1**. Reset router to factory defaults (this will erase all custom settings).
Wi-Fi Disconnects Frequently	Channel interference; weak signal; firmware issue.	Change Wi-Fi channel in router settings. Adjust antenna orientation. Update firmware.

Specifications

- **Model:** R8000-100AUS
- **Wireless Type:** 802.11ac (AC3200 Tri-Band)
- **Wi-Fi Speed:** Up to 3.2 Gbps (600 Mbps on 2.4 GHz, 1300 Mbps + 1300 Mbps on 5 GHz)
- **Processor:** 1GHz Dual Core Processor
- **Antennas:** 6 High-Performance External Antennas
- **Ethernet Ports:** 4 x 1 Gigabit Ethernet LAN ports, 1 x 1 Gigabit Ethernet WAN port
- **USB Ports:** 1 x USB 3.0, 1 x USB 2.0
- **Security:** WPA/WPA2-PSK, Double Firewall Protection (SPI and NAT), Denial-of-Service (DoS) attack prevention, VPN support, Guest Wi-Fi access, NETGEAR Armor Security (30-day free trial)
- **Dimensions (LxWxH):** 2.14 x 11.54 x 8.92 inches
- **Weight:** 0.32 ounces
- **Operating System Compatibility:** Microsoft Windows 7, 8, Vista, XP, 2000, Mac OS, UNIX, Linux

Warranty Information

Please refer to the official NETGEAR website or the warranty card included in your product packaging for detailed warranty terms and conditions. Warranty coverage typically includes defects in materials and workmanship under normal use.
Legal Disclaimer: *This product may not be covered by the original manufacturer's warranty if purchased from an unauthorized*

reseller. Please verify seller authorization for warranty eligibility.

Support

For further assistance, technical support, or to access the latest drivers and firmware, please visit the official NETGEAR support website:
www.netgear.com/support/
You can also utilize the NETGEAR genie app for network management and troubleshooting directly from your mobile device.

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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