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> NETGEAR Nighthawk X6S Smart Wi-Fi Router (R8000P) Instruction Manual

NETGEAR R8000P

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1. INTRODUCTION

The NETGEAR Nighthawk X6S AC4000 Tri-Band WiFi Router (Model R8000P) is designed to provide high-performance wireless connectivity for homes with multiple Wi-Fi devices. It offers AC4000 speed, tri-band technology, and extended coverage up to 3500 square feet, supporting up to 55 devices simultaneously. This manual provides essential information for setting up, operating, and maintaining your router.

2. WHAT'S IN THE BOX

- Nighthawk X6S AC4000 Tri-Band WiFi Router (R8000P)
- Ethernet cable
- Quick installation guide
- Power adapter

3. PRODUCT OVERVIEW

The Nighthawk X6S R8000P router features a sleek black design with six amplified antennas for optimal signal strength and range. It is equipped with a dual-core 1.8GHz processor and three offload processors to handle data-intensive applications, ensuring smooth video streaming, lag-free gaming, and efficient browsing.



Figure 1: NETGEAR Nighthawk X6S AC4000 Tri-Band WiFi Router (R8000P).

Ports and Indicators

The rear panel of the router includes essential ports for connectivity and control:

- **4 x 1 Gigabit Ethernet Ports:** For wired connections to computers, game consoles, streaming players, and other devices.
- **1 x USB 3.0 Port:** For high-speed data transfer, sharing storage drives, and printers.
- **1 x USB 2.0 Port:** For connecting additional USB devices.
- **WAN Port:** To connect to your modem for internet access.
- **Power On/Off Button:** To manually turn the router on or off.
- **Reset Button:** To restore factory default settings.



Figure 2: Rear panel of the Nighthawk X6S router with Ethernet, WAN, USB, and power ports.

Key Features

- **Tri-Band Wi-Fi:** Delivers multiple bands (750 + 1625 + 1625 Mbps) for homes with many Wi-Fi devices, optimizing speeds.
- **Beamforming+:** Improves Wi-Fi signal strength, reliability, and range by directing signals directly to devices.
- **MU-MIMO:** Enables simultaneous streaming of data to multiple devices for enhanced performance.
- **Smart Connect:** Intelligently selects the fastest Wi-Fi band for each device.
- **NETGEAR Armor:** Provides an automatic shield of security across all connected devices (30-day free trial included).
- **NETGEAR Smart Parental Controls:** Promotes healthy Internet habits and manages content (30-day free trial included).
- **Guest WiFi Access:** Provides separate and secure network access for guests.
- **VPN Support:** Secure remote access.

4. SETUP INSTRUCTIONS

Setting up your NETGEAR Nighthawk X6S router is a straightforward process, primarily guided by the Nighthawk app.

1. **Unpack the Router:** Remove the router and all accessories from the box.
2. **Connect the Antennas:** Attach the six amplified antennas to the designated ports on the router.

3. **Position the Router:** Place the router in a central location for optimal Wi-Fi coverage. Avoid placing it near large metal objects, concrete walls, or other electronic devices that may cause interference.
4. **Connect to Modem:**
 - Power off your modem.
 - Connect one end of the provided Ethernet cable to the WAN port (yellow) on your Nighthawk router.
 - Connect the other end of the Ethernet cable to your modem's Ethernet port.
 - Power on your modem and wait for it to fully boot up (usually indicated by stable internet lights).
5. **Power On the Router:** Connect the power adapter to the router's power port and plug it into an electrical outlet. Press the Power On/Off button. Wait for the router's LED indicators to stabilize.
6. **Install the Nighthawk App:** Download the NETGEAR Nighthawk app from the Apple App Store or Google Play Store on your mobile device.
7. **Follow In-App Instructions:** Open the Nighthawk app and follow the on-screen prompts to detect your router, set up your Wi-Fi network name (SSID) and password, and configure other settings.



Figure 3: The Nighthawk app facilitates easy setup and management of your router.

5. OPERATING INSTRUCTIONS

Once your Nighthawk X6S router is set up, you can manage its features and optimize your network performance.

Managing Your Wi-Fi Network

- **Nighthawk App:** Use the app to monitor your network, run speed tests, manage connected devices, and access parental controls.
- **Web Interface:** For advanced settings, access the router's web interface by typing `routerlogin.net` or `192.168.1.1` into a web browser on a device connected to your network.
- **Smart Connect:** This feature automatically assigns devices to the optimal Wi-Fi band (2.4 GHz or 5 GHz) for the best performance.
- **Guest Network:** Create a separate Wi-Fi network for guests to keep your main network secure.

USB Storage and Printer Sharing

Utilize the USB 3.0 and USB 2.0 ports to connect external storage devices or printers. This allows you to share files across your network or print from any connected device.

Security and Parental Controls

- **NETGEAR Armor:** Activate your 30-day free trial to protect your network from cyber threats, malware, and phishing.
- **Smart Parental Controls:** Manage content, set time limits, and monitor online activity for connected devices. A 30-day free trial is included.
- **VPN Support:** Establish a secure remote connection to your home network.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates through the Nighthawk app or web interface to ensure optimal performance and security.
- **Cleaning:** Keep the router clean and free from dust to prevent overheating. Use a soft, dry cloth.
- **Placement:** Ensure the router is in a well-ventilated area and not obstructed.
- **Restarting:** Periodically restart your router (power cycle) to refresh its connection and improve performance.

7. TROUBLESHOOTING

If you encounter issues with your Nighthawk X6S router, try the following steps:

- **No Internet Connection:**
 - Check all cable connections between the modem and router.
 - Restart your modem and then your router.
 - Verify your internet service provider (ISP) connection.
- **Slow Wi-Fi Speed:**
 - Ensure your devices are connected to the optimal Wi-Fi band (5 GHz for closer, faster connections).
 - Reduce interference by moving the router away from other electronics.
 - Check for active downloads or streaming on other devices.
 - Run a speed test using the Nighthawk app to confirm your internet speed from the ISP.
- **Cannot Connect to Wi-Fi:**
 - Verify the Wi-Fi network name (SSID) and password.
 - Ensure the Wi-Fi radio is enabled on the router (check LED indicators).
 - Restart your device and try connecting again.
- **Forgotten Admin Password:** Use the password recovery option in the Nighthawk app or perform a factory reset (this will erase all custom settings).

8. SPECIFICATIONS

Brand	NETGEAR
Model Name	R8000P-1AZNAS
Wireless Type	802.11ac
Frequency Band Class	Tri-Band
Wireless Speed	AC4000 (Up to 750 + 1625 + 1625 Mbps)

Coverage	Up to 3500 Sq Ft
Devices Supported	Up to 55 devices
Processor	Dual core 1.8GHz processor
Ethernet Ports	4 x 1 Gigabit Ethernet ports
USB Ports	1 x USB 3.0, 1 x USB 2.0
Item Weight	2.43 pounds
Product Dimensions	2.14 x 11.63 x 8.92 inches
Operating System	NETGEAR OS

9. WARRANTY AND SUPPORT

The NETGEAR Nighthawk X6S Smart Wi-Fi Router (R8000P) typically includes a complimentary 1-year product warranty. Additionally, 90-day support is often provided with NETGEAR ProSupport. For detailed warranty information and support options, please refer to the official NETGEAR website or contact their customer service. Free trials for NETGEAR Armor cybersecurity and Smart Parental Controls are available for 30 days upon activation.

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