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› NETGEAR Nighthawk Pro Gaming XR700 WiFi Router User Manual

NETGEAR XR700-100NAS

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Model: XR700-100NAS

1. INTRODUCTION

The NETGEAR Nighthawk Pro Gaming XR700 WiFi Router is designed to optimize internet connections for gaming by stabilizing ping, reducing lag spikes, and providing reliable wired and wireless connectivity. This router features advanced software to enhance network performance and offers tools for network management and security.



Figure 1.1: Front view of the NETGEAR Nighthawk Pro Gaming XR700 WiFi Router.

2. WHAT'S IN THE BOX

Verify that your package contains the following items:

- XR700 Nighthawk Pro Gaming Router
- Ethernet cable
- Power adapter
- Quick Start Guide



Figure 2.1: Retail packaging for the NETGEAR Nighthawk Pro Gaming XR700 WiFi Router.

3. PRODUCT FEATURES

The XR700 router incorporates several features designed for high-performance networking, particularly for gaming:

- **Optimized Connectivity:** Six 1-Gigabit Ethernet ports provide wired connections with minimal latency.
- **High-Speed WiFi:** AD7200 Quad-stream router technology delivers WiFi speeds up to 7.2 Gbps.
- **Advanced Quality of Service (QoS):** Prioritizes gaming traffic to reduce lag spikes and network congestion.
- **Geo-Filtering:** Connects to the closest game servers and players to minimize ping.
- **Real-time Network Monitoring:** Allows users to view bandwidth utilization and ping in real time.
- **Secure VPN Client:** Protects network identity and helps prevent DDoS attacks.
- **Powerful Processor:** A 1.7 GHz quad-core processor enhances network efficiency.

4. SETUP GUIDE

Follow these steps to set up your NETGEAR Nighthawk Pro Gaming XR700 WiFi Router:

1. **Unpack the Router:** Remove the router and all accessories from the packaging.
2. **Position the Router:** Place the router in a central location to maximize WiFi coverage. Ensure it is away from obstructions and other electronic devices that may cause interference.

3. **Connect to Modem:** Connect one end of the provided Ethernet cable to the yellow Internet port on the back of the XR700 router. Connect the other end to your modem's Ethernet port.
4. **Connect Power:** Plug the power adapter into the router's power port and then into an electrical outlet. Press the Power On/Off button if necessary.
5. **Wait for Initialization:** Allow the router to power on and initialize. The LED indicators on the front panel will illuminate. Wait for the Internet LED to turn solid white, indicating a successful connection.
6. **Connect Devices:** Connect your computer or gaming console to one of the router's Ethernet ports using an Ethernet cable, or connect wirelessly using the default WiFi network name (SSID) and password found on the router's label.
7. **Access Router Interface:** Open a web browser and navigate to routerlogin.net or 192.168.1.1. Follow the on-screen instructions for initial setup, including setting up your administrator password and WiFi network details.

Get lag-free, wired connectivity with six 1-Gigabit Ethernet ports and one 10 Gigabit Ethernet LAN SFP+ port to move your data 10x faster



Figure 4.1: Rear panel of the XR700 router showing port layout.

5. OPERATING INSTRUCTIONS

The XR700 router utilizes DumaOS for its advanced gaming features. Access the DumaOS dashboard via your web browser after logging into the router.

5.1. Quality of Service (QoS)

QoS allows you to prioritize network traffic for specific devices or applications, ensuring that critical data (like game packets) receives preferential treatment. This helps in reducing lag spikes during high network usage.

- Navigate to the **QoS** section in the DumaOS dashboard.
- Configure bandwidth allocation for download and upload speeds.
- Assign priority levels to your gaming devices to ensure they receive adequate bandwidth.

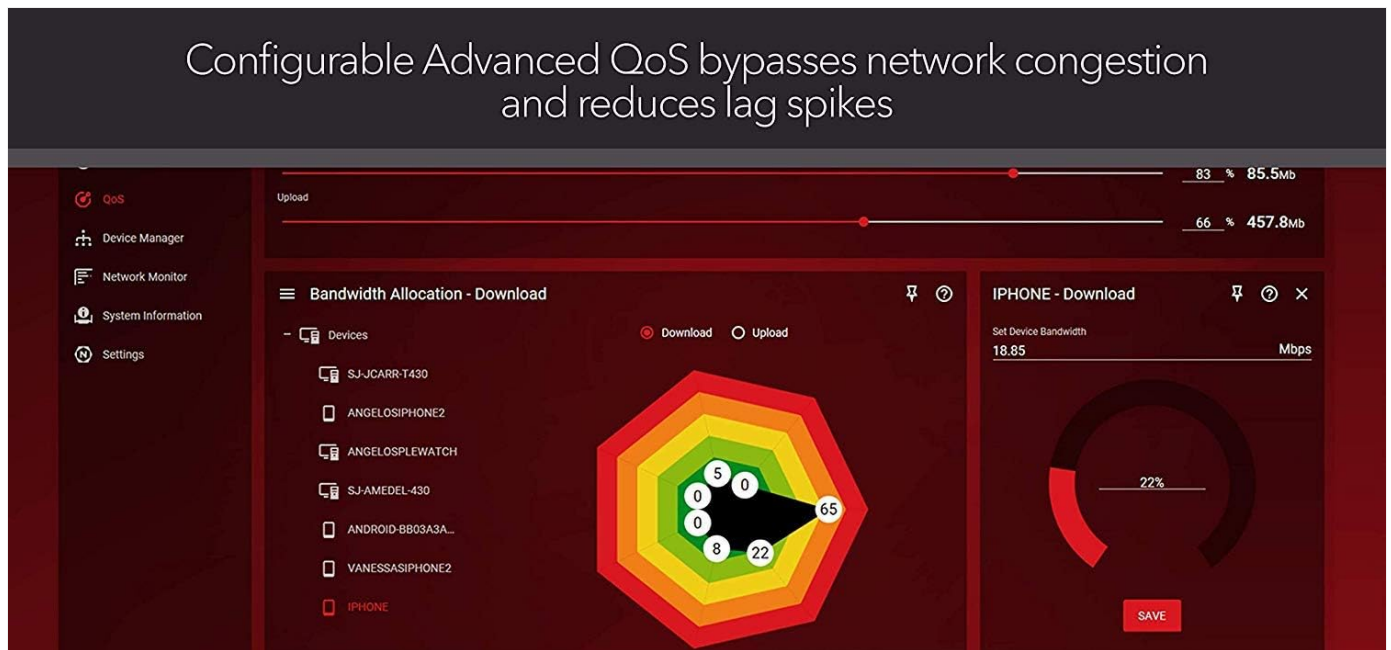


Figure 5.1: DumaOS QoS interface for bandwidth management.

5.2. Geo-Filter

The Geo-Filter feature allows you to connect to game servers and players within a specified geographical range, reducing latency by ensuring you play on closer servers.

- Access the **Geo-Filter** module in DumaOS.
- Set your desired radius or select specific regions to connect to.
- The map will display available servers and players within your chosen filter.

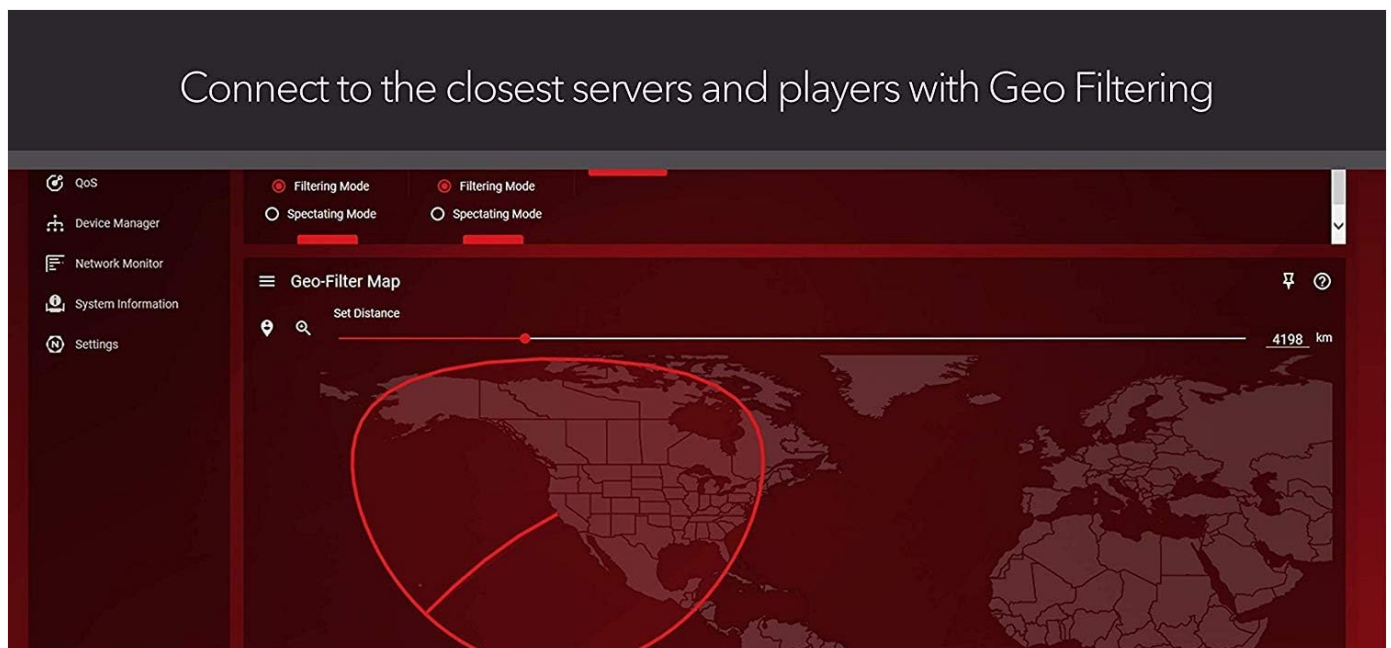


Figure 5.2: DumaOS Geo-Filter map for server selection.

5.3. Network Monitor

The Network Monitor provides real-time insights into your network's performance, including bandwidth usage, ping, and

device activity.

- Open the **Network Monitor** section in DumaOS.
- View graphs and data on download/upload speeds and ping times for connected devices.
- Identify devices consuming significant bandwidth.

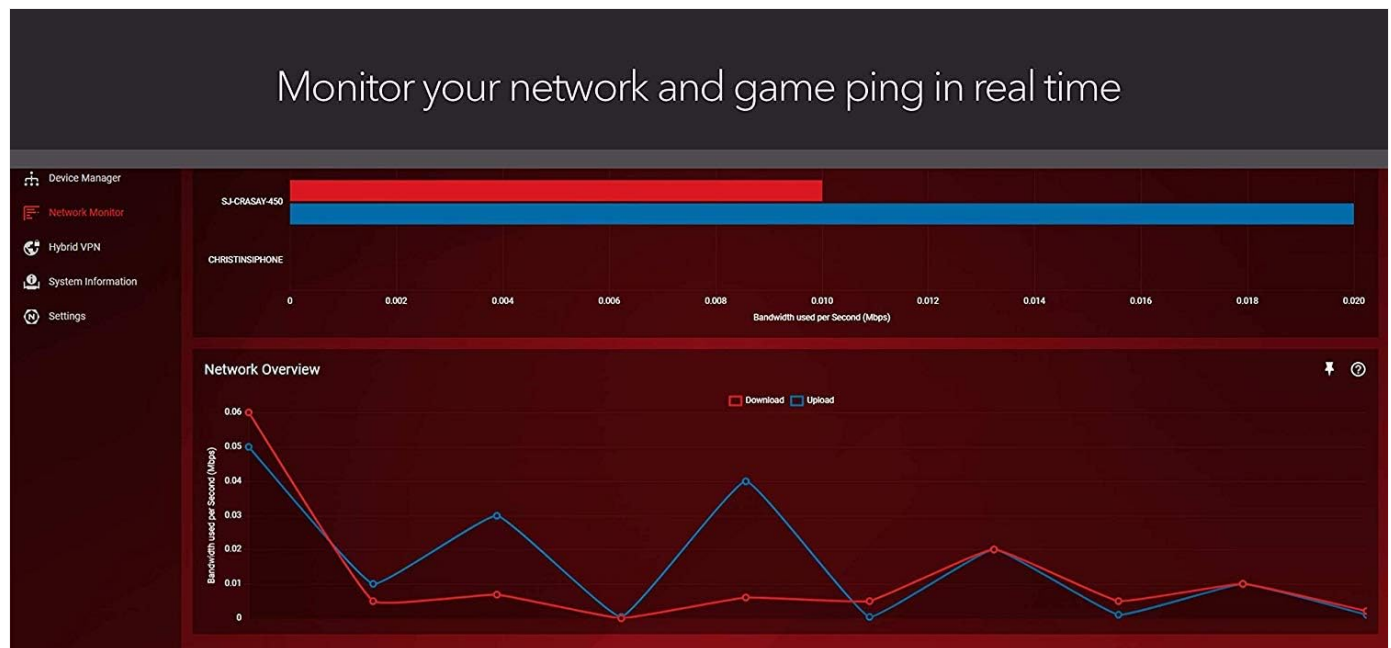


Figure 5.3: DumaOS Network Monitor displaying real-time network statistics.

5.4. VPN Client

The integrated VPN client allows you to connect to a secure VPN server, protecting your network identity and potentially mitigating DDoS attacks.

- Access the **Hybrid VPN** settings in DumaOS.
- Configure your VPN service provider details.
- Enable the VPN connection to secure your network traffic.

6. MAINTENANCE

To ensure optimal performance and longevity of your XR700 router, consider the following maintenance practices:

- **Firmware Updates:** Regularly check for and install the latest firmware updates from the NETGEAR support website or through the router's interface. Firmware updates often include performance improvements, security patches, and bug fixes.
- **Physical Placement:** Ensure the router is in a well-ventilated area to prevent overheating. Avoid placing it in enclosed spaces or near heat sources.
- **Cleaning:** Periodically clean the router's exterior with a soft, dry cloth to remove dust. Do not use liquid cleaners directly on the device.
- **Rebooting:** If you experience network issues, a simple reboot of the router (unplugging the power for 10 seconds and plugging it back in) can often resolve temporary glitches.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your XR700 router.

7.1. No Internet Connection

- **Check Cables:** Ensure all Ethernet cables are securely connected to the router and modem.
- **Modem Status:** Verify that your modem is working correctly and has an active internet connection.
- **Router LEDs:** Check the Internet LED on the router. If it's not solid white, there might be an issue with the connection to your modem or ISP.
- **Reboot Devices:** Power cycle both your modem and router. Unplug them for 30 seconds, then plug the modem back in, wait for it to fully boot, and then plug in the router.

7.2. Slow or Unstable WiFi Connection

- **Router Placement:** Ensure the router is centrally located and not obstructed by large objects or walls.
- **Interference:** Keep the router away from other electronic devices (cordless phones, microwaves) that operate on similar frequencies.
- **Channel Selection:** In the router's WiFi settings, try changing the WiFi channel to a less congested one.
- **Firmware:** Ensure your router's firmware is up to date.
- **5GHz Band Not Visible:** If the 5GHz network is not appearing, ensure it is enabled in the router settings. Some older devices may not support 5GHz WiFi.

7.3. Router Interface is Slow or Unresponsive

- **Browser Cache:** Clear your web browser's cache and cookies, or try accessing the interface from a different browser.
- **Reboot Router:** A simple reboot can often resolve temporary performance issues.
- **Firmware:** Ensure the router's firmware is the latest version.
- **Disable Ad Blockers:** Some ad-blocking browser extensions can interfere with router interfaces. Try disabling them temporarily.

7.4. Ethernet Disconnections During Gaming

- **Cable Integrity:** Inspect the Ethernet cable for any damage. Try using a different, known-good Ethernet cable.
- **Port Check:** Try connecting to a different Ethernet port on the router.
- **Driver Updates:** Ensure your computer's network adapter drivers are up to date.
- **Router Firmware:** Verify that the router's firmware is the latest version, as updates can address stability issues.

8. SPECIFICATIONS

Feature	Specification
Brand	NETGEAR
Model Name	Netgear Nighthawk X10 (XR700-100NAS)
Wireless Type	802.11ad
Frequency Band Class	Tri-Band
Wireless Communication Standard	802.11ad
Connectivity Technology	Wired, Wireless

Ethernet Ports	6 x 1-Gigabit, 1 x 10-Gigabit LAN SFP+
Processor	1.7 GHz Quad-Core
Operating System Compatibility	Microsoft Windows 7, 8, 10, Vista, XP, 2000, Mac OS, UNIX, or Linux
Browser Compatibility	Microsoft Internet Explorer 11+, Microsoft Edge, Google Chrome 55+, Firefox 45+, Safari 10+
Item Weight	4.05 pounds (1.84 Kilograms)
Product Dimensions (LxWxH)	15.33 x 12.49 x 5.32 inches
Color	Black
Voltage	120-240 Volts
Special Feature	WPS

9. WARRANTY AND SUPPORT

NETGEAR provides a limited hardware warranty for this product. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official NETGEAR support website. Technical support is available through the NETGEAR website, which offers resources such as FAQs, troubleshooting guides, and community forums. You can also contact NETGEAR customer service directly for assistance.

For the latest support information, visit:www.netgear.com/support/

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

Open the live page

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