



Advanced Gaming & Streaming

XR500 Nighthawk® Pro Gaming WiFi Router uses state-of-the-art software to optimize your internet connection by stabilizing ping, reducing lag spikes, and keeping you in the game with reliable

wired and wireless connectivity for fast-paced gaming. Personalize your gaming dashboard to view real-time bandwidth utilization by device, ping and many other parameters. Limit lag and get

a guaranteed local connection with Geo-Filter or enable Quality of Service for prioritized gaming devices and allocated bandwidth.

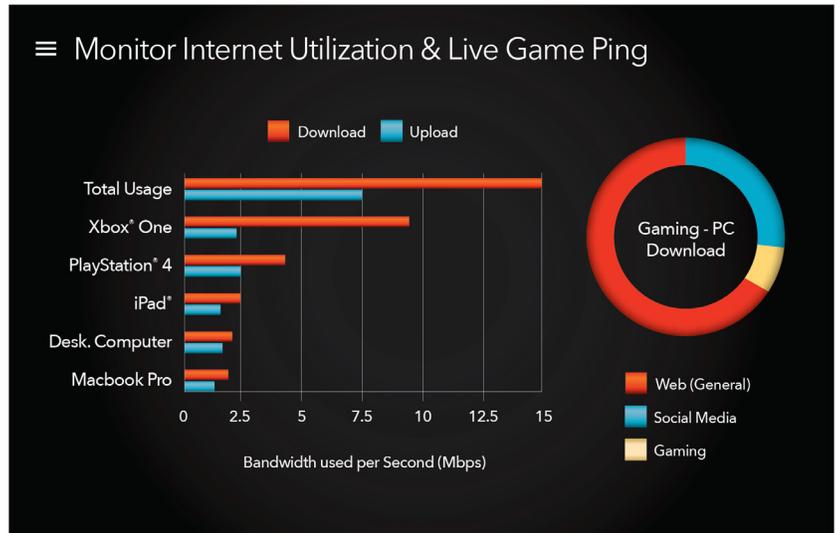
Guarantee Local Connection & Eliminate Lag

Geo-Filter lets you fix your gaming lag by limiting distance to servers or other players. You can get a guaranteed local connection and create a list of your preferred servers.



Monitor Internet Utilization & Live Game Ping

Keep an eye on real-time bandwidth utilization with the Internet Utilization Monitor. Reveal bandwidth-hogging devices and identify the applications which could be causing lag and slowing your game.



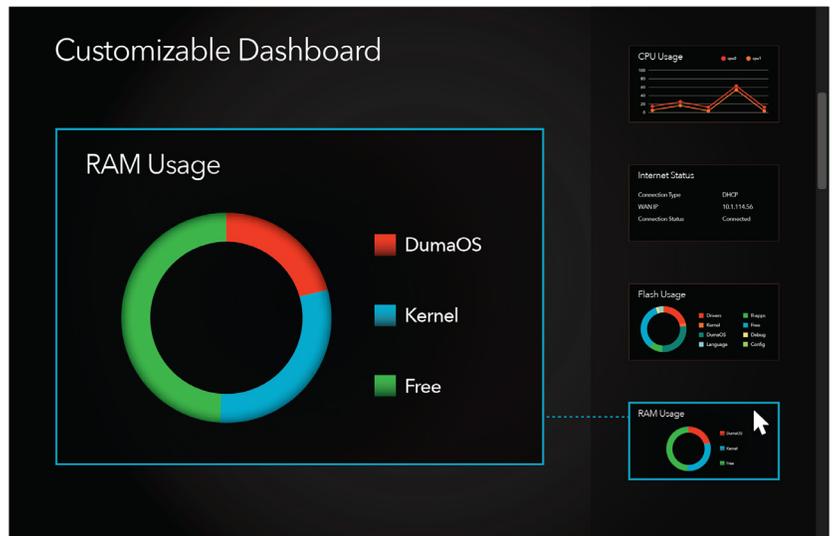
Prioritize Your Gaming Traffic

Prioritize gaming devices and allocate bandwidth by device to eliminate lag due to queuing at the ISP network with Quality of Service (QoS). Control the maximum upload and download speeds per device on the network to minimize sudden lag spikes while gaming.



Customizable Dashboard

Personalize your gaming dashboard to view real-time bandwidth utilization by device, ping and many other parameters on a single screen.



XR500 Nighthawk[®] Pro Gaming Router

Speed

Get blazing-fast WiFi & enjoy a lag-free WiFi experience for VR gaming, video streaming or surfing.



BLAZING FAST WIFI—Up to 2.53Gbps[†]



QUAD STREAM—Up to four data streams per WiFi band maximizes connection speed



MU-MIMO—Multi-user MIMO enables simultaneous streaming to mobile devices



DUAL-CORE PROCESSOR—Dual-core 1.7GHz processor boosts wireless, wired & WAN-to-LAN performance



GIGABIT WIFI—Next-generation WiFi now at Gigabit speeds



GIGABIT WIRED—Ideal for HD gaming & video

Pro Gaming

Stay in the game with reliable connectivity for fast-paced gaming. Optimize your Internet connection by stabilizing ping and reducing lag spikes.



GAMING DASHBOARD—Customizable view of real-time bandwidth utilization by device, ping, etc.



GEO-FILTER—Control your lag by limiting distance to game servers or other players



QUALITY OF SERVICE—Prioritize gaming devices and allocate XR450 Nighthawk[®] Pro Gaming Router



GAMING VPN CLIENT SUPPORT—Protect your network identity and prevent DDoS attacks



NETWORK MONITOR—Check bandwidth-hogging devices and identify what causes lag

WiFi Range

Got range? Homes come in all shapes and sizes and the XR500 Nighthawk[®] Pro Gaming Router provides WiFi coverage no matter where you connect in your home.



ULTIMATE RANGE—WiFi coverage throughout very large homes



ANTENNAS—High-power amplifiers with 4 external antennas

XR500 Nighthawk[®] Pro Gaming Router

Sharing

With NETGEAR, sharing across your network is fun and easy, such as accessing stored photos & music.



READYSHARE[®] USB ACCESS—Wirelessly access & share USB hard drive via two (2) USB ports



TWO SUPERSPEED USB 3.0 PORTS—Up to 10x faster than USB 2.0

Reliable Connections

There's nothing more frustrating than lost connections! With NETGEAR's advanced features & best-in-class technology, you'll reduce interference & enjoy more reliable WiFi connectivity.



BEAMFORMING+—Boosts speed, reliability, & range of WiFi connections



SIMULTANEOUS DUAL BAND WIFI—Supports two WiFi bands simultaneously to double the available bandwidth and provide a reliable, dedicated WiFi network for smooth online gaming without any network congestion



ADDITIONAL DFS CHANNELS—15 more channels in 5GHz for interference free gaming experience

Ease of Use

Start enjoying your new device faster than ever. NETGEAR wants to make sure installation and management is simple & easy, so you can connect quickly & make sure you stay that way!



EASY INSTALL—Easy setup for iPad[®], tablets, smartphones & computers



PUSH 'N' CONNECT—Easy push button WiFi connections (WPS)



POWER ON/OFF—Convenient power savings



LED ON/OFF SWITCH—Easily turn LEDs on or off

Security

Maintain high security across your network to ensure your privacy & family is safe while online. Whether it's preventing phishing & spyware or just limiting access for kids & guests, NETGEAR has you covered.



VPN SUPPORT—OpenVPN Connect app on iOS and Android[®] allows remote secure access to the home network



SECURE WIFI CONNECTIONS—High level wireless security with WPA/WPA2



GAMING VPN CLIENT SUPPORT—Protect your network identity and prevent DDoS attacks

Multi-user MIMO (MU-MIMO)

Traditional WiFi routers can stream data to only one device in the home at a time. When multiple devices are connected to the router, each device needs to take its turn, and then wait before receiving more data. This can lead to slower network and Internet speeds. Using Multi-User MIMO technology, NETGEAR routers can stream data to multiple devices simultaneously. With MU-MIMO, your WiFi network can deliver faster throughput to every MU-MIMO connected device. That means faster downloads and smoother streaming for your devices.

Enjoy simultaneous streaming with MU-MIMO

Data sent to one device at a time



Data sent to multiple devices simultaneously



Beamforming+—For More Reliable Connections

Unlike typical WiFi routers that just blast the WiFi signals in all directions, with Beamforming+ the router & device communicate with each other, so the router can directly beam the WiFi signal to the device. Boosting speed, reliability, and range for both Implicit and Explicit 2.4 & 5GHz WiFi devices, the result is a stronger, faster, more reliable connection that is locked in even when the device is moved around the home.

- WiFi Signal Focus—Focuses signals from the wireless router to WiFi devices like smartphones, tablets & laptops
- Automatic Signal Management—Checks with your device to keep WiFi signal at its optimal strength
- Device Connections—Designed for home environments to support multiple WiFi device connections for highest quality
- WiFi Coverage—Reduces dead spots, & boosts signal strength
- Implicit & Explicit Beamforming boosts speed, reliability & range for both 2.4 & 5GHz WiFi—an industry first

XR500 Nighthawk[®] Pro Gaming Router

Connection Diagram



XR500 Nighthawk[®] Pro Gaming Router

PACKAGE CONTENTS

- XR500 Nighthawk Pro Gaming Router (XR500)
- 4 detachable antennas
- Ethernet cable
- Quick start guide
- Power adapter

PHYSICAL SPECIFICATIONS

- Dimensions: 12.7 x 9.6 x 2.2 in (321.9 x 243.7 x 55.0 mm)
- Weight: 1.77lb (801g)

STANDARDS

- Two (2) USB 3.0 ports
- IEEE[®] 802.11 b/g/n 2.4GHz + 256-QAM support
- IEEE[®] 802.11 a/n/ac 5.0GHz
- Five (5) 10/100/1000Mbps—(1 WAN & 4 LAN) Gigabit Ethernet ports

TECHNICAL SPECIFICATIONS

- AC2600 (800Mbps @2.4GHz–256-QAM support +1733Mbps @5GHz 11ac)[†]
- Simultaneous dual band WiFi - Tx/Rx 4x4 (2.4GHz)+ 4x4 (5GHz)
- 4x4 11ac 80MHz + 2x2-160/80+80MHz
- Multi-user MIMO (MU-MIMO)
- Powerful dual-core 1.7GHz processor
- Four (4) high-performance external antennas
- Memory: 256MB flash and 512MB RAM
- IPv6 support (Internet Protocol Version 6)
- On/off LED light switch

KEY FEATURES

- Gaming Dashboard—Customizable view of real-time bandwidth utilization by device, ping, etc.
- Geo-Filter—Control your lag by limiting distance to game servers or other players
- Gaming VPN Client Support—Protect your network identity and prevent DoS attacks
- Network Monitor—Check bandwidth-hogging devices and identify what causes lag
- Quad Stream & 160MHz for faster speeds
- MU-MIMO support for simultaneous streaming
- Quality of Service—Prioritize gaming devices and allocate bandwidth by device
- Beamforming+ for more reliable connections
- ReadySHARE[®] USB—Share your USB hard driver

SYSTEM REQUIREMENTS

- Microsoft[®] Windows 7, 8, 10, Vista[®], XP[®], 2000, Mac OS[®], UNIX[®], or Linux[®]
- Microsoft[®] Internet Explorer[®] 11 or higher, Microsoft Edge, Google Chrome™ 55 or higher, Firefox[®] 45 or higher, Safari[®] 10 or higher

SECURITY

- VPN support—Secure remote access
- WiFi Protected Access[®] (WPA/WPA2—PSK)
- Double firewall protection (SPI and NAT)
- Denial-of-service (DoS) attack prevention

WARRANTY

- www.netgear.com/warranty
- Extend your warranty & technical support within 90 days of product purchase [US only]. Visit: prosupport.netgear.com/home

SUPPORT

- 90-day complimentary technical support following purchase from a NETGEAR authorized reseller.
- Join the NETGEAR Community Forum. Visit <http://community.netgear.com>



This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller.

* 90-day complimentary technical support following purchase from a NETGEAR authorized reseller.

[†] Maximum wireless signal rate derived from IEEE 802.11 specifications. Actual data throughput and wireless coverage will vary and may be lowered by network and environmental conditions, including network traffic volume and building construction. NETGEAR makes no representations or warranties about this product's compatibility with future standards. Up to 2600Mbps wireless speeds achieved when connecting to other 802.11ac 2600Mbps devices.

[‡] MU-MIMO capability requires both router and client device to support MU-MIMO.

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