

**NIGHTHAWK®**

Nighthawk® X10–AD7000 Smart WiFi Router



## Ultimate 4K Streaming & VR Gaming

Nighthawk® X10 AD7000 Smart WiFi Router is the industry's fastest router for media streaming with Plex media server. Nighthawk® X10 with 802.11ac and 802.11ad WiFi technology delivers ultra-smooth

4K streaming, VR gaming and instant downloads. With a powerful 1.7GHz quad-core processor and Quad Stream architecture, you can enjoy combined wireless speeds of up to 7.0Gbps\*. MU-MIMO

supports simultaneous streaming, while 160MHz doubles WiFi speeds to mobile devices. Four patent pending external active antennas amplify WiFi signals to maximize range and throughput.

**NETGEAR®**

# NIGHTHAWK®

## Nighthawk® X10-AD7000 Smart WiFi Router

### 802.11AC QUAD STREAM WIFI PLUS 802.11AD WIFI

Up to 4600+1733+600Mbps wireless speed



### HIGH-PERFORMANCE ACTIVE ANTENNAS

Better WiFi coverage and faster speeds



### 60GHZ 802.11AD WIFI

Fastest WiFi technology for instant downloads and backup



### POWERFUL 1.7GHZ QUAD-CORE PROCESSOR

Fastest processor for home router for better 4K streaming, VR gaming, surfing, or anything you throw at it



### PLEX® MEDIA SERVER

All your movie, TV show, music, video, and photo collections at your fingertips. Anywhere you go, on the devices you love



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## Nighthawk® X10–AD7000 Smart WiFi Router

### Speed

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



60GHZ 802.11AD—Fastest WiFi interface for instant downloads and backup



AD7000 WIFI—Up to 4600+1733+800Mbps<sup>†</sup> Wireless speed



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



MU-MIMO—Go faster by simultaneously streaming to multiple devices



GIGABIT WIRED—Six Gigabit Ethernet LAN ports with the ability to aggregate two ports for faster file transfers



LINK AGGREGATION—Ability to aggregate two Gigabit LAN ports for faster file transfers



10G LAN SFP+ PORT—For fast NAS access

### WiFi Range

Got range? Homes come in all shapes and sizes and Nighthawk® X10 Smart WiFi Router's 4 external active antennas provide WiFi coverage no matter where you connect in your home.



ULTIMATE RANGE—WiFi coverage throughout very large homes



FOUR ENHANCED ACTIVE ANTENNAS—Enhances weak signal and reduces interference using a patent pending design

### Sharing

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



DLNA®—Find & play your media on DLNA TVs & game consoles



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



PLEX MEDIA SERVER—All your movie, TV show, music, and photo collections, on the devices you love



AMAZON DRIVE BACKUP—Automatically and securely back up your important data to Amazon Drive

## 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 for 2.4 & 5GHz bands

## 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!



**NIGHTHAWK APP**—Easily set up your router and get more out of your WiFi. Includes access from anywhere to manage your network away from home



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



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



**WiFi & POWER ON/OFF**—Convenient power savings



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

## Security

Ensure your privacy & keep your family safe while online. NETGEAR has you covered.



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



**SECURE WiFi CONNECTIONS**—Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)



**GUEST NETWORK**—Separate and secure network for your guests



**PERSONAL FTP SERVER**—Customized free URL to create FTP server

### The Fastest WiFi Just Got Faster

Speeds of up to 4.6Gbps—that’s 3 times faster than 802.11ac. It’s the fastest Nighthawk® yet.

Introducing 802.11ad

3X Faster than 11ac

Experience unimaginable wireless speeds.

4K Video VR Backup

802.11ad 4.6 Gbps

Typical 11ac 1.3 Gbps

\*Comparison against a typical 11ac router with max speeds of 1.3Gbps

### Fastest Wireless for Media Transfers and Backup

Don't wait to watch! Ultra-smooth 4K streaming, VR gaming, instant downloads and backup.

Introducing 802.11ad

Fastest WiFi Connection on the Planet

8sec vs 24sec\*  
Time to transfer a 3GB backup

21sec vs 64sec\*  
Time to transfer a 8GB 4K movie file

53sec vs 160sec\*  
Time to transfer a 20GB VR video

\*Comparison against a typical 11ac router with max speeds of 1.3Gbps

**NIGHTHAWK®**

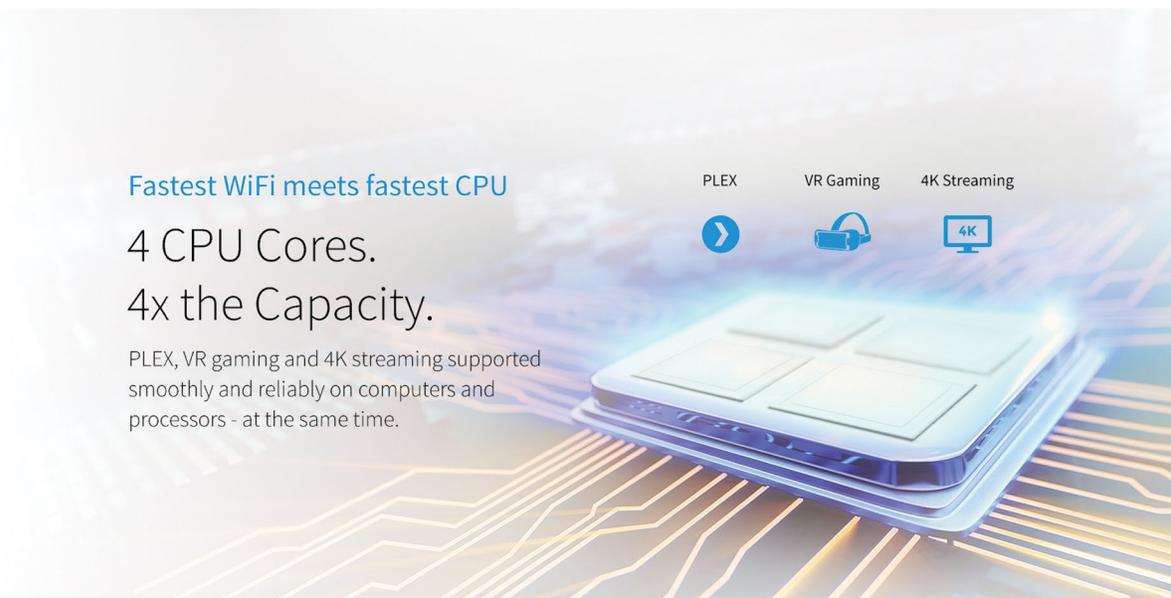
Nighthawk® X10-AD7000 Smart WiFi Router

**Industry's First Home Router with Plex Media Server**

Plex. All your movie, TV show, music, video, and photo collections at your fingertips. Anywhere, anytime. Serve all your media with Plex Media Server on your Nighthawk® X10, without need for a computer.

**Powerful Quad-core 1.7GHz Processor**

Wired or wireless, the 1.7GHz quad-core processor boosts your network performance up to 7.2Gbps†.

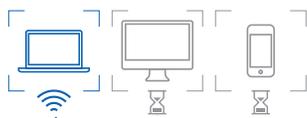
**NETGEAR®**

### 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



Traditional WiFi

Data sent to multiple devices simultaneously



MU-MIMO WiFi

### Nighthawk® App

The NETGEAR Nighthawk® App makes it easy to set up your router and get more out of your WiFi. With the app, you can install your router in a few steps—just connect your mobile device to the router network and the app will walk you through the rest. Once set up, you can use the intuitive dashboard to pause the Internet on your connected devices, run a quick Internet speed test, and much more.

- Anywhere Access—Easily monitor your home network anytime, anywhere
- Internet Speed Test—Check the broadband speeds from your service provider
- Pause Internet—Pause the Internet to any device
- Traffic Meter—Track Internet data usage
- Guest Networks—Setup separate WiFi access for guests
- Quick Setup—Get connected in just minutes
- Get it at [nighthawk-app.com](http://nighthawk-app.com)



### Enhanced Active Antennas

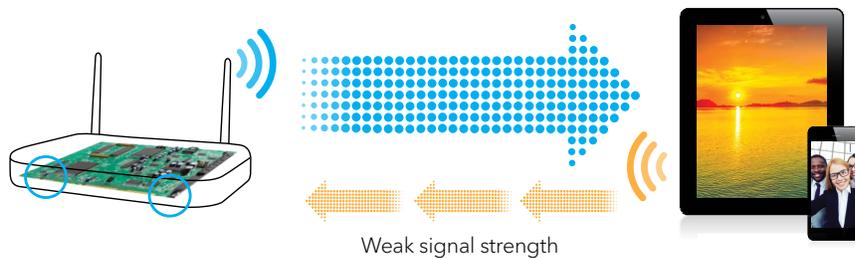


Each new generation of routers grows more powerful than the last, delivering stronger WiFi signals with greater range. At the same time, the WiFi signals on mobile devices are not getting more powerful. This difference in WiFi performance - a strong WiFi signal from the router and weaker ones from mobile devices - reduces overall WiFi range and speed.

To meet this challenge, NETGEAR developed the industry's first Active Antennas technology. NETGEAR moved the WiFi amplifiers from their usual location, on the router's motherboard, up to the top of the antennas.

Active Antennas help improve WiFi performance by amplifying signals in the antenna itself. Thereby avoiding any signal loss during transmission between antenna and router board, as well as avoiding any noise insertion from the router board components. This provides cleaner and stronger receive signals for amplification from your mobile devices.

In X10, enhanced Active Antennas also amplify the signals as they are sent to the devices, thereby increasing overall range and throughput.



Traditional WiFi router has harder time receiving weaker mobile device signals.



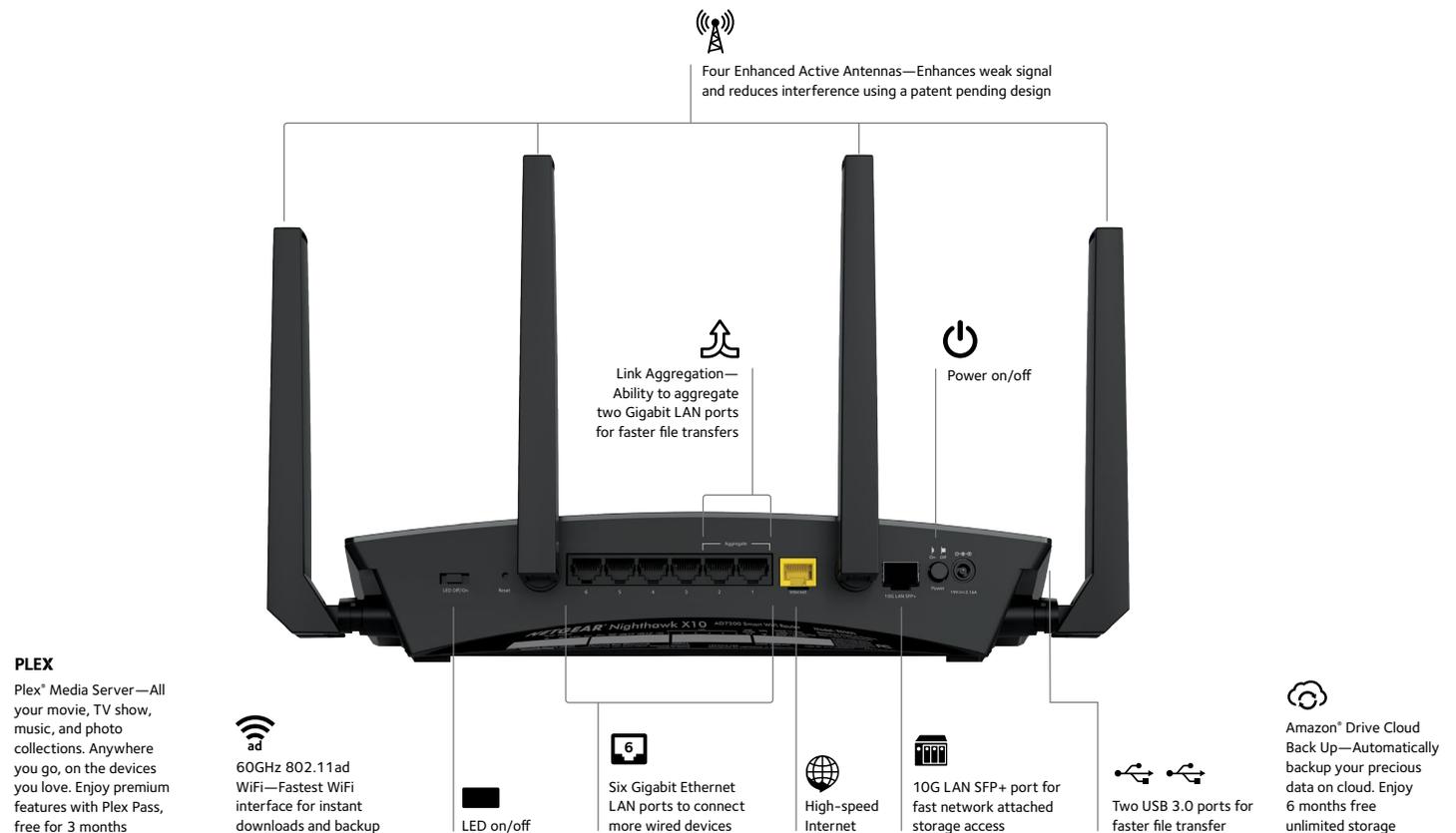
Nighthawk X8 Active antennas compensate for weaker mobile device signals and effectively improve signal strength.

## 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. 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

## Connection Diagram



# NIGHTHAWK®

## Nighthawk® X10–AD7000 Smart WiFi Router

### Package Contents

- Nighthawk® X10–AD7000 Smart WiFi Router (R8900)
- Ethernet cable
- Quick start guide
- Power adapter

### Physical Specifications

- Dimensions: 8.81 x 6.61 x 2.91 in (224 x 168 x 74 mm)
- Weight: 4.11 lb (1.87 kg)

### Technical Specifications

- AD7000† WiFi
  - Band 1: 600Mbps @2.4GHz - 64-QAM
  - Band 2: 1733Mbps @5GHz - 256-QAM
  - Band 3: 4600Mbps @60GHz\*\* - SC
- Powerful quad-core 1.7GHz processor
- Memory: 512MB NAND flash and 1GB DDR3 SDRAM
- Enhanced Active Antennas with high-power amplifiers
- Explicit Beamforming for 2.4 & 5GHz bands
- Seven (7) 10/100/1000Mbps Gigabit Ethernet ports
  - 1 WAN & 6 LAN
  - Dual Gigabit Ethernet port aggregation
- 10G LAN SFP+ port connection for network attached storage (NAS)
- Two (2) USB 3.0 ports
- IPv6 support (Internet Protocol Version 6)
- On/off LED light switch

### Key Features

- Plex Media Server—Stream your media on all your devices
- Quad Stream Wave2 WiFi
- MU-MIMO—Simultaneous streaming of data for up to three devices
- Amazon Drive Cloud Backup—Automatically and securely back up your important data to Amazon Drive
- Media streaming & storage
- DLNA® server to find & play your media on TVs & game consoles
- VPN support—Secure remote access to your home network & Internet using PC, MAC® computers, and mobile devices
- Nighthawk App—Easily set up your router and get more out of your WiFi. Includes access from anywhere to manage your network away from home
- Open Source—Software available at <https://www.myopenrouter.com> \*

### System Requirements

- Microsoft® Windows 7, 8, 10, Vista®, XP®, 2000, Mac OS®, UNIX®, or Linux®
- Microsoft® Internet Explorer® 5.0, Firefox® 2.0, Safari® 1.4, Google Chrome™ 11.0 browsers or higher

### Security

- Customized free URL to set up personal FTP server
- VPN support—secure remote access
- Guest network access—separate & secure
- Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)
- Double firewall protection (SPI and NAT)
- Denial-of-service (DoS) attack prevention

### Warranty

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

### Support

- 90-day complimentary technical support following purchase from a NETGEAR authorized reseller<sup>1</sup>
- Join the NETGEAR Community Forum. Visit <http://community.netgear.com>

\* The NETGEAR hardware warranty does not include, and maybe be voided by, the use of open source firmware.

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

<sup>1</sup>90-day complimentary technical support following purchase from a NETGEAR authorized reseller.

\*\*To benefit from 11ad features, WiFi client needs to support 60GHz 802.11ad WiFi standard.

† 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 7000Mbps wireless speeds achieved when connecting to other 802.11ad 7000Mbps devices.

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

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