

NIGHTHAWK®Nighthawk® AX4/4-Stream
AX3000 WiFi 6 Router

Leading the New Era of WiFi 6

Nighthawk® AX4 WiFi 6 Router is powered by the industry's latest WiFi 6 (802.11ax) standard with 4 times increased data capacity provides consistent and powerful

signal strength to all your connected devices. Blazing-fast combined WiFi speeds up to 3Gbps and an optimized dual-core processor powers smart home

automation, ultra-smooth 4K UHD streaming, faster downloads, online gaming, and more.

NETGEAR®

NIGHTHAWK®

Nighthawk® AX4/4-Stream
AX3000 WiFi 6 Router**WiFi 6—Ready for Today and Tomorrow's Smart Home**

Introducing WiFi 6—the latest generation of WiFi that delivers up to four times better performance than AC WiFi.

With innovative technologies, such as Orthogonal Frequency-Division Multiple-Access (OFDMA)[§], and intelligent scheduling, WiFi 6 delivers a huge boost in speed and total capacity. Rising to the challenges of modern smart home demands, this new standard of WiFi is ready to support more devices with better reliability and faster speeds.

Capacity

WiFi 6 gives you improved network capacity for more WiFi devices. Have more fun with the uninterrupted 4K streaming, gaming, and the smart home experience.

Speed

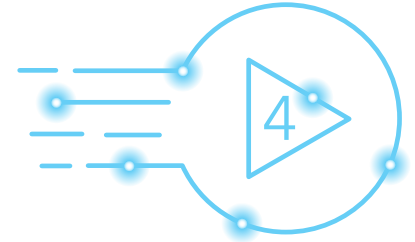
Get ultra-fast wireless speeds with more connections for all devices with less congestion. You'll get some blazing connection speeds of more than one gigabit per second or more, 4K streaming, & VR/AR gaming.

Range

Experience reliable and stronger WiFi coverage indoors and outdoors for all your devices. High-performance antennas, pre-optimized for best performance, on the router amplify WiFi signals for maximized range and reliable coverage.

4-Stream WiFi 6—2X Better Performance

Four spatial streams – two in 2.4GHz and two in the 5GHz band – enable streaming HD and 4K UHD content to more devices at the same time.



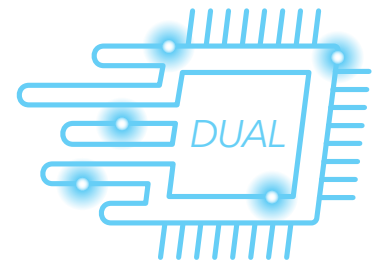
Uplink & Downlink OFDMA

Orthogonal Frequency-Division Multiple Access (OFDMA) substantially improves the network capacity and efficiency. Faster WiFi download & upload speeds by transmitting to up to 16 devices at the same time.



Powerful Dual-Core Processor

Ultra-fast processor for smoother 4K UHD streaming, online/VR gaming, and a stronger, more reliable WiFi experience. More processing power to manage your smart home connectivity.



Gigabit WiFi to Mobile Devices

Unimaginable speeds now delivered. Capable of greater than 1Gbps WiFi speeds to newer mobile devices equipped with 160MHz WiFi.



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Speed

Get ultra-fast wireless speeds for better 4K UHD streaming, gaming or video conferencing experience.



UP TO 3GBPS[†] SPEEDS—600Mbps + 2400Mbps with 4-stream connectivity**



160MHZ CHANNEL SUPPORT***—Doubles the speeds as offered by 80MHz channels to provide Gigabit speeds for compatible mobile devices and laptops



1024-QAM—25% increased data efficiency and faster speeds than a 256-QAM router



SUPERSPEED USB 3.0 PORT—Up to 10x faster than USB 2.0



5 GIGABIT PORTS—Connect more wired devices for faster file transfer and uninterrupted connections

Capacity

Get better performance for all your smart home devices even when your family is busy streaming videos or uploading media files during the Internet rush hour.



MORE WIFI FOR MORE DEVICES—OFDMA[§] for faster WiFi download & upload speeds by transmitting to up to 16 devices at the same time



AX OPTIMIZED POWERFUL PROCESSOR—Dual-core processor ensures smooth 4K UHD streaming & gaming - ideal for Gigabit Internet speeds

WiFi Range

Faster and expanded coverage throughout your home and for all your devices.



ULTIMATE RANGE—WiFi coverage throughout very large homes



HIGH-PERFORMANCE ANTENNAS—Two (2) external antennas extend strong and reliable WiFi signals over larger area

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Sharing

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



USB 3.0 PORT—Faster streaming, backup and easy access to your stored media

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+—Improve range and performance for both 2.4 and 5GHz devices



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—Gives you an interference-free 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!



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



AX WIFI SUPPORTS ALL CURRENT WIFI DEVICES—WiFi 6 supports all current WiFi device and is backward compatible with WiFi 5 and earlier generation devices



VOICE CONTROLLED BY AMAZON ALEXA® & THE GOOGLE ASSISTANT—Control your NETGEAR WiFi network with simple voice commands

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—On PC, MAC, & now also with OpenVPN Connect app on iOS & Android, securely access your home network & Internet connection from your mobile device remotely



STANDARDS-BASED WIFI SECURITY (802.11i, 128-bit AES encryption with PSK)



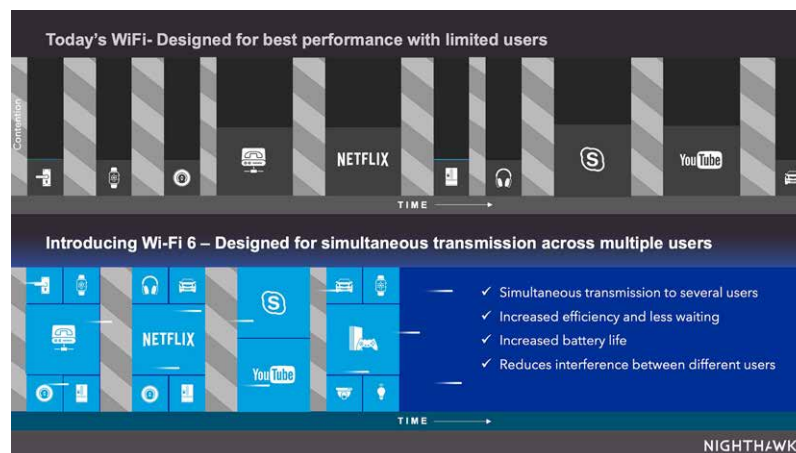
GUEST NETWORK—Separate and secure network for your guests



AUTOMATIC FIRMWARE UPDATE—Delivers latest security patches to the router

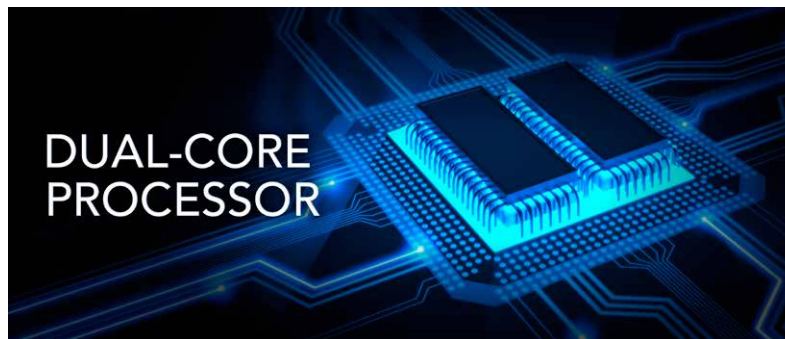
Orthogonal Frequency Division Multiple Access (OFDMA)

Using the uplink and downlink OFDMA feature of WiFi 6, the WiFi traffic is managed much more efficiently since data is transmitted from different devices concurrently, rather than having each device's data wait for its turn. This results in an efficient use of air-time, reduced latency, and increased bandwidth to add more devices to your network.



Powerful Dual-Core Processor

Nighthawk AX4 WiFi 6 Router is powered by a powerful dual-core processor designed to transfer multi-gigs of data. Full-packet processing offload means zero load on the CPU. Enjoy smoother Ultra-HD 4K video streaming and gaming without interruptions.



Gigabit WiFi to Mobile Devices

Support for 160MHz channel allows the Nighthawk AX4 WiFi 6 Router to stream at Gigabit speeds to supported mobile devices, which are increasingly used for video streaming or gaming.



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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!

- Remote Management—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—Set up separate WiFi access for guests
- Quick Setup—Get connected in just minutes
- Get it at nighthawk-app.com



Connection Diagram



NIGHTHAWK®

Nighthawk® AX4/4-Stream AX3000 WiFi 6 Router

Package Contents

- NETGEAR® Nighthawk® AX4/4-Stream AX3000 WiFi 6 Router (RAX40)
- Ethernet cable
- Quick start guide
- Power adapter

Physical Specifications

- Dimensions: 13.38 x 8.11 x 2.24in (340 x 206 x 57mm)
- Weight: 1.32 lb (600 g)

Standards

- One (1) USB 3.0 port
- 2.4GHz AX: 2x2 (Tx/Rx) 1024/256 QAM 40/20MHz, up to 600Mbps
- 5GHz AX: 2x2 (Tx/Rx) 1024 QAM 160/80/40/20Mbps, up to 2400Mbps
- Five (5) 10/100/1000Mbps—(1 WAN & 4 LAN) Gigabit Ethernet ports

Technical Specifications

- WiFi 6 (802.11ax) Dual Band WiFi (AX3000)
 - 2.4G: 600Mbps, 40/20 MHz 1024/256 QAM
 - 5G: 2400Mbps, 160/80/40/20 MHz 1024 QAM
 - Backwards compatible with 802.11a/b/g/n/ac WiFi
- Uplink & Downlink OFDMA[§]—Improved capacity and efficiency
- 1024-QAM—25% data efficiency and faster speeds than a 256-QAM router
- Powerful dual-core processor
- Memory: 256MB flash and 512MB RAM
- 160MHz channel support

- Additional DFS channels for interference free experience
- Longer range with 2 high-performance antennas
- Five (5) 10/100/1000 Mbps Gigabit Ethernet ports
 - 1 WAN & 4 LAN
- On/Off LED light switch

Key Features

- 2X Better Performance than an AC Router—4-stream WiFi with up to 600 + 2400Mbps for ultra-fast wireless speeds**
- More WiFi for More Devices—OFDMA allows efficient data transmission up to 16 devices at the same time. Uplink OFDMA improves scheduling during high volumes of upload traffic, particularly when that traffic is created simultaneously[§]
- 160MHz Channel Support***—Doubles the speeds as offered by 80MHz channels to provide Gigabit speeds for compatible mobile devices and laptops
- Powerful Processor—Dual-core processor ensures smooth 4K UHD streaming & gaming
- 4 Gigabit Ethernet Ports—Connect more wired devices for faster file transfer and uninterrupted connections.
- Nighthawk® App—Easily set up your router and get more out of your WiFi. Includes remote access to manage your network away from home
- WiFi 6 supports all current WiFi devices and is backward compatible with WiFi 5 and earlier generation devices
- Works with Amazon Alexa® & the Google Assistant—Control your NETGEAR WiFi network with simple voice commands

Support

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

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

- Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)
- Automatic firmware update delivers latest security patches to the router
- Guest network access—separate & secure
- VPN Support—Secure access to your home network away from home

Warranty

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

This router may not support all the mandatory features, ratified in Draft 3.0 of IEEE 802.11AX specification. This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller.

This router does not support some of the mandatory features ratified in Draft 3.0 of IEEE 802.11AX specification, such as Uplink OFDMA, Target Wake Time, and BSS Coloring.

[†] 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.

** When working with 160MHz clients as compared to a 2x2 AC router that does not support 160MHz.

*** Requires client device that supports 160MHz bandwidth on WiFi.

[§] Requires compatible AX clients with DL-OFDMA and UL-OFDMA support.

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