NIGHTHAWK®

Nighthawk® AX6
6-Stream AX4300 WiFi Router

WiFi 6 for Today's Smart Devices

The NETGEAR® Nighthawk® AX6 6-Stream AX4300 WiFi Router delivers a new level of Gigabit WiFi connectivity so you can connect, stream and download faster to handle up to 25 devices in your growing home network. Powerful 1.5GHz triple-core processor with a fully offloaded CPU increases overall performance of the network. Engineered to deliver up to 4 times the data capacity over previous standards, WiFi 6 technology with 160MHz channel allows more devices to connect and stream simultaneously, without impacting speed or reliability. High-power amplifiers increase range for reliable whole home coverage. With NETGEAR Armor™, you get multi-layered cybersecurity for an unlimited number of devices that provides encrypted connections, keeps your online activity private, secures lost or stolen devices, and blocks suspicious devices on your network. Experience the ease of managing your kids' time online across their connected devices and promote healthy habits anywhere they go with NETGEAR Smart Parental Controls™.

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WiFi 6–Ready for Today and Tomorrow's Smart Home

Delivering four times better performance than AC WiFi, WiFi 6 allows more devices to connect and stream simultaneously, without impacting speed or reliability, by efficiently packing and scheduling data. 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 peformance, on the router amplify WiFi signals for maximized range and reliable coverage.

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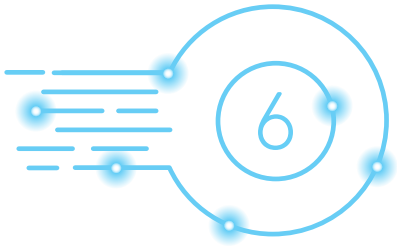
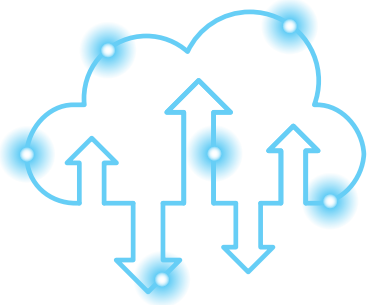
6-Stream AX WiFi

Stream smooth 4K UHD content to smart TVs, mobile devices, and gaming consoles.



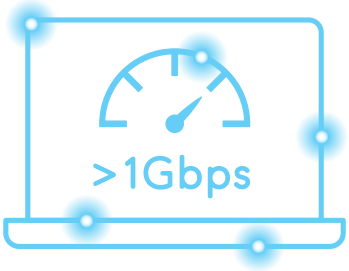
Faster Upload & Download Speeds

Faster WiFi download & upload speeds at the same time.



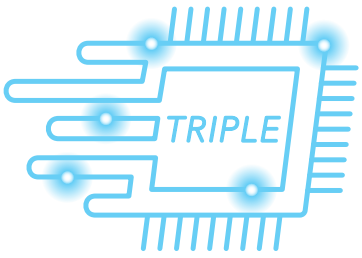
Greater than 1Gbps WiFi Speeds

Enjoy greater than 1Gbps WiFi speeds for blazing-fast streaming and downloading to newer mobile devices.



Powerful Triple-core 1.5GHz Processor

More processing power increases the overall performance of your network.



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Speed

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

- UP TO 4.3GBPS† SPEEDS—480+3840Mbps with 6-stream connectivity**
- 160MHZ CHANNEL SUPPORT***—Enjoy greater than 1Gbps WiFi speeds for blazing fast streaming and downloading to newer mobile devices
- 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 with 1 WAN & 4 LAN Ethernet ports

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—Allows efficient data transmission to devices simultaneously.§
- AX OPTIMIZED POWERFUL PROCESSOR—1.5GHz triple-core processor ensures smooth 4K UHD streaming

WiFi Range

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

- ULTIMATE RANGE—WiFi coverage throughout very large homes
- MAXIMIZE RANGE—Four (4) high-power external antennas extend wireless range coverage indoors and out

NETGEAR®

NIGHTHAWK®

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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–Reduce interference from neighboring networks

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

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

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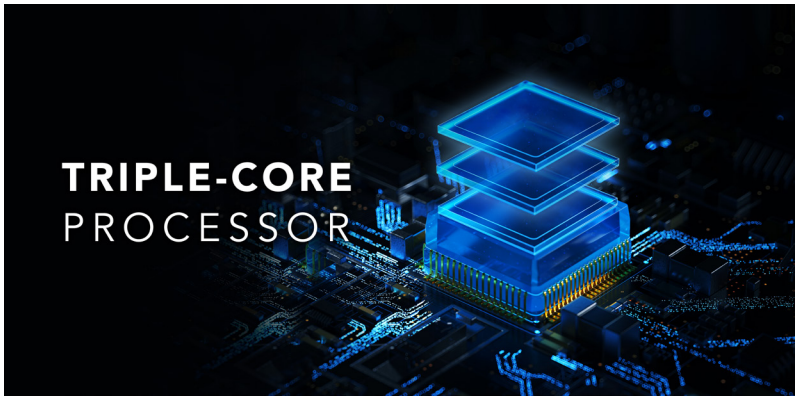
Security

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.

- NETGEAR ARMOR™–Cybersecurity for your home[††]. Advanced cyber threat protection for your home network and your connected devices
- NETGEAR SMART PARENTAL CONTROLS™–Easily manage your kids time online across their connected devices[§§]
- 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
- LATEST SECURITY STANDARD–Supports WPA3 the latest and cutting-edge Wi-Fi security protocol

Powerful Triple-core Processor

Nighthawk AX6 WiFi Router is powered by a powerful triple-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 AX6 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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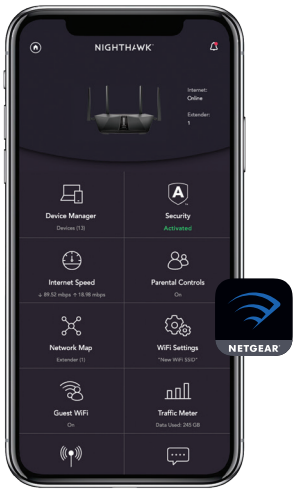
Nighthawk App

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!

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



GET IT ON Google Play

Download on the App Store

NETGEAR Armor™

NETGEAR Armor empowers you to eliminate vulnerabilities or simply know the status of your home network and devices, anytime, anywhere. Get instant notifications when malicious threats are detected, block unknown devices from joining your home network or take action on vulnerabilities as they are discovered easily through the Nighthawk App.

NETGEAR® ARMOR™ | POWERED BY Bitdefender

Advanced Cyber Threat Protection

Powerful Security on Your NETGEAR Router

ANTIVIRUS & RANSOMWARE PROTECTION–Keeps you safe from phishing and online fraud

VULNERABILITY ASSESSMENT–Scans and identifies networksecurity flaws

BITDEFENDER SECURITY–Protects all connected devices at home and on-the-go

BITDEFENDER VPN–Encrypts your internet connection to keep your online activity private even while you're on unsecured public networks

STAY SAFE EVEN WHEN AWAY FROM HOME WIFI–Stay in the know with Nighthawk App. Anywhere, anytime

NETGEAR Smart Parental Controls™ §

Creating the safest online experience for your kids is important and our built-in Smart Parental Controls makes it easy.

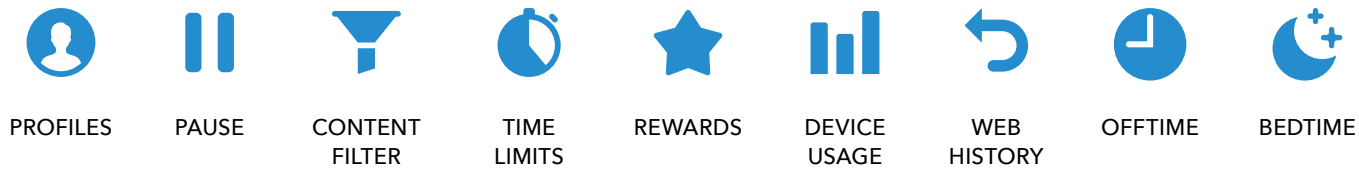
You are in control of your kids' Internet connection:

- Pause the Internet for needed breaks
- Create custom profiles to manage online time for each kid

With the Premium subscription*, you get even more insights into your kids' online activities to promote healthy habits:

- Get a detailed report of your kids' Internet usage and block any sites
- Customize filters for your kids and limit their Internet time

Key Features:



* Premium Subscription: Get a 30-day free trial; no credit card required. $7.99/month or $69.99/year after end of trial.

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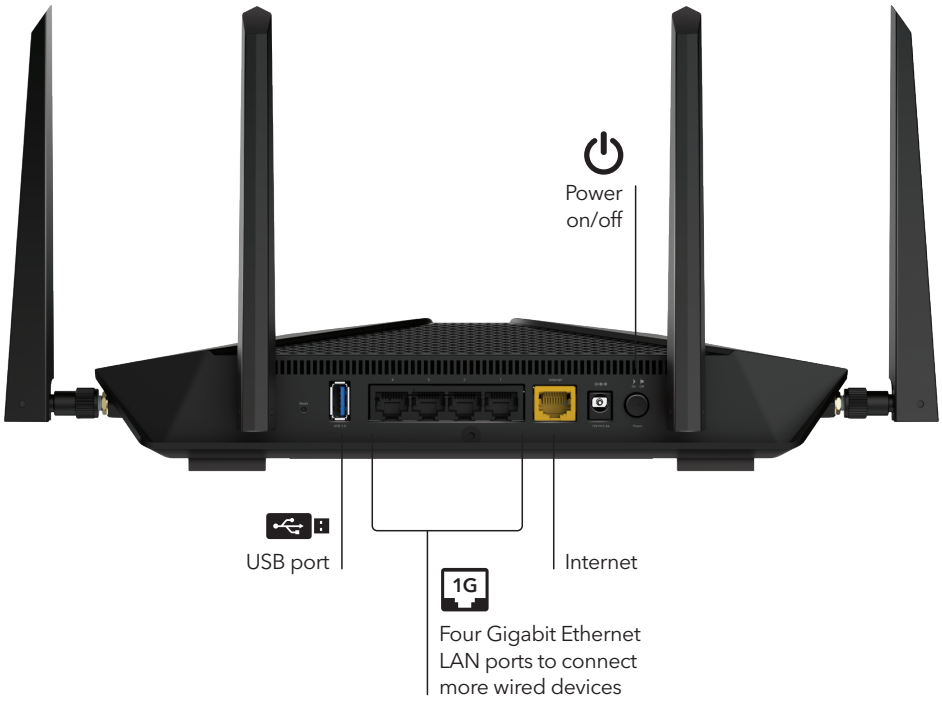
Connection Diagram



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Package Contents

- NETGEAR® Nighthawk® AX6/6-stream AX4300 WiFi Router (RAX45)
- Ethernet cable
- Quick start guide
- Power adapter

Physical Specifications

- Dimensions: 11.65 x 8.11 x 2.25in (295.8 x 206 x 57.2mm)
- Weight: 1.25 lb (566 g)

Technical Specifications

- WiFi 6 (802.11ax) dual band WiFi (AX4300)
  - 2.4GHz AX: 2x2 (Tx/Rx) 256-QAM 20/40MHz, up to 480Mbps
  - 5GHz AX: 4x4 (Tx/Rx) 20/40/80/160MHz, up to 3840Mbps
  - Backwards compatible with 802.11a/b/g/n/ac WiFi
- Powerful triple-core processor
- One (1) USB 3.0 port
- Memory: 256MB flash and 512MB RAM
- 160MHz channel support
- Additional DFS channels reduce interference from neighboring networks
- Longer range with 4 high-performance antennas
- Five (5) 10/100/1000Mbps Gigabit Ethernet ports
  - 1 WAN & 4 LAN

Key Features

- 3.5X better performance than an AC router—6-stream WiFi with up to 480 + 3840Mbps for ultra-fast wireless speeds**
- More WiFi for more devices—OFDMA allows efficient data transmission to multiple 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***—Enjoy greater than 1Gbps WiFi speeds for blazing fast streaming and downloading to newer mobile devices
- Powerful processor—Triple-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 access from anywhere to manage your network away from home
- NETGEAR Armor™—Advanced cyber threat protection for your home and all your devices††
- NETGEAR Smart Parental Controls™—Easily manage your kids time online across their connected devices§§
- 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

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
- Latest security standard—Supports WPA3 the latest and cutting-edge Wi-Fi security protocol
- NETGEAR Armor™—Advanced cyber threat protection for your home network and your connected devices††
- NETGEAR Smart Parental Controls™—Easily manage your kids time online across their connected devices§§

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.

1 year technical support for Costco customers. Complimentary technical support following purchase from Costco.

† 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 4300Mbps wireless speeds achieved when connecting to other 802.11ax 4300Mbps devices.

** 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.

‡ As compared to an AC1200 2x2 router.

§§ NETGEAR Smart Parental Controls™ Premium requires a paid subscription after the 30-day free trial. (No credit card required for the trial). Visit netgear.com/spc for more

†† NETGEAR Armor requires a paid subscription after the initial 30-day free trial. (No credit card required for the trial). Visit netgear.com/armor

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