



NETGEAR RAX43 Nighthawk AX5 5-Stream AX4200 WiFi Router User Manual

[Home](#) » [NETGEAR](#) » NETGEAR RAX43 Nighthawk AX5 5-Stream AX4200 WiFi Router User Manual 

NIGHTHAWK[®]

Data Sheet | RAX43
Nighthawk[®] AX5
5-Stream AX4200 WiFi Router



Contents

- [1 Leading the New Era of WiFi 6](#)
- [2 WiFi 6—Ready for Today and Tomorrow's Smart Home](#)
- [3 Capacity](#)
- [4 WiFi Range](#)
- [5 Powerful Security on Your NETGEAR Router](#)
- [6 Connection Diagram](#)
- [7 Package Contents](#)
- [8 Physical Specifications](#)
- [9 Technical Specifications](#)
- [10 Key Features](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)

Leading the New Era of WiFi 6

Built with the latest generation WiFi 6 technology, the NETGEAR® Nighthawk® AX5 5-Stream AX4200 WiFi Router provides speeds up to 4.2Gbps so you can connect, stream and download faster to newer mobile devices. A powerful 1.5GHz triple-core processor ensures superior performance for concurrent real-time applications such as multimedia streaming, online gaming, and audio/video chats. Engineered to deliver up to 4 times the data capacity over previous standards, WiFi 6 technology with OFDMA, 160MHz channel support allows more devices to connect and stream simultaneously, without impacting speed or reliability. High-power amplifiers increase the range for a reliable whole home network. This next-gen router is recommended for medium to large homes, suitable for up to 25 connected devices. With NETGEAR Armor™, you get the best-in-class cybersecurity to protect your family from malware, stolen passwords, identity theft, and hacker attacks.



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. 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

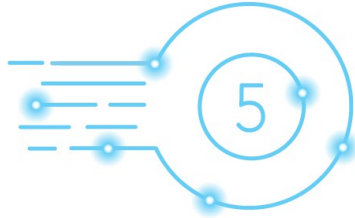


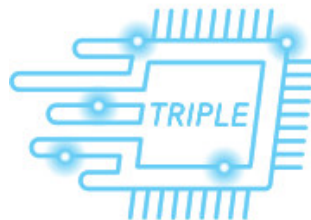
WiFi 6 gives you improved network capacity for more WiFi devices. Have more fun with the uninterrupted 4K streaming, gaming, and the smart home experience.

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.

5-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.	



Speed

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

	3.5X BETTER PERFORMANCE THAN AN AC ROUTER-5stream WiFi with up to 4.2Gbps † for fast wireless speeds ‡
	UP TO 4.2GBPS † SPEEDS—574Mbps + 3603Mbps with 5-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
	1024-QAM—25% increased data efficiency and faster speeds than a 256-QAM router



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 § allows efficient data transmission at the same time
	AX OPTIMIZED POWERFUL PROCESSOR—1.5GHz triple-core processor ensures smooth 4K UHD streaming


WiFi Range

Faster and expanded coverage through 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 in doors and out




Sharing

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

 USB 3.0	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—Reduces interference for better connections to more Wi-Fi devices
	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 from home
	AX WIFI SUPPORTS ALL CURRENT WIFI DEVICES—WiFi 6 supports all current WiFi devices 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

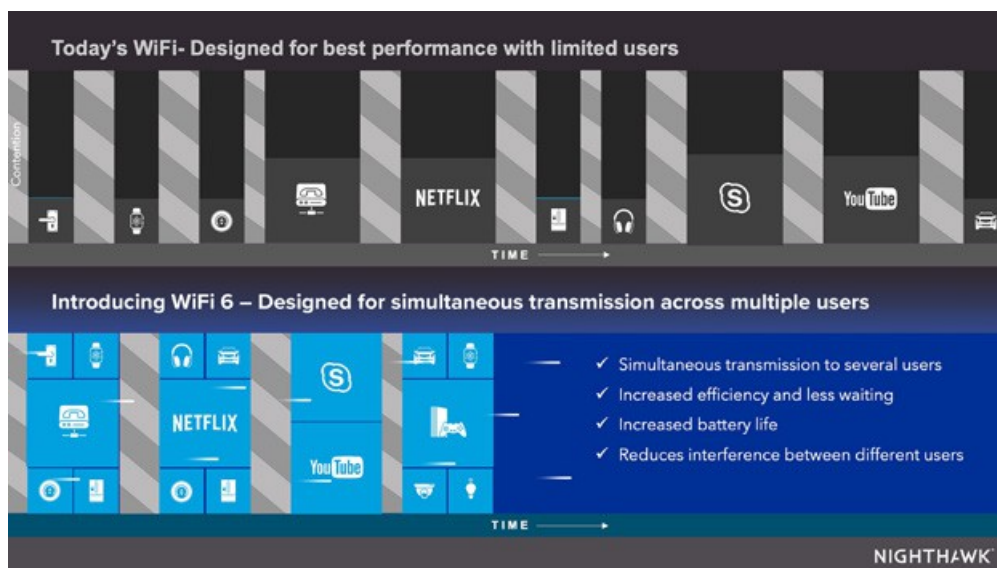
Security

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.

	NETGEAR ARMOR™ —Cybersecurity for your home ††. Advanced cyber threat protection for your home network and your 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

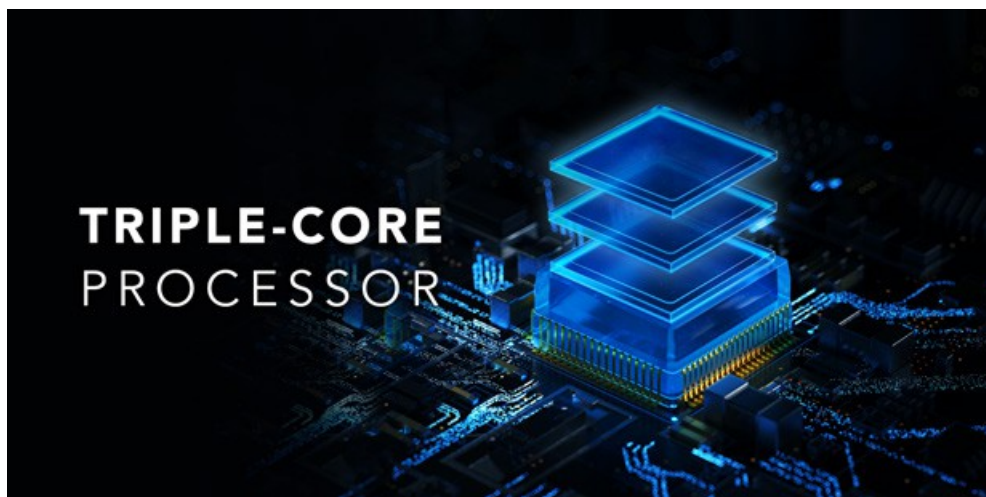
Orthogonal Frequency Division Multiple Access (OFDMA)

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 inefficient use of air-time reduced latency and increased bandwidth to add more devices to your network.



Powerful Triple-core Processor

Nighthawk AX5 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 the 160MHz channel allows the Nighthawk AX5 WiFi Router to stream at Gigabit speeds to supported mobile devices, which are increasingly used for video streaming or gaming.



Nighthawk App

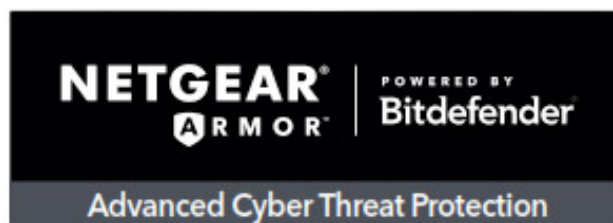
The NETGEAR Nighthawk® App makes it easy to set up your router and get more out of your WiFi. With the app, you can install your router in a few steps—just connect your mobile device to the router network and the app will walk you through the rest. Once set up, you can use the intuitive dashboard to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

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.



Powerful Security on Your NETGEAR Router

	ANTIVIRUS & RANSOMWARE PROTECTION— Keeps you safe from phishing and online fraud
	VULNERABILITY ASSESSMENT—Scans and identifies network security flaws
	BITDEFENDER TOTAL SECURITY 2020—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

Connection Diagram



Package Contents

- NETGEAR® Nighthawk® AX5/5-Stream AX4200 WiFi Router (RAX43)
- Ethernet cable
- 4 external antennas
- 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 (AX4200)
 - 2.4GHz AX: 2×2 (Tx/Rx) 1024/256-QAM 20/40MHz, up to 574Mbps
 - 5GHz AX: 3×3 (Tx/Rx) 1024-QAM 20/40/80/160MHz, up to 3603Mbps
- Uplink & downlink OFDMA§ —Improved capacity and efficiency
- Powerful 1.5GHz 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) 10/100/1000 Mbps Gigabit Ethernet ports – 1 WAN & 4 LAN

Key Features

- 3.5X better performance than an AC router—5-stream WiFi with up to 4.2Gbps for 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—1.5GHz triple-core processor ensures smooth 4K UHD streaming & gaming
- 4 Gigabit LAN Ethernet ports—Connect more wired devices for faster file transfer and uninterrupted connections
- NETGEAR Armor™ —Advanced cyber threat protection for your home and all your 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
- 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
- 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 ††

Warranty

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



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. NETGEAR makes no representations or warranties about this product's compatibility with AX standards. Up to 4200Mbps wireless speeds achieved when connecting to other 802.11ax 4200Mbps 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 Armor requires a paid subscription after the initial introductory period.

For indoor use only.

NETGEAR, the NETGEAR Logo, NETGEAR Armor, and Nighthawk are trademarks of NETGEAR, Inc. Mac, Mac OS, the Mac logo, and iPhone are trademarks of Apple Inc. App Store is a service mark of Apple Inc., registered in the U.S. and other countries. Google Play and the Google Play logo are trademarks of Google LLC. Any other trademarks mentioned herein are for reference purposes only. ©2020 NETGEAR, Inc.

NETGEAR, Inc. 350 E. Plumeria Drive, San Jose, CA 95134-1911 USA, www.NETGEAR.com/support D-RAX43-0

NETGEAR®

D-RAX43-0



[NETGEAR RAX43 Nighthawk AX5 5-Stream AX4200 WiFi Router](#) [pdf] User Manual Nighthawk AX5 5-Stream AX4200 WiFi Router, RAX43

References

- [N English - NETGEAR Communities](#)
- [N NETGEAR Armor | Powered by BITDEFENDER | Premium Online Protection](#)
- [nighthawk-app.com](#)
- [N NETGEAR ProSupport for Home | NETGEAR](#)
- [N NETGEAR Support | NETGEAR](#)
- [N HARDWARE WARRANTY | PRODUCTS COVERED BY WARRANTY | NETGEAR](#)