

**NIGHTHAWK®****Nighthawk® AX8**  
8-Stream AX6600 Tri-Band WiFi Router

## WiFi 6 for Today's Smart Devices

Nighthawk® AX8 Tri-Band WiFi 6 Router is powered by the industry's latest WiFi 6 (802.11ax) standard with 4 times increased data capacities in a dense environment to handle up to 40 devices in your

growing home network. Blazing-fast combined WiFi speeds up to 6.6Gbps and AX optimized 1.5GHz quad-core processor powers smart home automation, ultra-smooth 4K UHD streaming, online gaming, and

more. With NETGEAR Armor™, you get the best-in-class cybersecurity to protect your family from malware, stolen passwords, identity theft, and hacker attacks.

**NIGHTHAWK®**

# Nighthawk® AX8 8-Stream AX6600 Tri-Band WiFi Router



## 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/8K 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/8K streaming, & VR/AR gaming.

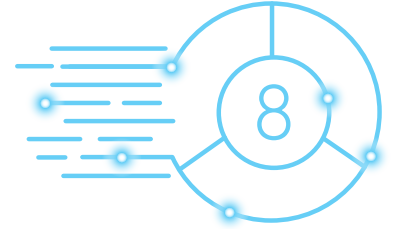
### Range

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.

**NETGEAR®**

### 8-Stream Tri-Band WiFi

Ultra WiFi 6 performance delivering multiple 4K streaming to smart TVs, mobile devices, and gaming consoles.



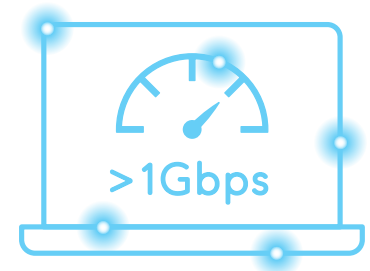
### Faster Upload & Download Speeds

Faster WiFi download & upload speeds at the same time.



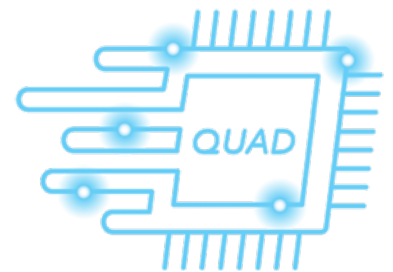
### Greater than 1Gbps WiFi Speeds

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



### Quad-core 1.5GHz Processor

More processing power increases the overall performance of your network.



# NIGHTHAWK®

## Nighthawk® AX8 8-Stream AX6600 Tri-Band WiFi Router

### Speed

Get ultra-fast wireless speeds for better 4K/8K UHD streaming, gaming or video conferencing experience.



UP TO 6.6GBPS SPEEDS—1.2+4.8 Gbps + 600Mbps<sup>†</sup> with 8-stream connectivity\*\*



4x4 MU-MIMO<sup>‡</sup>—Go faster by simultaneously streaming to multiple devices



AX OPTIMIZED QUAD-CORE PROCESSOR—1.5GHz quad-core processor ensures smooth 4K UHD streaming & gaming



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



ONE 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



MULTI-GIG EXPERIENCE—Maximize your available Internet speeds with link port aggregation support. Ability to aggregate two Gigabit LAN ports and two Gigabit WAN ports (configurable)

### 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.



UP TO 4 SIMULTANEOUS WIFI STREAMS—4-stream MU-MIMO<sup>‡</sup> enables up to four (4) 1x1 devices to stream content at the same time



AX OPTIMIZED POWERFUL PROCESSOR—1.5GHz quad-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**—Six (6) hidden antennas extend strong and reliable WiFi signals over larger area. Antennas are pre-optimized for best WiFi performance

## Sharing

With NETGEAR, sharing across your network is fun and easy, such as accessing stored photos & music. And make sure you keep it safe by using the included ReadySHARE Vault application for backing up Windows-based PCs.



**READYSHARE® USB ACCESS**—Wirelessly access & share USB hard drive via USB port



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



**READYSHARE® VAULT**—Free software for automatic PC backup to a USB hard drive connected to the router

## 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 TRI-BAND WIFI**—Ensures the best WiFi performance with more available bandwidth and less congestion for all devices on the network



**PRE-OPTIMIZED ANTENNAS**—Unfold and set antennas on the router, no further adjustment required. The AX8 antennas come pre-optimized for best WiFi performance



**ADDITIONAL DFS CHANNELS**—Reduce interference from neighboring networks for smoother streaming

**NIGHTHAWK®**

# Nighthawk® AX8 8-Stream AX6600 Tri-Band WiFi Router

## 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!



**SMART CONNECT**—Intelligently selects the fastest WiFi band for every device connection. One WiFi name for the entire home.



**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**—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<sup>††</sup>. 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

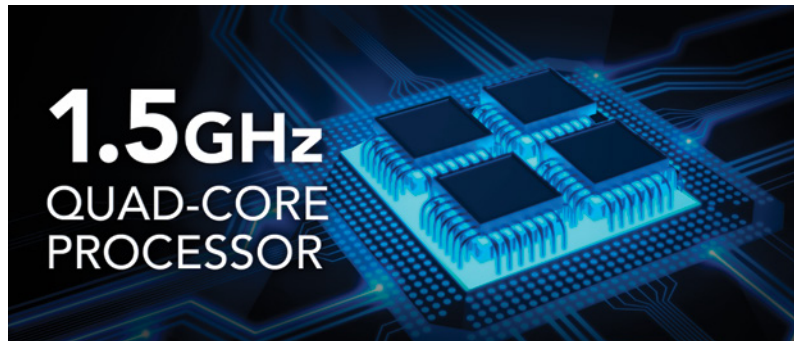


# NIGHTHAWK®

## Nighthawk® AX8 8-Stream AX6600 Tri-Band WiFi Router

### Powerful Quad-core Processor

Nighthawk AX8 Tri-Band WiFi 6 Router is powered by a 1.5GHz quad-core processor designed to transfer multi-Gigs of data with almost zero CPU load. An additional quad-core co-processor handles all Multi-Gig LAN-WAN traffic, ensuring the main processor is available for all other applications. Enjoy smoother Ultra-HD 4K video streaming and gaming without interruptions.



### Multi-Gig Internet\*

Nighthawk AX8 Tri-Band WiFi 6 Router is one of the first routers to support WAN port aggregation that allows combining two Gigabit Ethernet ports to deliver more than one Gigabit internet speed to your home (where supported).



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**Gigabit WiFi to Mobile Devices**

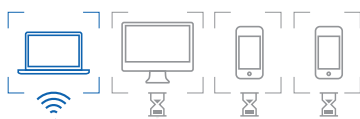
Support for 160MHz channel allows the Nighthawk AX8 Tri-Band WiFi 6 Router to stream at Gigabit speeds to supported mobile devices, which are increasingly used for video streaming or gaming.

**4x4 Multi-user MIMO**

Using multi-user MIMO<sup>†</sup> technology, routers can stream data to multiple devices simultaneously. 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



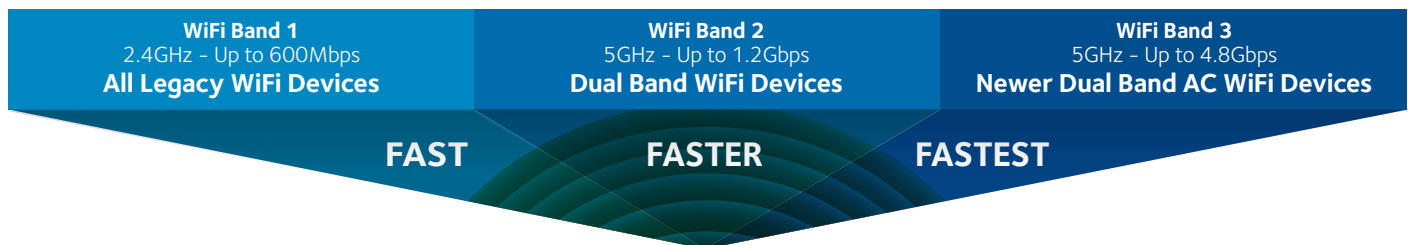
**NIGHTHAWK®**

# Nighthawk® AX8 8-Stream AX6600 Tri-Band WiFi Router

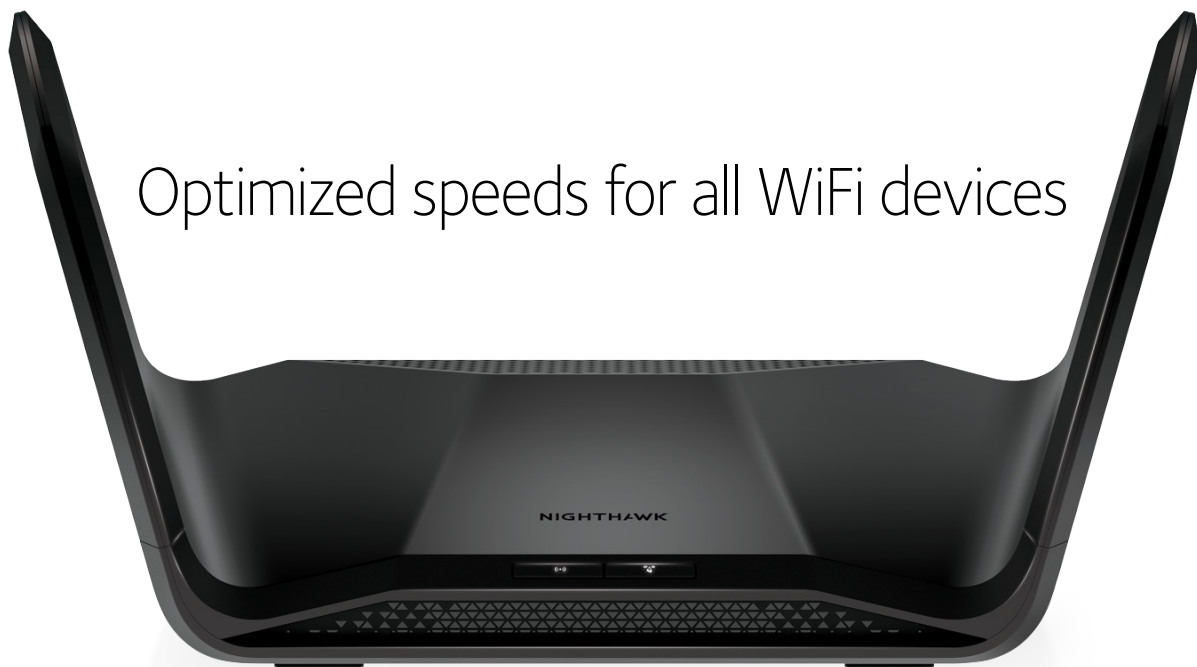
## Tri-Band WiFi

The Nighthawk AX8 AX6600 Router with breakthrough Tri-Band WiFi technology delivers a massive combined wireless speed of up to 6.6Gbps. The AX8 optimizes WiFi performance by intelligently assigning every device to the fastest WiFi band possible and doing so allows devices to connect at their maximum speed. Even if everyone and everything in the home that's connected to the Internet is streaming, gaming, working, playing, socializing or updating at the same time, the AX8 won't miss a beat—you'll enjoy seamless clarity and zero lag.

## Tri-Band WiFi provides 3 dedicated WiFi Bands



Optimized speeds for all WiFi devices

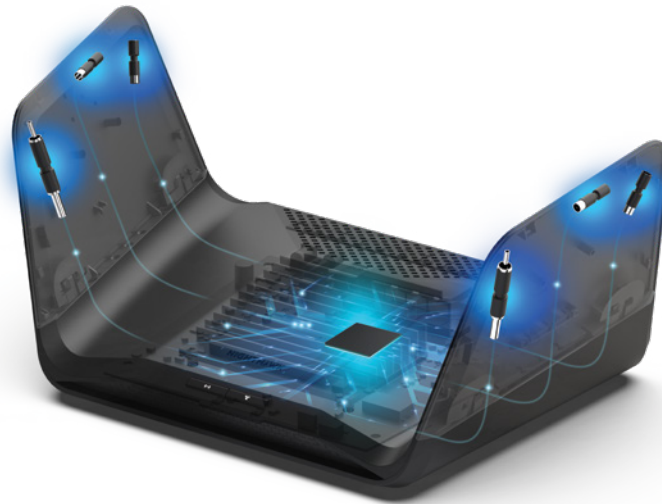


**NIGHTHAWK®**

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## State-of-the-art Industrial Design

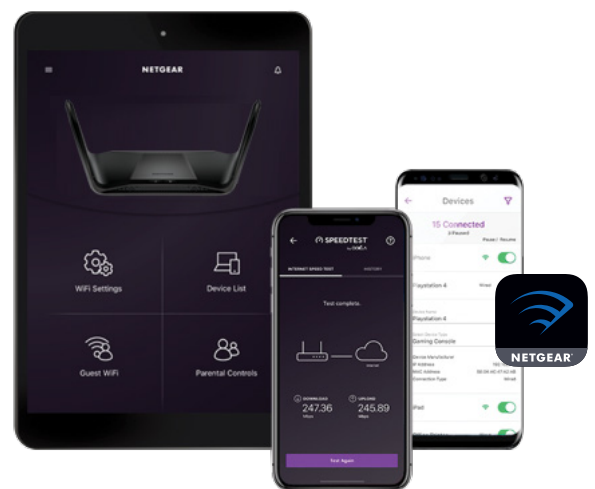
The next-generation Nighthawk AX8 Tri-Band WiFi 6 Router design conceals six (6) high-performance antennas under the 'wings'. The antennas are optimally positioned for best WiFi performance and extend strong and reliable WiFi coverage indoors and outdoors.



## Nighthawk App

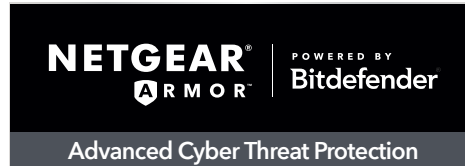
The NETGEAR Nighthawk® App makes it easy to set up your router and get more out of your WiFi. With the app, you can install your router in a few steps—just connect your mobile device to the router network and the app will walk you through the rest. Once set up, you can use the intuitive dashboard to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

**NETGEAR®**

## 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



# NIGHTHAWK®

# Nighthawk® AX8 8-Stream AX6600 Tri-Band WiFi Router

## Package Contents

- NETGEAR® Nighthawk® AX8/8-stream AX6600 Tri-Band WiFi 6 Router (RAX70)
- Ethernet cable
- Quick start guide
- Power adapter

## Physical Specifications

- Dimensions:
  - **Folded size:** 11.85 x 8.15 x 3.31 in (301 x 207 x 84 mm)
  - **Unfolded size:** 13.66 x 8.19 x 6.57 in (347 x 208 x 167 mm)
- Weight: 2.58 lb (1171 g)

## Technical Specifications

- WiFi 6 (802.11ax) Tri-Band WiFi (AX6600)
  - 2.4GHz AX: 2x2 (Tx/Rx) 1024/256-QAM 20/40MHz, up to 0.6Gbps
  - 5GHz AX: 2x2 (Tx/Rx) 1024/256-QAM 20/40/80MHz, up to 1.2Gbps
  - 5GHz AX: 4x4 (Tx/Rx) 1024/256-QAM 20/40/80/160MHz, up to 4.8Gbps
  - Backwards compatible with 802.11a/b/g/n/ac WiFi
- 1024-QAM—25% data efficiency and faster speeds than a 256-QAM router
- One (1) USB 3.0 port
- Powerful quad-core 1.5GHz processor
- 160MHz channel support
- Additional DFS channels reduce interference from neighboring networks
- MU-MIMO±—Simultaneous streaming of data to multiple devices
- Longer range with 6 high-performance antennas
- 5 Gigabit ports—Connect more wired devices for faster file transfer and uninterrupted connections. Two (2) ports can be aggregated for faster LAN transfer and two (2) can be aggregated to enable Multi-Gig Internet
- IPv6 Support (Internet Protocol Version 6)
- Memory: 256MB NAND flash and 512MB DDR3 SDRAM
- On/Off LED light switch

## Key Features

- 5.5X better performance than an AC router—8-stream WiFi with up to 1.2 + 4.8Gbps + 600Mbps<sup>†</sup> for ultra-fast wireless speeds<sup>\*\*</sup>
- Up to 4 simultaneous WiFi streams—4-stream MU-MIMO enables up to four (4) 1x1 devices at the same time
- 160MHz channel support<sup>\*\*\*</sup>—Doubles the speeds as offered by 80MHz channels to provide Gigabit speeds for compatible mobile devices and laptops
- Powerful processor—1.5GHz quad-core processor ensures smooth 4K UHD streaming & gaming
- Dynamic QoS—Prioritizes Internet traffic by application and device for smoother streaming
- 5 Gigabit ports—Connect more wired devices for faster file transfer and uninterrupted connections. Two (2) ports can be aggregated for faster LAN transfer and two (2) can be aggregated to enable multi-Gig Internet
- Smart Connect—Intelligently selects the fastest WiFi band for every device connection. One WiFi name for the entire home
- 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 network and your connected devices<sup>††</sup>
- 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
- NETGEAR Armor™—Advanced cyber threat protection for your home network and your connected devices<sup>††</sup>

## 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)

**NIGHTHAWK®**

# Nighthawk® AX8 8-Stream AX6600 Tri-Band WiFi Router



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.

<sup>A</sup> Multi-Gig Internet speeds require compatible service plans and equipment. Please visit [support.netgear.com](http://support.netgear.com) for more information.

<sup>†</sup> 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 6600Mbps wireless speeds achieved when connecting to other 802.11ax 6600Mbps devices.

<sup>‡</sup> As compared to an AC1200 2x2 router.

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

<sup>\*\*\*</sup> Requires client device that supports 160MHz bandwidth on WiFi.

<sup>††</sup> NETGEAR Armor requires a paid subscription after the initial introductory period.

For indoor use only.

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NETGEAR, Inc. 350 E. Plumeria Drive, San Jose, CA 95134-1911 USA, [www.NETGEAR.com/support](http://www.NETGEAR.com/support)

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