

**NIGHTHAWK®**Nighthawk® RAXE500  
AXE11000 Tri-Band WiFi Router

## WiFi 6E: Expanding WiFi with New Speeds

Nighthawk® RAXE500 Tri-Band WiFi 6E Router is powered by WiFi 6E, delivering the smoothest and fastest streaming, eLearning, video conferencing, and gaming experience. Now you can have all the power of 6th generation WiFi plus expanded speeds, connections, and capacity with a completely new and wider 6GHz WiFi band that has up to 3.5X more

WiFi channels. Up to 9x faster<sup>Δ</sup> WiFi speeds up to 10.8Gbps<sup>+</sup> and AX-optimized 1.8GHz quad-core processor powers smart home automation, ultra-smooth 4K/8K streaming, low latency gaming, and more. Multi-Gig 2.5G Ethernet interface can be used for wired devices on LAN or for getting faster Multi-Gig Internet speed. Plus, eight high-performance antennas

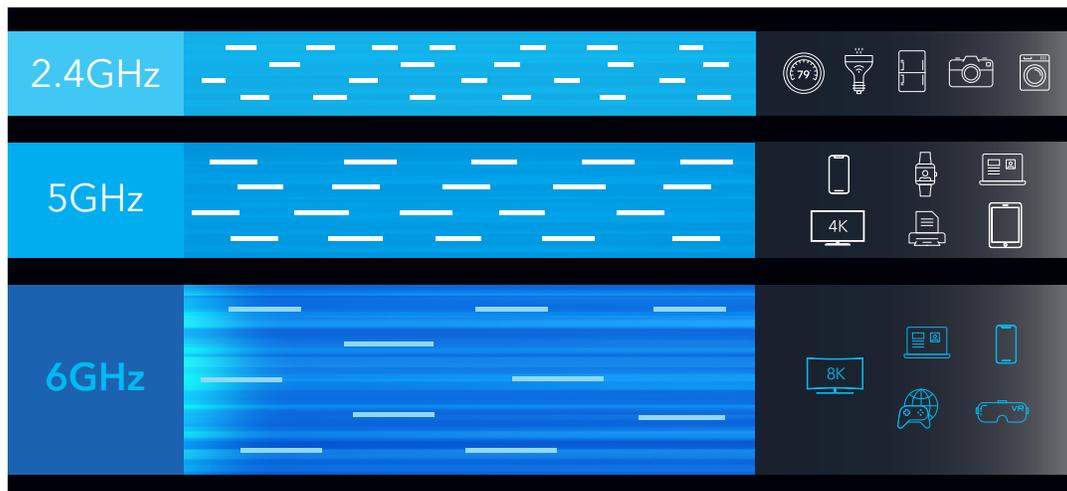
on the router amplify WiFi signals for maximized range and reliable coverage for a 5-6 bedroom home. With NETGEAR Armor™, you get multi-layered cybersecurity for an unlimited number of devices that provides encrypted connections, keeps your online activity private, secures lost or stolen devices, and blocks suspicious devices on your network.

**NETGEAR®**

**WiFi 6E: Expanding WiFi with New Speeds**

Introducing WiFi 6E, delivering the smoothest and fastest streaming, eLearning, video conferencing, and gaming experience. Now you can have all the power of 6th-generation WiFi plus expanded speeds, connections, and capacity thanks to a completely new and wider 6GHz WiFi band with more WiFi channels.

- **New 6GHz WiFi Band**—Exclusive access for only devices supporting the new 6GHz band means less congestion and faster speed
- **More Spectrum**—Up to 200% more spectrum than dual band (2.4GHz & 5GHz) WiFi to WiFi 6E devices
- **More High-Bandwidth WiFi Channels**—Up to 3.5X more high-bandwidth 160MHz WiFi channels for applications such as your 8K video streaming
- **Ultra-Low Latency**—Less traffic on the 6GHz band gives you lower latency for your AR/VR gaming and other WiFi-intense applications
- **Cutting-Edge WPA3 Security**—The latest WiFi security protocol to keep your family and network safe

**WiFi 6E delivers more bandwidth for new devices**

**NIGHTHAWK®**

# Nighthawk® RAXE500 AXE11000 Tri-Band WiFi Router

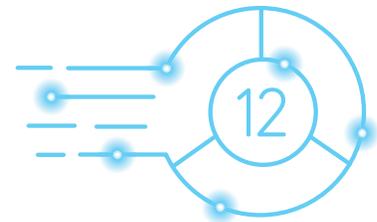
## New 6GHz WiFi Band

Access the smoothest and fastest streaming experience for eLearning, video conferencing, and AR/VR gaming.



## 12-Stream Tri-Band WiFi

Tri-Band WiFi 6E delivers multiple 4K/8K streaming, ultra-low latency gaming & new blazing-fast Internet speeds.



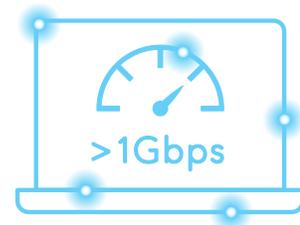
## Multi-Gigabit Internet

Maximize your Internet speeds up to 2.5Gbps with new versatile Ethernet wired connections.



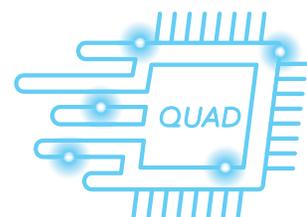
## Greater than 1Gbps WiFi Speeds

Enjoy streaming even more with ultra-fast WiFi speeds to compatible smartphones, laptops and more.



## Quad-core 1.8GHz Processor

High-performance processor delivers fast & reliable connections to all devices & applications.

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# NIGHTHAWK®

## Nighthawk® RAXE500 AXE11000 Tri-Band WiFi Router

### Speed

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



**NEW 6GHZ WIFI BAND\*\***—Enjoy faster speed and less congestion with up to 200% more available spectrum than dual band (5GHz & 2.4GHz) WiFi alone



**UP TO 10.8GBPS† SPEEDS**—1.2 + 4.8 + 4.8Gbps with 12-stream connectivity\*\*



**4X4 MU-MIMO†**—Go faster by simultaneously streaming to multiple devices



**AX-OPTIMIZED QUAD-CORE PROCESSOR**—Powerful 1.8GHz processor boosts wireless, wired & WAN-to-LAN performance



**MULTI-GIG 2.5G ETHERNET PORT**—2.5X the wired speed of typical Gigabit Ethernet port for LAN or Internet connectivity



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



**TWO SUPERSPEED USB 3.0 PORTS**—Up to 10X faster than USB 2.0



**MULTI-GIG EXPERIENCE**—Maximize your available Internet speeds with link 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.



**MORE WIFI FOR MORE DEVICES**—OFDMA allows efficient data transmission at the same time<sup>§</sup>



**12 STREAMS TRI-BAND WIFI**—12 WiFi streams (four streams of 6GHz, four streams of 5GHz, and four streams of 2.4GHz) means more available bandwidth and less congestion for all devices on WiFi



**AX-OPTIMIZED PROCESSOR**—64-bit 1.8GHz quad-core processor ensures smooth 4K/8K 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**—Eight (8) hidden antennas extend strong and reliable WiFi signals over larger area.™ Antennas are pre-optimized for best WiFi performance



**MORE HIGH-BANDWIDTH WIFI CHANNELS**—Blazing-fast speed and less interference with 3X more high-bandwidth 160MHz WiFi channels

# NIGHTHAWK®

## Nighthawk® RAXE500 AXE11000 Tri-Band WiFi Router

### Sharing

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



**READYSHARE® USB ACCESS**—Wirelessly access & share USB hard drive via two (2) USB ports



**TWO USB 3.0 PORTS**—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 2.4GHz, 5GHz & 6GHz devices



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



**ULTRA-LOW LATENCY**—Very few devices on the new 6GHz band means lower latency for gaming and real-time traffic



**PRE-OPTIMIZED ANTENNAS**—Unfold and set antennas on the router, no further adjustment required. The AXE12 antennas come pre-optimized for best WiFi performance



**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!



**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 remote access to manage your network away from home



**WIFI 6 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



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



**AUTOMATIC FIRMWARE UPDATE**—Delivers latest security patches to the router



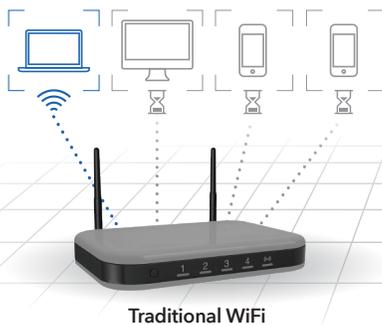
**LATEST SECURITY STANDARD**—Supports WPA3 the latest and cutting-edge WiFi security protocol

**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 with 4 streams.

## Enjoy simultaneous streaming with MU-MIMO

Data sent to one device at a time



Data sent to multiple devices simultaneously

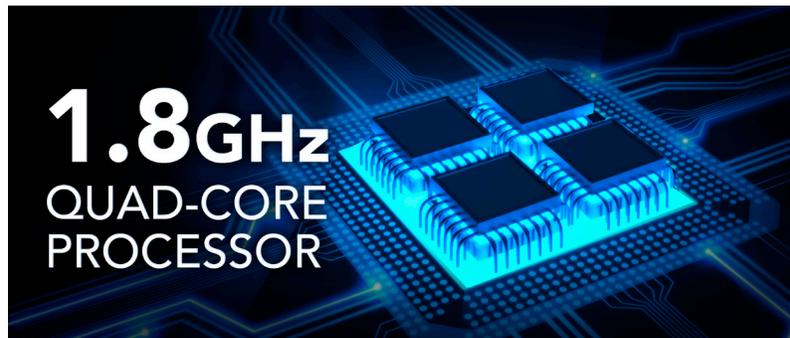


# NIGHTHAWK®

## Nighthawk® RAXE500 AXE11000 Tri-Band WiFi Router

### Ultra-powerful AX-optimized Quad-core Processor

Nighthawk RAXE500 Tri-Band WiFi 6E Router, powered by a 64-bit 1.8GHz quad-core processor, is built for performance at an ultimate level. The ultra-fast processor enables the router to seamlessly handle data intensive applications such as 4K/8K UHD video streaming, VR/AR gaming, as well as provide a stronger, more reliable WiFi experience. This powerful processor is optimized for AX making intelligent spontaneous decisions to schedule data traffic to maximize WiFi Bandwidth utilization.



### Award-winning Industrial Design

This next-generation Nighthawk RAXE500 Tri-Band WiFi 6E Router router design conceals eight (8) 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.™



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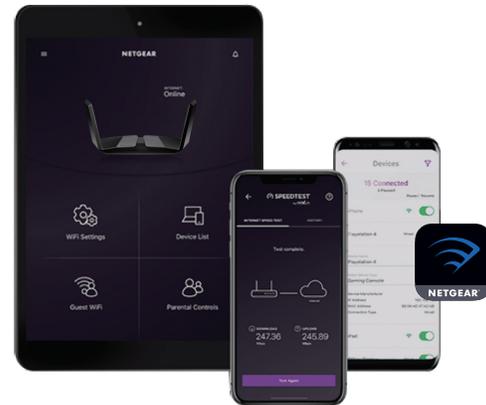
# NIGHTHAWK®

## Nighthawk® RAXE500 AXE11000 Tri-Band WiFi Router

### 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](http://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

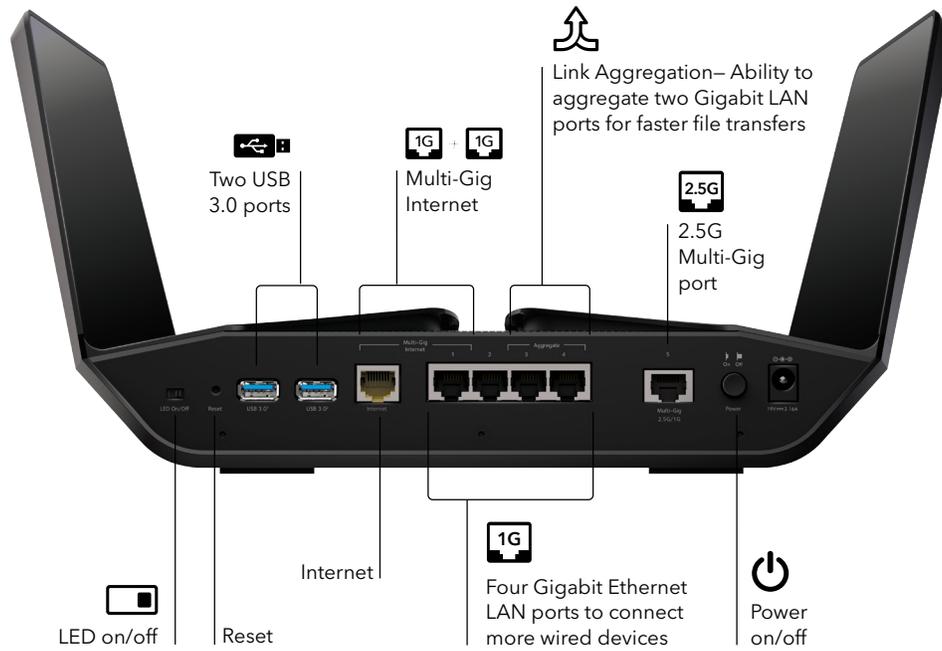


**BITDEFENDER VPN**—Encrypts your internet connection to keep your online activity private even while you're on unsecured public networks



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

## Connection Diagram



# NIGHTHAWK®

# Nighthawk® RAXE500 AXE11000 Tri-Band WiFi Router

## Package Contents

- Nighthawk® AXE11000 Tri-Band WiFi 6E Router (RAXE500)
- Ethernet cable
- Quick start guide
- Power adapter

## Physical Specifications

- Dimensions: 11.7 x 3.07 x 8.3 in (298 x 78 x 211 mm)
- Weight: 3.2 lb (1.45 kg)

## Technical Specifications

- WiFi 6E (IEEE® 802.11ax) Tri-Band WiFi (AXE11000)
  - 2.4GHz AX: 4x4 (Tx/Rx) 1024/256-QAM 20/40MHz, up to 1.2Gbps
  - 5GHz AX: 4x4 (Tx/Rx) 1024/256-QAM 20/40/80/160MHz, up to 4.8Gbps
  - New 6GHz AX: 4x4 (Tx/Rx) 1024/256-QAM 20/40/80/160MHz, up to 4.8Gbps
  - Backwards compatible with IEEE 802.11 a/b/g/n/ac WiFi
  - Supports new WiFi 6E devices on 6GHz WiFi band
- OFDMA<sup>§</sup>—Improved capacity and efficiency
- 1024-QAM—25% data efficiency and faster speeds than a 256-QAM router
- MU-MIMO<sup>±</sup>—4-stream MU-MIMO enables up to four (4) 1x1 devices at the same time
- Two (2) USB 3.0 ports
- Powerful 64-bit quad-core 1.8GHz processor
- Longer range with 8 high-performance antennas<sup>\*\*</sup>
- Five (5) 10/100/1000 Mbps Gigabit Ethernet ports + one (1) 2.5G/1Gbps Multi-Gig port (configurable)
  - LAN: 4xGbE (2x port aggregation LAN) + 2.5G/1Gbps Multi-Gig port (configurable)
  - WAN: 1 GbE or 2.5G/1Gbps Multi-Gig port (configurable)
  - Multi-Gig: Ability to aggregate two Gigabit LAN ports and two Gigabit WAN ports (configurable) concurrently

- One (1) 2.5G/1Gbps Multi-Gig port (configurable)
- Memory: 512MB NAND flash and 1GB DDR3 SDRAM
- Additional DFS channels reduce interference from neighboring networks
- IPv6 Support (Internet Protocol Version 6)
- On/Off LED light switch

## Key Features

- Blazing-fast 10Gbps WiFi speeds—12-Stream Tri-band WiFi with combined wireless speeds up to 10.8Gbps (1.2+4.8+4.8Gbps)<sup>†</sup>
- 12-Stream Tri-Band WiFi—12 WiFi streams (four streams each for 2.4GHz, 5GHz & 6GHz) means more available bandwidth and less congestion for all the devices on the WiFi network
- Increased capacity for the smart home—The latest generation WiFi 6 technology improves WiFi performance and reliability of connections to all your devices by up to 4 times<sup>\*\*</sup>
- Multi-Gig experience—Maximize your available Internet speeds with link aggregation support. Ability to aggregate two Gigabit LAN ports and two Gigabit WAN ports (configurable)
- WiFi 6E optimized powerful processor—64-bit 1.8GHz quad-core processor ensures smooth 4K/8K UHD streaming & gaming – ideal for Gigabit Internet speeds
- Multi-Gig Ethernet 2.5G port—2.5 times the wired speed of typical Gigabit port
- 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 remote access to manage your network away from home
- NETGEAR Armor™—Advanced cyber threat protection for your home and all your devices<sup>††</sup>
- WiFi 6 supports all current WiFi devices—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

- 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
- Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)
- Supports WPA3, the latest and cutting-edge WiFi security protocol
- 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)

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AXE11000 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.

† Maximum wireless signal rate derived from IEEE 802.11 specifications. Actual data throughput and wireless coverage will vary and be lowered by network and environmental conditions, including network traffic volume, device limitations, and building construction. NETGEAR makes no representations or warranties about this product's compatibility with future standards. Up to 10.8Gbps wireless speeds achieved when connecting to other 802.11ax 10.8Gbps devices.

△ As compared to a WiFi 5 (802.11ac) router.

\*\* Clients must support 6GHz band (WiFi 6E).

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

†† NETGEAR Armor requires a paid subscription after the initial introductory period.

‡ MU-MIMO capability requires both router and client device to support MU-MIMO. The country settings must be set to the country where the device is operating.

~ 6GHz band is limited to indoor range.

For indoor use only.

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