



Welcome to Elite WiFi 7

Unlock new levels of performance with pristine 8K streaming, video conferencing, and immersive gaming with real-time responsiveness. Leverage the power of WiFi 7 for speeds up to 12Gbps at 2.4x faster than WiFi 6 and 320MHz high-capacity channels for up to 120 devices. The Nighthawk® RS500 WiFi 7 Tri-band Router offers 3 bands of WiFi, including the ultra-fast 6GHz band for peak performance with less interference from neighboring networks. The high-performance antenna design provides up to 3,000 sq. ft. WiFi coverage, and you can connect your high-demand devices to the 2.5Gig LAN port and three 1Gig LAN ports for ultra-fast wired speed.

Key Features

- **WiFi 7 from the Leader in WiFi Innovation**—Nighthawk WiFi 7 is built on 25+ years of pioneering innovation and precision-engineered to NETGEAR's exacting quality standards, so you can enjoy all the benefits WiFi 7 has to offer.
- **Blazing-fast WiFi**—Blazing-fast WiFi 7 speeds up to 12Gbps[†] for gaming, smooth streaming, video conferencing, and entertainment.
- **More Capacity for Data-intense Activities**—Connect up to 120 devices, like your security cameras, smart home devices, and speakers, while enjoying 4K/8K video streaming, online gaming and video conferencing.
- **Multi-Gig Speeds with 2.5GbE Internet Port**—Use the 2.5 Gig internet port for cable and fiber plans up to 2.5Gbps². Compatible with any internet service provider.
- **2.5GbE Wired Port and More**—Plug in wired devices to improve performance via the 2.5Gbps Ethernet LAN port and three 1Gbps Ethernet LAN ports.
- **Lightspeed Performance**—6GHz WiFi band¹ provides an additional high-speed highway for enhanced performance.
- **Expansive Coverage**—Ultra-powerful antenna array provides coverage up to 3,000 sq. ft.
- **Nighthawk® App**—Easily set up your router, manage your network from anywhere, pause the Internet on your connected devices, run a quick Internet speed test, track your Internet data usage, set up separate guest networks, and more.
- **Comprehensive Features**—Use 3.0 USB to share files with any connected devices, use the VPN for secure access to your home network remotely, and more.

Technical Specifications

- WiFi 7 BE12000 Router Tri-band WiFi[†]
 - 2.4GHz (2x2), 0.7Gbps, 40 to 20MHz, 4K-QAM
 - 5GHz (4x4), 5.8Gbps, 160 to 20MHz, 4K-QAM
 - 6GHz¹ (2x2), 5.8Gbps, 320 to 20MHz, 4K-QAM
- MU-MIMO capable for simultaneous data streaming³
- Uplink & Downlink OFDMA⁴ for improved capacity and efficiency
- Antennas: Six (6) high-performance internal antennas and high-power amplifiers
- Memory—512MB NAND flash and 2GB RAM
- Powerful quad-core 2.0GHz processor
- Ports:
 - One (1) 2.5Gbps internet port
 - One (1) 2.5Gbps Ethernet LAN ports
 - Three (3) 10/100/1000Mbps Gigabit Ethernet LAN ports
 - One (1) USB 3.0 port

Services & Security

- NETGEAR Smart Parental Controls™—Easily manage your kids' exposure and time online across all their connected devices and build healthy habits. Learn more at www.netgear.com/spc
- NETGEAR Armor™ powered by Bitdefender®—Protects your family's WiFi by creating an automatic shield for your connected devices. Real-time protection against hackers getting into devices like laptops, phones, security cameras, & door locks, as well as alerts when sensitive data may be stolen. ^{††} Learn more at www.netgear.com/armor
- Standards-based WiFi Security WPA, WPA2, and WPA3 with 128-bit AES encryption
- Auto-firmware update delivers latest security patches to the router automatically
- VPN support—Secured remote access to your home network
- Guest WiFi network makes it easy to set up separate & secure internet access for guests
- Stateful packet inspection (SPI) firewall blocks unintended access from the internet
- Access control prevents rogue devices from connecting to your network



Nighthawk® WiFi 7 Tri-Band Router

Package Contents

- One (1) WiFi 7 Tri-Band Router (RS500)
- One (1) 2m Ethernet cable
- One (1) 12V/3.5A power adapter
- Quick start guide

Physical Specifications

- Dimensions: 9.8 x 5.9 x 4 in (249 x 150 x 101.6 mm)
- Weight: 2.73 lb (1.24 kg)

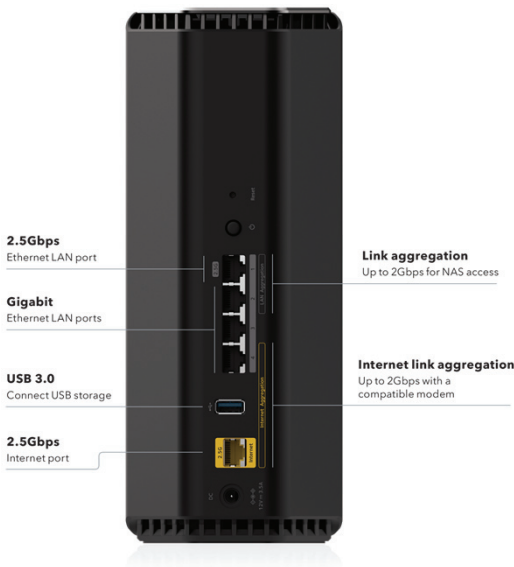
System Requirements

- Broadband internet service (DSL/cable/fiber/satellite)
- One DSL/cable/fiber/satellite modem that has an RJ45 connector
- Android® phones, iPhones®, or computers with Ethernet or WiFi connection

Warranty & Support

- www.netgear.com/warranty
- Visit: www.netgear.com/home/services/prosupport to extend your warranty & technical support [U.S. only]
- 90-day complimentary technical support following purchase from a NETGEAR authorized reseller
- Join the NETGEAR Community Forum. Visit <http://community.netgear.com>

Connection Diagram



This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller.

[†] Maximum wireless signal rate derived from IEEE 802.11be specifications. Actual data throughput and wireless coverage will vary and be lowered by network, your country's regulation, 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. To achieve maximum wireless/wired speed requires devices that use the latest wireless/wired standards and support maximum speeds.

¹ Clients must support 6GHz band. 6GHz band is limited to indoor range.

² Gigabit/Multi-Gig service plans & compatible cable modem required for Gigabit or Multi-Gig Internet speeds.

³ MU-MIMO capability requires both router and client device to support MU-MIMO.

⁴ Requires compatible clients with DL-OFDMA and UL-OFDMA support.

^{††} NETGEAR Armor is free during the initial 30-day trial. A yearly subscription, after the trial period, protects your connected devices.

[∞]NETGEAR Smart Parental Controls™ fees apply for a Premium Plan.

NETGEAR, the NETGEAR Logo, NETGEAR Armor, NETGEAR Smart Parental Controls, and Nighthawk are trademarks of NETGEAR, Inc. Mac, Mac OS , the Mac logo, and iPhone are trademarks of Apple Inc. Any other trademarks mentioned herein are for reference purposes only. ©2024 NETGEAR, Inc.

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