



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 12 Gbps¹ at 2.4X faster than WiFi 6 and 320 MHz 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 6 GHz band for peak performance with less interference from neighboring networks. The high-performance antenna design provides up to 3,000 sq. ft.¹ WiFi coverage, and you can connect your high-demand devices to the 2.5 Gig LAN port and three 1 Gig LAN ports for ultra-fast wired speed.

Key Features

- **WiFi 7 from the Leader in WiFi Innovation**—Nighthawk WiFi 7 is built on 30+ 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 12 Gbps¹ for gaming, smooth streaming, video conferencing, and entertainment.
- **More Capacity for Data-intensive 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 2.5 Gbps². Compatible with any internet service provider.
- **2.5GbE Wired Port and More**—Plug in wired devices to improve performance via the 2.5 Gbps² Ethernet LAN port and three 1Gbps Ethernet LAN ports.
- **Lightspeed Performance**—6 GHz WiFi band³ provides an additional high-speed highway for enhanced performance.
- **Expansive Coverage**—Ultra-powerful antenna array provides coverage up to 3,000 sq. ft.¹
- **Nighthawk® App⁴**—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 WiFi¹
 - 2.4GHz (2x2)
 - 5GHz (4x4)
 - 6GHz³ (2x2)
- MU-MIMO capable for simultaneous data streaming⁵
- Uplink & Downlink OFDMA⁶ for improved capacity and efficiency
- Antennas: (6) high-performance internal antennas and high-power amplifiers
- Powerful quad-core 2.0 GHz processor
- Ports:
 - (1) 2.5 Gbps internet port
 - (1) 2.5 Gbps Ethernet LAN ports
 - (3) 10/100/1000 Mbps Gigabit Ethernet LAN ports
 - (1) USB 3.0 port

Services & Security

- NETGEAR Armor™ powered by Bitdefender®—With an optional NETGEAR Armor™ subscription, powered by Bitdefender®, enjoy enhanced security and privacy for your connected devices and personal data, at home and beyond, including real-time threat prevention, VPN, and more. Learn more at netgear.com/armor
- Create separate WiFi Networks:
 - Main Network: Primary network for your family's devices
 - IoT Network: Separate connection for smart home devices
 - Guest Network: Dedicated network for visitor access
- Access Control helps to prevent rogue devices from connecting to your network
- Supports automatic firmware updates to help improve security and performance*
- Engineered with exceptional WPA3 encryption technology to enhance the security of the WiFi connection to your devices
- Supports VPN to remotely access your home network more securely

Package Contents

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

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

- netgear.com/warranty
- Technical support is available at no charge for a specified period. Details at: netgear.com/home/support/details
- Join the NETGEAR Community Forum. Visit <http://community.netgear.com>

Physical Specifications

- Dimensions: 9.8 x 5.9 x 4 in (249 x 150 x 101.6 mm)
- Weight: 2.13 lb (0.967 kg)

Connection Diagram



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

* For the duration of software and cyber security updates, visit netgear.com/eos.

¹ 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.

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

³ Clients must support 6GHz band. 6GHz band is limited to indoor range.

⁴ Requires registration for a free NETGEAR account, installation of the Nighthawk iOS or Android app as well as agreement to the NETGEAR Terms of Service and Privacy Policy available at netgear.com.

⁵ MU-MIMO capability requires both router and client device to support MU-MIMO.

⁶ Requires compatible clients with DL-OFDMA and UL-OFDMA support.