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› NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS300) User Manual

NETGEAR RS300-100NAS

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Model: RS300-100NAS | Brand: NETGEAR

INTRODUCTION

The NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS300) is designed to provide blazing-fast WiFi 7 speeds up to 9.3 Gbps, offering 2.4x faster performance than WiFi 6. This router is ideal for maximizing performance across all your devices, supporting up to 100 concurrent connections and covering up to 2,500 sq. ft. It features advanced connectivity options including two 2.5 Gig and two 1 Gig LAN ports for fast wired speeds, making it suitable for 4K/8K video streaming, gaming, video conferencing, and smart home devices.



Figure 1: Front view of the NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS300).

PACKAGE CONTENTS

Verify that your package contains the following items:

- One (1) WiFi 7 Tri-Band Router (RS300)
- One (1) 2m Ethernet cable
- One (1) 12V/3.5A power adapter
- Quick start guide

KEY FEATURES

- **Blazing-fast WiFi 7 speeds:** Up to 9.3Gbps for gaming, smooth streaming, video conferencing, and entertainment.
- **Enhanced Speed:** WiFi 7 delivers 2.4x faster speeds than WiFi 6 to maximize performance across all devices. (Note: This is a Router, not a Modem.)
- **Built-in Security:** Automatic firmware updates and Advanced Router Protection for enhanced safety.
- **Wide Coverage:** Sleek design with high-performance antennas provides up to 2,500 sq. ft. of WiFi coverage.
- **Multi-Gig Internet Port:** 2.5 Gig internet port enables multi-gig speeds with the latest cable or fiber internet service plans. (A separate modem may be needed.)
- **Wired Connectivity:** Two 2.5 Gig and two 1 Gig Ethernet LAN ports for fast wired connections.
- **NETGEAR Armor:** Powerful suite of tools for online safety, including protection against hackers, malware, and identity theft. (Includes 30-day trial.)
- **No Coax Input:** This device is not a cable modem.
- **Regional Use:** Made for use in the U.S. only.

SETUP GUIDE

Follow these steps to set up your NETGEAR Nighthawk WiFi 7 Router:

1. **Unpack the Router:** Carefully remove the router and all accessories from the packaging.
2. **Position the Router:** Place the router in a central location in your home, away from obstructions and electronic devices that might cause interference. An elevated position is often best for optimal signal distribution.
3. **Connect to Modem:** Connect one end of the provided Ethernet cable to the 2.5 Gig Internet port (yellow) on the back of the router and the other end to your modem's Ethernet port.
4. **Power On:** Connect the power adapter to the router's power port and then plug it into a power outlet. Wait for the power LED on the router to turn solid white.
5. **Connect Devices:**
 - **Wireless Devices:** On your computer or mobile device, search for the WiFi network name (SSID) printed on the router's label. Select the network and enter the password (WiFi Key) when prompted.
 - **Wired Devices:** For devices requiring a wired connection, use Ethernet cables to connect them to the 2.5 Gig or 1 Gig LAN ports on the router.
6. **Install Nighthawk App:** Download the NETGEAR Nighthawk app from your mobile device's app store. The app provides an effortless setup process and allows you to manage your WiFi network from anywhere.
7. **Complete Setup via App:** Follow the on-screen instructions in the Nighthawk app to complete the router setup, customize settings, and activate security features.

2.5 Gig internet & LAN ports support fast wired connections

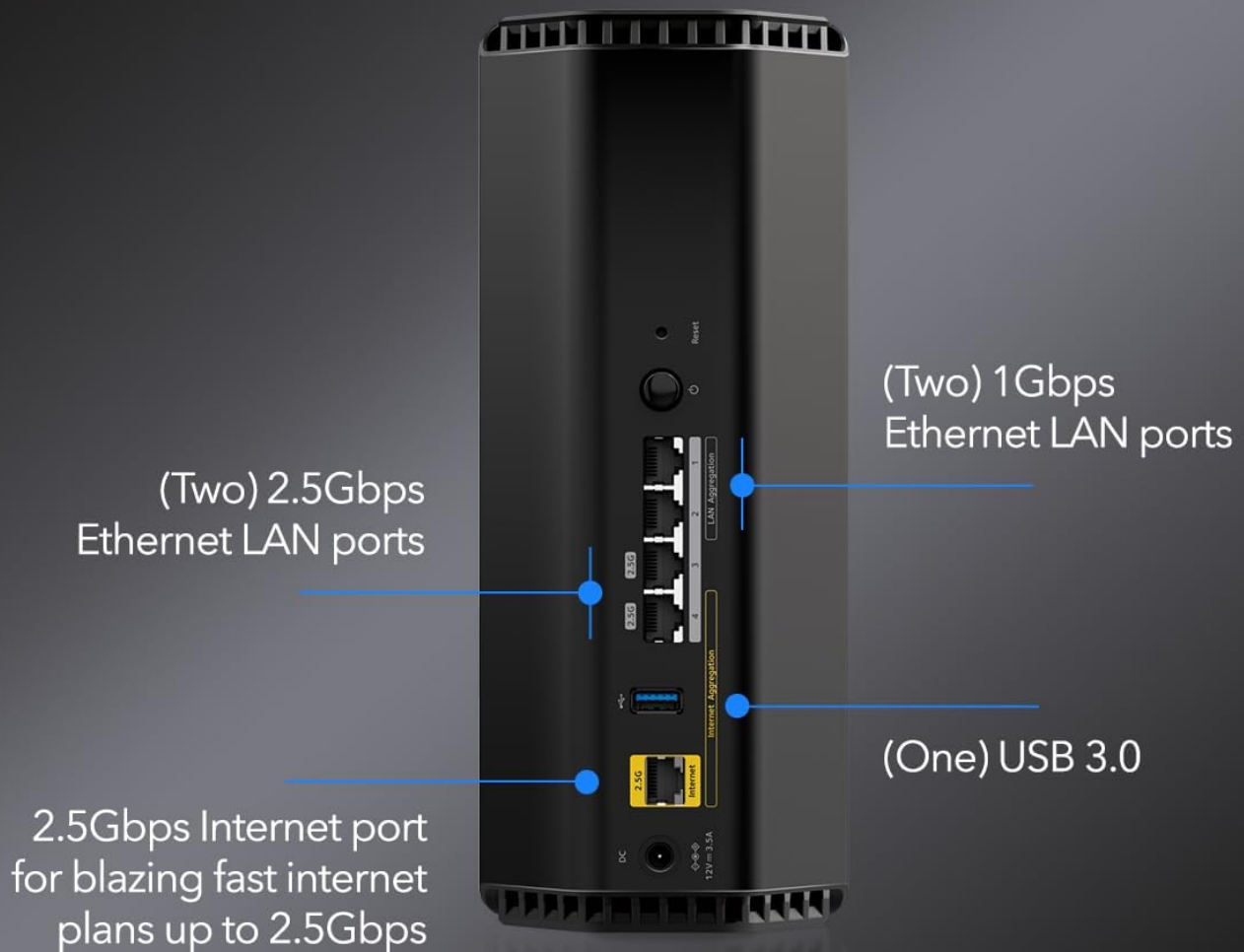


Figure 2: Rear view of the router showing the 2.5 Gig Internet port, LAN ports, and USB 3.0 port.

Your browser does not support the video tag.

Video 1: An official overview of the NETGEAR Nighthawk WiFi 7 Router, highlighting its features and ease of setup.

OPERATING YOUR ROUTER

The Nighthawk RS300 is designed for seamless operation, providing high-speed internet across your home. Here's how to get the most out of your router:

LED Indicators

The front panel of the router features LED indicators that provide status information:

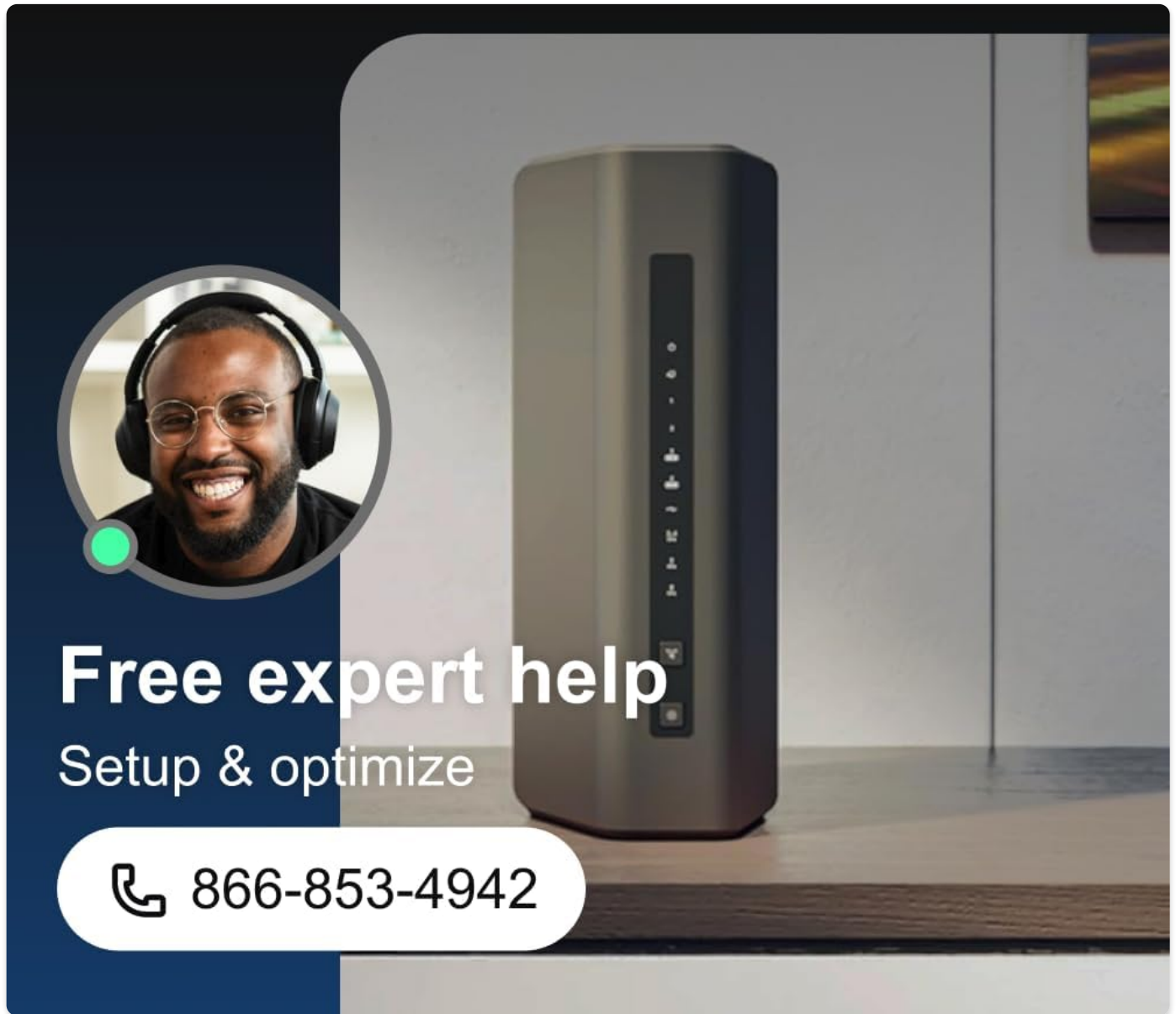
- **Power LED:** Indicates power status. Solid white for normal operation.
- **Internet LED:** Indicates internet connection status.

- **WiFi LEDs (2.4 GHz, 5 GHz, 6 GHz):** Indicate the status of each WiFi band.
- **Ethernet LAN Port LEDs:** Indicate activity on the wired LAN ports.
- **USB LED:** Indicates status of the USB port.

Managing Your Network with the Nighthawk App

The NETGEAR Nighthawk app offers comprehensive control over your network:

- **Effortless Setup:** Set up your WiFi, change your password, and create guest networks.
- **Monitor Your Network:** Test WiFi speeds, monitor data usage, see connected devices, and pause WiFi on any device.
- **Parental Controls:** Easily manage online time for kids and promote healthy internet habits.



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Figure 3: The Nighthawk app provides easy setup and management of your WiFi network.

PERFORMANCE AND COVERAGE

The NETGEAR Nighthawk RS300 leverages cutting-edge WiFi 7 technology to deliver unparalleled network performance and extensive coverage throughout your home.

Blazing-Fast Speeds

Experience speeds up to 9.3 Gbps, making it ideal for demanding applications such as 4K/8K video streaming, competitive online gaming, and high-definition video conferencing. WiFi 7 offers significantly lower latency and 2.4 times faster speeds compared to WiFi 6, ensuring a smooth and responsive experience for all connected devices.



Figure 4: Visual representation of WiFi 7's speed advantage over previous WiFi standards.

Extensive Coverage

With its advanced, patented antenna design, the RS300 provides reliable WiFi coverage up to 2,500 sq. ft., effectively eliminating dead zones and ensuring strong signals even in larger homes. This robust coverage supports up to 100 concurrent devices, from smart home gadgets to multiple streaming devices, without compromising performance.

All-new, patented antenna design provides enhanced WiFi performance and coverage



Figure 5: Illustration of the router's enhanced WiFi coverage throughout a home.

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Video 2: An official video from Netgear explaining the benefits of WiFi 7 technology in routers.

SECURITY FEATURES

The NETGEAR Nighthawk RS300 is equipped with robust security measures to protect your network and connected devices from online threats.

NETGEAR Armor Powered by Bitdefender

NETGEAR Armor provides an automatic shield of security for your family's WiFi with real-time protection against hackers, malware, and identity theft. This powerful suite of tools helps keep you safe online, whether at home or on the go. A 30-day trial is included with your purchase.

Automatic Firmware Updates

Your Nighthawk router includes security measures built-in, such as automatic firmware updates. This ensures your router always has the latest security protocols and performance enhancements without requiring manual intervention.

NETGEAR[®]
ARMOR[™] | **POWERED BY**
Bitdefender[®]

A powerful suite of tools to help keep you safe online. Includes 30-day trial.

- ✓ Cybersecurity
- ✓ VPN
- ✓ Extended Warranty
- ✓ Priority Support

The background image shows a person's hands holding a smartphone displaying the NETGEAR Armor app. The app interface includes a 'Security Score: High' status, a 'Go to Support' button, and sections for 'Network Security' (Your network is protected in the past 60 days), 'Your devices are secure' (Last scanned on April 1st), and 'Recommendations' (Install the NETGEAR Armor app on your family's devices and take a layer of cybersecurity with you go). A laptop screen in the background shows a network security dashboard with various charts and graphs.

Figure 6: Overview of NETGEAR Armor's cybersecurity, VPN, extended warranty, and priority support features.

NETGEAR®

Performance you can count on.
Security features you can trust.



Figure 7: NETGEAR's commitment to performance, innovation, security, privacy, and integrity.

MAINTENANCE

To ensure optimal performance and longevity of your NETGEAR Nighthawk router, consider the following maintenance tips:

- **Firmware Updates:** The router supports automatic firmware updates. Ensure this feature is enabled to receive the latest security patches and performance enhancements. You can also manually check for updates via the Nighthawk app or router's web interface.
- **Optimal Placement:** Keep the router in an open, central location, away from large metal objects, thick walls, and other electronic devices that might cause signal interference.
- **Ventilation:** Ensure the router's ventilation slots are not blocked to prevent overheating, which can affect performance and lifespan.
- **Regular Reboot:** Periodically reboot your router (e.g., once a month) by unplugging it from the power outlet for 10 seconds and then plugging it back in. This can help clear its memory and resolve minor performance issues.

- **Cleanliness:** Gently clean the exterior of the router with a soft, dry cloth to prevent dust buildup.

TROUBLESHOOTING

If you encounter issues with your NETGEAR Nighthawk router, try the following common troubleshooting steps:

- **No Internet Connection:**

- Check the Internet LED on the router. If it's not solid white, ensure the Ethernet cable from your modem is securely connected to the router's yellow Internet port.
- Power cycle both your modem and router. Unplug them from power, wait 30 seconds, then plug the modem back in. Once the modem is fully online, plug in the router.
- Verify your internet service provider (ISP) is not experiencing an outage.

- **Slow WiFi Speeds:**

- Ensure your devices are connected to the appropriate WiFi band (6 GHz for newer devices, 5 GHz for high-bandwidth, 2.4 GHz for older/further devices).
- Reduce interference by moving the router away from other electronics.
- Use the Nighthawk app to run a speed test and check for network congestion.

- **Cannot Connect to WiFi Network:**

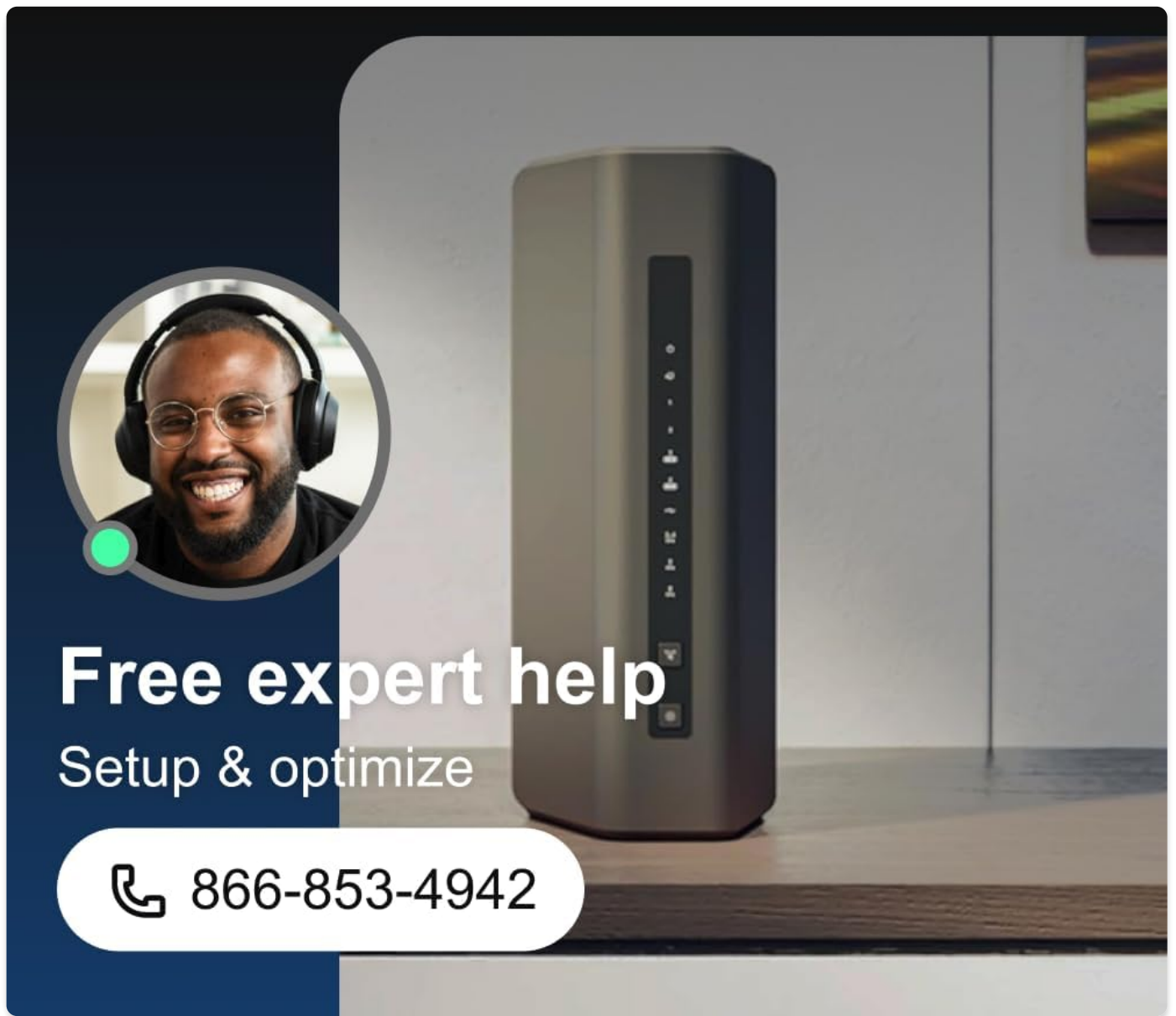
- Double-check the WiFi network name (SSID) and password.
- Ensure your device's WiFi is enabled.
- Try restarting your device.

- **Forgotten WiFi Password:**

- The default WiFi password is on the router's label.
- You can retrieve or change the password using the Nighthawk app or by logging into the router's web interface.

Expert Help

For additional assistance with setup or optimization, free expert help is available. Please refer to the contact information provided in your quick start guide or on the NETGEAR website.



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Figure 8: Information regarding free expert help for setup and optimization.

TECHNICAL SPECIFICATIONS

Feature	Detail
Brand	NETGEAR
Model Name	RS300
Item Model Number	RS300-100NAS
Wireless Type	802.11.be (WiFi 7)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Max Wireless Speed	Up to 9.3 Gbps
WiFi Coverage	Up to 2,500 sq. ft.

Device Capacity	Up to 100 devices
Internet Port	One (1) 2.5 Gig Ethernet WAN port
LAN Ports	Two (2) 2.5 Gig Ethernet LAN ports, Two (2) 1 Gig Ethernet LAN ports
USB Port	One (1) USB 3.0 port
Operating System	NETGEAR Proprietary OS
Item Weight	3.78 pounds
Product Dimensions (LxWxH)	10.8 x 7.2 x 7 inches
Special Features	WPA3, VPN, Guest Network, MU-MIMO, OFDMA

WARRANTY AND SUPPORT

The NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS300) comes with a standard manufacturer's warranty. For specific warranty details, please refer to the documentation included with your product or visit the official NETGEAR support website. NETGEAR offers free expert help for setup and optimization of your router. Additionally, the router includes a 30-day trial of NETGEAR Armor, providing advanced cybersecurity features to protect your network and connected devices. For further assistance, visit the [NETGEAR Support website](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question