NETGEAR RS700S-100NAS

NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS700S) User Manual

Model: RS700S-100NAS | Brand: NETGEAR

1. Introduction

The NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS700S) represents a significant advancement in wireless networking technology. Designed to deliver speeds up to 19 Gbps, this router is engineered for demanding applications such as real-time gaming, 4K/8K streaming, UHD video conferencing, and immersive AR/VR experiences. It offers 2.4 times faster speeds than WiFi 6, leveraging 320 MHz channels for enhanced performance. The RS700S features a refined design with a 3D antenna system, providing extensive WiFi coverage up to 3,500 sq. ft. It includes a 10 Gig Internet port and multiple LAN ports to support the fastest internet plans available today and in the future. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Nighthawk RS700S router.



This image illustrates the NETGEAR Nighthawk WiFi 7 RS700S Router, emphasizing its core capabilities: up to 19Gbps streaming speed, up to 3,500 sq. ft. WiFi coverage, support for up to 200 concurrent devices, and the inclusion of 10 Gig internet and LAN ports.

2. What's in the Box

Verify that your package contains all the following items:

- One (1) WiFi 7 Tri-Band Router (RS700S)
- One (1) 2m Ethernet cable
- One (1) 19V/3.16A power adapter
- Quick start guide

3. Physical Overview

3.1 Front Panel Indicators

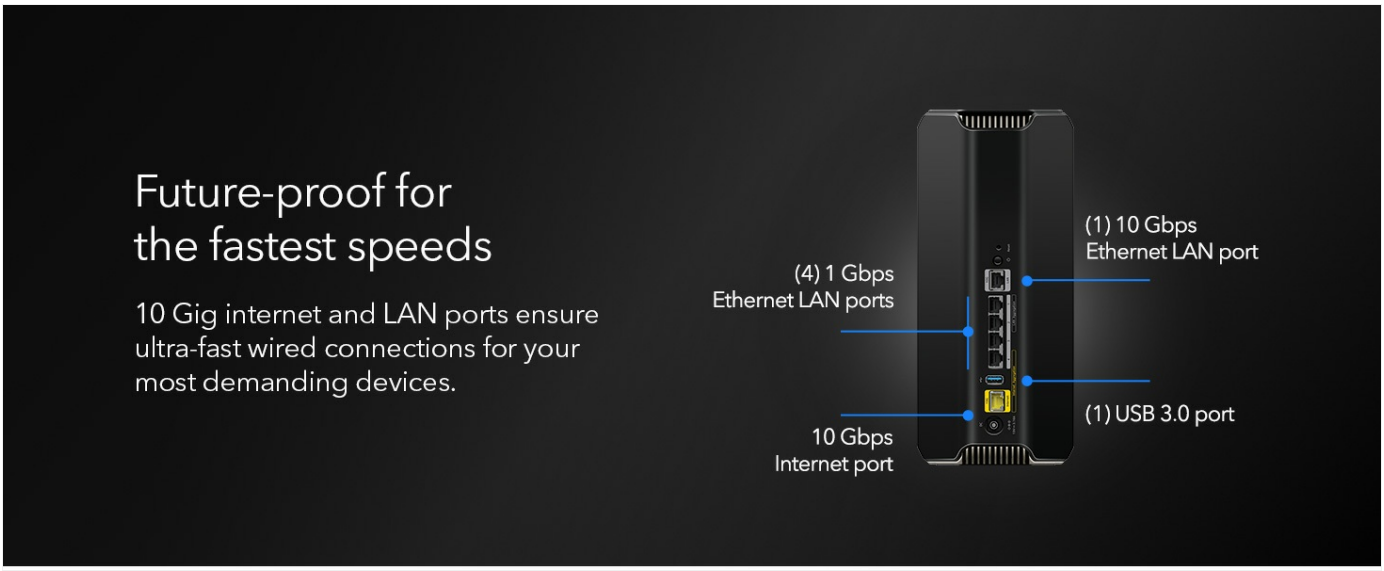
The front panel of the Nighthawk RS700S features several LED indicators that provide status information about the router's operation. These indicators help you quickly assess the network status and identify potential issues.



This image displays the front of the NETGEAR Nighthawk RS700S Router, showcasing its sleek design and the vertical array of LED indicators that provide real-time status updates for power, internet connectivity, WiFi bands, and other functions.

3.2 Rear Panel Ports

The rear panel of the router houses all the necessary ports for connecting to your internet service and local network devices.



This diagram illustrates the rear panel of the Nighthawk RS700S Router, clearly labeling its connectivity options: one (1) 10 Gbps Ethernet LAN port, four (4) 1 Gbps Ethernet LAN ports, one (1) USB 3.0 port, and one (1) 10 Gbps Internet port.

- **10 Gig Internet Port:** Connects to your modem for internet access.
- **10 Gig Ethernet LAN Port:** Provides ultra-fast wired connection for high-bandwidth devices.
- **1 Gig Ethernet LAN Ports (x4):** Standard Gigabit Ethernet ports for wired network devices.
- **USB 3.0 Port:** For connecting external storage devices to share files over the network.
- **Power Connector:** Connects to the provided power adapter.
- **Reset Button:** Used to restore factory default settings.

4. Installation and Setup

Follow these steps to set up your NETGEAR Nighthawk RS700S Router:

1. **Unpack and Place:** Remove the router from its packaging. Place the router in a central location in your home, away from obstructions and electronic devices that might cause interference. The router's sleek design and 3D antenna system are optimized for 360-degree WiFi coverage.
2. **Connect to Modem:** Power off your modem. Connect one end of the provided Ethernet cable to the 10 Gig Internet port (yellow) on the back of your RS700S router and the other end to your modem's Ethernet port.
3. **Power On:** Connect the power adapter to the router's power connector and plug it into a power outlet. Power on your modem, then power on your router. Wait for the router's Power LED and Internet LED to turn solid white, indicating a successful connection.
4. **Connect Devices:** You can connect devices wirelessly or via Ethernet. For wireless setup, locate the default WiFi network name (SSID) and password on the router's label.
5. **Install Nighthawk App:** For the easiest setup and management, download the NETGEAR Nighthawk app on your mobile device. The app will guide you through the remaining setup steps, including customizing your WiFi network name and password, and configuring security settings.
6. **Web Browser Setup (Alternative):** If you prefer not to use the app, open a web browser on a computer connected to the router (either wirelessly or via Ethernet). Type routerlogin.net or 192.168.1.1 into the address bar and follow the on-screen instructions.

Note: This is a router, not a modem. A separate modem is required for your internet service. The RS700S is compatible

with any internet service provider.

5. Operating Your Router

5.1 WiFi 7 Performance

The Nighthawk RS700S leverages WiFi 7 technology to provide unparalleled performance:

- **Tri-Band Connectivity:** Operates on 2.4 GHz, 5 GHz, and 6 GHz bands for optimal device allocation and reduced congestion.
- **BE19000 Wireless Speed:** Achieves speeds up to 19 Gbps, significantly faster than previous WiFi standards.
- **320 MHz Channels:** Provides wider channels for increased data capacity and throughput.
- **Lower Latency:** Critical for real-time applications like gaming and AR/VR, ensuring a responsive experience.



This image visually compares WiFi 7 with previous generations (WiFi 6 and WiFi 5), highlighting WiFi 7's advantages such as 2.4x faster speeds, 2x maximum bandwidth with 320 MHz high-capacity channels, significantly lower latency, and 20% more data transmission through 4K QAM modulation.

5.2 Enhanced Coverage

The router's advanced antenna design provides robust and widespread WiFi coverage, extending up to 3,500 sq. ft. This ensures a strong signal throughout your home, minimizing dead zones.



This image depicts the Nighthawk RS700S Router centrally located in a home, illustrating its patented antenna design that provides enhanced WiFi performance and extensive coverage across the entire living space.

5.3 NETGEAR Armor Security

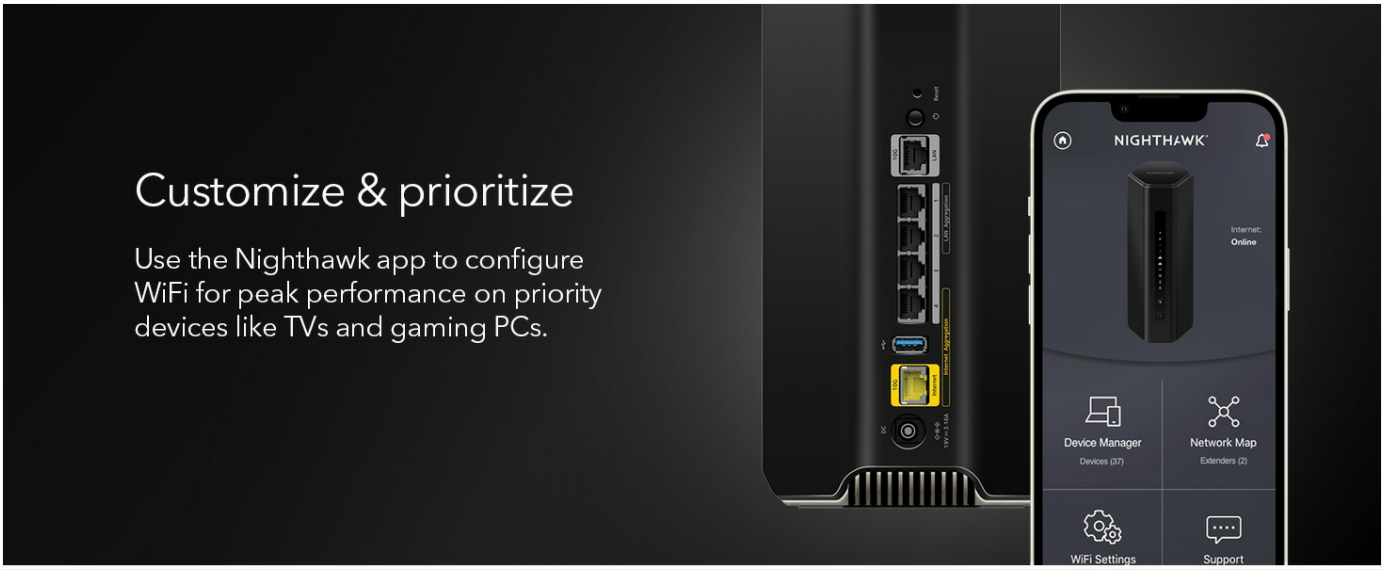
Your Nighthawk RS700S includes NETGEAR Armor powered by Bitdefender, a comprehensive cybersecurity solution. This service provides advanced protection against online threats for all connected devices on your network. A 1-year subscription is included with your purchase.



This image highlights the benefits of NETGEAR Armor, a powerful suite of tools designed to keep users safe online. Key features shown include cybersecurity, VPN, extended warranty, and priority support, all managed via a mobile app interface.

5.4 Nighthawk App Management

The NETGEAR Nighthawk app allows you to manage your router and network settings from your smartphone. You can customize WiFi settings, monitor connected devices, run speed tests, and prioritize bandwidth for specific devices or applications to ensure peak performance.



This image shows a smartphone displaying the NETGEAR Nighthawk app interface, demonstrating how users can customize and prioritize WiFi settings for optimal performance on devices like TVs and gaming PCs.

6. Maintenance

To ensure optimal performance and longevity of your Nighthawk RS700S router, consider the following maintenance tips:

- **Firmware Updates:** Regularly check for and install firmware updates through the Nighthawk app or the router's web interface. Firmware updates often include performance improvements, security patches, and new features.
- **Optimal Placement:** Ensure the router remains in an open, central location to maximize WiFi signal distribution. Avoid placing it inside cabinets, near large metal objects, or close to other signal-emitting devices.
- **Cleaning:** Periodically clean the router's exterior with a soft, dry cloth. Ensure ventilation openings are free from dust to prevent overheating.
- **Restarting:** If you experience network issues, a simple restart of the router (and modem) can often resolve temporary glitches. Unplug the power adapter, wait 10 seconds, then plug it back in.

7. Troubleshooting

This section addresses common issues you might encounter with your Nighthawk RS700S router.

Problem	Possible Solution
No Internet Connection	• Check if your modem is working correctly. • Ensure the Ethernet cable from the modem is securely connected to the router's 10 Gig Internet port. • Restart both your modem and router. • Verify your ISP connection status.

Problem	Possible Solution
Slow WiFi Speeds	• Ensure your devices are WiFi 7 compatible to fully utilize the router's speed. • Check for interference from other electronic devices. • Move closer to the router or reposition the router. • Use the Nighthawk app to check for network congestion and prioritize devices. • Update router firmware.
Cannot Connect to WiFi Network	• Verify you are using the correct WiFi network name (SSID) and password. • Ensure the WiFi radio is enabled (check router LEDs or Nighthawk app). • Restart the router and the device you are trying to connect.
Router Not a Cable Modem	• The NETGEAR Nighthawk RS700S is a router and does not have a coax input. It requires a separate cable modem or other type of modem (e.g., fiber optic modem) to connect to your internet service provider.

For more detailed troubleshooting or persistent issues, refer to the NETGEAR support website or contact technical support.

8. Technical Specifications

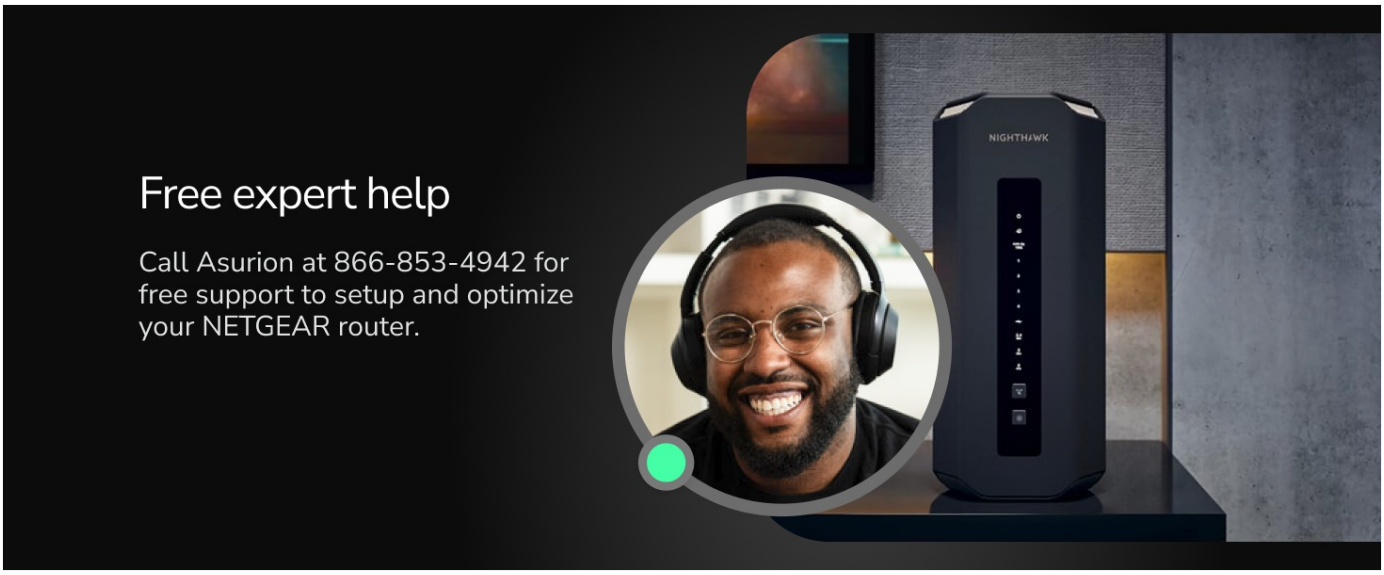
Feature	Detail
Model Name	RS700S
Item Model Number	RS700S-100NAS
Wireless Communication Standard	802.11.be (WiFi 7)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Maximum Wireless Speed	Up to 19 Gbps (BE19000)
WiFi Coverage	Up to 3,500 sq. ft.
Ethernet Ports	1 x 10 Gig Internet Port, 1 x 10 Gig LAN Port, 4 x 1 Gig LAN Ports
USB Ports	1 x USB 3.0 Port
Special Feature	WPS (Wi-Fi Protected Setup)
Compatible Devices	Personal Computer, various WiFi-enabled devices
Connectivity Technology	Ethernet, Wi-Fi
Color	Black

Feature	Detail
Item Weight	5.5 pounds
Package Dimensions	12.2 x 9.21 x 5.83 inches
Manufacturer	Netgear
First Available Date	July 7, 2023

9. Warranty and Support

NETGEAR provides comprehensive support for its products. Your Nighthawk RS700S router includes:

- **1-Year NETGEAR Armor Subscription:** This provides advanced cybersecurity protection for your network and connected devices.
- **Free Expert Help:** For assistance with setup and optimization of your NETGEAR router, free expert help is available.



This image advertises free expert help for setting up and optimizing your NETGEAR router, providing a contact number: 866-853-4942.

For specific warranty details, product registration, and additional support resources, please visit the official NETGEAR support website. It is recommended to register your product to receive timely updates and support notifications.

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