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NETGEAR RS600-100NAS

NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS600) User Manual

Model: RS600-100NAS

1. Product Overview

The NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS600) is designed to deliver high-performance wireless connectivity for demanding home networks. It supports the latest WiFi 7 standard, offering significantly faster speeds, lower latency, and increased capacity compared to previous WiFi generations. This router is suitable for activities such as 8K streaming, immersive gaming, and UHD video conferencing.



Figure 1.1: Front view of the NETGEAR Nighthawk RS600 WiFi 7 Router, showcasing its sleek design and indicator lights.

Key Features:

- **WiFi 7 Technology:** Offers speeds up to 18 Gbps, 2.4x faster than WiFi 6, with 320 MHz high-capacity channels.
- **Tri-Band Connectivity:** Utilizes 2.4 GHz, 5 GHz, and the ultra-fast 6 GHz bands for optimized performance across various devices.
- **Extensive Coverage:** High-performance antenna design provides up to 3,300 sq. ft. of WiFi coverage.
- **High Device Capacity:** Supports connectivity for up to 150 concurrent devices.

- **Multi-Gigabit Ports:** Includes one 10 Gig Internet port, one 10 Gig LAN port, and three 1 Gig LAN ports for ultra-fast wired connections.
- **Advanced Security:** Features built-in security measures, automatic firmware updates, and compatibility with NETGEAR Armor for enhanced protection.



Figure 1.2: Visual representation of the Nighthawk RS600's core capabilities, including streaming speed, coverage area, device capacity, and port types.

2. Package Contents

Verify that all items are present in your product package:

- One (1) NETGEAR Nighthawk WiFi 7 Tri-Band Router (RS600)

- One (1) 2-meter Ethernet cable
- One (1) 12V/3.42A power adapter
- Quick start guide

3. Setup Instructions

Follow these steps to set up your NETGEAR Nighthawk RS600 Router:

1. **Position the Router:** Place the router in a central location in your home, away from obstructions and other electronic devices that might cause interference. Ensure good airflow around the unit.
2. **Connect to Modem:** Connect one end of the provided Ethernet cable to the 10 Gig Internet port (yellow) on the back of the RS600 router. Connect the other end to your existing modem's Ethernet port.
3. **Power On:** Connect the power adapter to the router's power port and then plug it into a wall outlet. Wait for the Power LED on the front of the router to turn solid white.
4. **Connect Devices:**
    - **Wired Connection:** For wired devices, connect an Ethernet cable from one of the router's LAN ports (1 Gig or 10 Gig) to your computer or other network device.
    - **Wireless Connection:** On your WiFi-enabled device (smartphone, tablet, laptop), search for available WiFi networks. Select the NETGEAR network name (SSID) found on the router's label. Enter the default password (network key) also found on the label.
5. **Initial Configuration:** Open a web browser on a connected device and navigate tohttp://routerlogin.net or http://www.routerlogin.com. Follow the on-screen instructions to complete the setup, including changing the default admin password and WiFi network name/password for security. Alternatively, download the NETGEAR Nighthawk app for guided setup.

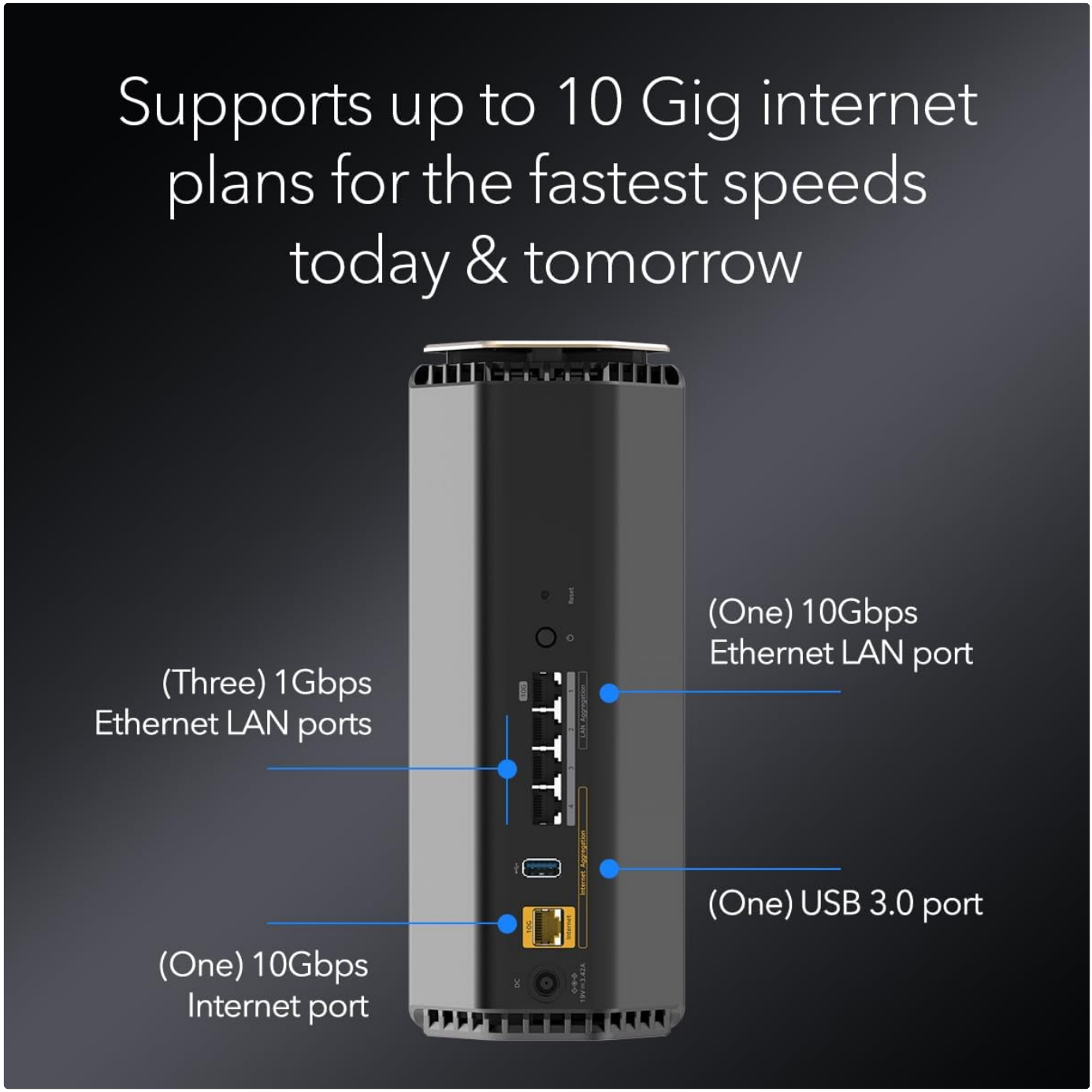


Figure 3.1: Rear view of the RS600 router, highlighting the 10 Gig Internet port, 10 Gig LAN port, 1 Gig LAN ports, and USB 3.0 port for easy connection identification.

4. Operating the Router

Once set up, your Nighthawk RS600 router operates automatically to provide a stable and fast WiFi network. Here are some common operational aspects:

4.1. LED Indicators

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

- **Power LED:** Solid white indicates the router is powered on and operating normally. Blinking white indicates

firmware upgrade or factory reset in progress.

- **Internet LED:** Solid white indicates a successful connection to the internet. Blinking white indicates data activity.
- **WiFi LEDs (2.4 GHz, 5 GHz, 6 GHz):** Solid white indicates the respective WiFi band is enabled. Blinking white indicates data activity on that band.
- **LAN Port LEDs (1-4, 10G):** Solid white indicates a device is connected to the corresponding LAN port. Blinking white indicates data activity.
- **USB LED:** Solid white indicates a USB device is connected. Blinking white indicates data activity.

4.2. Managing Your Network with the Nighthawk App

The NETGEAR Nighthawk app provides an intuitive way to manage your router and network settings from your mobile device. You can download it from the Apple App Store or Google Play Store.

- **Device Manager:** View all connected devices, pause internet access for specific devices, and prioritize bandwidth.
- **Network Map:** Get a visual overview of your network and connected devices.
- **WiFi Settings:** Easily change your WiFi network name (SSID) and password.
- **Guest WiFi:** Set up a separate network for guests, keeping your main network secure.
- **Security Features:** Access NETGEAR Armor settings (if subscribed) for enhanced cybersecurity.



Figure 4.1: The Nighthawk app provides easy setup and management of your WiFi network, including device management and network mapping.

5. Maintenance

Regular maintenance helps ensure optimal performance and longevity of your router:

- **Firmware Updates:** Keep your router's firmware updated to the latest version. NETGEAR often releases updates to improve performance, add features, and enhance security. You can check for updates via the Nighthawk app or the router's web interface.
- **Restarting the Router:** Periodically restarting your router (power cycling) can resolve minor connectivity issues and improve performance. Unplug the power adapter, wait 10-15 seconds, then plug it back in.

- **Cleaning:** Gently wipe the exterior of the router with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation openings are clear of dust and debris.
- **Security Practices:** Regularly change your WiFi password and router admin password. Consider enabling NETGEAR Armor for comprehensive network security.



Figure 5.1: NETGEAR Armor, powered by Bitdefender, offers a suite of tools for online safety, including cybersecurity, VPN, and priority support.

6. Troubleshooting

If you encounter issues with your NETGEAR Nighthawk RS600 router, try the following troubleshooting steps:

Problem	Possible Solution
No Internet connection	• Check if the Internet LED on the router is solid white. • Ensure the Ethernet cable from the modem is securely connected to the router's yellow Internet port. • Restart your modem and then your 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 fastest speeds, if supported). • Reduce interference by moving the router away from other electronics. • Check for firmware updates. • Limit the number of active devices or bandwidth-intensive applications.
Cannot connect to WiFi network	• Verify you are entering the correct WiFi password. • Ensure the WiFi LEDs on the router are solid white. • Restart the router and your device. • If using Apple devices, try turning off "Smart Connect" in the router settings via the Nighthawk app or web interface.
Forgot admin password	• Perform a factory reset. Locate the Reset button (usually a small pinhole) on the back of the router. Use a paperclip to press and hold the button for about 7-10 seconds until the Power LED blinks. This will restore the router to its factory default settings, including the default admin password and WiFi credentials found on the router's label.

7. Specifications

Feature	Detail
Model Name	RS600
Item Model Number	RS600-100NAS
Wireless Communication Standard	802.11be (WiFi 7)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Maximum Wireless Speed	Up to 18 Gbps (BE18000)

Feature	Detail
WiFi Coverage	Up to 3,300 sq. ft.
Device Capacity	Up to 150 devices
Ethernet Ports	1 x 10 Gig Internet Port, 1 x 10 Gig LAN Port, 3 x 1 Gig LAN Ports
USB Ports	1 x USB 3.0 Port
Dimensions (L x W x H)	10.1 x 5.9 x 4 inches (Product dimensions) / 11.14 x 7.09 x 7.05 inches (Package dimensions)
Item Weight	4.73 pounds
Special Feature	Internet Security (NETGEAR Armor compatible)
Compatible Devices	Gaming Console, Personal Computer, Security Camera, Smart Television, Smartphone

8. Warranty and Support

8.1. Warranty Information

NETGEAR products typically come with a limited hardware warranty. Please refer to the warranty card included in your product package or visit the official NETGEAR website for the most current and detailed warranty information specific to your region and product model.

8.2. Technical Support

For technical assistance, setup help, or troubleshooting beyond what is covered in this manual, NETGEAR offers various support options:

- **Online Support:** Visit the official NETGEAR support website for FAQs, knowledge base articles, and community forums.
- **Phone Support:** Contact NETGEAR customer support directly. For free expert help with setup and optimization, you may call Asurion at 866-853-4942.
- **Nighthawk App:** The app provides direct access to support resources and troubleshooting tools.

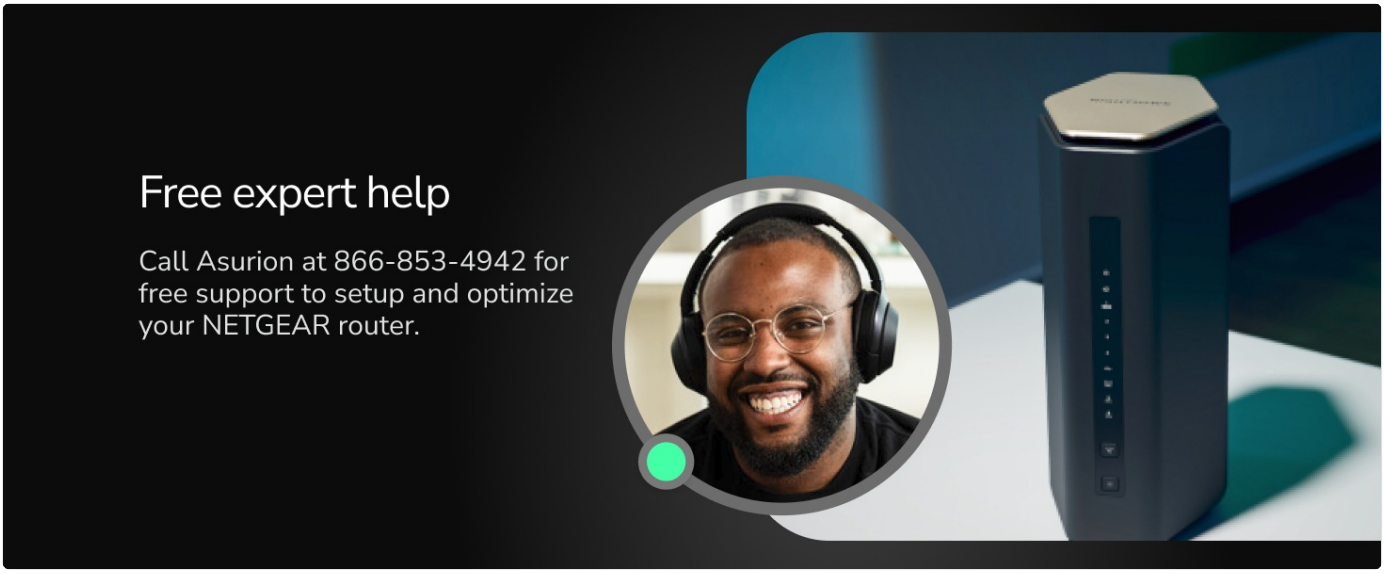


Figure 8.1: Contact information for free expert help with your NETGEAR router.

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