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NETGEAR RS280S-1CCNAS

NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS280S) User Manual

Model: RS280S-1CCNAS | Brand: NETGEAR

Introduction

The NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS280S) is designed to provide high-speed, reliable wireless connectivity for your home or office. Leveraging the power of WiFi 7, it offers speeds up to 9.2 Gbps, significantly faster than previous WiFi standards. This router is ideal for demanding applications such as 4K/8K video streaming, online gaming, video conferencing, and connecting numerous smart home devices. It features a tri-band WiFi system, including the ultra-fast 6 GHz band, and provides extensive coverage up to 2,500 sq. ft. with its high-performance antenna design. For wired connections, it includes two 2.5 Gig and two 1 Gig LAN ports. Enhanced security is provided through a 1-year NETGEAR Armor subscription.

What's in the Box

- One (1) WiFi 7 Tri-Band Router (RS280)
- Quick start guide
- One (1) 2m Ethernet cable
- One (1) 12V/3.5A power adapter

Setup Guide

1. Unpack Your Router

Carefully remove all components from the packaging. Ensure all items listed in the "What's in the Box" section are present.



Image: The NETGEAR Nighthawk RS280S Router, a sleek black vertical unit with indicator lights on the front panel.

2. Connect Your Modem

Connect your existing cable or fiber modem to the 2.5 Gig Internet port on the back of the Nighthawk router using the provided Ethernet cable. Ensure your modem is powered on and functioning correctly. This router is not a modem and requires a separate modem for internet service.



Image: Rear view of the Nighthawk RS280S router, highlighting the 2.5 Gbps Internet port, two 2.5 Gbps Ethernet LAN ports, two 1 Gbps Ethernet LAN ports, and a USB 3.0 port.

3. Power On the Router

Connect the power adapter to the router's power port and plug it into a power outlet. Wait for the power LED on the router to turn solid white, indicating it is ready.

4. Connect Your Devices

You can connect your devices wirelessly or via Ethernet cable. For wireless connection, locate the WiFi network name (SSID) and password on the router's label. For wired connection, use an Ethernet cable to connect your device to one of the available LAN ports on the router.

5. Use the Nighthawk App for Easy Setup

For the easiest setup and management, download the NETGEAR Nighthawk app from your mobile device's app store. The app will guide you through the installation process, network configuration, and allow you to manage your WiFi settings, connected devices, and network map.



Image: Graphic illustrating key features of the Nighthawk WiFi 7 RS280S router, including up to 9.2 Gbps streaming speed, up to 2,500 sq. ft. WiFi coverage, up to 100 concurrent devices, and 2.5 Gig internet & LAN ports.

Your browser does not support the video tag.

Video: An official NETGEAR video explaining the role of a WiFi router and modem, and how to choose the right internet speed plan for your home. This video helps understand the fundamental components of a home network.

Operating Your Router

WiFi 7 Performance

The Nighthawk RS280S utilizes WiFi 7 technology, offering significant improvements over previous generations. This includes 2.4x faster speeds than WiFi 6, 320 MHz high-capacity channels, and 4096-QAM modulation for 20% more data transmission. These advancements result in significantly lower latency, crucial for real-time applications like online gaming and video conferencing.



Image: A visual comparison highlighting WiFi 7's advantages over WiFi 6 and WiFi 5, including 2.4x faster speeds, 2x maximum bandwidth, significantly lower latency, and 20% more data transmission.

Tri-Band Connectivity

With three bands of WiFi, including the ultra-fast 6 GHz band, the RS280S efficiently manages network traffic, ensuring optimal performance for all connected devices. This allows for dedicated high-speed connections for demanding devices while maintaining stable performance for others.

Enhanced Coverage

The router's high-performance antenna design provides extensive WiFi coverage up to 2,500 sq. ft., minimizing dead zones and ensuring a strong signal throughout your home.



Image: An illustration showing the Nighthawk RS280S router centrally located in a house, emitting WiFi signals to cover the entire home, emphasizing its enhanced WiFi power and coverage.

Wired Connections

Utilize the two 2.5 Gig and two 1 Gig Ethernet LAN ports for fast, reliable wired connections to devices such as gaming consoles, desktop computers, and network-attached storage (NAS) devices. The 2.5 Gig Internet port supports multi-gig speeds from your internet service provider.

Maintenance and Security

Automatic Firmware Updates

Your NETGEAR Nighthawk router is designed to receive automatic firmware updates, ensuring that your device always has the latest security patches and performance enhancements without manual intervention.

NETGEAR Armor Security

The router includes a 1-year subscription to NETGEAR Armor, powered by Bitdefender. This comprehensive security suite provides enhanced protection against cyber threats, including hackers, malware, and identity theft, for all devices connected to your network, both at home and on the go. It offers features like cybersecurity, VPN, extended warranty, and priority support.

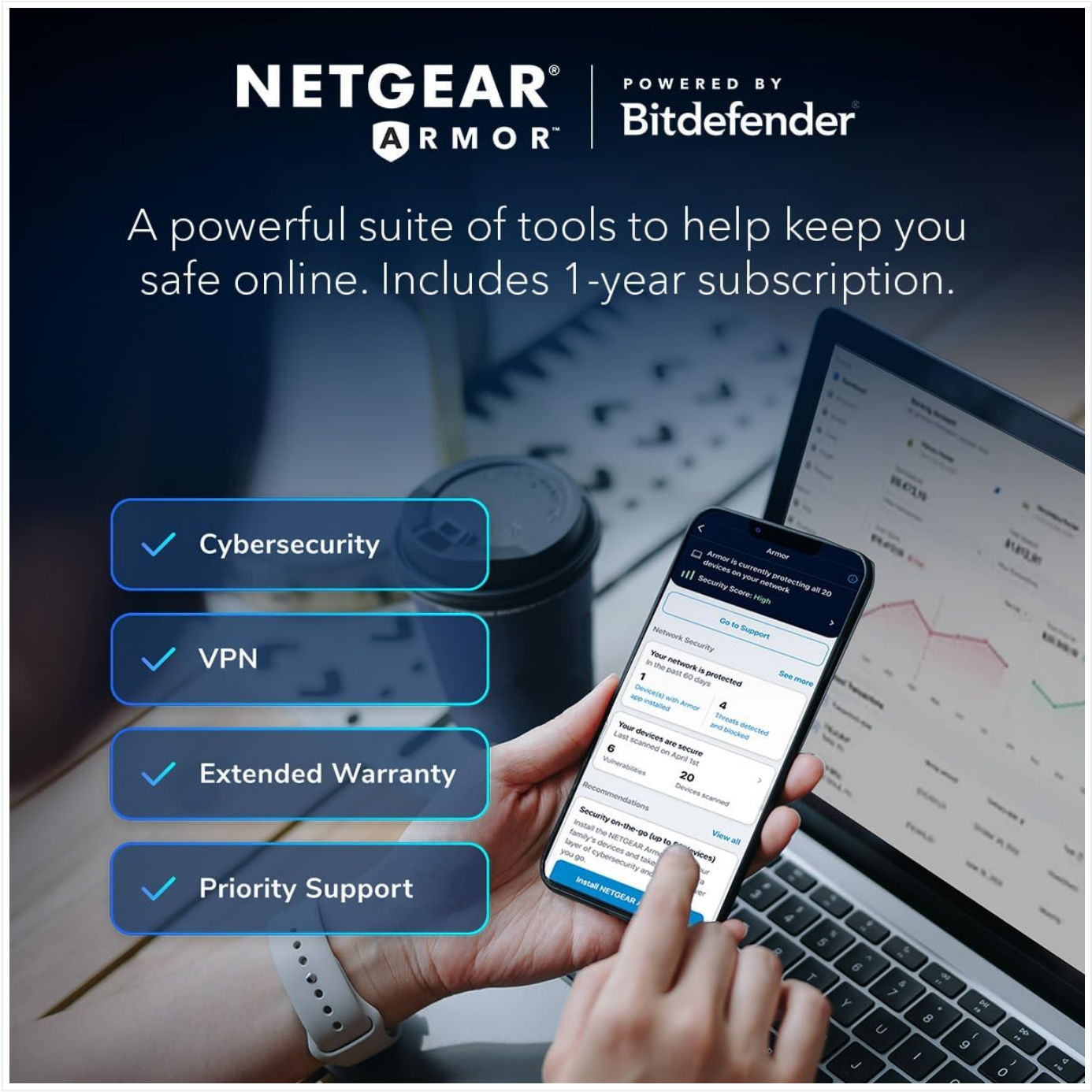


Image: A visual representation of NETGEAR Armor's benefits, including cybersecurity, VPN, extended warranty, and priority support, emphasizing its role in keeping users safe online.

Troubleshooting

Common Issues and Solutions

- **No Internet Connection:** Check that your modem is working correctly and that the Ethernet cable from the modem to the router's Internet port is securely connected. Power cycle both the modem and the router.
- **Slow WiFi Speed:** Ensure your internet plan matches your usage needs. Try repositioning the router to a central location, away from obstructions and other electronic devices. Verify that your devices are connected to the appropriate WiFi band (e.g., 6 GHz for newer devices).

- **Cannot Connect to WiFi:** Double-check the WiFi network name (SSID) and password. Ensure the router's WiFi is enabled (check indicator lights).
- **Forgotten Admin Password:** Refer to the quick start guide for instructions on how to reset the router to factory default settings. Note that this will erase all custom settings.

Expert Support

For additional assistance with setup, optimization, or troubleshooting, free expert help is available. You can call Asurion at 866-853-4942.



Image: A graphic promoting free expert help for NETGEAR router setup and optimization, with a phone number provided for support.

SPECIFICATIONS

Feature	Detail

Wireless Type	802.11.be (WiFi 7)
Brand	NETGEAR
Series	BE9200
Item Model Number	RS280S-1CCNAS
Operating System	Proprietary Operating System
Item Weight	4 pounds
Product Dimensions (LxWxH)	5.9 x 4 x 9.8 inches
Color	Black
Voltage	12 Volts (DC)
Special Feature	Internet Security
Frequency Band Class	Tri-Band
Compatible Devices	Gaming Console, Security Camera, Personal Computer, Smart Television, Smartphone
Frequency	6 GHz
Recommended Uses	Home, Gaming, Business
Connectivity Technology	Wi-Fi, Ethernet

Warranty and Support

The NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS280S) includes a 1-year NETGEAR Armor subscription, which provides advanced cybersecurity features and may include extended warranty benefits and priority support as part of the suite. For specific warranty details and to activate your NETGEAR Armor subscription, please refer to the quick start guide or visit the official NETGEAR support website.
For technical support and assistance, you can contact the free expert help line provided by Asurion at **866-853-4942**.

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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.

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