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NETGEAR R6020-100NAS

NETGEAR Dual Band WiFi Router (R6020) - AC750 User Manual

Model: R6020-100NAS

Brand: NETGEAR

1. INTRODUCTION

The NETGEAR AC750 Dual Band WiFi Router (Model R6020) is designed to provide reliable and fast wireless connectivity for your home network. It delivers WiFi speeds up to 750Mbps, suitable for streaming, gaming, and general internet use across multiple devices. With coverage up to 750 sq. ft., it can support up to 10 devices simultaneously, ensuring a stable connection throughout medium to large homes. The router features dual-band technology for optimized performance and includes four Fast Ethernet ports for wired connections. Setup and management are streamlined through the intuitive Nighthawk App.

2. PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included:

- NETGEAR R6020 Dual Band WiFi Router
- Ethernet cable
- Quick start guide
- Power adapter

3. PHYSICAL OVERVIEW

The NETGEAR R6020 router features a compact and sleek black design with two external antennas for enhanced signal coverage. The front panel includes LED indicators for power, internet connectivity, WiFi status, and Ethernet port activity. The rear panel houses the power input, a reset button, four Fast Ethernet LAN ports, and one Internet (WAN) port.



Image: Front view of the NETGEAR R6020 Dual Band WiFi Router, showcasing its compact black design and two external antennas. LED indicators are visible on the front panel.

NETGEAR R6020 WiFi 5 Router



750Mbps
streaming
speed

750 sq. ft.
coverage

10
concurrent
devices

Image: The NETGEAR R6020 WiFi 5 Router placed on a table, highlighting its key specifications: 750Mbps streaming speed, 750 sq. ft. coverage, and support for 10 concurrent devices.

4. SETUP

Follow these steps to set up your NETGEAR R6020 router:

1. **Position the Router:** Place the router in a central location in your home, away from obstructions and sources of interference like cordless phones or microwaves.
2. **Connect to Modem:** Power off your modem. Connect one end of the provided Ethernet cable to the Internet (WAN) port on the router and the other end to your modem's Ethernet port.
3. **Power On:** Power on your modem, then power on the router. Wait for the Power LED and Internet LED on the router to turn solid green.
4. **Connect Devices:**
 - **Wireless Connection:** On your computer or mobile device, search for the WiFi network name (SSID) printed on the router's label. Select it and enter the network key (password) when prompted.
 - **Wired Connection:** For wired devices like computers or game consoles, connect an Ethernet cable from

the device to one of the four Fast Ethernet LAN ports on the router.

5. **Install Nighthawk App (Recommended):** Download the NETGEAR Nighthawk App from your mobile device's app store. The app guides you through the remaining setup steps, including creating a NETGEAR account, customizing WiFi settings, and updating firmware.

WiFi Covers up to 10 Devices in Your Home Simultaneously



Image: A smartphone screen displaying the NETGEAR Nighthawk App interface, illustrating its features for easy setup and management of the router, including device manager, internet speed test, parental controls, and WiFi settings.

5. OPERATING THE ROUTER

Once set up, your NETGEAR R6020 router provides a robust wireless network. Here are key operational aspects:

- **Dual-Band WiFi:** The router operates on both 2.4 GHz and 5 GHz frequency bands. The 2.4 GHz band offers wider coverage and better penetration through walls, while the 5 GHz band provides faster speeds and less interference, ideal for high-bandwidth activities like HD video streaming and online gaming.
- **Device Connectivity:** The router supports up to 10 devices simultaneously, ensuring all your smart home devices, smartphones, tablets, and computers can connect without significant performance degradation.
- **Wired Connections:** Utilize the four Fast Ethernet ports for stable, high-speed connections to devices such

as desktop computers, smart TVs, and gaming consoles.

- **Nighthawk App Management:** Use the Nighthawk App to monitor connected devices, manage parental controls, perform internet speed tests, and adjust WiFi settings from anywhere.

WiFi Coverage up to 750 sq. ft.

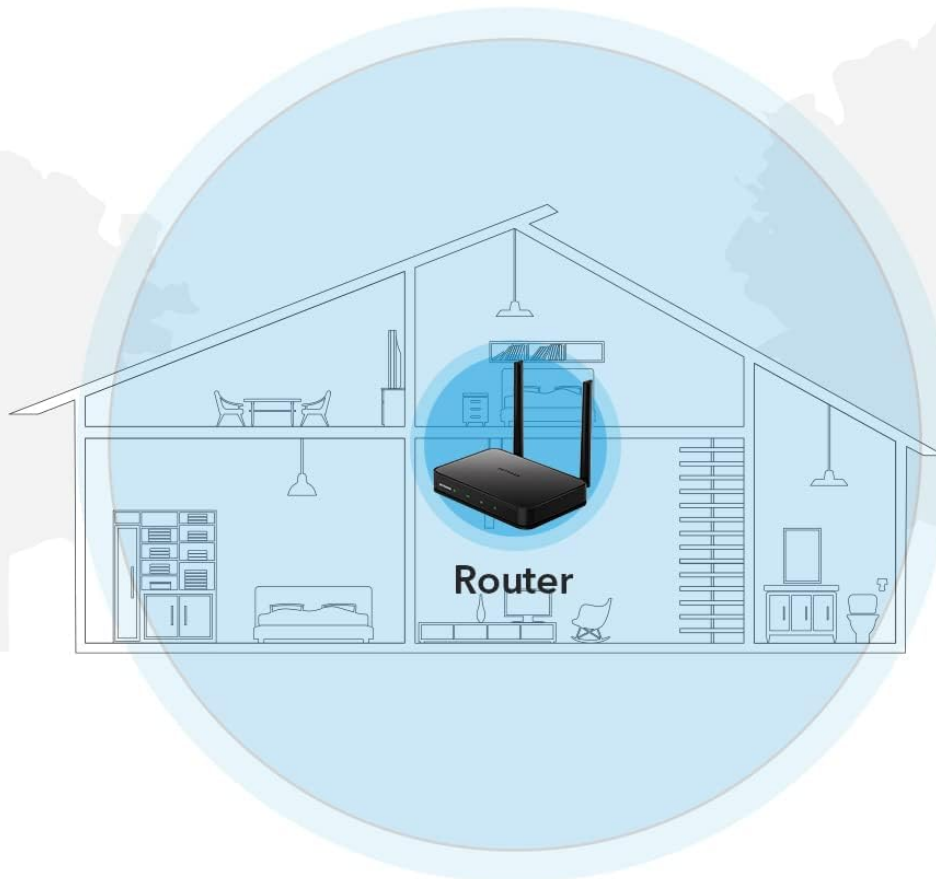


Image: A diagram illustrating the WiFi coverage provided by the NETGEAR R6020 router within a typical home layout, indicating coverage up to 750 sq. ft.

Easy Setup and Management With The Nighthawk App

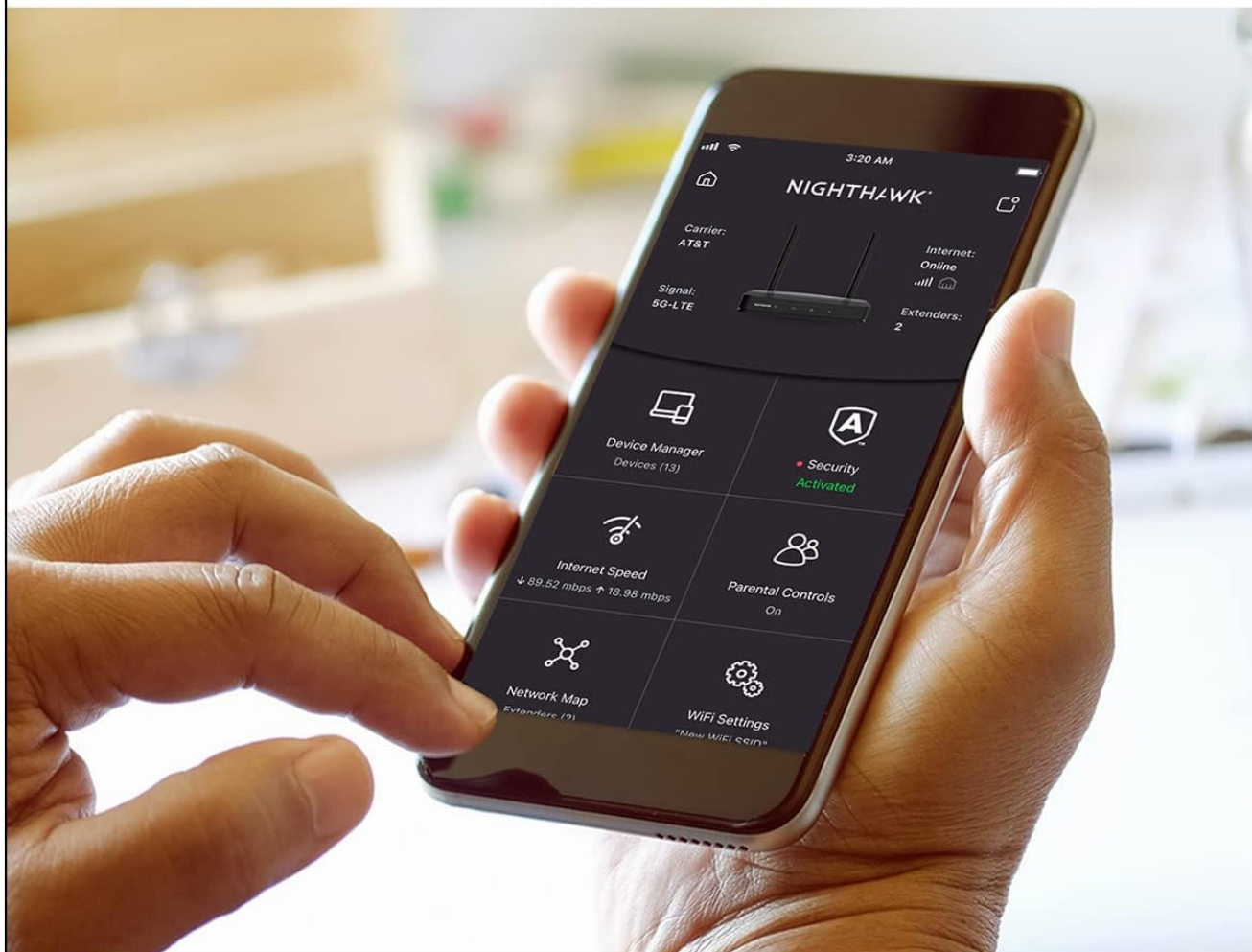


Image: An illustration showing various electronic devices (e.g., smartphone, tablet, laptop, smart TV, game console) connected wirelessly to the NETGEAR R6020 router, demonstrating its capability to cover up to 10 devices simultaneously.

6. MAINTENANCE

To ensure optimal performance and longevity of your NETGEAR R6020 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. Updates often include performance improvements, security patches, and new features.
- **Router Placement:** Maintain the router in an open, central location to maximize WiFi coverage and minimize signal interference. Avoid placing it near large metal objects, concrete walls, or other electronic devices that emit radio frequencies.
- **Cleaning:** Keep the router clean and free of dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Rebooting:** Periodically reboot your router (unplug from power for 10 seconds, then plug back in) to refresh its connection and clear any temporary issues.

7. TROUBLESHOOTING

If you encounter issues with your NETGEAR R6020 router, try the following troubleshooting steps:

- **No Internet Connection:**

- Check if the Internet LED on the router is solid green. If not, ensure the Ethernet cable from the modem is securely connected to the router's Internet port.
- Reboot both your modem and router.
- Verify your internet service provider (ISP) is not experiencing an outage.

- **Slow WiFi Speed:**

- Ensure your devices are connected to the appropriate WiFi band (5 GHz for faster speeds, 2.4 GHz for wider range).
- Reduce the number of active devices or bandwidth-intensive activities.
- Relocate the router to a more central position or away from interference.
- Check for firmware updates.

- **Cannot Connect to WiFi:**

- Verify you are entering the correct WiFi password (network key).
- Ensure the WiFi LED on the router is illuminated.
- Try restarting the router.

- **Forgotten Admin Password:**

- Perform a factory reset by pressing and holding the reset button on the back of the router for about 7-10 seconds until the Power LED blinks. Note that this will erase all custom settings.

8. SPECIFICATIONS

Detailed technical specifications for the NETGEAR R6020 Dual Band WiFi Router:

Feature	Detail
Wireless Type	802.11ac
Brand	NETGEAR
Series	Netgear AC750
Model Number	R6020-100NAS
Item Weight	1.21 pounds
Product Dimensions (LxWxH)	6.8 x 5.5 x 1.5 inches
Color	Black
Manufacturer	Netgear
Special Feature	WPS
Frequency Band Class	Dual-Band

Wireless Communication Standard	802.11 ac
Compatible Devices	Personal Computer
Frequency	5 GHz
Recommended Uses For Product	Home
Included Components	R6020, Ethernet cable, Quick start guide, Power adapter
Connectivity Technology	Wi-Fi

9. WARRANTY AND SUPPORT

NETGEAR provides a limited hardware warranty for this product. The specific terms and duration of the warranty may vary by region and purchase date. Please refer to the warranty card included in your product packaging or visit the official NETGEAR support website for detailed warranty information.

For technical support, product registration, and access to the latest drivers and firmware, please visit the official NETGEAR support portal:

[NETGEAR Support Website](#)

You can also find helpful resources, FAQs, and community forums on their website to assist with common issues and optimize your router's performance.