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NETGEAR RAX15

NETGEAR RAX15 AX1800 WiFi 6 Router User Manual

Model: RAX15

1. Introduction

This manual provides instructions for setting up, operating, maintaining, and troubleshooting your NETGEAR RAX15 AX1800 WiFi 6 Router. The RAX15 is designed to provide high-speed wireless connectivity using the latest Wi-Fi 6 (802.11ax) technology, offering increased capacity for multiple devices and improved network efficiency.



The NETGEAR RAX15 AX1800 WiFi 6 Router, showcasing its design with two external antennas and front-facing LED indicators.

2. Package Contents

Verify that your package contains the following items:

- NETGEAR 4-Stream AX1800 WiFi 6 Router (RAX15)
- Ethernet cable
- Power adapter
- Quick start guide

3. Setup Instructions

3.1 Physical Connection

1. **Position the Router:** Place the router in a central location in your home for optimal WiFi coverage. Avoid placing it near large metal objects, concrete walls, or other electronic devices that may cause interference.
2. **Connect to Modem:** Connect one end of the provided Ethernet cable to the yellow Internet port on the back of your RAX15 router. Connect the other end to your modem's Ethernet port.
3. **Power On:** Connect the power adapter to the router's power input and then plug it into a power outlet. Wait for the Power LED on the front of the router to turn solid white.
4. **Connect Wired Devices (Optional):** For wired connections, use additional Ethernet cables to connect your computers, gaming consoles, or other devices to the four Gigabit Ethernet LAN ports (1-4) on the back of the router.



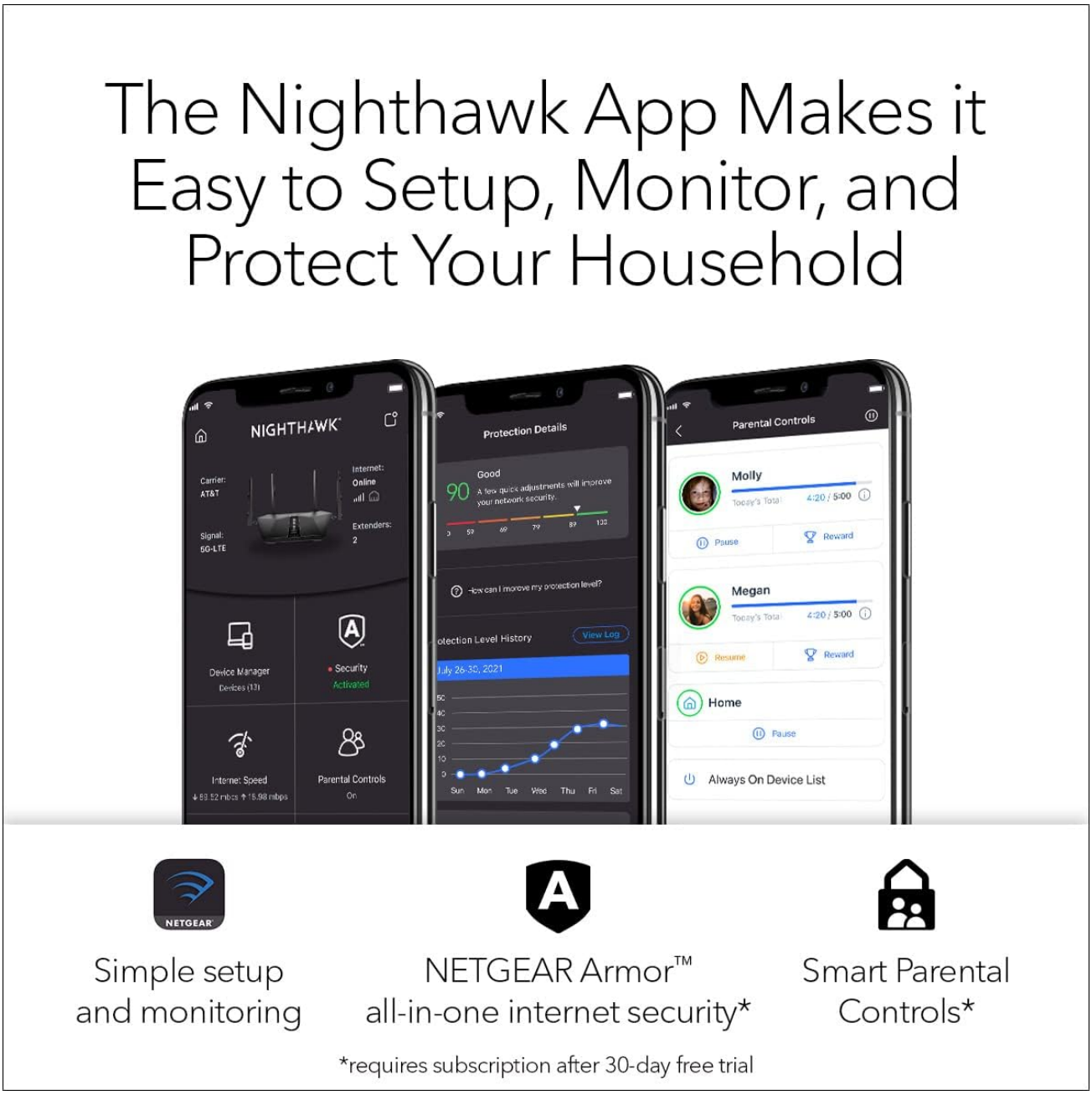
The rear panel of the NETGEAR RAX15 router, featuring the Internet port (yellow), four Gigabit Ethernet LAN ports (1-4), the power input, and a reset button.

3.2 Initial Configuration

You can configure your router using the Nighthawk App or a web browser.

Using the Nighthawk App:

1. Download the NETGEAR Nighthawk App from the Apple App Store or Google Play Store.
2. Open the Nighthawk App and follow the on-screen instructions to set up your router.



The NETGEAR Nighthawk App interface, illustrating options for setup, monitoring network security with NETGEAR Armor, and managing parental controls.

Using a Web Browser:

1. Connect your computer or mobile device to the router's WiFi network using the default WiFi network name (SSID) and password found on the router's label.
2. Open a web browser and navigate to www.routerlogin.net or 192.168.1.1.
3. Follow the setup wizard to configure your internet connection and WiFi settings.

3.3 System Requirements

To access the router's web interface, your device must meet the following minimum requirements:

- **Operating Systems:** Microsoft Windows 7, 8, 10, Vista, XP, 2000; Mac OS; Unix; or Linux.
- **Web Browsers:** Microsoft Internet Explorer 11 or higher, Microsoft Edge, Google Chrome 55 or higher, Firefox 45 or higher, Safari 10 or higher.

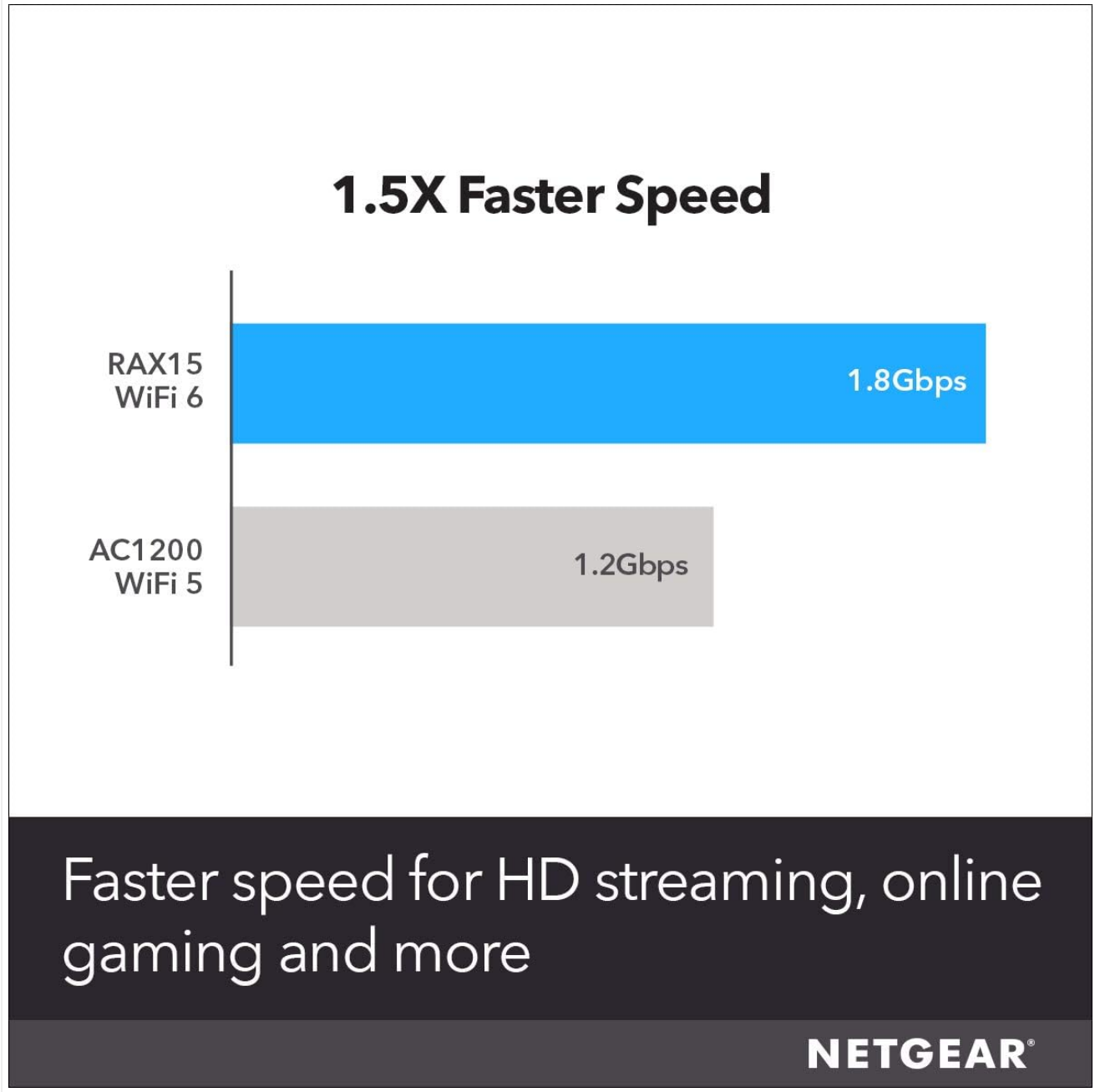
4. Operation

4.1 WiFi Connectivity

The RAX15 router supports dual-band WiFi (2.4 GHz and 5 GHz) and WiFi 6 (802.11ax) technology. It provides 4 simultaneous streams, allowing more devices to connect to the network concurrently with improved performance.



An illustration highlighting the NETGEAR RAX15 router's use of WiFi 6 technology, offering up to 1.5 times faster speeds compared to previous generations.



A bar chart comparing the maximum theoretical speed of the RAX15 WiFi 6 router at 1.8 Gbps against an AC1200 WiFi 5 router at 1.2 Gbps.

4.2 Connecting Devices

To connect a device to your WiFi network:

1. On your device, search for available WiFi networks.
2. Select your router's WiFi network name (SSID).
3. Enter the WiFi password when prompted. This information is typically found on the router's label.



An illustration depicting a home environment with multiple devices connected to the WiFi network, demonstrating the RAX15's capacity to handle over 20 devices simultaneously with its 4-stream architecture.



The NETGEAR RAX15 router, emphasizing its two antennas designed to provide strong WiFi range and coverage for small to medium homes up to 1500 square feet.

4.3 USB Connections

The router features two USB 3.0 ports. You can connect a storage drive to these ports to share files with any connected device on your network or create a personal cloud storage for remote access.

4.4 Advanced Features

- **Beamforming+:** Improves WiFi range and performance by focusing WiFi signals directly to connected devices.
- **OFDMA:** Enhances network efficiency, especially in environments with many connected devices, by allowing multiple devices to transmit data simultaneously.
- **Alexa Voice Controls:** Compatible with Amazon Alexa for voice commands to manage your network.
- **WPS (Wi-Fi Protected Setup):** Allows for easy and secure connection of devices to your WiFi network with the press of a button.

5. Maintenance

5.1 Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be performed through the Nighthawk App or the router's web interface.

5.2 Security Features

- **Wireless Security Protocols:** The router supports WEP and WPA/WPA2 wireless security protocols to protect your network from unauthorized access.
- **NETGEAR Armor:** Provides an automatic shield of security across all connected devices on your network. A 30-day free trial is typically included.

5.3 Parental Controls

NETGEAR Smart Parental Controls allow you to manage internet access for family members, promote healthy internet habits, and build trust. A 30-day free trial is typically included.

5.4 LED Indicators

The router features LED indicators on the front panel that provide status information. You can typically configure these LEDs, including turning them off, through the router's settings to reduce brightness.

6. Troubleshooting

6.1 No Internet Connection

- Ensure all cables are securely connected to the router and modem.
- Restart your modem and then your router. Wait for each device to fully boot up.
- Check the Internet LED on the router. If it is not solid white, there may be an issue with your internet service provider (ISP) connection.

6.2 Slow WiFi Speeds or Poor Coverage

- **Router Placement:** Ensure the router is centrally located and free from obstructions.
- **Interference:** Keep the router away from other electronic devices, cordless phones, and microwave ovens.
- **Band Selection:** For devices closer to the router and requiring higher speeds, connect to the 5 GHz WiFi band. For devices further away or needing better penetration through walls, use the 2.4 GHz band.
- **Device Compatibility:** Older devices may not fully utilize WiFi 6 speeds and might perform better on WiFi 5 settings if available.

6.3 Cannot Access Router Settings

- Ensure your device is connected to the router's network (either wired or wirelessly).
- Verify you are using the correct web address (www.routerlogin.net or 192.168.1.1).
- Clear your browser's cache and cookies, or try a different browser.

6.4 Factory Reset

If issues persist, you may need to perform a factory reset. Locate the reset button on the back of the router (often recessed). 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 default factory settings, requiring you to reconfigure it.

7. Specifications

Brand	NETGEAR
Model Name	RAX15
Wireless Type	802.11ax (WiFi 6)
Wireless Communication Standard	802.11ax
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Connectivity Technology	Ethernet, Wi-Fi
Ethernet Ports	4 x 1 Gigabit Ethernet LAN ports, 1 x Gigabit Ethernet WAN port
USB Ports	2 x USB 3.0 ports
Special Feature	WPS
Coverage	Up to 1500 sq ft
Devices Supported	20+ Devices
Compatible Devices	Gaming Console, Laptop, Smartphone
Recommended Uses	Home
Operating System Compatibility	Chrome, Linux, Mac OS, Vista, Windows 7, 8, 10, XP, 2000
Item Weight	2.1 pounds
Package Dimensions	12.48 x 8.19 x 3.98 inches
Color	Black
Voltage	100-240 Volts
Date First Available	October 31, 2019

8. Warranty and Support

8.1 Warranty Information

For detailed warranty information regarding your NETGEAR RAX15 router, please refer to the official NETGEAR website or the warranty card included with your product. Warranty terms and conditions may vary by region.

8.2 Technical Support

If you encounter issues not covered in this manual or require further assistance, please visit the official NETGEAR support website at www.netgear.com/support. You can find FAQs, troubleshooting guides, and contact information for customer service.

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