



Manuals.plus /

› NETGEAR /

› NETGEAR AC1200 Smart Wi-Fi Router R6220 User Manual

## NETGEAR R6220

# NETGEAR AC1200 Smart Wi-Fi Router R6220 User Manual

Model: R6220-100NAS

## 1. INTRODUCTION

---

This manual provides comprehensive instructions for setting up, operating, and maintaining your NETGEAR AC1200 Smart Wi-Fi Router, model R6220. This device offers dual-band Wi-Fi connectivity (300+867Mbps) and is designed to provide improved Wi-Fi coverage for homes, supporting up to 20 devices and covering up to 1200 square feet. It features an 880MHz processor for reliable performance and a USB 2.0 port for sharing USB hard drives.

Please read this manual thoroughly before installation and operation to ensure optimal performance and to understand all features of your router.

## 2. PACKAGE CONTENTS

---

Verify that your package contains the following items:

- NETGEAR AC1200 Smart Wi-Fi Router (R6220)
- Ethernet Cable
- Power Adapter
- Quick Start Guide (if included)

If any items are missing or damaged, please contact NETGEAR support.

## 3. PHYSICAL OVERVIEW

---

### 3.1 Front Panel

The front panel of the R6220 router features LED indicators that provide status information about the device's operation.



*Image: Front view of the NETGEAR R6220 AC1200 Smart Wi-Fi Router, showing the NETGEAR logo and a row of green LED status lights.*

- **Power LED:** Indicates power status. Solid green for normal operation.
- **Internet LED:** Indicates internet connection status. Solid green for a stable connection.
- **2.4 GHz Wi-Fi LED:** Indicates 2.4 GHz wireless activity.
- **5 GHz Wi-Fi LED:** Indicates 5 GHz wireless activity.
- **Ethernet Port LEDs (1-4):** Indicate activity on the corresponding LAN ports.
- **USB LED:** Indicates activity on the USB port.

### 3.2 Rear Panel

The rear panel provides all the necessary ports for connecting the router to your network and devices.



Image: Rear view of the NETGEAR R6220 AC1200 Smart Wi-Fi Router, showing the various ports and buttons including WPS, USB, LAN, WAN, Reset, Power On/Off, and DC power input.

- **WPS Button:** For easy connection of WPS-compatible devices.
- **Wi-Fi On/Off Button:** To enable or disable wireless functionality.
- **USB 2.0 Port:** For connecting USB storage devices for network sharing.
- **LAN Ports (1-4):** Gigabit Ethernet ports for wired connections to computers or other network devices.
- **WAN Port (Internet):** For connecting to your modem or internet service provider.
- **Reset Button:** To restore factory default settings (use a paperclip to press and hold for 7-10 seconds).
- **Power On/Off Button:** To turn the router on or off.
- **DC Power Input:** Connects to the provided power adapter.

## 4. SETUP INSTRUCTIONS

### 4.1 Initial Hardware Connection

1. **Power Off Modem:** Disconnect power from your modem. If it has a backup battery, remove it.
2. **Connect Router to Modem:** Connect one end of the Ethernet cable to the yellow WAN port on your R6220 router and the other end to the Ethernet port on your modem.
3. **Power On Modem:** Reconnect power to your modem. Wait for the modem's indicator lights to stabilize (typically 1-2 minutes).
4. **Power On Router:** Connect the power adapter to the router's DC power input and plug it into a power outlet. Press the Power On/Off button if necessary. Wait for the router's Power LED to turn solid green.
5. **Connect Computer (Optional):** For initial setup, you can connect a computer to one of the router's yellow LAN ports using an Ethernet cable, or connect wirelessly using the default Wi-Fi network name (SSID) and password found on the router's label.

### 4.2 Software Configuration

1. **Launch Browser:** Open a web browser (e.g., Chrome, Firefox, Edge) on your connected computer

or mobile device.

2. **Access Router Login:** Type <http://www.routerlogin.net> or <http://www.routerlogin.com> into the address bar and press Enter. Alternatively, use the default IP address <http://192.168.1.1>.
3. **Login:** When prompted, enter the default username **admin** and password **password**. You will be guided through the NETGEAR Genie setup wizard.
4. **Follow Setup Wizard:** The wizard will detect your internet connection type and guide you through configuring your Wi-Fi network name (SSID) and password. It is highly recommended to change the default administrator password for security.
5. **Apply Settings:** Save your settings and restart the router if prompted.

You can also use the **Nighthawk App** for mobile setup and management. Download it from your device's app store.

## 5. OPERATING YOUR ROUTER

---

### 5.1 Connecting Devices to Wi-Fi

Your R6220 router broadcasts two Wi-Fi networks: 2.4 GHz and 5 GHz.

- **2.4 GHz Network:** Provides wider coverage and better penetration through walls, suitable for older devices and general internet browsing.
- **5 GHz Network:** Offers faster speeds and lower latency, ideal for streaming 4K video, online gaming, and newer devices, but with a shorter range.

To connect a device:

1. On your device, open the Wi-Fi settings.
2. Select the desired network name (SSID) from the list.
3. Enter the Wi-Fi password (network key) when prompted.

### 5.2 Guest Network

The router supports a separate guest Wi-Fi network, allowing visitors internet access without providing them access to your main network or shared resources. You can enable and configure the guest network through the router's web interface or the Nighthawk App.

### 5.3 USB Storage Sharing (ReadySHARE)

The R6220 features a USB 2.0 port for connecting a USB storage device (e.g., external hard drive, flash drive). This allows you to share files and media across your network. To use this feature:

1. Connect your USB storage device to the USB port on the router.
2. Access the router's web interface ([routerlogin.net](http://routerlogin.net)).
3. Navigate to the ReadySHARE section to configure access and sharing options.

*Note:* For optimal performance, ensure your USB drive is formatted with a compatible file system (e.g., FAT32, NTFS).

## 6. MAINTENANCE

---

### 6.1 Firmware Updates

Regularly updating your router's firmware ensures optimal performance, security, and access to new features. You can check for and install updates via the router's web interface under the "Firmware Update"

or "Router Update" section. It is recommended to perform updates during off-peak hours and not to interrupt the process once started.

## 6.2 Factory Reset

A factory reset restores the router to its original default settings, erasing all custom configurations. This can be useful for troubleshooting persistent issues or when preparing to reconfigure the router. To perform a factory reset:

1. With the router powered on, locate the Reset button on the rear panel.
2. Use a paperclip or similar pointed object to press and hold the Reset button for approximately 7-10 seconds.
3. Release the button when the Power LED starts blinking. The router will restart with factory default settings.

*Note:* After a factory reset, you will need to reconfigure your internet and Wi-Fi settings as if it were a new installation.

## 7. TROUBLESHOOTING

---

### 7.1 No Internet Connection

- Check the Internet LED on the front panel. If it's off or amber, ensure the Ethernet cable from the modem is securely connected to the router's yellow WAN port.
- Restart your modem and then your router. Wait for both devices to fully boot up.
- Verify your internet service provider (ISP) connection is active.
- Log into the router's web interface and check the internet connection status.

### 7.2 Wi-Fi Connection Issues

- Ensure the Wi-Fi On/Off button on the rear panel is enabled.
- Check the 2.4 GHz and 5 GHz Wi-Fi LEDs on the front panel. If they are off, Wi-Fi might be disabled.
- Verify you are selecting the correct Wi-Fi network name (SSID) and entering the correct password.
- Move closer to the router to check for signal strength issues, especially for 5 GHz connections.
- Restart the router.

### 7.3 Slow Internet Speed

- Ensure your devices are connected to the appropriate Wi-Fi band (5 GHz for faster speeds, if supported).
- Minimize interference by placing the router away from other electronic devices (cordless phones, microwaves).
- Check for active downloads or streaming on other devices that might be consuming bandwidth.
- Perform a speed test directly connected to the modem to rule out ISP issues.

## 8. SPECIFICATIONS

---

Feature	Detail
<b>Model Name</b>	R6220-100NAS
<b>Wi-Fi Technology</b>	802.11ac Dual Band Wi-Fi
<b>Wi-Fi Performance</b>	AC1200 (300 + 867 Mbps)
<b>Wi-Fi Range</b>	Up to 1200 sq ft
<b>Wi-Fi Band</b>	Dual Band (2.4 GHz & 5 GHz)
<b>Number of Ethernet Ports</b>	4 x Gigabit Ethernet LAN ports, 1 x Gigabit Ethernet WAN port
<b>Number of USB Ports</b>	1 x USB 2.0 port
<b>Processor</b>	880MHz processor
<b>Memory</b>	128 MB RAM, 128 MB Flash
<b>Antennas</b>	2 External Antennas
<b>Dimensions (LxWxH)</b>	13.39 x 11.02 x 2.4 inches
<b>Weight</b>	13.6 ounces
<b>Operating System Support</b>	Windows 7, Mac OS, and others via web browser

## 9. WARRANTY AND SUPPORT

NETGEAR products are backed by a limited hardware warranty. The specific duration and terms of your warranty may vary by region and product. Please refer to the warranty information included with your product or visit the official NETGEAR website for detailed warranty statements.

For technical support, product registration, and access to community forums, please visit the NETGEAR support website:

<https://www.netgear.com/support/>

You can also download the Nighthawk App for mobile support and management features.