**NETGEAR WNDR3800**

# NETGEAR WNDR3800 N600 Premium Edition Dual Band Gigabit Wireless Router User Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your NETGEAR WNDR3800 N600 Premium Edition Dual Band Gigabit Wireless Router. This device is designed to deliver high-performance WiFi speed and range for demanding network applications, offering a suite of features to optimize your home network experience.

Image 1.1: Front view of the NETGEAR WNDR3800 N600 Premium Edition Dual Band Gigabit Wireless Router. The router is black with a sleek design, featuring indicator lights on the front panel.

## 2. KEY FEATURES

The NETGEAR WNDR3800 router includes the following key features:

- **Faster WiFi Speed:** N600 Dual Band WiFi delivers combined wireless speeds up to 600 Mbps (300 + 300 Mbps).

- **Improved WiFi Range:** Powerful WiFi amplifiers enhance wireless coverage for medium to large homes.

- **Gigabit Wired Connectivity:** Gigabit Ethernet LAN ports are suitable for HD gaming, video streaming, and high-speed wired networking.

- **ReadySHARE Cloud:** Access and share files on an attached USB hard drive from any location with an Internet connection.

- **ReadySHARE USB:** Wirelessly access and share USB hard drives and printers.

- **Clear Channel Selector:** Automatically avoids busy Wi-Fi channels for clear and fast wireless connections.

- **Dedicated Video Mode:** Provides a dedicated wireless network for optimized video streaming.

- **Time Machine Compatible:** Supports automatic Mac backup to a connected USB hard drive wirelessly.
- **NETGEAR genie App:** A personal dashboard for monitoring, controlling, and repairing your home network.
- **Live Parental Controls:** Centralized and easy-to-use website filtering for all devices connected to the Internet via the router.
- **Guest Network Access:** Provides separate and secure WiFi access for guests.
- **DLNA Media Server:** Allows finding and playing media stored on an attached USB storage device on DLNA-compatible TVs, game consoles, and media players.
- **Push 'N' Connect (WPS):** Enables secure push-button WiFi connections.
- **CD-Less Installation:** Simplifies setup for iPads, PCs, MAC computers, smartphones, and tablets without requiring a CD.

## 3. SETUP INSTRUCTIONS

Follow these steps to set up your NETGEAR WNDR3800 router:

1. **Prepare for Installation:** Unplug your cable or DSL modem from its power source. Disconnect any existing router from your modem.
2. **Connect the Router:**
   - Connect one end of an Ethernet cable to the Internet (WAN) port on the WNDR3800 router and the other end to your modem.
   - Connect your computer to one of the yellow Ethernet LAN ports on the router using another Ethernet cable for initial setup, or connect wirelessly using the default SSID and password found on the router label.
3. **Power On:** Plug in your modem, then plug in the WNDR3800 router. Wait for the power and Internet indicator lights on the router to stabilize.
4. **Access Setup Wizard:** Open a web browser on your connected computer and navigate to http://routerlogin.net. Follow the on-screen instructions provided by the NETGEAR genie setup wizard to configure your Internet connection and wireless settings.
5. **Update Firmware:** It is recommended to check for and install the latest firmware updates through the router's administration interface to ensure optimal performance and security. This can typically be done by clicking an update button within the genie interface.
6. **Wireless Device Connection:** For wireless devices, select the appropriate 2.4 GHz or 5 GHz network name (SSID) from your device's Wi-Fi settings and enter the network password (WPA2-PSK) found on the router's label or configured during setup. Alternatively, use the Push 'N' Connect (WPS) button on the router and your WPS-compatible device for a secure connection.

## 4. OPERATING INSTRUCTIONS

### 4.1. Dual Band Wireless Operation

The WNDR3800 operates on both 2.4 GHz and 5 GHz wireless bands simultaneously. The 2.4 GHz band offers wider coverage, while the 5 GHz band provides higher speeds and less interference, ideal for streaming HD video and online gaming. Connect your devices to the band that best suits their needs and location.

### 4.2. ReadySHARE USB and Cloud

Connect a USB storage device to the USB port on the router to enable ReadySHARE features. You can access files locally via ReadySHARE USB or remotely via ReadySHARE Cloud. For ReadySHARE Cloud, ensure the feature is

enabled and configured through the NETGEAR genie interface.

### 4.3. DLNA Media Server

If a USB storage device with media files is connected, the router can function as a DLNA Media Server. DLNA-compatible devices on your network (e.g., smart TVs, game consoles) can then browse and play media content directly from the connected USB drive.

### 4.4. Guest Network

To provide Internet access to guests without granting them access to your main network resources, enable the Guest Network feature. You can set a separate SSID and password for the guest network through the router's web interface.

### 4.5. Live Parental Controls

Utilize Live Parental Controls to manage and filter website access for all devices connected to your network. This feature integrates with OpenDNS and can be configured via the NETGEAR genie interface to set access policies and schedules.

### 4.6. NETGEAR genie App

Download the NETGEAR genie app for your smartphone or tablet to manage your network from anywhere. The app provides a dashboard to monitor network status, control settings, and perform basic troubleshooting.

## 5. MAINTENANCE

### 5.1. Firmware Updates

Regularly check for and install firmware updates to ensure your router has the latest features, security patches, and performance improvements. Access the router's web interface (http://routerlogin.net) and navigate to the firmware update section.

### 5.2. Saving Configuration

It is advisable to save your router's configuration settings to a file on your computer. This allows for quick restoration of your settings in case of a factory reset or router replacement. This option is typically found in the Advanced settings of the router's web interface.

### 5.3. Power Management

The router features WiFi and Power On/Off buttons for convenient power savings. You can power down the entire router or just the WiFi radios when not in use to conserve energy.

## 6. TROUBLESHOOTING

### 6.1. No Internet Connection

- Verify that your modem is powered on and functioning correctly.
- Check all Ethernet cable connections between the modem and the router, and between the router and your computer.
- Restart your modem, then your router, and finally your computer.
- Access http://routerlogin.net and check the Internet status. Run the setup wizard again if necessary.

### 6.2. Wireless Connection Issues

- Ensure the WiFi radio is enabled on the router (check the WiFi On/Off button).

- Verify that your device is connected to the correct SSID and using the correct password.

- Move closer to the router to improve signal strength.

- Check for interference from other electronic devices. The Clear Channel Selector feature helps mitigate this automatically.

- If experiencing slow speeds on 2.4 GHz, try connecting to the 5 GHz band if your device supports it.

## 6.3. Accessing Router Settings

If you cannot access http://routerlogin.net, try using the router's default IP address, which is typically http://192.168.1.1. Ensure your computer is set to obtain an IP address automatically (DHCP).

## 6.4. Factory Reset

If all other troubleshooting steps fail, you may perform a factory reset. Locate the reset button (usually a small pinhole) on the router, press and hold it for about 10 seconds while the router is powered on. This will restore the router to its default factory settings, requiring you to reconfigure it from scratch.

## 7. SPECIFICATIONS

| Model Name | WNDR3800 |
|---|---|
| Product Dimensions | 11.7 x 2.7 x 10 inches |
| Item Weight | 1.1 pounds |
| Wireless Standard | 802.11n |
| Frequency Band Class | Dual-Band (2.4 GHz and 5 GHz) |
| Connectivity Technology | Wi-Fi, Ethernet |
| Ethernet Ports | 4 Gigabit LAN + 1 Gigabit WAN |
| USB Ports | 1 |
| Special Feature | WPS (Wi-Fi Protected Setup) |
| Operating System | Netgear OS |
| Compatible Devices | Phones, Computers, Laptops, Wireless Enabled Devices, WiFi Hotspots, Mobile Devices, Gaming Consoles |

## 8. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official NETGEAR website or the documentation included with your product packaging. NETGEAR provides various support resources, including online knowledge bases, forums, and direct customer support channels.

You can typically find support resources by visiting the official NETGEAR support page and searching for your specific model (WNDR3800).