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## NETGEAR EX6420

# NETGEAR EX6420 AC1900 WiFi Mesh Extender User Manual

Model: EX6420

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## INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, and maintaining your NETGEAR EX6420 AC1900 WiFi Mesh Extender. The EX6420 is designed to expand your existing WiFi coverage, offering enhanced signal strength and range for up to 150 square meters and connecting up to 30 devices. With dual-band AC1900 speeds (up to 1900 Mbps), it is suitable for demanding applications like HD video streaming and online gaming. Its intelligent mesh roaming ensures seamless connectivity throughout your home or office.

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## PACKAGE CONTENTS

- 1 x NETGEAR EX6420 AC1900 WiFi Mesh Extender
- Quick Start Guide (not included in this digital manual)

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## PRODUCT OVERVIEW

The NETGEAR EX6420 is a wall-plug WiFi extender that integrates seamlessly into your existing network. It features a compact design with intuitive controls and indicators.



**Image Description:** A white NETGEAR EX6420 WiFi Mesh Extender is shown plugged into a standard European wall socket. The extender has LED indicators on its front panel and various switches and buttons on its side, including On/Off, Factory Reset, and Access Point/Extender mode.

### Key Features:

- **Dual-Band AC1900 WiFi:** Provides combined speeds up to 1900 Mbps (600 Mbps on 2.4 GHz and 1300 Mbps on 5 GHz) for high-speed connectivity.
- **Mesh Technology:** Creates a seamless WiFi experience with intelligent roaming, allowing your devices to automatically connect to the strongest signal.
- **FastLane™ Technology:** Utilizes both WiFi bands to establish a super-fast connection between the extender and your router, optimizing performance for streaming and gaming.
- **Amplified Internal Antennas:** Boosts WiFi signal for extended coverage.
- **Gigabit Ethernet Port:** Connects wired devices like smart TVs, gaming consoles, or PCs for maximum

speed and reliability.

- **Universal Compatibility:** Works with any standard WiFi router, internet gateway, or cable modem with WiFi.
- **WPS Button Setup:** Simplifies installation with a push-button connection to your existing router.



**Wi-Fi Dual-band avancée**  
Jusqu'à 1900 Mbps

**Réseau Mesh**  
Pour une itinérance plus fluide  
avec votre routeur ou votre box

**Technologie FastLane™**  
Utilise les 2 fréquences pour un  
streaming plus rapide

**Antennes internes amplifiées**  
Augmente la portée

**Port Gigabit Ethernet**  
Pour connecter un périphérique filaire

## Caractéristiques principales EX6420

**NIGHTHAWK®**

**NETGEAR®**

**Image Description:** A close-up view of the NETGEAR EX6420 extender, highlighting its features: Wi-Fi Dual-band advanced (Up to 1900 Mbps), Mesh Network, FastLane™ Technology, Amplified internal antennas, and Gigabit Ethernet Port.

### SETUP

Setting up your NETGEAR EX6420 is a straightforward process. You can use either the WPS (Wi-Fi Protected Setup) method or the NETGEAR WiFi Analyzer app for optimal placement.

#### Method 1: WPS (Recommended for initial setup)

1. **Power On:** Plug the EX6420 into an electrical outlet. Wait for the Power LED to light up.
2. **Positioning:** Place the extender in the same room as your WiFi router for the initial setup. After setup, you can move it to an optimal location.
3. **Press WPS on Extender:** Press the WPS button on the side of your EX6420 extender. The WPS LED on the extender should start blinking.

4. **Press WPS on Router:** Within two minutes, press the WPS button on your WiFi router.
5. **Connect:** Wait for the Extender Link LED on the EX6420 to light up solid white or green, indicating a successful connection.



**Image Description:** A detailed view of the side of the NETGEAR EX6420, showing the WPS button, On/Off switch, Factory Reset button, and the Access Point/Extender mode switch. A circular graphic highlights the WPS button for easy installation.

### Method 2: Using the NETGEAR WiFi Analyzer App (for optimal placement)

1. **Download App:** Download the NETGEAR WiFi Analyzer app from your mobile device's app store.
2. **Initial Setup:** Perform the initial setup using the WPS method as described above.
3. **Find Optimal Location:** Use the app to determine the best location for your extender. The app will guide you to a spot where the extender can receive a good signal from your router and effectively extend coverage to dead zones.
4. **Relocate Extender:** Plug the extender into an electrical outlet in the optimal location identified by the app. Ensure the Extender Link LED indicates a good connection.

150 m<sup>2</sup>  
30 périphériques

Répéteur NETGEAR WiFi

Votre Box

INTERNET

Etendez la portée de votre WiFi jusqu'à 150 m<sup>2</sup> à l'intérieur et à l'extérieur pour 30 périphériques

**NETGEAR**

**Image Description:** An illustrative diagram showing a two-story house. A WiFi router is on the first floor, providing limited coverage (blue circle). A NETGEAR WiFi Repeater (EX6420) is placed on the second floor, extending the WiFi coverage significantly (purple circle) to cover up to 150 m<sup>2</sup> and 30 devices.

## OPERATING INSTRUCTIONS

Once your EX6420 is set up, it operates automatically to extend your WiFi network. Here's what you need to know:

- **Connecting Devices:** Your devices (laptops, smartphones, tablets, smart home devices) will automatically connect to the strongest WiFi signal, whether from your router or the extender, thanks to the intelligent mesh roaming feature.
- **Wired Connection:** Use the Gigabit Ethernet port on the extender to connect a wired device for a stable and high-speed connection.
- **LED Indicators:**
  - **Power LED:** Indicates power status.
  - **Router Link LED:** Shows the connection status between the extender and your router (e.g., green for good connection, amber for fair, red for poor/no connection).
  - **Device Link LED:** Indicates the connection status between the extender and your connected devices.

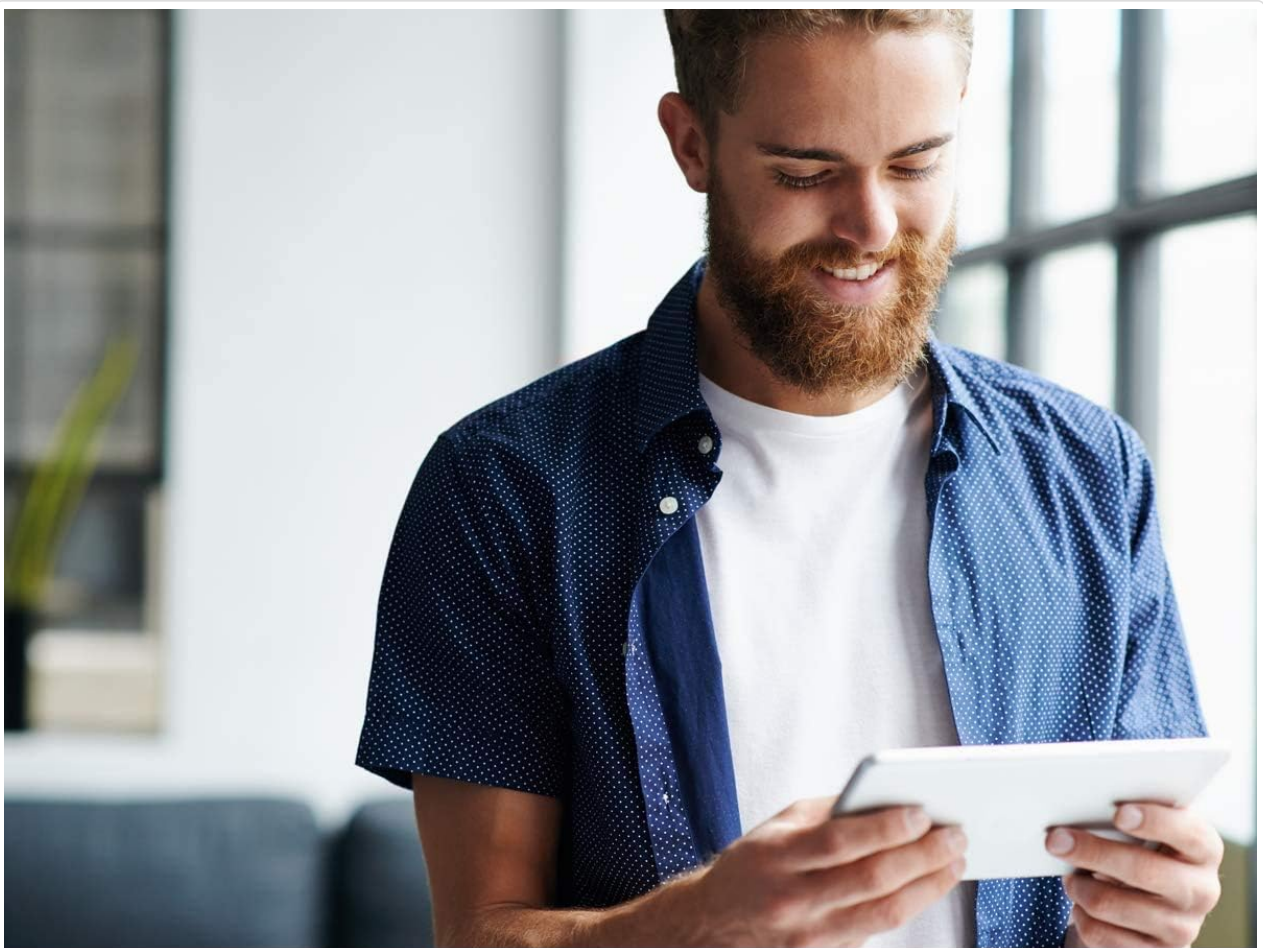
- **WPS LED:** Blinks during WPS setup, solid when connected via WPS.



Vitesse Wi-Fi 1900 Mbps pour  
le streaming vidéo et le gaming

**NETGEAR®**

**Image Description:** Three young adults are shown sitting on a couch, actively engaged in playing video games. This image illustrates the high-speed WiFi performance (1900 Mbps) provided by the extender, suitable for demanding activities like video streaming and gaming.



## Itinérance transparente avec un seul nom de réseau WiFi

**NETGEAR®**

**Image Description:** A man is comfortably seated on a sofa, smiling while looking at a tablet. This image represents the transparent roaming feature of the extender, allowing devices to maintain a single network name and seamlessly switch between the router and extender for optimal connectivity.

### MAINTENANCE

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To ensure optimal performance and longevity of your NETGEAR EX6420, consider the following maintenance tips:

- **Firmware Updates:** Regularly check the NETGEAR support website for firmware updates. Keeping your device's firmware up-to-date ensures the latest features, security patches, and performance improvements.
- **Cleaning:** Keep the extender free from dust. Use a soft, dry cloth to gently wipe the exterior. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the extender's ventilation slots are not blocked to prevent overheating.
- **Optimal Placement:** If you notice a decrease in performance, re-evaluate the extender's placement using the NETGEAR WiFi Analyzer app to ensure it's still in an optimal location.

### TROUBLESHOOTING

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If you encounter issues with your NETGEAR EX6420, try the following troubleshooting steps:

- **No Power:** Ensure the extender is securely plugged into a working electrical outlet. Check the Power LED.
- **Poor Connection to Router:** If the Router Link LED is amber or red, try moving the extender closer to your WiFi router. Ensure there are no major obstructions (thick walls, large metal objects) between the extender and the router.
- **Devices Not Connecting:**
  - Verify that the Extender Link LED is solid white or green.
  - Ensure your device is within the extender's coverage area.
  - Restart your device and try connecting again.
- **WPS Setup Failure:** If WPS setup fails, try repeating the steps. Ensure you press the WPS button on both the extender and the router within the two-minute window. Alternatively, you can set up the extender manually via a web browser (refer to the Quick Start Guide for detailed steps, usually by connecting to the extender's default WiFi network and navigating to [www.mywifiext.net](http://www.mywifiext.net)).
- **Slow Speeds:**
  - Check the Router Link LED for a good connection (green).
  - Ensure your main router is providing adequate internet speed.
  - Minimize interference from other electronic devices.
  - Consider using FastLane™ technology if not already enabled (check extender settings via web browser).
- **Factory Reset:** If all else fails, you can perform a factory reset. With the extender powered on, use a paperclip to press and hold the Factory Reset button for about 5-10 seconds until the Power LED blinks. This will restore the extender to its default factory settings, and you will need to set it up again.

## SPECIFICATIONS

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<b>Brand</b>	NETGEAR
<b>Model Number</b>	EX6420-100FRS
<b>Wireless Standard</b>	802.11ac
<b>Data Transfer Rate</b>	Up to 1900 Mbps (AC1900)
<b>Frequency Band Class</b>	Dual-band
<b>Supported Frequency Bands</b>	2.4 GHz, 5 GHz
<b>Coverage Area</b>	Up to 150 square meters
<b>Special Features</b>	Wireless, Mesh Technology, FastLane™
<b>Ethernet Port</b>	1 x Gigabit Ethernet Port
<b>Security Protocols</b>	WEP, WPA/WPA2

<b>Compatible Devices</b>	Laptops, Smartphones, Tablets, Smart Home Devices, Gaming Consoles, etc.
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## WARRANTY INFORMATION

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NETGEAR products typically come with a limited hardware warranty. For specific warranty terms, duration, and conditions applicable to your NETGEAR EX6420, please refer to the warranty card included with your product or visit the official NETGEAR support website. Warranty details can vary by region and retailer.

## SUPPORT

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For further assistance, technical support, or to download the latest drivers and firmware, please visit the official NETGEAR support website:

- **NETGEAR Support Website:** [www.netgear.com/support/](http://www.netgear.com/support/)
- You can also find FAQs, community forums, and contact information for customer service on their website.