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NETGEAR WAX630E-100NAS

NETGEAR WAX630E Wireless Access Point User Manual

Comprehensive guide for setup, operation, and maintenance of your NETGEAR Cloud Managed Wireless Access Point.

1. Introduction

The NETGEAR Insight Managed Wireless Access Point WAX630E is a business-grade Tri-Band WiFi 6E access point designed for high-performance wireless connectivity. It leverages the new 6GHz band, in addition to 2.4GHz and 5GHz, to provide faster speeds, higher capacity, lower latency, and reduced congestion, making it ideal for environments with ultra-high client density.

This access point is managed by NETGEAR Insight, offering centralized cloud-based real-time monitoring without the need for additional management hardware. It supports Multi-User MIMO (MU-MIMO) for aggregate speeds up to 7.8Gbps and superior WiFi roaming.



Figure 1: NETGEAR WAX630E Wireless Access Point, a white square device with indicator lights on the front.

Key Features:

- Ultrafast 7.8Gbps total tri-band WiFi speed, including a new 6GHz band for high-performance WiFi 6E devices.
- Supports up to 456 client devices and 3,000 sq. ft. of coverage.
- Enterprise-level security with up to 8 SSIDs, WPA3 security, and VLAN network and client isolation.
- Equipped with one 2.5G Ethernet port with PoE++ and one 1G Ethernet port for faster wired connectivity.
- Simplified deployment with PoE++ (Power over Ethernet Plus Plus), or optional PAV12V35 power adapter (sold separately).
- Includes 1 year FREE NETGEAR Insight subscription for remote management.
- Easy and secure installation on walls or suspended ceilings with included mounting hardware.

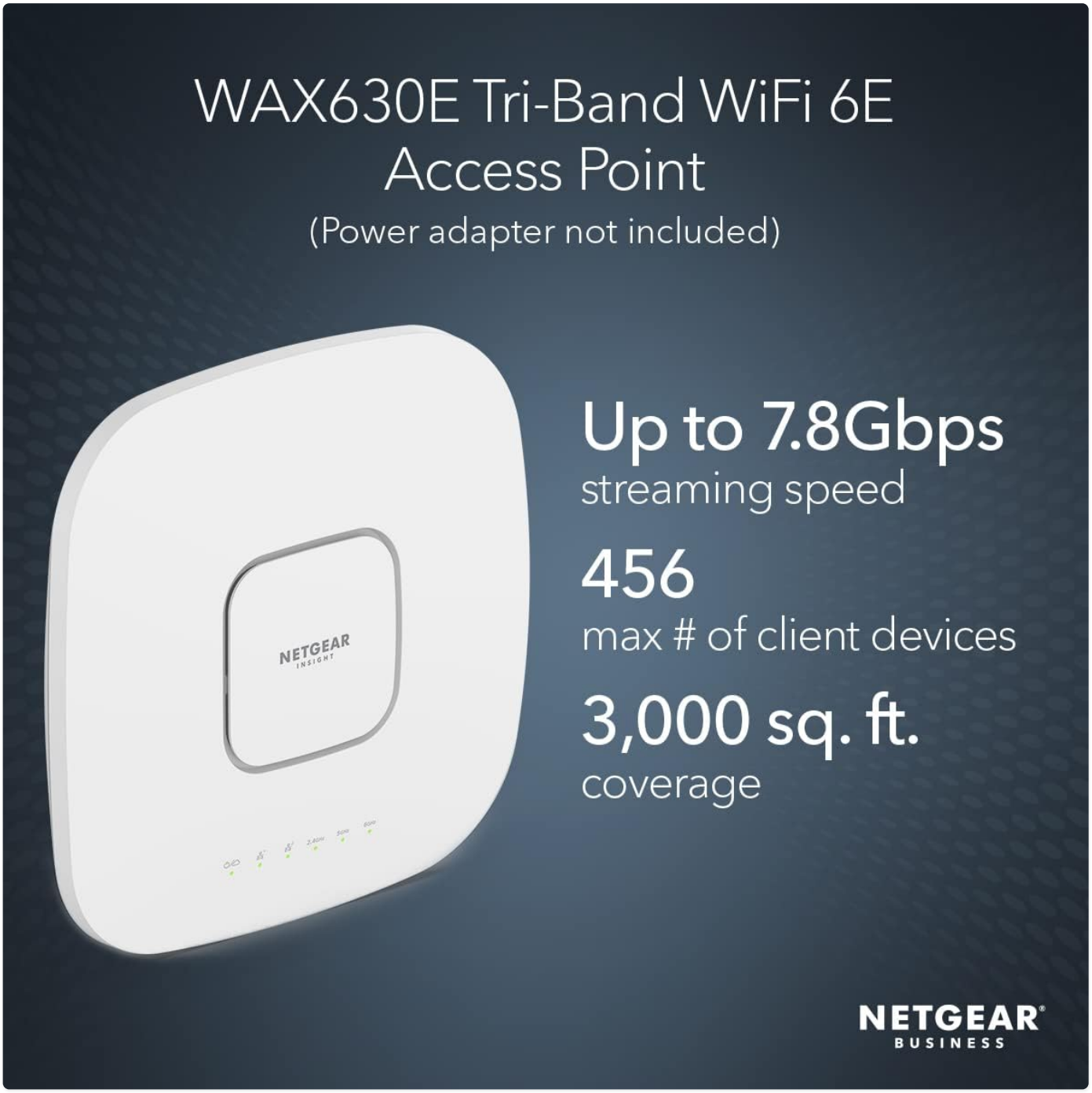


Figure 2: Visual representation of WAX630E capabilities, highlighting up to 7.8Gbps streaming speed, 456 max client devices, and 3,000 sq. ft. coverage.



Figure 3: Diagram illustrating the use of 6GHz band for WiFi 6E high data consumption devices, 5GHz for moderate, and 2.4GHz for light data consumption devices.

2. Setup and Installation

2.1 Package Contents

Before you begin, ensure all components are present:

- NETGEAR WAX630E Tri-Band Access Point
- Mounting hardware (for wall or ceiling installation)
- Installation guide
- Warranty/support information card

Note: A power adapter (PAV12V35) is not included and must be purchased separately if PoE++ is not used.

2.2 Powering the Device

The WAX630E can be powered in two ways:

1. **Power over Ethernet Plus Plus (PoE++):** Connect the 2.5 Gigabit Ethernet port (PoE++) to a PoE++ compatible switch or injector. This method provides both power and data over a single Ethernet cable.
2. **AC Adapter (Optional):** If PoE++ is not available, connect an optional PAV12V35 power adapter (sold separately) to the AC adapter port.



Figure 4: Rear view of the WAX630E showing the 2.5 Gigabit Ethernet Port with PoE++ and the optional AC Adapter port.

2.3 Physical Installation

The WAX630E is designed for secure installation on walls or suspended ceilings. Refer to the included installation guide for detailed instructions on using the mounting hardware.

- Choose a central location for optimal WiFi coverage.
- Ensure the mounting surface is sturdy enough to support the device.
- Route Ethernet cables neatly to the appropriate ports.

3. Operating the Access Point

3.1 Initial Configuration with NETGEAR Insight

The WAX630E is managed via NETGEAR Insight, a cloud-based management platform. This allows for remote setup, configuration, and monitoring.

1. Download the NETGEAR Insight app on your mobile device or access the Insight portal via a web browser.
2. Follow the on-screen instructions to add your WAX630E device to your Insight account.
3. Configure your WiFi networks (SSIDs), security settings (WPA3 support is available), and other advanced features. The WAX630E supports up to 8 separate wireless networks.



Figure 5: Screenshot of the NETGEAR Insight dashboard on a desktop and mobile device, illustrating cloud-based real-time monitoring capabilities.

3.2 Connecting Devices

Once configured, client devices (laptops, smartphones, tablets, etc.) can connect to the WAX630E's WiFi networks using

the configured SSIDs and passwords. The Tri-Band capability ensures optimal performance for various device types across 2.4GHz, 5GHz, and 6GHz bands.

The Multi-User MIMO (MU-MIMO) technology allows the access point to communicate with multiple devices simultaneously, improving overall network efficiency and speed, especially in high-density environments.

4. Maintenance

- **Firmware Updates:** Regularly check for and install firmware updates through the NETGEAR Insight platform to ensure optimal performance, security, and access to new features.
- **Cleaning:** Keep the access point clean and free from dust. Use a soft, dry cloth. Do not use liquid cleaners or aerosol sprays.
- **Environmental Conditions:** Ensure the device is operated within its specified temperature and humidity ranges to prevent damage.
- **Network Monitoring:** Utilize the NETGEAR Insight dashboard for real-time monitoring of network health, client connections, and potential issues.

5. Troubleshooting

Common Issues and Solutions:

- **No Power/Indicator Lights Off:**
  - Verify the Ethernet cable is securely connected to the PoE++ port and the PoE++ switch/injector is powered on.
  - If using an AC adapter, ensure it is properly connected and the power outlet is functional.
- **No Internet Connection:**
  - Check the connection to your router or main network device.
  - Ensure your router has an active internet connection.
  - Reboot the access point and your main network equipment.
- **Slow WiFi Speeds:**
  - Ensure client devices are WiFi 6E compatible to utilize the 6GHz band for optimal performance.
  - Check for interference from other wireless devices or networks.
  - Verify the access point's placement for optimal coverage and minimal obstructions.
  - Confirm the wired connection to the access point is utilizing the 2.5Gbps Ethernet port.
- **Cannot Access NETGEAR Insight:**
  - Ensure the access point has an active internet connection.
  - Verify your login credentials for the Insight app/portal.
  - Check the status of the Insight service.

For further assistance, refer to the detailed troubleshooting section in the online NETGEAR Insight documentation or contact NETGEAR support.

6. Specifications

Feature	Detail
Model Name	WAX630E-100NAS
Brand	NETGEAR
Product Dimensions	12 x 12.3 x 4.5 inches
Item Weight	2.31 pounds
Wireless Communication Standard	802.11ax (WiFi 6E)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
WiFi Speed	AXE7800 (Up to 7.8 Gbps aggregate)
WiFi Coverage	Up to 3,000 sq. ft.
Max Client Devices	Up to 456
Wired Connectivity	(1) 2.5 Gigabit Ethernet LAN port with PoE++, (1) 1 Gigabit Ethernet LAN port
Network Security	Up to 8 SSIDs, Separate VLAN control, WPA3 security (backwards compatible with WPA2/WPA1)
Special Feature	Remote Access (NETGEAR Insight)
Included Components	Access Point, Installation guide, Warranty/support information card

7. Warranty and Support

The NETGEAR WAX630E comes with a market-leading **5-year warranty** and 24/7 support from trained experts. For detailed warranty terms and conditions, please refer to the Warranty/support information card included in your product package.

Additionally, your purchase includes a **1-year FREE NETGEAR Insight subscription**, enabling remote management and monitoring of your access point. After the initial year, a subscription fee may apply to continue using the Insight service.

Contacting Support:

For technical assistance, product registration, or warranty claims, please visit the official NETGEAR support website or use the contact information provided on your warranty card.

NETGEAR Support Website: www.netgear.com/support

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