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ZYXEL NWA50BE

Zyxel WiFi 7 BE5100 NebulaFlex Access Point (NWA50BE) User Manual

Comprehensive instructions for installation, configuration, and operation.

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, and maintaining your Zyxel WiFi 7 BE5100 NebulaFlex Access Point (model NWA50BE). This device is designed to deliver high-speed WiFi 7 connectivity for small business environments, featuring dual-radio 4-stream capabilities and a 2.5GbE uplink.

WiFi 7 BE5100



Speeds
up to
5.1
Gbps

Image: The Zyxel WiFi 7 BE5100 Access Point shown in an office environment, emphasizing its capability to deliver speeds up to 5.1 Gbps.

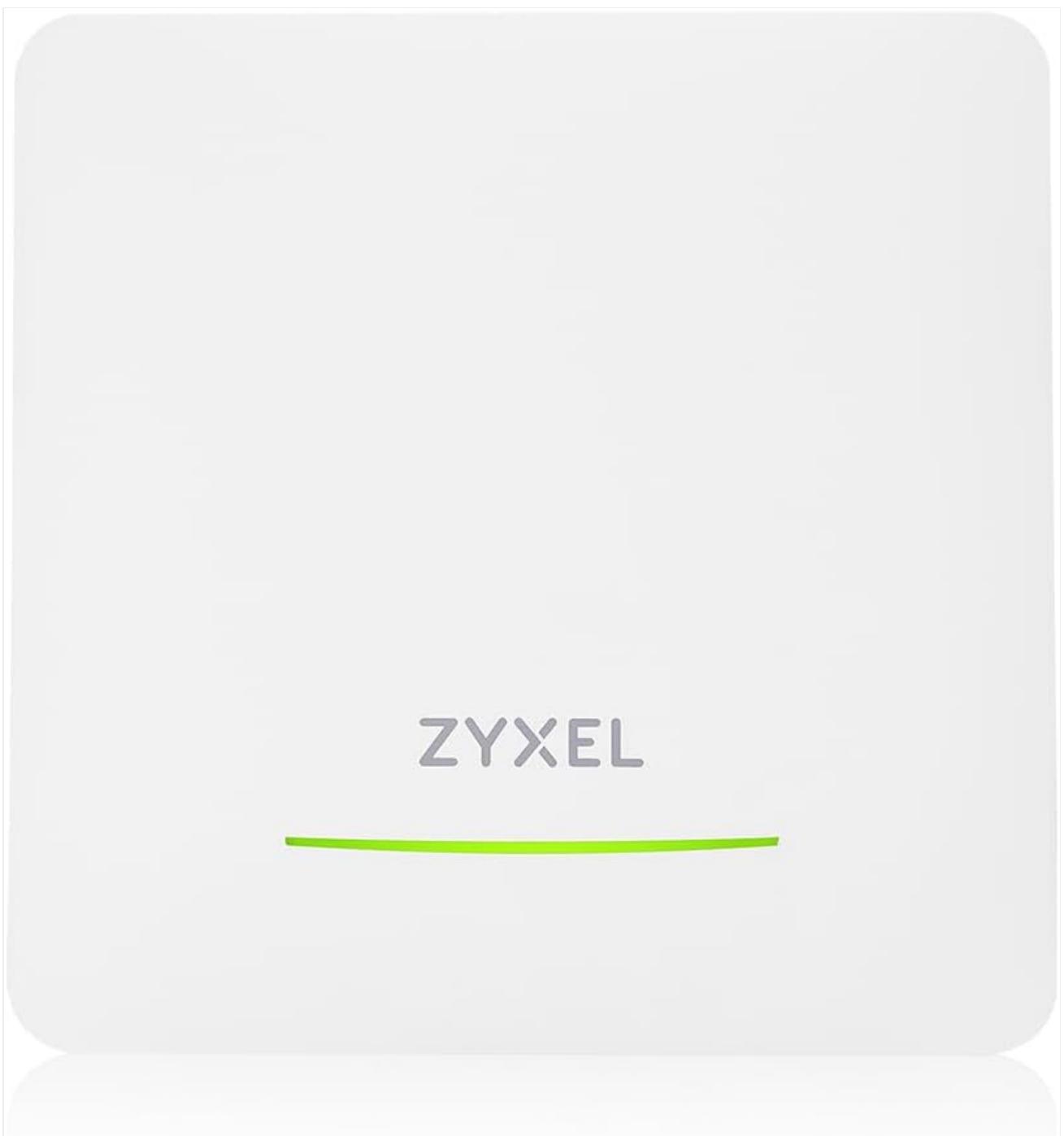


Image: Front view of the Zyxel WiFi 7 BE5100 NebulaFlex Access Point, showing the Zyxel logo and an LED indicator.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Zyxel WiFi 7 BE5100 NebulaFlex Access Point (NWA50BE)
- Power Adapter (DC 12V)
- Mounting Plate
- Mounting Screws and Wall Plugs
- Quick Start Guide (not included in this digital manual)



Image: The Zyxel NWA50BE Access Point, power adapter with various international plugs, mounting plate, screws, and wall plugs.

3. PHYSICAL OVERVIEW

3.1 Front Panel

The front panel features an LED indicator that displays the device's status.

- **Green (Solid):** Device is powered on and operating normally.
- **Green (Flashing):** Device is booting up or performing a firmware upgrade.
- **Off:** Device is powered off or experiencing an issue.

3.2 Rear Panel

The rear panel provides connectivity ports and a reset button.



Image: Rear view of the Zyxel NWA50BE Access Point, highlighting the Console port, Uplink (2.5GbE) port, DC 12V power input, and Reset button.

- **CONSOLE Port:** For local management via serial connection.
- **UPLINK (2.5GbE) Port:** Connects to your network switch or router. Supports Power over Ethernet (PoE+).
- **DC 12V:** Power input for the included power adapter.
- **RESET Button:** Press and hold for 5 seconds to restore factory default settings.

4. SETUP

4.1 Powering the Access Point

The NWA50BE can be powered using either the included power adapter or Power over Ethernet (PoE+).

- **Using Power Adapter:** Connect the included DC 12V power adapter to the "DC 12V" port on the rear panel and plug it into a power outlet.
- **Using PoE+:** Connect an Ethernet cable from a PoE+ capable switch or PoE injector (sold separately) to the "UPLINK (2.5GbE)" port.



Image: Illustration demonstrating the two powering options: via PoE (PoE+) or using the included power adapter. A note indicates that a PoE injector is sold separately.

4.2 Mounting the Access Point

The access point can be mounted on a wall or ceiling using the provided mounting plate and hardware.

1. Attach the mounting plate to the desired location using the screws and wall plugs.
2. Align the access point with the mounting plate and slide it into place until it clicks securely.

4.3 Initial Connection

After powering on, connect the UPLINK port to your network. The device will automatically obtain an IP address via DHCP. For initial configuration, you can use the Zyxel Nebula app or access the device's web interface.

5. OPERATING INSTRUCTIONS

5.1 Nebula Cloud Management

The Zyxel NWA50BE is designed for seamless management through the Zyxel Nebula cloud platform. This allows for centralized control and monitoring of your network devices from anywhere.

1. Download the Zyxel Nebula app from your mobile app store or visit the Nebula website.
2. Create a Nebula account or log in to an existing one.
3. Add your NWA50BE access point to your Nebula organization by scanning its QR code or entering its MAC address.
4. Configure your wireless networks (SSIDs), security settings, and other parameters through the Nebula dashboard.

Effortless Setup & Control



Easy set up & management, no IT expertise required

Image: Screenshots of the Zyxel Nebula dashboard displayed on a tablet, laptop, and smartphone, illustrating easy setup and management without requiring IT expertise.

5.2 Standalone Mode

Alternatively, the NWA50BE can operate in standalone mode without Nebula cloud management. Access the device's web interface by connecting a computer directly to the access point or to the same network segment. Refer to the Quick Start Guide for default IP address information or use a network scanner to discover the assigned IP.

5.3 Smart Mesh MLO

The NWA50BE supports Smart Mesh MLO (Multi-Link Operation) for extended wireless coverage and improved performance. This technology allows the access point to establish wireless backhaul connections with other compatible Zyxel access points, creating a seamless mesh network.

Smart Mesh MLO



Boosts bandwidth, cuts interference, and ensures high-performance WiFi

Image: A diagram showing two Zyxel access points creating a Smart Mesh MLO network, boosting bandwidth and reducing interference for high-performance WiFi coverage across multiple rooms.

5.4 VLAN Tagging

The device supports VLAN tagging for network segmentation and enhanced security. This allows you to create multiple virtual networks on a single physical network, isolating traffic for different user groups or applications. Configuration of VLANs is performed through the Nebula cloud interface or the standalone web interface.

6. MAINTENANCE

6.1 Firmware Updates

Regular firmware updates are crucial for security, performance, and new features. When managed via Nebula, firmware updates are typically handled automatically or can be scheduled from the cloud dashboard. For standalone mode, download the latest firmware from the Zyxel support website and apply it through the device's web interface.

6.2 Cleaning

Keep the access point clean and free from dust to ensure optimal performance and airflow. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **No Power/LED Off:**

- Ensure the power adapter is securely connected to both the device and a working power outlet.
- If using PoE, verify that the Ethernet cable is connected to a PoE+ capable port on your switch or injector.

- **No Internet Connection:**

- Check the Ethernet cable connection from the UPLINK port to your router/switch.
- Verify that your upstream network devices (router, modem) are functioning correctly and have internet access.
- Ensure the access point has obtained a valid IP address.

- **Cannot Access Web Interface/Nebula:**

- Confirm your computer is on the same network segment as the access point.
- If in standalone mode, try resetting the device to factory defaults and reconfiguring.
- For Nebula management, ensure the device is online and registered to your Nebula account.

- **Poor WiFi Performance:**

- Check for physical obstructions or sources of interference (e.g., microwaves, cordless phones).
- Ensure the access point is centrally located and mounted appropriately.
- Consider using Smart Mesh MLO to extend coverage if needed.
- Verify that your client devices support WiFi 7 for optimal performance.

If issues persist, consult the Zyxel support website or contact technical support.

8. SPECIFICATIONS

Feature	Description
Model Name	NWA50BE
Wireless Standard	802.11be (WiFi 7)
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Max WiFi Speed	Up to 5.1 Gbps (BE5100)
Ethernet Port	1x 2.5GbE (UPLINK), supports PoE+
Security Protocol	WPA3
Management	Nebula Cloud or Standalone Web Interface
Special Feature	Smart Mesh MLO, VLAN Tagging

Feature	Description
Power Input	DC 12V or PoE+ (802.3at)
Dimensions (L x W x H)	9.45 x 6.69 x 2.44 inches
Weight	1.76 pounds
Operating System	ZyNOS

9. SAFETY INFORMATION

- Do not expose the device to water or moisture.
- Do not open or attempt to repair the device. Refer all servicing to qualified personnel.
- Use only the provided power adapter or a compatible PoE+ source.
- Install the device in a well-ventilated area, away from direct sunlight and heat sources.
- Ensure proper grounding if required by local electrical codes.

10. WARRANTY AND SUPPORT

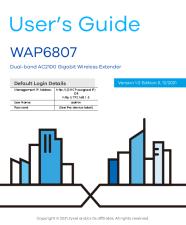
For warranty information, please refer to the warranty card included with your product or visit the official Zyxel website. Technical support and additional resources, including FAQs and firmware downloads, are available on the Zyxel support portal.

Zyxel Support Website: www.zyxel.com/support

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Related Documents - NWA50BE

 <p>User's Guide NWA50/90/55 Series 802.11a/b/g/n/ac/ax/be Access Point</p> <p>Default Logon Details User Name: admin Password: <input type="password"/> (Leave empty to use the default password.) Save Default Details Cancel Close (Ctrl + F4 to close this window. No rights reserved.)</p>  <p>User's Guide NWA30/50/55/90 Series 802.11a/b/g/n/ac/ax/be Access Point</p> <p>Default Logon Details User Name: admin Password: <input type="password"/> (Leave empty to use the default password.) Save Default Details Cancel Close (Ctrl + F4 to close this window. No rights reserved.)</p>	<p>Zyxel NWA50/90/55 Series User's Guide</p> <p>Comprehensive user guide for Zyxel NWA50/90/55 Series 802.11a/b/g/n/ac/ax/be Access Points, covering setup, configuration, management modes, security, and troubleshooting.</p>
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	<p>Zyxel WBE5100 BE6500 WiFi 7 Dual-Radio NebulaFlex Pro Access Point Datasheet</p> <p>Detailed datasheet for the Zyxel WBE5100 BE6500 WiFi 7 Dual-Radio NebulaFlex Pro Access Point, covering its advanced features, specifications, benefits, application diagram, and recommended accessories for enterprise-grade wireless networking.</p>
	<p>ZYXEL NWA110AX WiFi 6 Access Point Quick Start Guide</p> <p>Get started quickly with the ZYXEL NWA110AX WiFi 6 Access Point. This guide covers hardware installation, cloud management via Nebula, standalone setup, mounting, and grounding for your ZYXEL NWA110AX device.</p>
	<p>Zyxel WAP6807 User's Guide: Setup, MPro Mesh, and WiFi Extender Configuration</p> <p>Explore the Zyxel WAP6807 User's Guide for detailed setup, configuration, and management of your dual-band AC2100 Gigabit Wireless Extender. Learn about AP and Repeater modes, MPro Mesh features, and how to optimize your WiFi network. Find troubleshooting tips and support resources from Zyxel.</p>
	<p>ZYXEL WAX650S Quick Start Guide</p> <p>Comprehensive guide to installing and configuring the ZYXEL WAX650S 802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point using cloud management or standalone configuration.</p>