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- › [ZXYEL](#) /
- › [Zyxel Armor Z2 AC2600 MU-MIMO Wireless Router User Manual](#)

ZXYEL NBG6817

Zyxel Armor Z2 AC2600 MU-MIMO Wireless Router User Manual

Model: NBG6817 | Brand: ZXYEL

1. INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your Zyxel Armor Z2 AC2600 MU-MIMO Wireless Router (Model NBG6817). Designed for high-performance networking, this router offers advanced features for seamless 4K UHD video streaming and lag-free online gaming, supporting multiple devices simultaneously without compromising speed.



Figure 1: Zyxel Armor Z2 AC2600 MU-MIMO Wireless Router, front view with antennas extended.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- Zyxel Armor Z2 AC2600 MU-MIMO Wireless Router (NBG6817)
- Power Adapter
- Ethernet Cable
- Quick Start Guide (This manual serves as a detailed guide)

3. PHYSICAL OVERVIEW

3.1 Front Panel Indicators



Figure 2: Front view of the Zyxel Armor Z2 router showing LED indicators.

Indicator	Description
Power LED	Indicates power status. Solid white for normal operation.
Internet LED	Indicates Internet connection status.
2.4GHz Wi-Fi LED	Indicates 2.4GHz wireless network activity.
5GHz Wi-Fi LED	Indicates 5GHz wireless network activity.

3.2 Rear Panel Ports and Buttons



Figure 3: Rear view of the Zyxel Armor Z2 router showing all ports and buttons.

- **LAN Ports (1-4):** Four Gigabit Ethernet ports for connecting wired devices.
- **WAN Port:** One Gigabit Ethernet port for connecting to your modem.
- **Reset Button:** Press and hold for 10 seconds to restore factory default settings.
- **WPS Button:** Press to enable Wi-Fi Protected Setup for easy device connection.
- **Wi-Fi On/Off Button:** Toggles the wireless network on or off.
- **Power Button:** Turns the router on or off.
- **DC In:** Power input port.
- **USB Ports (2x):** For connecting USB storage devices or printers.

4. SETUP

4.1 Initial Hardware Connection

1. **Power Off:** Disconnect power from your modem and existing router (if any).
2. **Connect Modem:** Connect one end of the provided Ethernet cable to the WAN port (blue) on the Zyxel Armor Z2 router and the other end to your modem's Ethernet port.
3. **Connect Power:** Connect the power adapter to the DC In port on the router and plug it into a power outlet.
4. **Power On:** Power on your modem first, wait for it to fully boot (usually indicated by stable lights), then power on the Zyxel Armor Z2 router.
5. **Connect Devices:**
 - **Wired:** Connect your computer or other wired devices to any of the yellow LAN ports (1-4) on the router using Ethernet cables.
 - **Wireless:** Locate the Wi-Fi network name (SSID) and password printed on the label on the bottom of your

router. Connect your wireless devices (smartphones, tablets, laptops) to this network.

4.2 Web Interface Setup

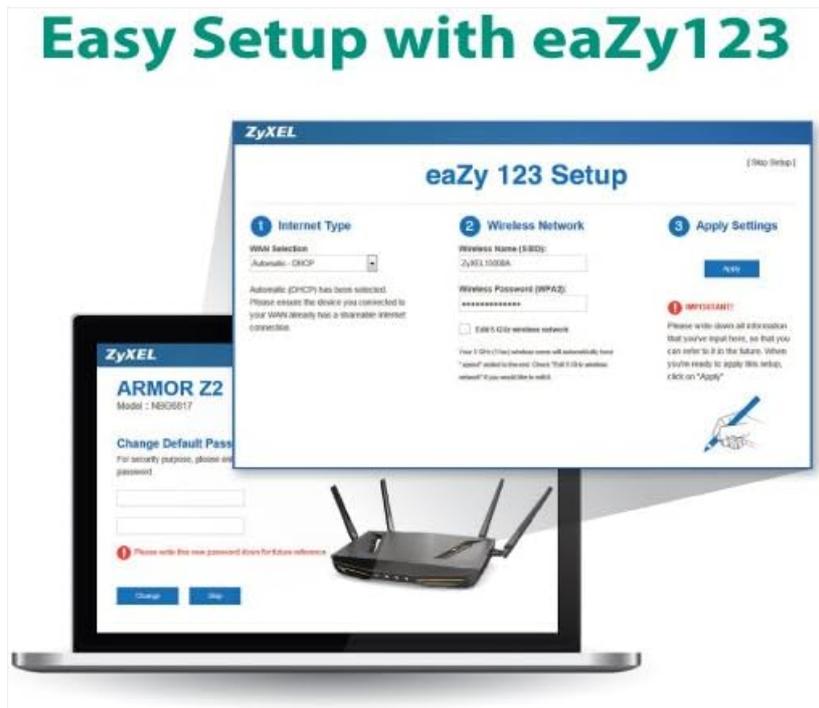


Figure 4: The Zyxel eaZy 123 Setup wizard for initial configuration.

1. **Access Router:** Open a web browser on a connected device and enter `http://myrouter` or `192.168.1.1` in the address bar.
2. **Login:** Enter the default username (usually *admin*) and password (usually *1234* or found on the router label). You will be prompted to change the default password for security.
3. **Run Setup Wizard:** Follow the on-screen instructions of the "eaZy 123 Setup" wizard to configure your Internet connection type (e.g., DHCP, PPPoE) and set up your wireless network names (SSIDs) and passwords for both 2.4GHz and 5GHz bands.
4. **Apply Settings:** Save your settings and allow the router to restart if prompted.

Note: For advanced configurations, switch to "Expert Mode" within the web interface.

5. OPERATING YOUR ROUTER

5.1 Wireless Network Management

The Zyxel Armor Z2 supports dual-band Wi-Fi (2.4GHz and 5GHz) with MU-MIMO and Beamforming technologies for optimal performance.

2nd Generation AC2600 (enhanced MU-MIMO)



Figure 5: MU-MIMO technology allows the router to communicate with multiple devices simultaneously, improving efficiency.

Fantastic Coverage



Figure 6: Beamforming focuses Wi-Fi signals directly to connected devices, enhancing signal strength and range.

- **Changing Wi-Fi Settings:** Log in to the web interface. Navigate to the "Wireless" section to modify SSIDs, passwords, security types, and channel settings for both bands.
- **Guest Network:** Enable a separate guest network for visitors to provide Internet access without sharing your main network resources.
- **WPS (Wi-Fi Protected Setup):** Press the WPS button on the router and then on your WPS-compatible device to quickly connect without entering a password.

5.2 StreamBoost™ Technology for Optimized Performance

The Zyxel Armor Z2 features StreamBoost™ technology, which intelligently manages network traffic to prioritize bandwidth for demanding applications like 4K UHD video streaming and online gaming, ensuring a smooth and lag-free experience.

Optimized for Online Gaming and Video Streaming



4K
ULTRA HD

Figure 7: The Zyxel Armor Z2 is optimized for high-demand activities like 4K streaming and gaming.

Your browser does not support the video tag.

Video 1: Overview of Zyxel Armor Z2 features, including MU-MIMO, Beamforming, and StreamBoost technology.

5.3 Usage Monitor

The router's web interface includes a usage monitor that allows you to track bandwidth consumption by device and application, providing insights into your network activity.



Figure 8: The Usage Monitor interface displaying network bandwidth usage.

6. MAINTENANCE

6.1 Firmware Upgrade

Keeping your router's firmware up to date ensures optimal performance, security, and access to new features.

1. **Check for Updates:** Log in to the router's web interface. Navigate to *Maintenance > Firmware Upgrade*. Click "Check for Latest Firmware Now".
2. **Download and Install:** If an update is available, follow the on-screen prompts to download and install it. Do not power off the router during the upgrade process.

6.2 Factory Reset

A factory reset will revert all settings to their default values. This can be useful for troubleshooting or when reconfiguring the router.

- **Via Button:** With the router powered on, use a paperclip or thin object to press and hold the **Reset** button on the rear panel for approximately 10 seconds until the LEDs flash. Release the button and wait for the router to restart.
- **Via Web Interface:** Log in to the web interface. Navigate to *Maintenance > Backup/Restore* and select the option to restore factory defaults.

7. TROUBLESHOOTING

7.1 No Internet Connection

- **Check Cables:** Ensure the Ethernet cable from your modem is securely connected to the router's WAN port.
- **Modem Status:** Verify that your modem is working correctly and has an active Internet connection (check its indicator lights).
- **Router LEDs:** Check the Internet LED on the router. If it's off or red, there might be an issue with the connection to your modem or ISP.
- **Restart Devices:** Power off your modem, then the router, then your computer. Wait 30 seconds, then power on the modem, wait for it to boot, then power on the router, and finally your computer.

- **ISP Settings:** Confirm your Internet Service Provider (ISP) connection type and settings are correctly configured in the router's web interface.

7.2 Weak Wi-Fi Signal or Slow Speeds

- **Router Placement:** Position the router in a central location, away from obstructions (walls, large metal objects) and interference sources (microwaves, cordless phones).
- **Antenna Orientation:** Adjust the router's antennas for optimal signal coverage.
- **Interference:** Change the Wi-Fi channel in the router's settings to avoid interference from neighboring networks. Use a Wi-Fi analyzer app to find less congested channels.
- **Device Compatibility:** Ensure your devices support 5GHz Wi-Fi and MU-MIMO for best performance.
- **Firmware Update:** Ensure your router's firmware is up to date.

7.3 Cannot Access Router Web Interface

- **IP Address:** Ensure your computer is set to obtain an IP address automatically (DHCP).
- **Correct Address:** Double-check that you are entering `http://myrouter` or `192.168.1.1` correctly in the browser.
- **Wired Connection:** Try connecting your computer directly to one of the router's LAN ports with an Ethernet cable.
- **Firewall/Antivirus:** Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
- **Factory Reset:** If all else fails, perform a factory reset (see Section 6.2).

8. SPECIFICATIONS

Feature	Detail
Model Name	NBG6817
Wireless Standard	802.11ac (AC2600)
Frequency Band	Dual-Band (2.4GHz & 5GHz)
Processor	1.7 GHz Dual-Core Processor
RAM	512 MB
Flash Memory	4GB eMMC
Ethernet Ports	4 x Gigabit LAN, 1 x Gigabit WAN
USB Ports	2 x USB
Antennas	4 adjustable high-performance antennas
Dimensions (LxWxH)	4.25 x 2.83 x 11.7 inches
Weight	1.85 pounds
Special Features	MU-MIMO, Beamforming, StreamBoost, WPS
Operating System	ZyNOS

9. WARRANTY AND SUPPORT

9.1 Warranty Information

For detailed warranty information, please refer to the warranty card included with your product or visit the official Zyxel website. Keep your proof of purchase for warranty claims.

9.2 Technical Support

If you encounter issues that cannot be resolved using this manual, please contact Zyxel technical support:

- **Website:** Visit the official Zyxel support website for FAQs, drivers, firmware updates, and online support resources.
- **Phone Support:** Refer to the Zyxel website or your product packaging for regional phone support numbers and operating hours.
- **Zyxel ONE Connect App:** The Zyxel ONE Connect app can assist with installation and management.