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ASUS XD4

ASUS ZenWiFi AX Mini Mesh WiFi 6 System (AX1800 XD4 3PK) User Manual

Model: XD4

INTRODUCTION

The ASUS ZenWiFi AX Mini (XD4) is a whole-home mesh WiFi 6 system designed to provide fast, stable, and extensive wireless networking performance. This system offers coverage up to 4,800 sq. ft. and supports over 5 rooms, leveraging the latest WiFi 6 technology for improved speed and stability. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your ZenWiFi AX Mini system.

PACKAGE CONTENTS

Before you begin, please verify that all items are present in your package:

- Router (XD4R) x 3
- Node (XD4N) (Note: In a 3-pack, all units can function as either router or node)
- RJ45 Ethernet Cable
- Power Adapters x 3
- Quick Start Guide (QSG)
- Warranty Card

SETUP INSTRUCTIONS

Setting up your ASUS ZenWiFi AX Mini system is a straightforward process, typically completed in three steps using the ASUS Router App or a web browser.

Step 1: Prepare Your Network

- 1. Unpack the Units:** Remove all ZenWiFi AX Mini units from their packaging.
- 2. Position the Main Router:** Choose one unit to be your main router. Place it near your modem and a power outlet.
- 3. Connect to Modem:** Connect one end of the provided RJ45 Ethernet cable to the WAN port of your main ZenWiFi unit and the other end to your modem's LAN port.
- 4. Power On:** Connect the power adapter to the main ZenWiFi unit and plug it into a power outlet. Wait for the LED indicator to show a solid blue or white light, indicating it's ready for setup.

AiProtection

Life-time free commercial-grade security for network



Image: ASUS ZenWiFi AX Mini units providing whole-home Wi-Fi coverage for a family. This image illustrates the product in a home environment, emphasizing its coverage capabilities.

Step 2: Configure the Main Router

You can use the ASUS Router App or a web browser for configuration.

Using the ASUS Router App (Recommended):

- Download App:** Download the ASUS Router App from your mobile device's app store.
- Launch App:** Open the app and follow the on-screen instructions to set up your new ZenWiFi system. The app will guide you through connecting to the default Wi-Fi network and configuring your internet connection.

and Wi-Fi settings.

Using a Web Browser:

- **Connect Device:** Connect your computer to the main ZenWiFi unit via Wi-Fi (using the default SSID found on the unit's label) or an Ethernet cable.
- **Access Setup Page:** Open a web browser and navigate to <http://router.asus.com>.
- **Follow Wizard:** Follow the setup wizard to configure your internet connection, Wi-Fi network name (SSID), and password.

Quick and Easy

3 steps to set up a whole home network

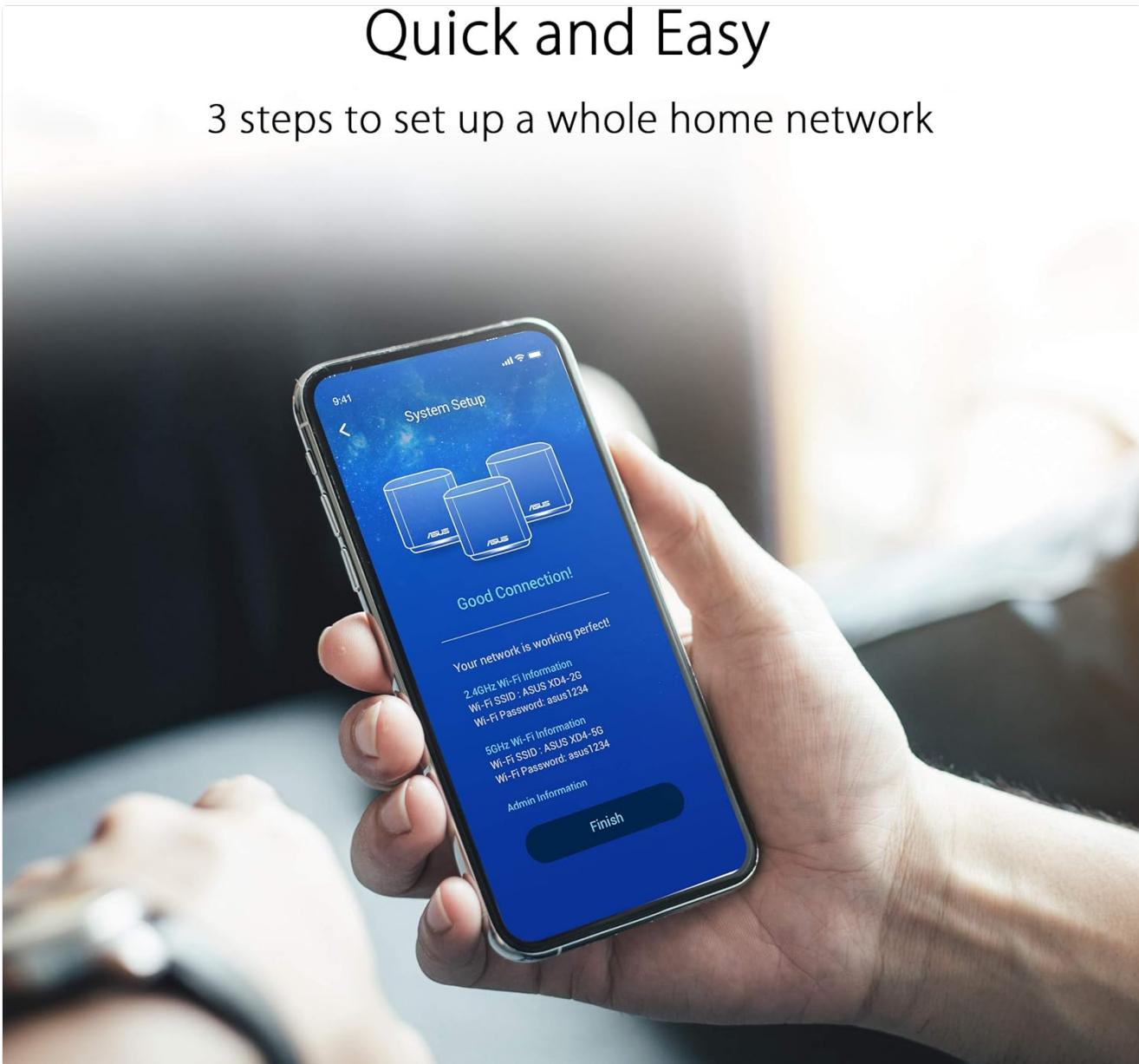


Image: A smartphone screen displaying the ASUS Router App with a "Good Connection!" message, indicating successful system setup. This image highlights the ease of setup using the mobile application.

Step 3: Add Additional Nodes (AiMesh Setup)

Once your main router is configured, you can add the other ZenWiFi units as AiMesh nodes to extend your Wi-Fi coverage.

1. **Position Nodes:** Place the additional ZenWiFi units (nodes) in areas where you need improved Wi-Fi coverage. Ensure they are within range of the main router or another node for optimal signal.
2. **Power On Nodes:** Connect the power adapters to the nodes and plug them into power outlets. Wait for the

LED indicator to show a slow blue or white blinking light, indicating they are ready to be added to the AiMesh system.

3. Add in App/Web UI:

- **App:** In the ASUS Router App, navigate to the AiMesh section and follow the instructions to search for and add new nodes.
- **Web UI:** In the web interface (<http://router.asus.com>), go to the AiMesh section and initiate the search for new nodes.

4. **Verify Connection:** Once a node is successfully added, its LED indicator will turn solid blue or white. If it turns solid red, the signal is weak, and you may need to reposition the node closer to the main router or another node.

Flexible Network Naming

Separate names for each frequency band

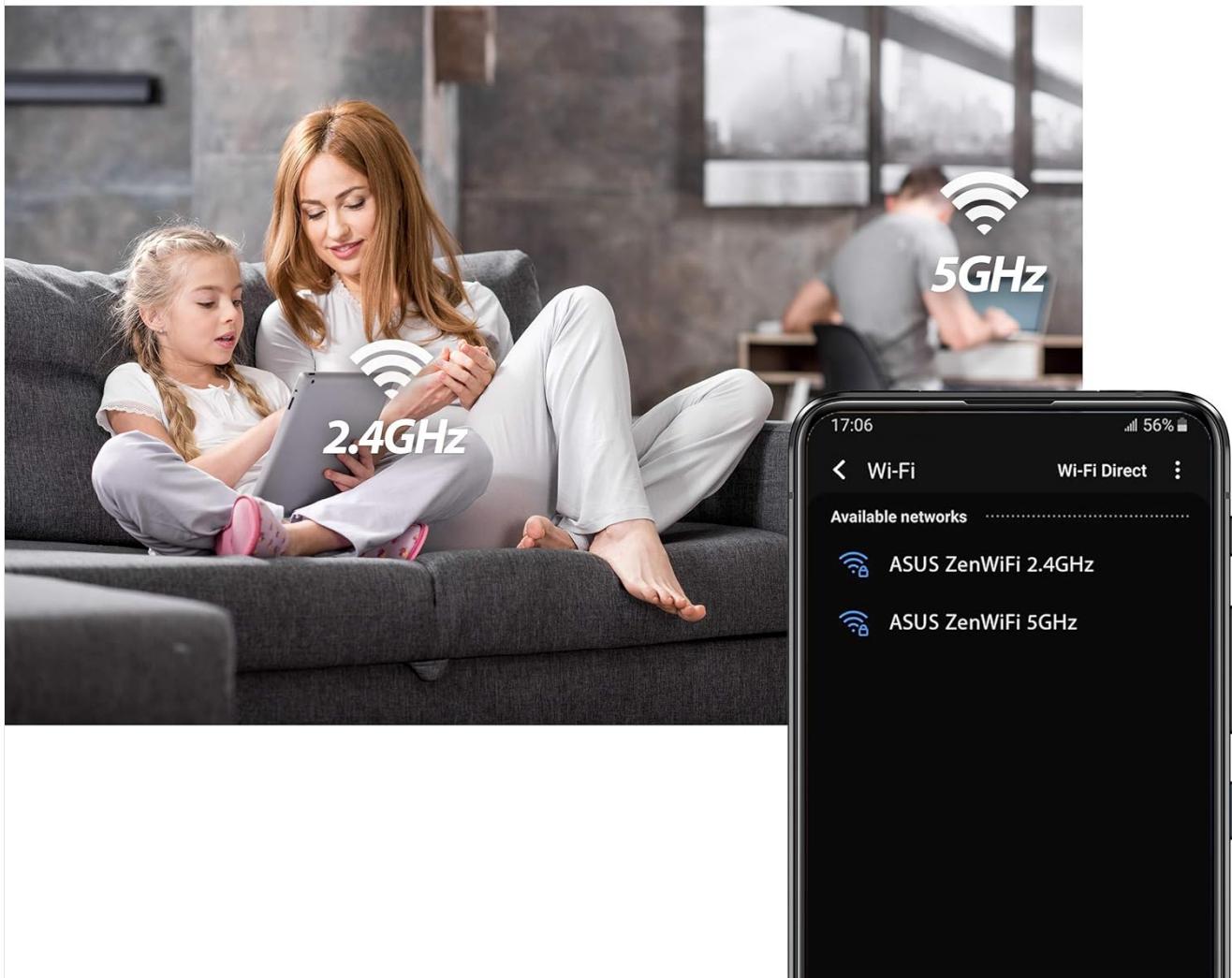


Image: A visual representation of flexible network naming, showing a device connected to a 2.4GHz network and a smartphone displaying available 2.4GHz and 5GHz Wi-Fi networks. This illustrates the ability to manage separate frequency bands.

OPERATING YOUR ZENWiFi SYSTEM

After successful setup, your ZenWiFi system operates as a unified mesh network. Here are key operational aspects:

Wi-Fi Connectivity

- **Single SSID:** By default, your ZenWiFi system broadcasts a single Wi-Fi network name (SSID) for both 2.4GHz and 5GHz bands. Your devices will automatically connect to the optimal band.
- **Separate SSIDs:** You can configure separate SSIDs for the 2.4GHz and 5GHz bands through the ASUS Router App or web interface if desired, which can be useful for certain IoT devices.
- **Guest Network:** Create separate guest networks for visitors, providing internet access without granting access to your main network resources.

ASUS Router App Features

The ASUS Router App provides comprehensive control and monitoring capabilities:

- **Network Monitoring:** View connected devices, real-time traffic, and network status.
- **AiProtection:** Access lifetime free commercial-grade network security powered by Trend Micro, including malicious site blocking, two-way IPS, and infection prevention/blocking.
- **Parental Controls:** Set up URL filters and schedule internet access for specific devices to manage family internet usage.
- **QoS (Quality of Service):** Prioritize network traffic for specific applications or devices (e.g., gaming, streaming).
- **Firmware Updates:** Easily update your router's firmware to ensure optimal performance and security.

Whole-Home WiFi Coverage

Enjoy fast and stable WiFi throughout your home

Up to **4800** sq. ft. Up to **5+** rooms



Image: An illustration of ASUS AiProtection features, showing icons for Parental Control and Internet Security, powered by Trend Micro. This highlights the security and control aspects of the system.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ASUS ZenWiFi system.

- **Firmware Updates:** Regularly check for and install firmware updates via the ASUS Router App or web interface. Updates often include security patches and performance improvements.
- **Cleaning:** Keep the units clean and free from dust. Use a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation openings are not blocked.
- **Restarting:** Periodically restart your main router and nodes (e.g., once a month) to refresh network connections and clear temporary issues.
- **Environmental Conditions:** Ensure the units are placed in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture.

TROUBLESHOOTING

This section addresses common issues you might encounter with your ZenWiFi system.

No Internet Connection

- **Check Cables:** Ensure all Ethernet cables are securely connected between the modem, main router, and any wired devices.
- **Modem Status:** Verify your modem is working correctly. Restart your modem and then your ZenWiFi main router.
- **ISP Connection:** Contact your Internet Service Provider (ISP) to confirm there are no service outages in your area.
- **Router Settings:** Check your WAN settings in the ASUS Router App or web interface to ensure they match your ISP's requirements (e.g., PPPoE, DHCP, Static IP).

Weak Wi-Fi Signal or Dead Zones

- **Reposition Nodes:** Move your AiMesh nodes closer to the main router or to a more central location within the coverage area. The LED indicator on the node can help determine signal strength (solid red indicates a weak signal).
- **Interference:** Keep ZenWiFi units away from devices that can cause interference, such as cordless phones, microwave ovens, and Bluetooth devices.
- **Obstructions:** Large metal objects, thick walls, and floors can degrade Wi-Fi signals. Try to minimize such obstructions between units.

Cannot Connect to Wi-Fi

- **Correct Password:** Ensure you are entering the correct Wi-Fi password. Passwords are case-sensitive.
- **Network Visibility:** Check if your Wi-Fi network (SSID) is being broadcast. If you've hidden the SSID, you'll need to manually enter it on your device.
- **Device Compatibility:** Ensure your device supports the Wi-Fi standards used by the ZenWiFi system (802.11ax/ac/n/g/b/a).

Factory Reset

If you encounter persistent issues, a factory reset can resolve many problems by restoring the unit to its default settings. **Note:** This will erase all your custom configurations.

1. **Locate Reset Button:** With the unit powered on, locate the Reset button (usually a small pinhole) on the back or bottom of the ZenWiFi unit.
2. **Press and Hold:** Use a paperclip or similar pointed object to press and hold the Reset button for approximately 5-10 seconds until the power LED starts blinking rapidly.
3. **Release Button:** Release the button. The unit will restart with factory default settings. You will need to reconfigure it from scratch.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Name	XD4 (L-3-PK)
Wi-Fi Standard	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IEEE 802.11ax
AX Technology	Yes
Data Rate	AX1800 (1201 Mbps on 5GHz, 574 Mbps on 2.4GHz)
Antenna Type	Internal antennas
Processor	Quad-core processor
Memory	256 MB Flash, 256 MB RAM
Ports	1 x Gigabit WAN, 1 x Gigabit LAN per unit
Power Supply	AC Input: 110V~240V (50~60Hz), DC Output: 12 V with max. 1.5 A current
Product Dimensions	3.54 x 3.54 x 3.15 inches (per unit)
Item Weight	10.4 ounces (per unit)
Features	AiMesh, AiProtection, Parental Control, QoS, Guest Network, WPS

WARRANTY AND SUPPORT

Warranty Information

ASUS products are backed by a limited warranty. Please refer to the warranty card included in your package for specific terms and conditions, including warranty period and coverage details. Keep your proof of purchase for warranty claims.

Legal Disclaimer: Actual data throughput and WiFi coverage will vary from network conditions and environmental factors, including the volume of network traffic, building material and construction, and network overhead, resulting in lower actual data throughput and wireless coverage.

Technical Support

For technical assistance, product information, or troubleshooting beyond this manual, please visit the official ASUS support website or contact ASUS customer service. You can find contact details and support resources at:

- [ASUS Official Support Website](#)
- Refer to your Quick Start Guide for regional support contact numbers.

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