

## ASUS ZenWiFi AX XT8

# ASUS ZenWiFi AX XT8 Tri-Band Mesh WiFi 6 Router User Manual

Model: ZenWiFi AX XT8

## 1. INTRODUCTION

The ASUS ZenWiFi AX XT8 is a Tri-Band Mesh WiFi 6 Router designed to provide extensive and stable wireless networking performance throughout your home. This system features the latest WiFi 6 technology, offering improved coverage, speed, and stability for multiple devices simultaneously. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your ZenWiFi AX XT8 system.



Figure 1: ASUS ZenWiFi AX XT8 Router (Charcoal)

## 2. PACKAGE CONTENTS

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Before you begin, please verify that your package contains the following items:

- ASUS ZenWiFi AX XT8 Router (Charcoal)
- Power Adapter
- Ethernet Cable
- Quick Start Guide (or User Guide)

If any items are missing or damaged, please contact your retailer or ASUS support.

## 3. HARDWARE OVERVIEW

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Familiarize yourself with the ports and indicators on your ZenWiFi AX XT8 router.

# Connectivity for Smart Home

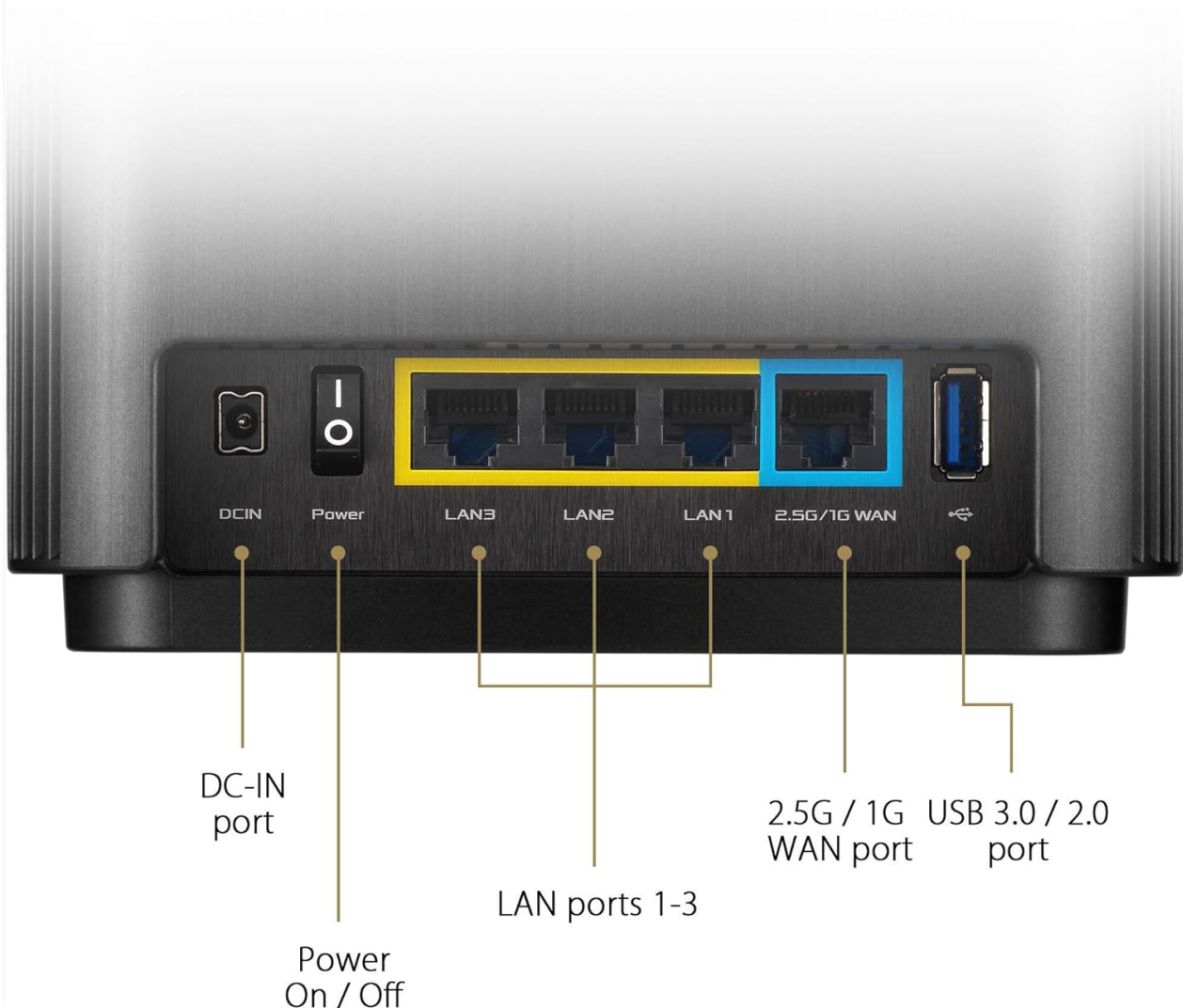


Figure 2: Rear Panel Connectivity

- **DC-IN Port:** Connects to the power adapter.
- **Power On/Off Button:** Press to turn the router on or off.
- **LAN Ports (1-3):** Connect wired devices such as computers, gaming consoles, or network-attached storage (NAS).
- **2.5G/1G WAN Port:** Connects to your modem for internet access. This port supports speeds up to 2.5 Gigabit Ethernet.
- **USB 3.0 / 2.0 Port:** For connecting USB devices like external hard drives for network storage or 4G/5G dongles.

## 4. SETUP AND INSTALLATION

Setting up your ASUS ZenWiFi AX XT8 router is a straightforward process, often completed in three steps using the ASUS Router App.

### 4.1 Initial Placement

Place your ZenWiFi AX XT8 unit in a central location in your home, away from obstructions and potential sources of interference such as microwaves, cordless phones, or large metal objects. For mesh systems,

ensure units are within optimal range of each other.

## 4.2 Hardware Connection

1. Connect your modem's Ethernet cable to the **2.5G/1G WAN Port** on the back of the ZenWiFi AX XT8 router.
2. Connect the power adapter to the **DC-IN Port** and plug it into a power outlet.
3. Press the **Power On/Off Button** to turn on the router. Wait for the LED indicator to show a stable blue or white light, indicating it's ready for setup.

## 4.3 Software Configuration (ASUS Router App)

The ASUS Router App simplifies the setup process:

1. Download the **ASUS Router App** from your mobile device's app store (Google Play Store or Apple App Store).
2. Open the app and follow the on-screen instructions to detect and configure your ZenWiFi AX XT8 system. The app will guide you through creating your WiFi network name (SSID) and password.
3. For mesh systems, the app will assist in adding additional ZenWiFi units to expand your network coverage.

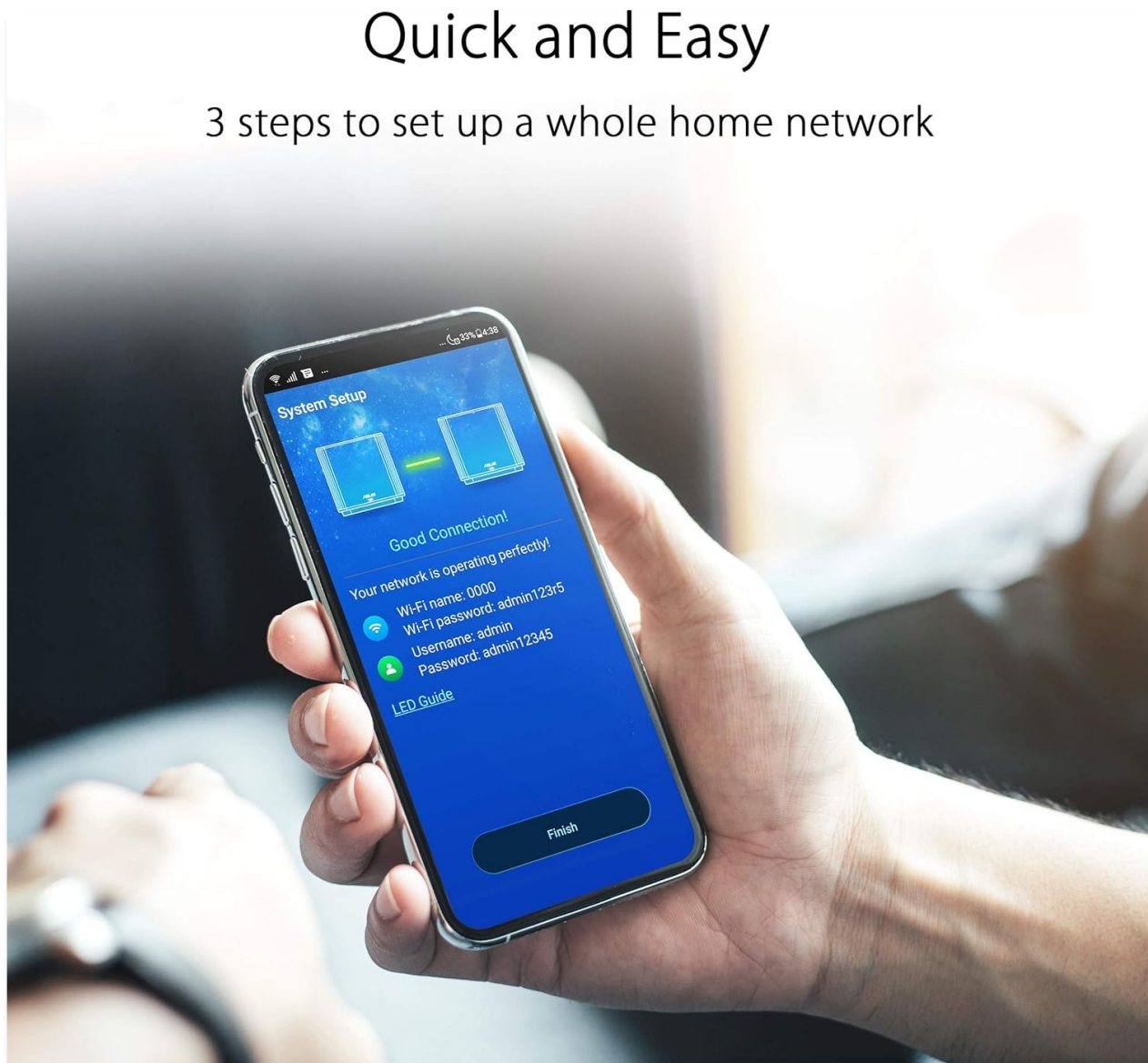


Figure 3: ASUS Router App for Easy Setup

## 5. OPERATING YOUR ZENWiFi AX XT8

Your ZenWiFi AX XT8 system offers advanced features for optimal network performance and security.

### 5.1 Tri-Band Mesh WiFi 6

The ZenWiFi AX XT8 operates on three frequency bands (one 2.4 GHz and two 5 GHz bands) to provide a dedicated backhaul for mesh communication, ensuring stable and fast connections across your entire home. This Tri-Band design, combined with WiFi 6 (802.11ax) technology, delivers higher capacity and faster speeds compared to previous WiFi standards.



Figure 4: Tri-Band Whole Home WiFi System Coverage



# Revolutionary WiFi 6

Up to **2.2X** faster speed

Up to **4X** capacity



\* The number compares speed of 4x4 11ax on 5GHz 160MHz bandwidth with 1024QAM modulation to speed of 4x4 11ac on 5GHz 80MHz with 256QAM modulation.

Figure 5: WiFi 6 Technology Benefits

## 5.2 AiMesh Technology

ASUS AiMesh allows you to combine multiple ASUS AiMesh-compatible routers to create a single, seamless whole-home WiFi network. This eliminates WiFi dead zones and provides consistent coverage as you move around your home.

## 5.3 AiProtection Pro (Network Security)

Your ZenWiFi AX XT8 includes lifetime free AiProtection Pro, powered by Trend Micro. This commercial-grade network security suite protects all connected devices from internet threats, including malicious sites, intrusions, and infected devices. It provides:

- **Network Vulnerability Protection:** Guards against common internet-based attacks.
- **Malicious Site Blocking:** Prevents access to known malicious websites.
- **Infected Device Prevention and Blocking:** Detects and blocks infected devices from communicating with external malicious servers.

# AiProtection Pro

Life-time free commercial-grade security for network



Figure 6: AiProtection Pro Features

## 5.4 Parental Controls

AiProtection Pro also includes advanced parental controls, allowing you to manage internet access for family members. You can schedule internet time, block specific content, and monitor online activity through the ASUS Router App.

## 5.5 Multiple SSIDs

The router supports multiple SSIDs, allowing you to create separate WiFi networks for different purposes, such as a guest network, an IoT (Internet of Things) network, or a dedicated network for children's devices. This enhances security and network management.

## 6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your ZenWiFi AX XT8 router.

- **Firmware Updates:** Regularly check for and install firmware updates via the ASUS Router App or the router's web interface. Firmware updates often include security patches, performance improvements, and new features.
- **Physical Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation openings are not blocked.

- **Optimal Placement:** Periodically review the placement of your router and any mesh nodes to ensure they are in optimal positions for coverage and away from interference.
- **Restarting:** If you experience minor network issues, a simple restart of the router (unplugging from power for 30 seconds and plugging back in) can often resolve them.

## 7. TROUBLESHOOTING

If you encounter issues with your ZenWiFi AX XT8, try the following troubleshooting steps:

### 7.1 No Internet Connection

- **Check Cables:** Ensure all Ethernet cables are securely connected to the router and modem.
- **Modem Status:** Verify that your modem is working correctly and has an active internet connection.
- **Restart Devices:** Power cycle your modem, then your router, and finally your connected devices.
- **Router LED:** Check the WAN LED indicator on your router. If it's not solid, there might be an issue with the internet connection from your ISP.

### 7.2 Slow WiFi Speed or Poor Coverage

- **Router Placement:** Ensure the router is centrally located and not obstructed.
- **Interference:** Move the router away from other electronic devices that might cause interference.
- **AiMesh Nodes:** If using a mesh system, ensure your AiMesh nodes are optimally placed to extend coverage effectively.
- **Firmware:** Ensure your router's firmware is up to date.
- **Band Steering:** Enable or disable Smart Connect (band steering) in the ASUS Router App to see if it improves performance for your devices.

### 7.3 Cannot Access Router Settings

- **IP Address:** Ensure your device is connected to the router's WiFi or via an Ethernet cable. Try accessing the router's web interface by typing router.asus.com or its default IP address (e.g., 192.168.1.1) into a web browser.
- **Browser Cache:** Clear your browser's cache and cookies, or try a different browser.
- **Reset:** If all else fails, perform a factory reset (refer to the "Factory Reset" section in the full manual for instructions, as this typically involves a physical button press and will erase all settings).

## 8. SPECIFICATIONS

Key technical specifications for the ASUS ZenWiFi AX XT8 router:

Feature	Specification
Model Name	ZenWiFi AX XT8
Brand	ASUS
Wireless Standard	WiFi 6 (802.11ax)
Frequency Band Class	Tri-Band
Total Wireless Speed	Up to 6600Mbps



WAN Port	1 x 2.5G/1G Ethernet
LAN Ports	3 x Gigabit Ethernet
USB Port	1 x USB 3.0 / 2.0
Dimensions (L x W x H)	6.3 x 2.95 x 6.36 inches
Item Weight	1.61 pounds
Special Feature	WPS, AiMesh Support, AiProtection Pro

## 9. WARRANTY AND SUPPORT

This ASUS ZenWiFi AX XT8 router is a renewed product. Renewed products are typically covered by the Amazon Renewed Guarantee, which ensures the product works and looks like new. For specific details regarding your warranty coverage, including return and refund policies, please refer to the Amazon Renewed Guarantee terms and conditions on the product purchase page.

Optional protection plans may also be available for purchase. Please check the product listing for details on available protection plans and their terms.

For technical support, driver downloads, and further product information, please visit the official ASUS support website: [www.asus.com/support/](http://www.asus.com/support/)