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› [ASUS](#) /

› [ASUS ExpertWiFi EBM68 AX7800 Tri-Band Business Mesh WiFi 6 System User Manual](#)

## ASUS EBM68

# ASUS ExpertWiFi EBM68 AX7800 Tri-Band Business Mesh WiFi 6 System User Manual

MODEL: EBM68

<a href="#">Overview</a>	<a href="#">Package Contents</a>	<a href="#">Setup</a>	<a href="#">Operating Instructions</a>	<a href="#">Network Security</a>	<a href="#">VPN</a>	
<a href="#">Features</a>	<a href="#">Expandable WiFi</a>	<a href="#">Connectivity</a>	<a href="#">Installation &amp; Support</a>	<a href="#">Specifications</a>	<a href="#">Troubleshooting</a>	<a href="#">Warranty</a>

## 1. Overview

The ASUS ExpertWiFi EBM68 is a Tri-Band Business Mesh WiFi 6 System designed to provide a fast, secure, and scalable network. It offers rich features tailored for small to mid-sized businesses, adapting easily to various network needs, whether used independently or extended with other ASUS ExpertWiFi solutions.



Image: The ASUS ExpertWiFi EBM68 unit, a white, cylindrical device with the ASUS logo.

### Key Features:

- **High-efficiency WiFi 6:** Ultrafast WiFi 6 tri-band boosts speeds up to 7,800 Mbps, with 160 MHz channels for better efficiency and throughput.

- **Separate and Secure Usage:** Up to five SSIDs to separate and prioritize devices for different business scenarios.
- **Customizable Guest Portal:** Customize the SSID, portal type, brand name, and templates to fit your business style.
- **Expandable WiFi Coverage:** ExpertWiFi provides up to 12 mesh node connections to expand your business network with AiMesh features.
- **Enterprise-grade Network Security:** Receive a free subscription to ASUS AiProtection Pro and safe browsing features to secure your WiFi environment.

## 2. Package Contents

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Verify that all items are present in your package:

- EBM68 (W-1-PK) Networking router
- Power adapter
- Quick start guide
- RJ-45 cable
- Wall-mount kit
- Warranty card

## 3. Initial Setup

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Follow these general steps to set up your ASUS ExpertWiFi EBM68 system. For detailed visual instructions, refer to the official product video below.

1. **Unpack the Device:** Carefully remove the EBM68 router and all accessories from the packaging.
2. **Connect Power:** Plug the power adapter into the DCIN port of the EBM68 and then into a power outlet.
3. **Connect to Internet:** Connect your modem's Ethernet cable to the 2.5G/1G WAN port on the EBM68.
4. **Connect a Device (Optional):** For initial configuration, you may connect a computer to one of the LAN ports using the provided RJ-45 cable.
5. **Power On:** Press the power button to turn on the device. Wait for the indicator lights to stabilize.
6. **Access Setup Wizard:** Open a web browser on a connected device and navigate to the router's default IP address (usually 192.168.1.1 or router.asus.com) to begin the setup wizard. Follow the on-screen instructions to configure your network settings, including WiFi name (SSID) and password.

Your browser does not support the video tag.

Video: Official product video for the ASUS ExpertWiFi EBM68, demonstrating its features and capabilities. This video provides an overview of the system's benefits for business networking.

## 4. Operating Instructions

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### 4.1. Separate and Secure WiFi Usage

The ExpertWiFi EBM68 allows you to create up to 16 VLAN profiles with 5 SSIDs, enabling you to segment your network for different user groups or device types. This ensures enhanced security and optimized performance for each segment, supporting over 100 active devices per node.

# Separate and Secure WiFi Usage

Up to 16 VLAN profile with 5 SSIDs  
With **100 +** active devices\*



\*Recommended maximum number per node

Image: Diagram illustrating the network segmentation capabilities of the ASUS ExpertWiFi EBM68, showing distinct networks for employees, VPN, guests, IoT devices, and scheduled access.

## 4.2. Customizable Guest Portal

Set up a custom guest portal with ease. You can personalize the SSID, portal type, brand name, and templates to align with your business's branding and requirements. This feature provides a professional and user-friendly experience for your guests.

# Customizable Guest Portal

Easy setup | User-friendly interface



Image: A smartphone screen displaying the user-friendly interface for setting up and customizing the guest portal on the ASUS ExpertWiFi EBM68.

## 5. Network Security

The ExpertWiFi EBM68 includes enterprise-grade network security features to protect your business data. It comes with a free subscription to ASUS AiProtection Pro, offering commercial-grade network security, and safe browsing features to secure your WiFi environment 24/7.

# Protect any businesses

AiProtection Pro | VPN | One-tap security scan



Image: A business meeting setting with a digital overlay symbolizing network security, highlighting the AiProtection Pro and VPN capabilities of the ASUS ExpertWiFi EBM68.

## 6. VPN Features

The system offers comprehensive VPN features, including site-to-site VPN, allowing secure connections between your central office and multiple branch locations. This ensures that your business network is accessible and secure, even when you are on a business trip.

# Site-to-Site VPN

Connection between central office and multiple branch location

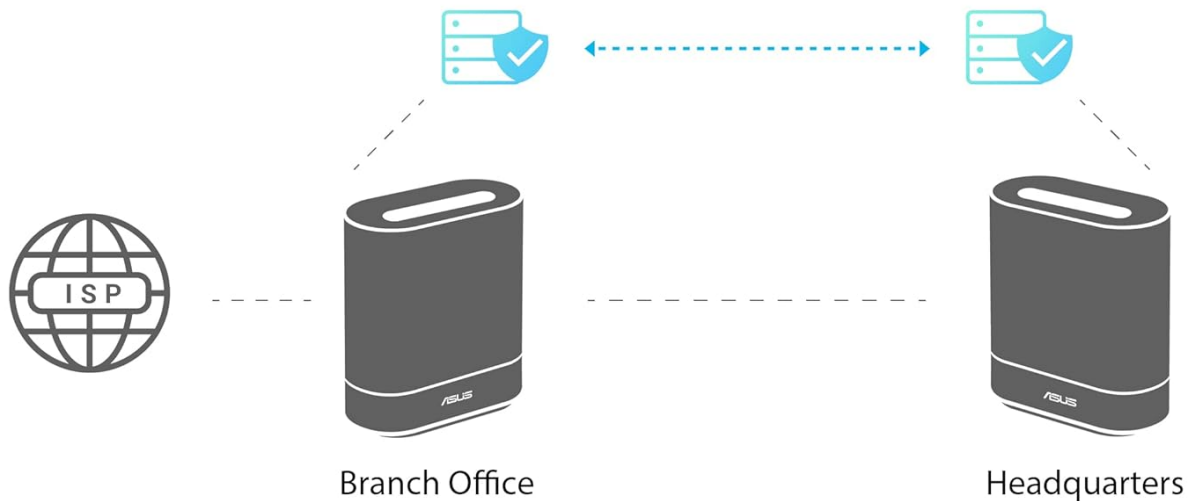


Image: A diagram showing a secure site-to-site VPN connection established between a branch office and headquarters, facilitated by the ASUS ExpertWiFi EBM68.

## 7. Expandable WiFi Coverage with AiMesh

ExpertWiFi supports up to 12 mesh node connections, allowing you to easily expand your business network coverage using ASUS AiMesh features. This ensures a strong and reliable WiFi signal throughout your premises, accommodating your growing needs.

Your browser does not support the video tag.

Video: This video demonstrates how to extend your WiFi coverage using ASUS AiMesh technology, showing the setup process and benefits of a whole-home mesh WiFi network.

## 8. Versatile Connectivity

The EBM68 offers versatile connectivity options including Dual WAN, Mobile Tethering, and LAN Aggregation. These features provide flexibility and redundancy for your network connections, ensuring continuous operation and high performance.

# Versatile connectivity

Dual WAN | Mobile Tethering | LAN Aggregation

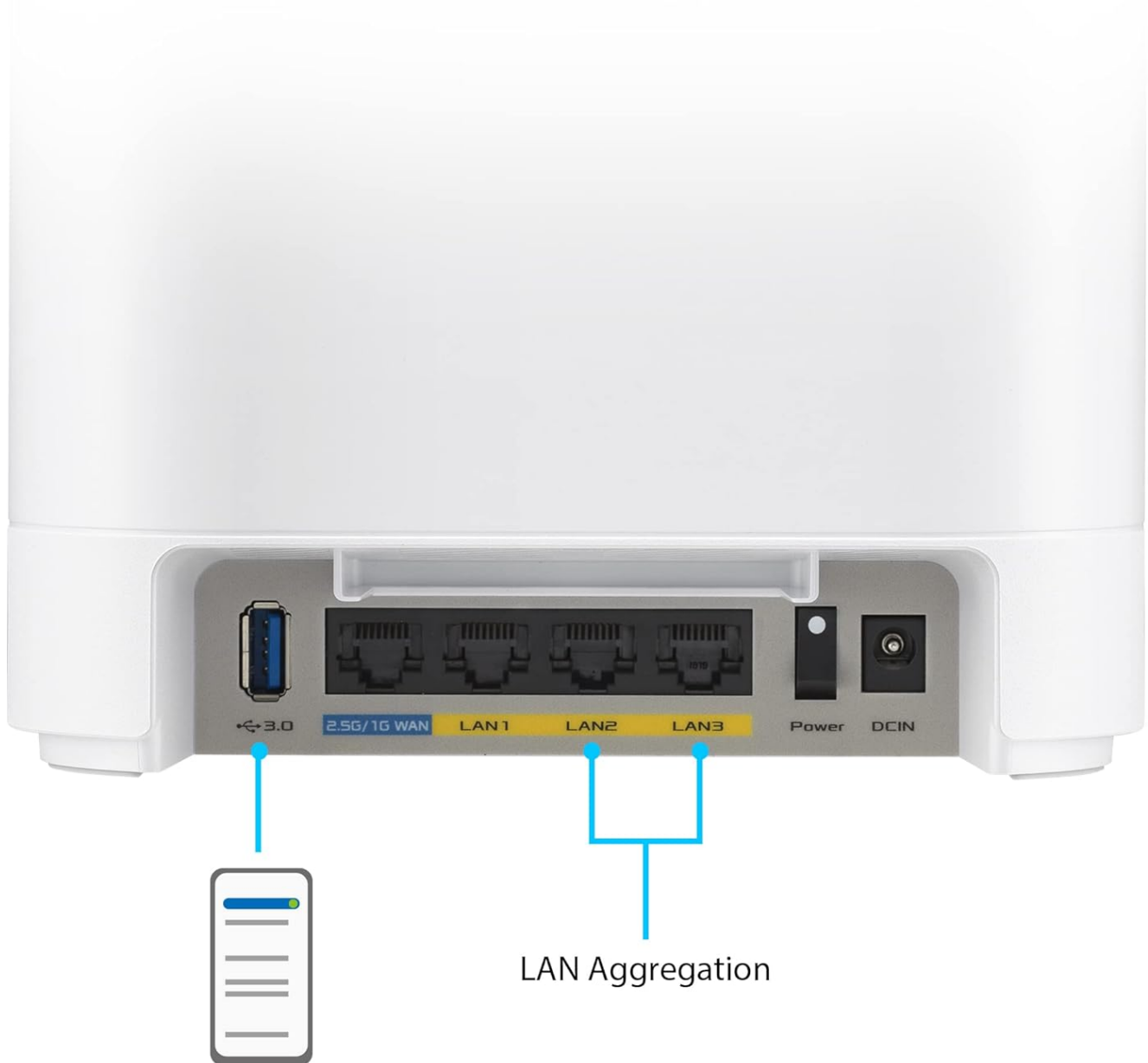


Image: The rear view of the ASUS ExpertWiFi EBM68, highlighting its various ports including USB 3.0, 2.5G/1G WAN, multiple LAN ports, and power input, demonstrating its versatile connectivity.

## 9. Physical Installation

The ASUS ExpertWiFi EBM68 is designed to accommodate various installation environments. It includes a wall-mount kit and cable organizer for flexible placement, allowing it to blend seamlessly into any space.

# Accommodate to any space

Wall-mounting stand | Cable organizer



Image: The ASUS ExpertWiFi EBM68 unit shown mounted on a wall, illustrating its adaptability for various office or business environments.



Image: Close-up of the wall-mount bracket included with the ASUS ExpertWiFi EBM68, demonstrating its design for secure installation.

## 10. Specifications

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Feature	Detail
Brand	ASUS
Model Name	EBM68 (W-1-PK)
Special Feature	Access Point Mode, Guest Mode, Internet Security, Parental Control, QoS
Frequency Band Class	Tri-Band
Wireless Communication Standard	802.11a, 802.11ac, 802.11ax, 802.11g
Compatible Devices	Personal Computer, Security Camera, Smart Television, Smartphone, Tablet
Recommended Uses For Product	Business, Home
Connectivity Technology	Ethernet, USB, Wi-Fi
Color	WHITE
Wireless Compatibility	802.11a, 802.11ac, 802.11ax, 802.11g
Antenna Type	Internal
Operating System	App, Linux, Mac OS, Windows
Security Protocol	WPA2-Enterprise, WPA3-Personal, WPS
Number of Ports	4
Control Method	App, Touch
Data Transfer Rate	7800 Megabits Per Second
LAN Port Bandwidth	2.5 Gigabit
Voltage	110 Volts
RAM Memory Installed	1 GB
Number of Antennas	6
Smart Home Compatibility	Smart Home Compatible
Wi-Fi Generation	WiFi 6
Is Modem Compatible	No
Connectivity Protocol	Wi-Fi
Coverage	Up to 12 mesh node connections for expanded coverage
Controller Type	App Control, Push Button, Web GUI
Frequency	5 GHz
Item Weight	1.7 Pounds
Item Dimensions L x W x H	7.3"L x 3"W x 6.5"H

## 11. Troubleshooting

If you encounter issues with your ASUS ExpertWiFi EBM68, consider the following general troubleshooting steps:

- **Check Connections:** Ensure all cables (power, Ethernet from modem, LAN) are securely connected.
- **Restart Device:** Power cycle the EBM68 router and your modem. Wait a few minutes for both devices to fully

restart.

- **Verify Indicator Lights:** Consult the quick start guide for the meaning of different LED indicators. Abnormal light patterns can indicate specific issues.
- **Reset to Factory Defaults:** If network issues persist, you may need to perform a factory reset. Refer to the quick start guide for instructions on how to reset your device. *Note: A factory reset will erase all your custom settings.*
- **Consult Online Resources:** Visit the official ASUS support website for FAQs, updated firmware, and more detailed troubleshooting guides.

## 12. Warranty and Support

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The ASUS ExpertWiFi EBM68 comes with a **3-year warranty**. For warranty claims or technical assistance, please contact ASUS customer support.

For additional support, product information, and driver downloads, please visit the official ASUS website:

**ASUS Support Website**