ASUS BT6

ASUS ZenWiFi BT6 Tri-Band WiFi 7 Mesh System User Manual

Model: BT6 (W-2-PK) | Brand: ASUS

1. PRODUCT OVERVIEW

The ASUS ZenWiFi BT6 is a tri-band WiFi 7 mesh system designed to provide extensive and high-speed wireless coverage for your home. This system utilizes next-generation Smart AiMesh technology to deliver fast tri-band speeds up to 9.4 Gbps, leveraging superior 6 GHz WiFi for optimal performance.

Image: Two ASUS ZenWiFi BT6 mesh units, showcasing their compact design.

Key Features:

- **Tri-band WiFi 7 Speeds:** Achieves speeds up to 9.4 Gbps with Multi-link Operation (MLO) and 4K-QAM technology.
- **AI-powered Smart AiMesh:** Extends coverage up to 5800 sq.ft. (with a 2-pack system) for seamless whole-home WiFi. Compatible with other ASUS AiMesh routers.
- **Optimized Signal Strength:** Features seven internal antennas and eight high-power front-end modules to minimize WiFi dead zones.
- **Advanced Network Security:** Includes commercial-grade AiProtection Pro and advanced VPN features for 24/7 end-to-end protection.
- **Smart Home Master SSIDs:** Facilitates easy setup and management of IoT Network, parental controls, and VPNs across multiple devices.
- **Versatile Connectivity:** Equipped with a 2.5G WAN Port and supports 4G & 5G Mobile Tethering.

2. WHAT'S IN THE BOX

Verify that all items are present in your package:

- ASUS ZenWiFi BT6 (W-2-PK) Units (2 units for the 2-pack)
- RJ45 Ethernet Cable
- Power Adapters
- Warranty Card
- Quick Start Guide

3. SETUP INSTRUCTIONS

Follow these steps to set up your ASUS ZenWiFi BT6 mesh system:

1. **Unpack and Place Units:** Carefully remove both ZenWiFi BT6 units from the packaging. Place them in central locations within your home, ensuring they are within reasonable range of each other for optimal mesh performance.

2. **Connect the Main Unit:**

   - Connect one end of the provided RJ45 Ethernet cable to the 2.5G WAN port on the back of one ZenWiFi BT6 unit (this will be your main router unit).
   - Connect the other end of the Ethernet cable to your modem's LAN port.
   - Connect the power adapter to the main router unit and plug it into a power outlet. Power on the unit.

3. **Connect the Satellite Unit(s):**

   - Place the second ZenWiFi BT6 unit (satellite node) in another area of your home where you need extended coverage.
   - Connect its power adapter and plug it into a power outlet. Power on the unit.
   - The units will automatically attempt to establish a mesh connection. Observe the LED indicators for connection status (refer to the Quick Start Guide for LED meanings).

4. **Download and Configure via ASUS Router App:**

   - Download the ASUS Router app from the Google Play Store or Apple App Store.
   - Open the app and follow the on-screen instructions to detect and configure your new ZenWiFi BT6 system. This includes setting up your WiFi network name (SSID) and password.

Always Connected with Peace of Mind

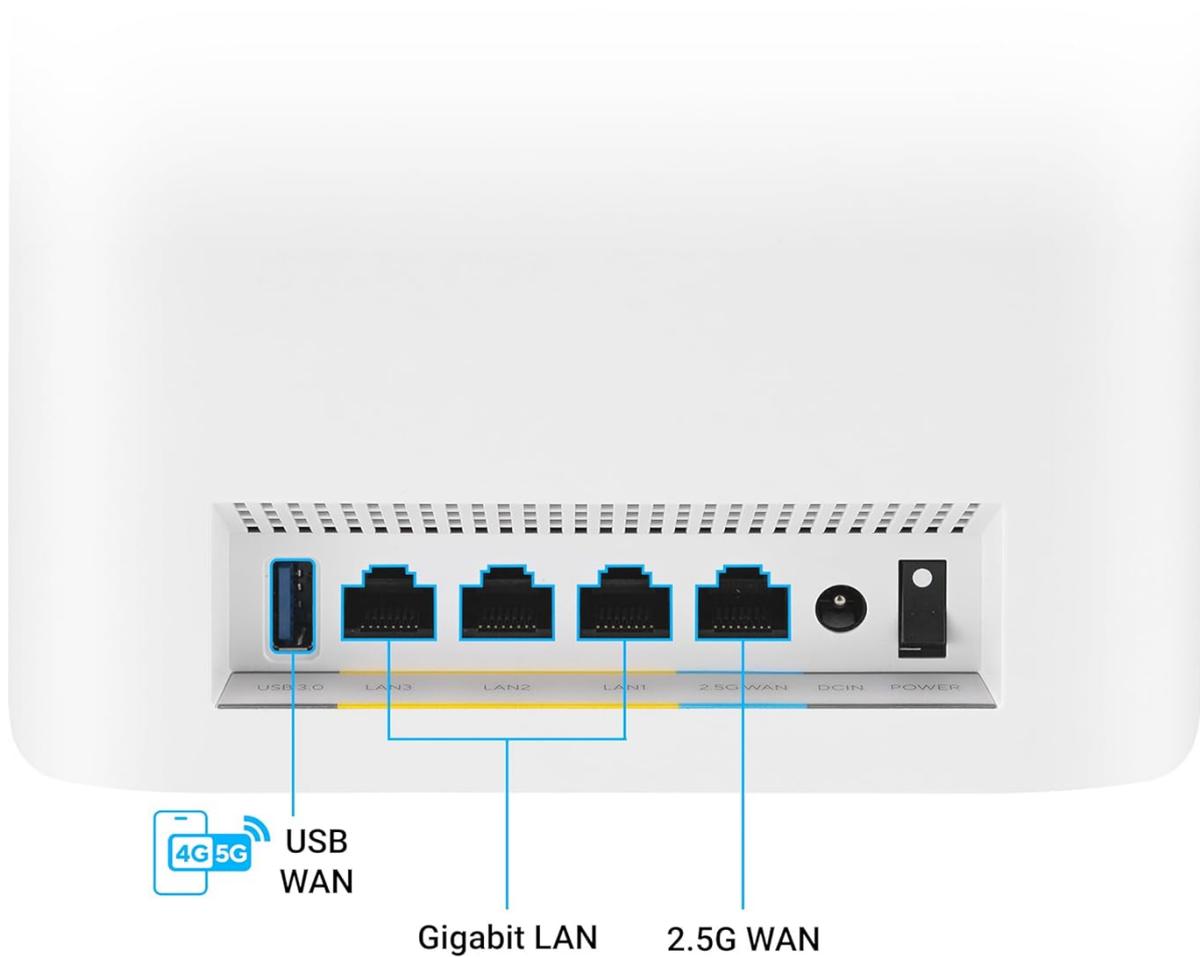## 2.5G WAN Port, 4G LTE & 5G Mobile Tethering

4G 5G USB WAN

Gigabit LAN   2.5G WAN

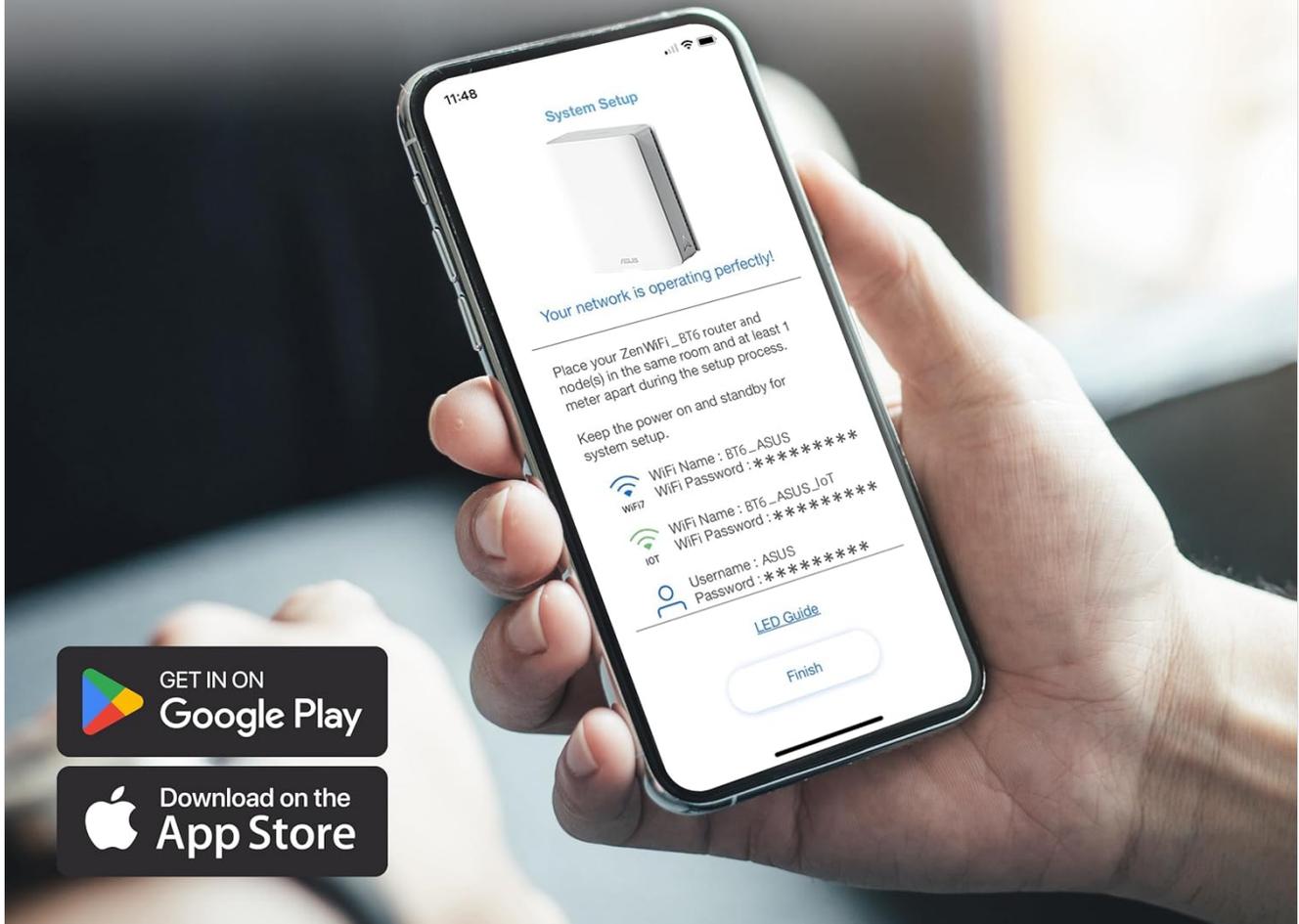Image: Rear ports of the ZenWiFi BT6, highlighting the 2.5G WAN port for internet connection.

Image: The ASUS Router app interface, showing the easy 3-step setup process.

4. OPERATING YOUR MESH SYSTEM

4.1. AiMesh Technology

The ZenWiFi BT6 utilizes AiMesh technology to create a unified whole-home WiFi network. This means your devices will automatically connect to the strongest WiFi signal as you move around your home, ensuring seamless connectivity without manual switching between networks.

Blanket Your Whole-home with Ultimate AiMesh

Superior 6 GHz WiFi, AiMesh Extendable Network with Rich Features

A 2pk coverage up to
5,800 sq. ft.

A 1pk coverage up to
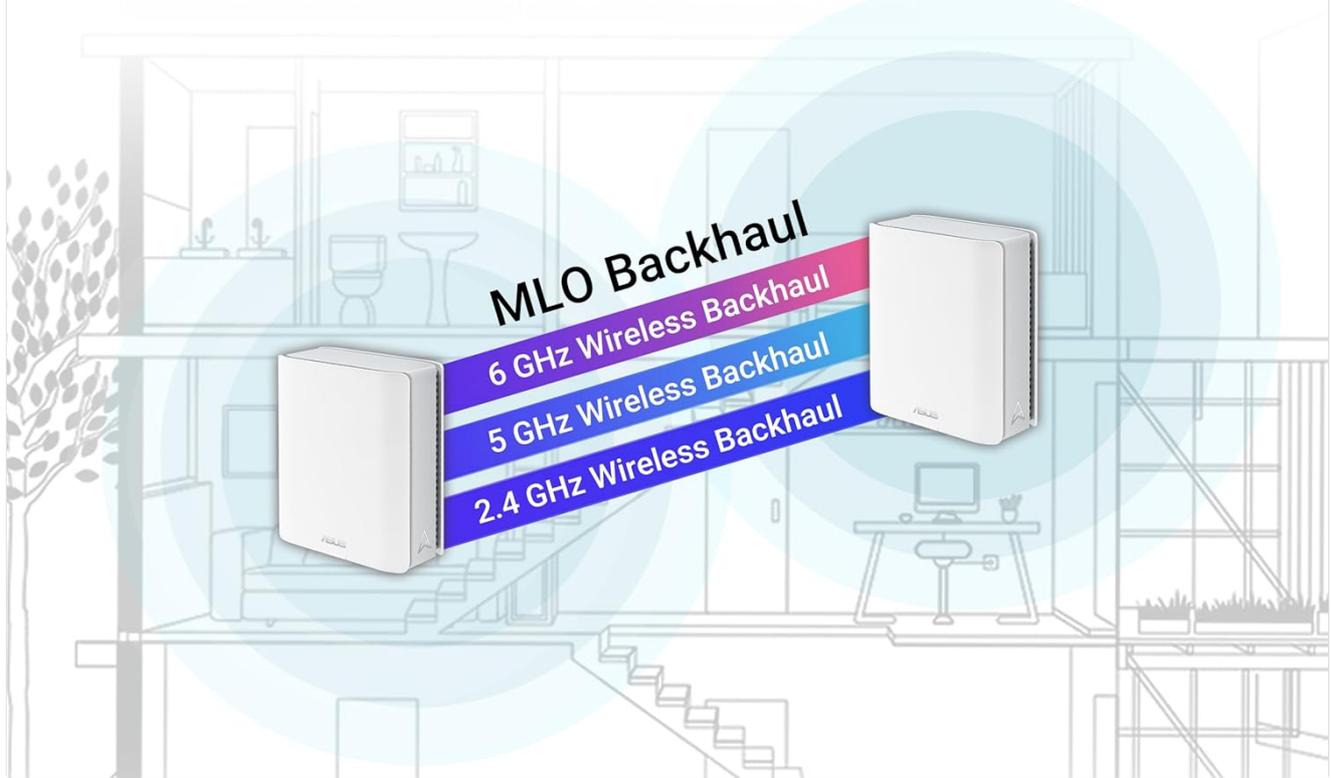**3,000 sq. ft.**

Image: AiMesh coverage diagram, showing how two units provide WiFi across a large area.

4.2. Tri-Band WiFi 7 Performance

The system operates on three frequency bands (2.4 GHz, 5 GHz, and 6 GHz) to provide maximum bandwidth and reduce interference. WiFi 7 (802.11be) offers enhanced speeds and efficiency, particularly on the 6 GHz band, which is less congested.

The Best Mesh Meets WiFi 7
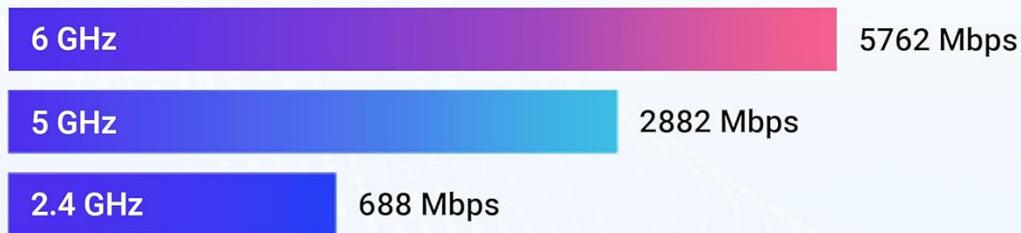## Up to tri-band 9400 Mbps for max coverage and connectivity

Up to
2x Faster
With 320 MHz*

Up to
1.2x Faster
With 4K-QAM*

Tri-band Multi-link
2.4 GHz + 5 GHz + 6 GHz

Band	Speed
6 GHz	5762 Mbps
5 GHz	2882 Mbps
2.4 GHz	688 Mbps

13 YEARS RUNNING
ASUS ROUTERS

PC MAG **READERS' CHOICE**

" Asus takes a clear lead in this category, with scores of 9.0 for both overall satisfaction and likelihood to recommend. "

Image: Tri-band speed breakdown, illustrating the performance of each frequency band.

4.3. Network Security with AiProtection Pro

AiProtection Pro, powered by Trend Micro, provides comprehensive network security. This includes protection against malicious sites, vulnerability protection, and infected device prevention and blocking. It operates continuously to safeguard your network and connected devices.
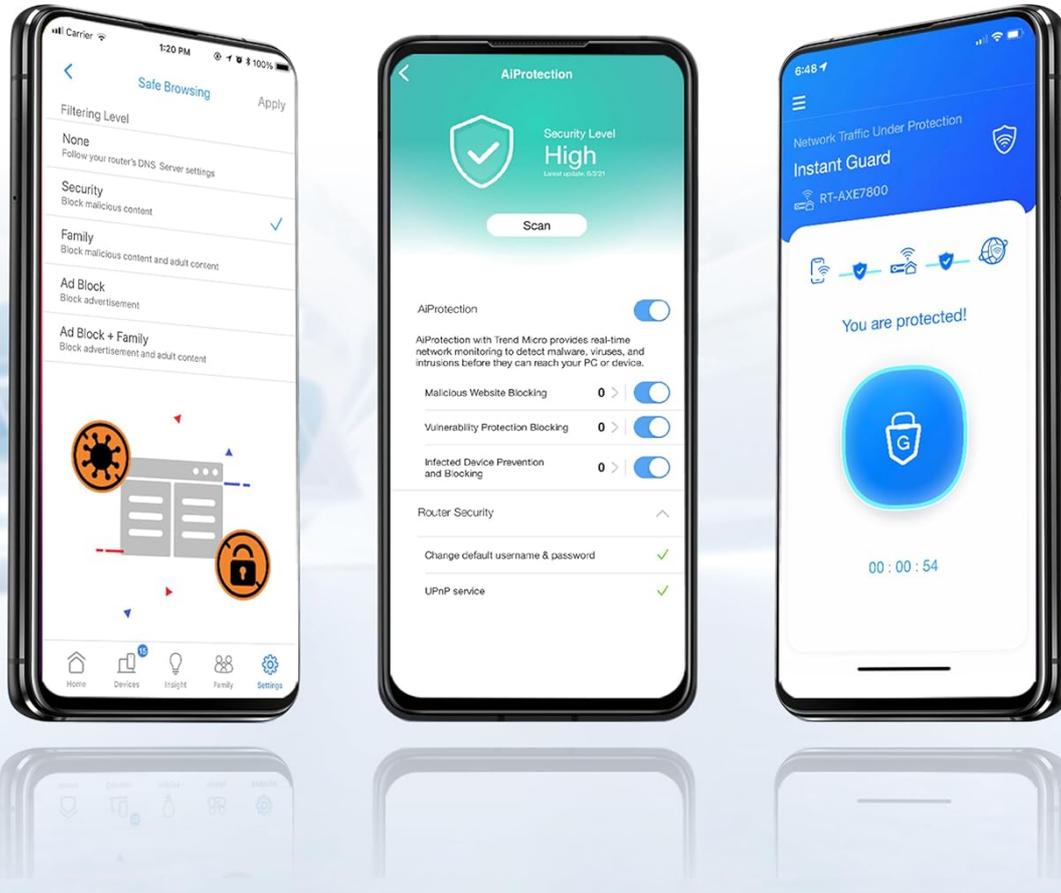
Image: AiProtection Pro interface within the ASUS Router app, detailing security features.

4.4. Advanced Parental Controls

Manage internet access for family members with advanced parental controls. Features include an internet activity dashboard, kid-safe presets, content filtering, and flexible time scheduling. These settings can be configured easily through the ASUS Router app.

Image: Parental controls dashboard in the ASUS Router app, showing options for managing family internet usage.

4.5. Smart Home Master SSIDs

The ZenWiFi BT6 allows you to create up to three distinct SSIDs (network names) for different purposes: an IoT Network for smart devices, a Kid's Network with specific access rules, and a VPN Network for secure connections. This segmentation enhances security and network management.
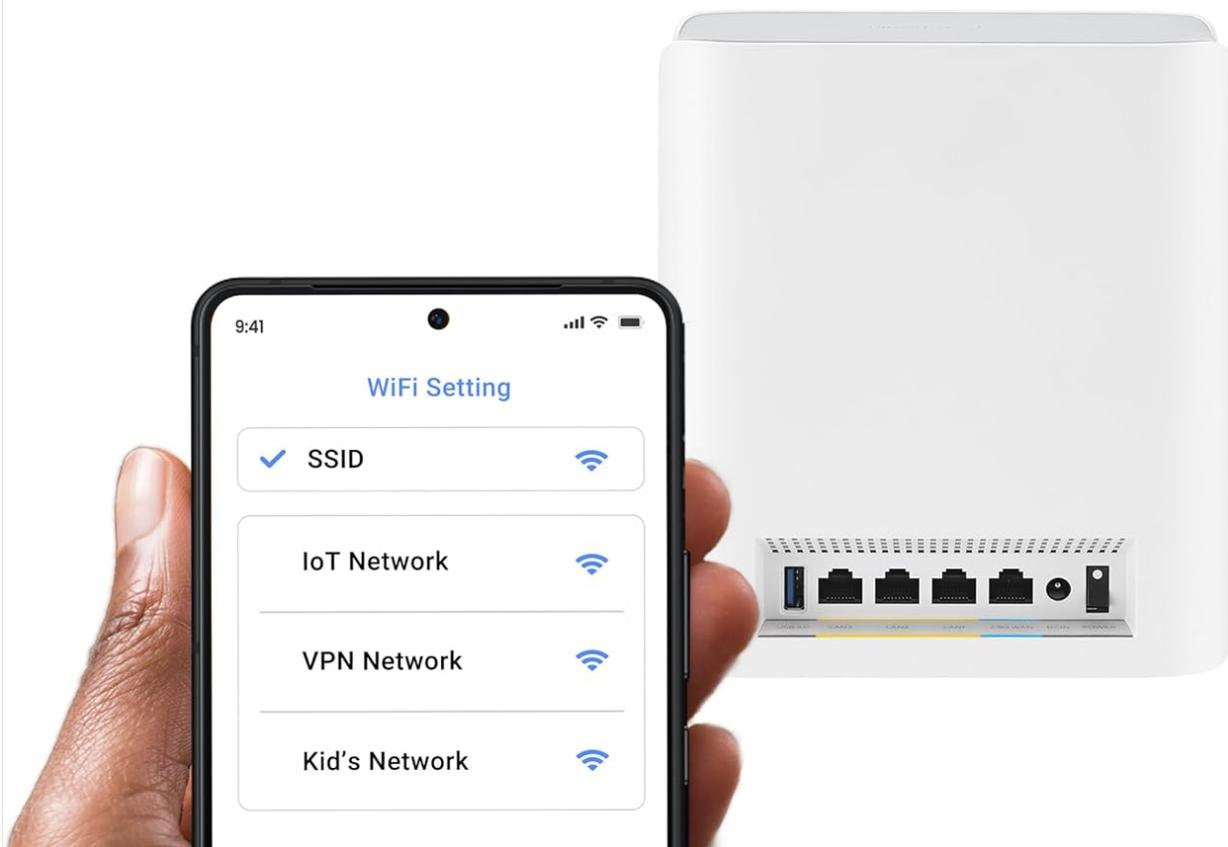
Image: Smart Home Master SSIDs feature, illustrating separate networks for IoT, VPN, and kids.

4.6. 4G & 5G Mobile Tethering

For backup internet or mobile connectivity, the ZenWiFi BT6 supports 4G and 5G mobile tethering. Connect a compatible 4G/5G USB dongle to the USB port on the router to use a mobile data connection as your internet source.

5. MAINTENANCE

To ensure optimal performance and longevity of your ASUS ZenWiFi BT6 system, consider the following

maintenance tips:

- **Firmware Updates:** Regularly check for and install firmware updates via the ASUS Router app or web interface. Updates often include performance improvements, security patches, and new features.
- **Physical Cleaning:** Keep the units free from dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation slots are not obstructed.
- **Restart Periodically:** A periodic restart (e.g., once a month) can help clear temporary issues and refresh network performance.
- **Optimal Placement:** Ensure units are placed in open areas, away from large metal objects, thick walls, and interference sources (like microwaves or cordless phones) to maintain strong signal strength.

6. TROUBLESHOOTING

If you encounter issues with your ZenWiFi BT6 system, try the following steps:

- **No Internet Connection:**

  - Check if your modem is working correctly.
  - Ensure the Ethernet cable is securely connected from the modem to the 2.5G WAN port of your main ZenWiFi unit.
  - Restart both your modem and the ZenWiFi main unit.

- **Poor WiFi Signal/Coverage:**

  - Relocate your satellite ZenWiFi unit closer to the main unit or to a more central location.
  - Ensure there are no major obstructions between the units.
  - Check the AiMesh connection status in the ASUS Router app.

- **Devices Cannot Connect to WiFi:**

  - Verify you are using the correct WiFi network name (SSID) and password.
  - Restart the problematic device.
  - Check if the WiFi is enabled on your ZenWiFi system via the app or web interface.

- **Slow Speeds:**

  - Ensure your internet service provider (ISP) is delivering the expected speeds.
  - Minimize the number of active devices or bandwidth-intensive applications.
  - Consider using a wired connection for devices that require maximum speed.

For further assistance, refer to the comprehensive user manual available on the ASUS support website or contact ASUS customer support.

7. TECHNICAL SPECIFICATIONS

Feature	Detail

Feature	Detail
Brand	ASUS
Model Name	BT6 (W-2-PK)
Wireless Type	802.11.be (WiFi 7), 802.11ax (WiFi 6), 802.11ac (WiFi 5), 802.11n (WiFi 4)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Max Data Rate	Up to 9.4 Gbps
Coverage (2-pack)	Up to 5800 sq.ft.
WAN Port	1 x 2.5G WAN Port
LAN Ports	Multiple Gigabit LAN ports
USB Port	USB 3.0 (for mobile tethering)
Operating System	ASUSWRT
Dimensions (LxWxH)	7.32 x 2.83 x 6.26 inches
Item Weight	1.88 pounds
Special Features	2 PACKS, Alexa Compatible, Guest Mode, VPN Security, AiProtection Pro, Parental Controls, Smart Home Master SSIDs

Unrivaled Coverage and Reliability
Next-gen Powerhouse

7 Internal
antennas

8 High-power
front-end modules
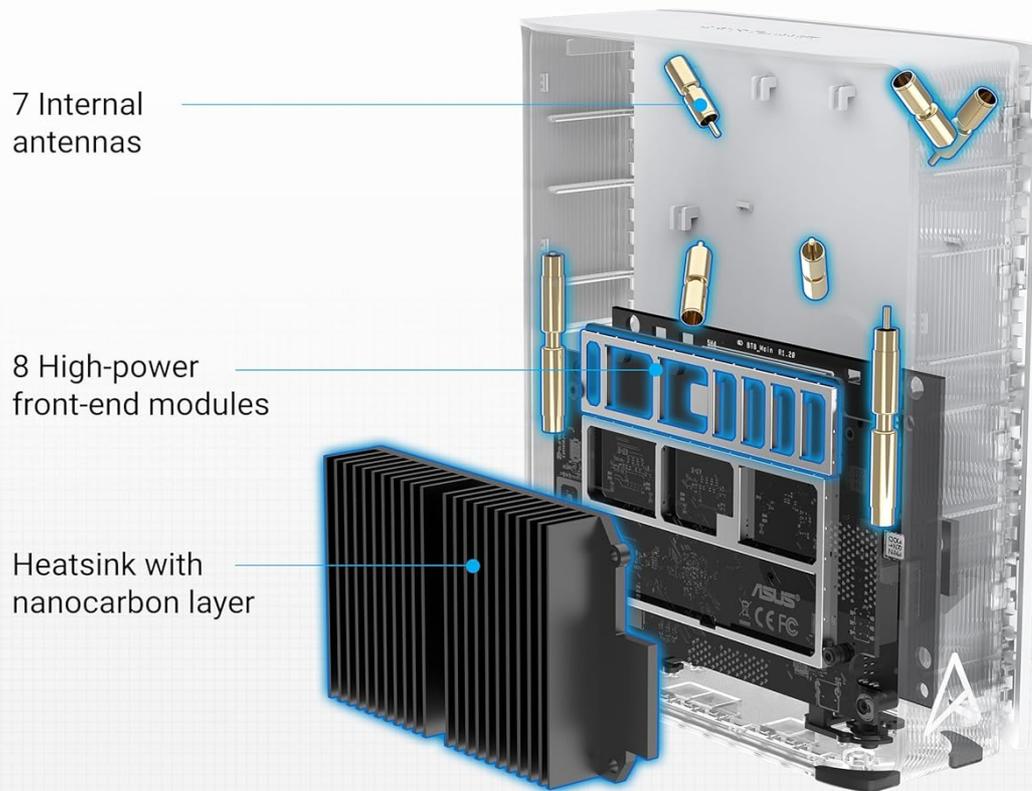
Heatsink with
nanocarbon layer

Image: Internal components of the ZenWiFi BT6, highlighting its engineering for performance.

8. WARRANTY AND SUPPORT

Your ASUS ZenWiFi BT6 system typically comes with a manufacturer's warranty. Please refer to the included Warranty Card for specific terms and conditions.

Protection Plans:

Additional protection plans may be available for purchase, such as 3-Year or 4-Year Protection Plans, or a Complete Protect monthly plan. These plans offer extended coverage beyond the standard manufacturer's warranty.

Customer Support:

For technical assistance, product registration, or warranty claims, please visit the official ASUS support website or contact their customer service department. Keep your product model number (BT6) and serial number handy when contacting support.

9. Additional Resources

Your browser does not support the video tag.

Video: ZenWiFi BT6 Product Video, providing a visual overview of the system's features and benefits.