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## MSI B650I EDGE WIFI

# MSI MPG B650I Edge WiFi Gaming Motherboard User Manual

Model: B650I EDGE WIFI

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the MSI MPG B650I Edge WiFi Gaming Motherboard. This Mini-ITX motherboard is designed to support AMD Ryzen 9000/8000/7000 Series Desktop Processors, offering advanced features for high-performance computing.



Figure 1: MSI MPG B650I Edge WiFi Gaming Motherboard with its retail packaging and Wi-Fi antenna.

## 2. SETUP AND INSTALLATION

Before beginning installation, ensure your system components are compatible with the MSI MPG B650I Edge WiFi motherboard. This motherboard supports AMD Ryzen 9000/8000/7000 Series processors and DDR5 memory.

### 2.1 Package Contents

Verify that all items are present in the package:

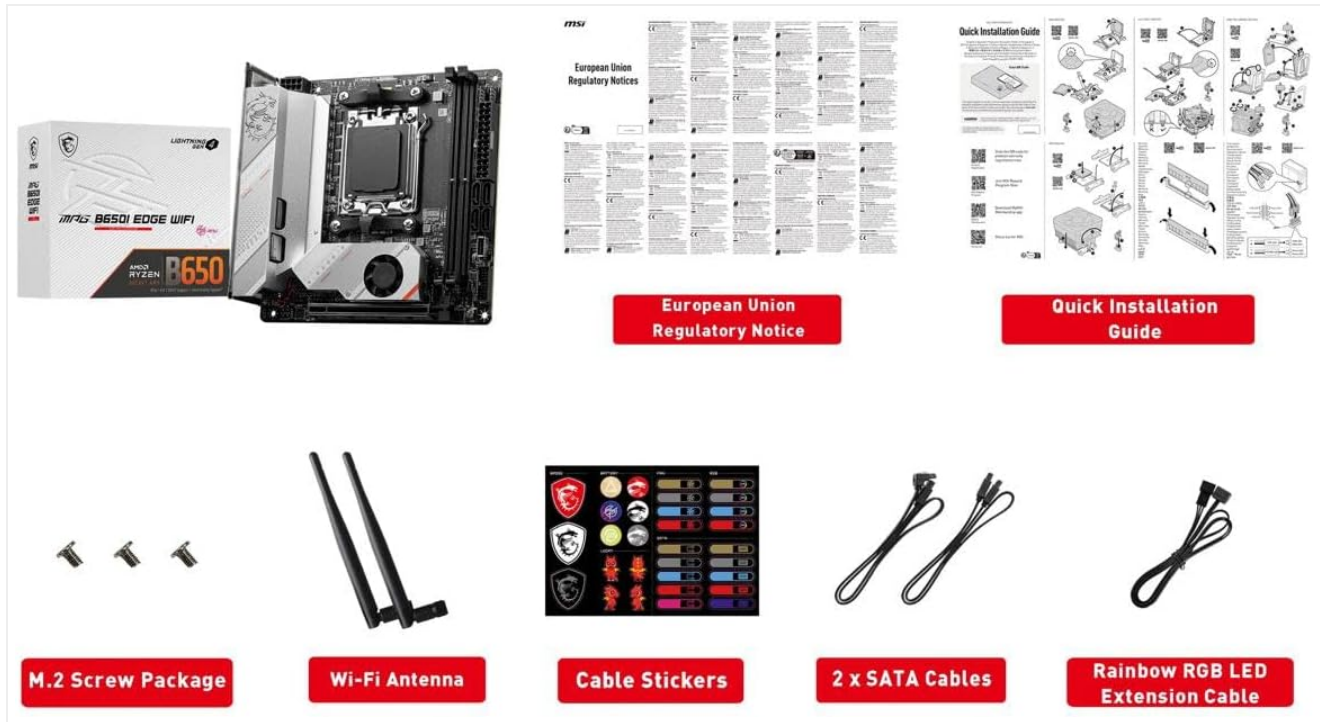


Figure 2: Included accessories for the MSI MPG B650I Edge WiFi Motherboard.

- MSI MPG B650I Edge WiFi Motherboard
- M.2 Screw Package
- Wi-Fi Antenna
- Cable Stickers
- 2 x SATA Cables
- Rainbow RGB LED Extension Cable
- Quick Installation Guide
- European Union Regulatory Notice

### 2.2 Component Installation Overview

Follow the instructions in the included Quick Installation Guide for detailed steps on installing the CPU, CPU cooler, memory modules, storage devices, and connecting power supplies. Ensure proper grounding and handle components with care to prevent electrostatic discharge.



Figure 3: Top-down view of the motherboard layout, highlighting the CPU socket, DDR5 memory slots, and M.2 Shield Frozr.

The motherboard features an enhanced power design with Direct 8+2+1 VRM power, Core Boost, and Memory Boost for stable performance. A premium thermal solution, including an extended heatsink, MOSFET thermal pads rated for 7W/mK, additional choke thermal pads, and M.2 Shield Frozr, is integrated to manage heat effectively during operation.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Initial Boot and BIOS Setup

Upon first boot, access the UEFI BIOS to configure system settings. The MSI BIOS interface is designed for easy navigation. It is recommended to update the BIOS to the latest version available from the MSI website for optimal performance and compatibility.

#### 3.2 Connectivity

The motherboard offers comprehensive connectivity options:

- **Wireless:** Integrated Wi-Fi 6E and Bluetooth 5.3 for high-speed wireless networking and peripheral

connections.

- **Wired LAN:** 2.5Gbps LAN port for stable and fast wired internet access.
- **USB Ports:** Multiple USB 3.2 Gen 2 ports for high-speed data transfer.
- **Storage:** M.2 slots and SATA 6Gb/s connections for various storage devices.
- **Graphics:** HDMI output for integrated graphics (if supported by CPU).
- **PCIe:** PCIe 4.0 slot for graphics cards and other expansion cards.



Figure 4: Rear Input/Output (I/O) panel detailing available ports and connectors.

## 4. MAINTENANCE

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Regular maintenance helps ensure the longevity and stable operation of your motherboard.

- **Dust Removal:** Periodically clean dust from the motherboard and cooling components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the official MSI website for the latest BIOS updates. Updating the BIOS can improve system stability, compatibility, and performance. Follow MSI's instructions carefully when performing a BIOS update.
- **Driver Updates:** Keep all device drivers, especially chipset and network drivers, updated to their latest versions.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter.

- **No Display/Boot Issues:**
  - Check all power connections, including the 24-pin ATX and 8-pin CPU power connectors.
  - Reseat memory modules and the graphics card.
  - Utilize the onboard EZ Debug LEDs (CPU, DRAM, VGA, BOOT) to identify the component causing the issue. Refer to the Quick Installation Guide for LED indicator meanings.
- **Long Boot Times:**
  - Ensure the latest BIOS version is installed. MSI frequently releases updates to optimize boot performance.
  - Verify memory settings in BIOS, especially XMP/EXPO profiles.
- **Wi-Fi/Bluetooth Connectivity Issues:**

- Ensure the Wi-Fi antenna is securely connected to the rear I/O panel.
- Install the latest Wi-Fi and Bluetooth drivers from the MSI support website.
- Check BIOS settings to ensure Wi-Fi and Bluetooth are enabled.

- **System Instability:**

- Verify that all components are properly seated and connected.
- Check CPU and GPU temperatures to ensure they are within safe operating limits.
- Run memory diagnostic tools to check for RAM errors.

For persistent issues, consult the comprehensive user manual available on the MSI support website or contact MSI technical support.

## 6. SPECIFICATIONS

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### MSI MPG B650I Edge WiFi Motherboard Key Specifications

Feature	Detail
Brand	MSI
Model Name	MPG B650I EDGE WIFI
CPU Socket	Socket AM5
Compatible Processors	AMD Ryzen 9000/8000/7000 Series Desktop Processors
Chipset	AMD B650
RAM Memory Technology	DDR5
Memory Speed	Up to 6600+(OC) MHz
Form Factor	Mini-ITX
PCIe Slots	PCIe 4.0
Storage Interfaces	M.2, SATA 6Gb/s
USB Ports	USB 3.2 Gen 2, USB 2.0
Video Output	HDMI
Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.3
LAN	2.5Gbps
Dimensions (LxWxH)	6.7 x 6.7 x 2.5 inches
Item Weight	1 pound

## 7. WARRANTY INFORMATION

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For detailed warranty terms and conditions, please refer to the official MSI website or the warranty card included with your product. Warranty coverage typically includes manufacturing defects for a specified period from the date of purchase.

## 8. SUPPORT AND CONTACT

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For technical support, driver downloads, BIOS updates, and further product information, please visit the official MSI support website:

**[MSI Official Support Website](#)**

You can also find additional resources and community forums on the MSI brand store:

**[MSI Amazon Brand Store](#)**