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## MSI MPG B550 GAMING EDGE WIFI

# MSI MPG B550 Gaming Edge WiFi Motherboard User Manual

Model: MPG B550 GAMING EDGE WIFI

## 1. INTRODUCTION

The MSI MPG B550 Gaming Edge WiFi Motherboard is designed to provide a robust and high-performance foundation for your computing needs. Compatible with AMD AM4 Ryzen processors, this ATX motherboard integrates advanced features for gaming, content creation, and multitasking. Key features include PCIe 4.0 support, Lightning Gen 4 M.2 slots, USB 3.2 Gen 2 connectivity, and AX Wi-Fi 6 for reliable wireless performance.

## 2. SAFETY INFORMATION

- Always disconnect the power cord from the electrical outlet before installing or removing any components.
- Wear an anti-static wrist strap or touch a grounded object (e.g., metal chassis) before handling the motherboard or components to prevent electrostatic discharge (ESD) damage.
- Keep the motherboard away from moisture and extreme temperatures.
- This product contains a button cell or coin battery. Ingestion of the battery can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

## 3. PACKAGE CONTENTS

Verify that all items listed below are included in your motherboard package:

- MSI MPG B550 Gaming Edge WiFi Motherboard
- Quick Installation Guide
- User Manual
- SATA Cables (2x)
- Wi-Fi Antenna
- M.2 Screws and Standoffs
- RGB LED Extension Cable

- Driver DVD
- MSI Case Badge
- Product Registration Card



Figure 1: Contents included in the MSI MPG B550 Gaming Edge WiFi Motherboard retail box. This includes the motherboard, documentation, SATA cables, Wi-Fi antenna, M.2 accessories, RGB cable, and case badge.

## 4. MOTHERBOARD LAYOUT

Familiarize yourself with the key components and connectors on your motherboard.



Figure 2: An overview of the MSI MPG B550 Gaming Edge WiFi Motherboard, showcasing its ATX form factor, heatsinks, and various slots and headers.

#### 4.1. CPU Socket (AM4)

The motherboard features an AM4 socket, supporting AMD Ryzen 5000 Series, 3rd Gen Ryzen, and future AMD Ryzen processors with a BIOS update.

#### 4.2. DDR4 Memory Slots

Four DDR4 DIMM slots support dual-channel memory up to 128 GB at speeds up to 4866 MHz (OC). Refer to the motherboard's QVL (Qualified Vendor List) for compatible memory modules.

#### 4.3. PCIe Expansion Slots

The motherboard includes multiple PCIe slots for expansion cards:

- One PCIe 4.0 x16 slot for graphics cards.
- Additional PCIe x1 slots for other expansion cards.

#### 4.4. M.2 Slots

Two M.2 slots are available for high-speed NVMe SSDs. One slot supports Lightning Gen 4 M.2 with M.2 Shield Frozr for optimal thermal performance.

#### 4.5. SATA Ports

Six SATA 6Gb/s ports are provided for connecting traditional storage devices like HDDs and SSDs.

#### 4.6. Rear I/O Panel

The integrated I/O shield provides a variety of ports for external devices:

- USB 3.2 Gen 2 (Type-A and Type-C) ports
- USB 3.2 Gen 1 ports

- USB 2.0 ports
- HDMI and DisplayPort outputs (for CPUs with integrated graphics)
- 2.5G LAN port
- Wi-Fi 6 AX antenna connectors
- Audio jacks (5 + Optical S/PDIF)
- Flash BIOS Button



Figure 3: The rear input/output panel of the motherboard, featuring various USB ports, display outputs, LAN, Wi-Fi antenna connectors, and audio jacks.

## 5. SETUP

### 5.1. CPU Installation

Carefully open the CPU socket lever, align the triangular marker on your AMD AM4 processor with the marker on the socket, and gently place the CPU into the socket. Close the lever to secure the CPU.

### 5.2. RAM Installation

Open the clips on the DDR4 DIMM slots. Align your RAM modules with the slots, ensuring the notch on the module matches the notch in the slot. Press firmly on both ends of the RAM module until the clips snap into place. For dual-channel performance, install modules in the recommended slots (usually A2 and B2, refer to your Quick Installation Guide).

### 5.3. M.2 SSD Installation

Unscrew and remove the M.2 Shield Frozr heatsink from the desired M.2 slot. Insert your M.2 SSD into the slot at a 30-degree angle, then push it down and secure it with the provided M.2 screw/clip. Reattach the M.2 Shield Frozr heatsink, ensuring the thermal pad makes contact with the SSD.

### 5.4. Graphics Card Installation

Open the retention clip on the PCIe 4.0 x16 slot. Align your graphics card with the slot and press firmly until it is seated correctly and the clip snaps into place. Secure the card to your chassis with screws.

### 5.5. Power Connections

Connect the 24-pin ATX main power connector and the 8-pin CPU power connector from your power supply to the corresponding headers on the motherboard.

### 5.6. Peripheral Connections

Connect your USB devices, audio cables, and LAN cable to the rear I/O panel. Attach the Wi-Fi antennas to the designated connectors for wireless connectivity.

## 5.7. Mounting Motherboard in Case

Align the motherboard with the standoffs in your PC case. Gently lower the motherboard into place, ensuring the rear I/O shield aligns with the case opening. Secure the motherboard with the appropriate screws.

## 6. OPERATING

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### 6.1. BIOS/UEFI Setup

Upon first boot, press the **DEL** key to enter the BIOS/UEFI setup. Here you can configure system settings, enable XMP/EXPO profiles for optimal RAM performance, adjust fan curves, and set boot priorities.

### 6.2. Driver Installation

After installing your operating system, install the necessary drivers from the included Driver DVD or download the latest drivers from the MSI official website. This includes chipset drivers, audio drivers, LAN drivers, and Wi-Fi drivers.

### 6.3. Software Utilities

MSI provides several software utilities to enhance your experience:

- **MSI Center:** A unified software platform for system monitoring, tuning, and customization, including Mystic Light RGB control.
- **Mystic Light:** Control the RGB LED lighting on your motherboard and compatible peripherals, offering 16.8 million colors and 29 effects.

## 7. MAINTENANCE

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### 7.1. BIOS Updates

Regularly check the MSI website for the latest BIOS updates to ensure compatibility with new processors and improved system stability. The motherboard supports **Flash BIOS Button** functionality, allowing you to update the BIOS without a CPU, RAM, or graphics card installed.

### 7.2. Cleaning

Periodically clean your motherboard and PC components to prevent dust buildup, which can affect performance and longevity. Use compressed air to remove dust from heatsinks, fans, and other components. Ensure the system is powered off and unplugged before cleaning.

## 8. TROUBLESHOOTING

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### 8.1. EZ Debug LED

The motherboard features EZ Debug LEDs to help diagnose issues during startup. These LEDs indicate the status of key components:

- **CPU LED:** Indicates an issue with the CPU.
- **DRAM LED:** Indicates an issue with the memory.
- **VGA LED:** Indicates an issue with the graphics card.
- **BOOT LED:** Indicates an issue with the boot device.

If an LED remains lit, troubleshoot the corresponding component. For example, if the DRAM LED is on, reseal the RAM modules or try different modules.

## 8.2. Common Issues

- **No Display:** Ensure the graphics card is properly seated and connected to the monitor. If using integrated graphics, ensure your CPU supports it and the monitor is connected to the motherboard's display output.
- **System Instability:** Check RAM compatibility and ensure modules are correctly installed. Update BIOS and drivers.
- **Wi-Fi Connectivity Issues:** Ensure Wi-Fi antennas are securely connected. Install or update Wi-Fi drivers.

## 9. SPECIFICATIONS

Feature	Specification
Brand	MSI
Model Name	MPG B550 GAMING EDGE WIFI
CPU Socket	Socket AM4
Compatible Processors	AMD 3rd Generation Ryzen, AMD Ryzen 5000 Series
Chipset Type	AMD B550
RAM Memory Technology	DDR4
Memory Slots	4 (Dual Channel)
Max Memory Capacity	128 GB
Memory Clock Speed	4866 MHz (OC)
PCIe Slots	1x PCIe 4.0 x16, 2x PCIe 3.0 x1
M.2 Slots	2 (1x Lightning Gen 4 with M.2 Shield Frozr)
SATA Ports	6x SATA 6Gb/s
USB 3.2 Gen 2 Ports	1x Type-A, 1x Type-C (Rear)
USB 3.2 Gen 1 Ports	2x Type-A (Rear), 1x Header (Front)
USB 2.0 Ports	2x Type-A (Rear), 2x Headers (Front)
Wireless Type	AX Wi-Fi 6, Bluetooth 5.1
LAN	2.5G Realtek RTL8125B LAN Controller
Audio	Realtek ALC1200 Codec, 7.1-Channel High Definition Audio
Form Factor	ATX
Dimensions	12 x 9.6 x 1.5 inches
Item Weight	4 pounds

## 10. OFFICIAL PRODUCT VIDEOS

### [MPG B550 Motherboards Overview](#)

Your browser does not support the video tag.

This video provides an overview of the MSI MPG B550 series motherboards, highlighting key features and design elements. It showcases the aesthetic and some functional aspects of the motherboard.

## 11. WARRANTY AND SUPPORT

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For detailed warranty information and technical support, please visit the official MSI website or refer to the warranty card included in your product package. You can also register your product online for additional benefits and support.

MSI provides comprehensive support resources, including FAQs, driver downloads, and troubleshooting guides, to ensure optimal performance and longevity of your motherboard.

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