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› [MAXSUN Motherboard B550 Terminator Gaming M-ATX PC Motherboard User Manual](#)

## MAXSUN B550M

# MAXSUN Motherboard B550 Terminator Gaming M-ATX PC Motherboard User Manual

## INTRODUCTION

This user manual provides detailed instructions for the MAXSUN B550 Terminator Gaming M-ATX PC Motherboard. It covers essential information regarding product features, installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your system.



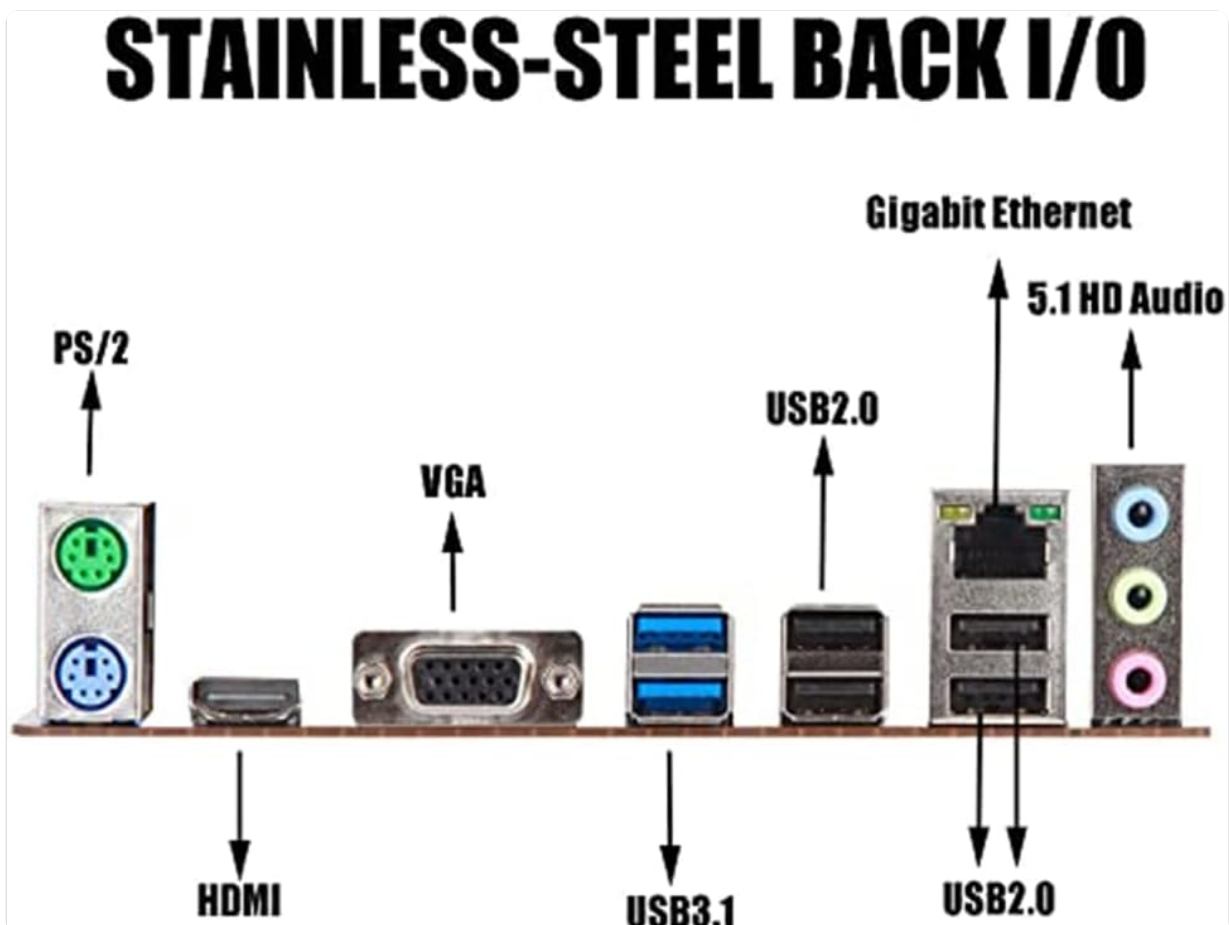
The MAXSUN B550 Terminator Gaming M-ATX Motherboard shown with its retail packaging.

## KEY FEATURES

- **AMD AM4 Socket:** Supports all AMD 1st & 2nd gen Ryzen, Ryzen 3000, Ryzen 4000, and Ryzen 5000 series processors without Radeon graphics. (Note: BIOS Flash may be required for Ryzen 3000, 4000, 5000 Series APU with Radeon Graphics).
- **Strong Power Design:** Features 4+2 Phases pure digital PWM with 24 low internal resistance MOS and R22 Ultra-Low Temperature Coil Solid State Inductor for stable power delivery.
- **Optimized Thermal Solution:** Equipped with VRM heatsinks with underneath thermal pads and southbridge hollow heatsinks, providing a large contact area for MOSFETs and chokes to efficiently dissipate heat.
- **Faster Connectivity:** Includes Dual Channel DDR4 Memory (XMP Up To 3800MHz), Dual Ultra Durable PCIe 4.0 x16 Slots, Ultra-Fast NVMe PCIe 4.0 x4 M.2 SSD Connectors, USB 3.1, HDMI/VGA (available with APU), and 5.1 HD Audio.
- **Durable Network Filter Module:** Constructed with durable materials, significantly optimizing network delay and reducing packet loss rate.

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An overview video showcasing the key features and design elements of the MAXSUN B550 Terminator motherboard.



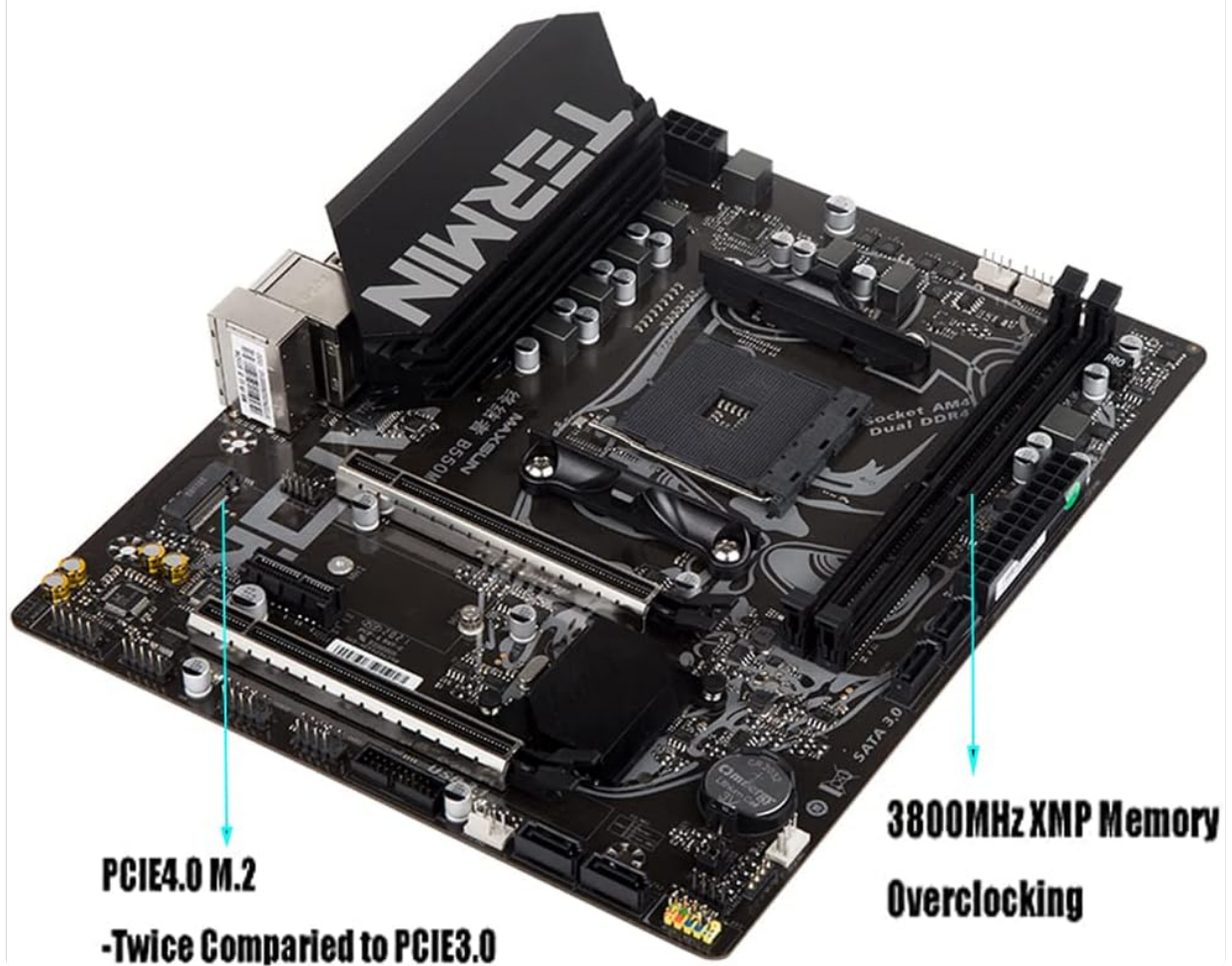
Close-up view of the motherboard's stainless-steel back I/O panel, featuring PS/2, HDMI, VGA, USB 3.1, USB 2.0, Gigabit Ethernet, and 5.1 HD Audio ports.



The motherboard features two stainless steel PCIe slots designed to support bulky and heavy graphics cards, extending their lifespan.



# DDR4 & M.2 SLOTS



View of the dual DDR4 memory slots supporting XMP up to 3800MHz and the PCIe 4.0 M.2 slot for ultra-fast NVMe SSDs.

# MAXSUN B550M TERMINATOR



Close-up of the motherboard's power delivery system, highlighting the 4+2 phases pure digital PWM with 24 low internal resistance MOS and R22 Ultra-Low Temperature Coil Solid State Inductor for stable power.

## SETUP AND INSTALLATION

Before beginning installation, ensure your workspace is clean and static-free. Handle the motherboard by its edges to avoid damaging components.

### 1. CPU Installation

- Locate the AM4 CPU socket on the motherboard.
- Lift the load lever on the side of the socket.
- Carefully align the triangular marker on your AMD Ryzen CPU with the marker on the socket.
- Gently place the CPU into the socket. Do not force it.
- Lower the load lever to secure the CPU.

### 2. Memory (RAM) Installation

- Open the clips on both ends of the DDR4 memory slots.
- Align the notch on the DDR4 memory module with the key in the slot.
- Press down firmly on both ends of the memory module until the clips snap into place.

### 3. M.2 SSD Installation

- Locate the M.2 slot on the motherboard.
- Remove the M.2 standoff screw.
- Insert the M.2 SSD into the slot at an angle.
- Gently push down the SSD and secure it with the standoff screw.

### 4. Graphics Card (GPU) Installation

- Open the retention clip on the primary PCIe 4.0 x16 slot.
- Align your graphics card with the slot and press down firmly until it clicks into place.
- Secure the graphics card to your PC case with screws.

### 5. Power Connections

- Connect the 24-pin ATX power connector from your power supply to the motherboard.
- Connect the 8-pin (or 4+4-pin) CPU power connector to the motherboard.
- Connect any necessary PCIe power cables from your power supply to your graphics card.

## OPERATING INSTRUCTIONS

### BIOS Update Procedure

Updating your motherboard's BIOS can improve compatibility, stability, and performance. Follow these steps carefully:

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A step-by-step guide on how to update the BIOS for MAXSUN motherboards using a USB storage device.

1. **Prepare USB Storage Device:** Format a USB storage device (e.g., USB flash drive) to FAT32 format. Other boot disks like PE or DOC cannot be used.
2. **Download BIOS File:** Visit the official MAXSUN support site ([www.maxsun.com.cn/en](http://www.maxsun.com.cn/en)) to download the latest BIOS file for your MS-Terminator B550M motherboard. Unzip the downloaded file.
3. **Copy EFI Folder:** Copy the entire extracted EFI folder to the root directory of the USB storage device you prepared.
4. **Remove Drives:** Before updating the BIOS, remove all hard drives (including M.2 and SATA SSDs) from the motherboard.
5. **Enter BIOS:** Insert your USB storage device into a USB port on the motherboard. Power on the system and repeatedly press the "Delete" key to enter the BIOS interface.
6. **Load Optimized Defaults:** In the BIOS, press "F9" and then "Enter" to load optimized defaults. Navigate to the "Startup" tab and ensure "Flash Write Protect" is set to "Disabled". Then press "F10" and "Enter" to save and reset.

7. **Select USB Boot Device:** As the system restarts, repeatedly press the "F11" key to enter the boot device selection menu. Select the USB storage device boot option that starts with "UEFI:".
8. **Automatic Update:** The system will automatically execute the program to update the BIOS. This process may take a few minutes.
9. **Unplug USB:** When the screen displays "FS0:\EFI\BOOT>" or "FPT Operation Successful", unplug your USB storage device. Otherwise, the system will repeat the update.
10. **Restart and Enter New BIOS:** Press "Ctrl+Alt+Delete" at the same time. The system will automatically restart and enter the NEW BIOS.
11. **Load Optimized Defaults (New BIOS):** In the new BIOS, press "F9" and "Enter" to load optimized defaults. Then press "F10" and "Enter" to save and reset.

## MAINTENANCE

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Regular maintenance helps prolong the life of your motherboard and ensures stable system operation.

- **Dust Removal:** Periodically use compressed air to clean dust from the motherboard, CPU cooler, and case fans. Dust accumulation can lead to overheating.
- **Check Connections:** Ensure all power cables, data cables (SATA, M.2), and component connections (RAM, GPU) are securely seated. Loose connections can cause system instability.
- **BIOS Updates:** Keep your BIOS updated to the latest version as recommended by MAXSUN to benefit from performance improvements, bug fixes, and enhanced compatibility.
- **Software Updates:** Regularly update your operating system drivers (chipset, graphics, audio, network) to maintain system health and security.

## TROUBLESHOOTING

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If you encounter issues with your MAXSUN B550 Terminator motherboard, refer to the following common troubleshooting steps:

- **No Display/Boot:**
  - Check all power connections (24-pin ATX, 8-pin CPU, GPU power).
  - Reseat RAM modules firmly in their slots. Try booting with only one RAM stick.
  - Ensure the graphics card is properly seated and connected.
  - Clear CMOS (Complementary Metal-Oxide-Semiconductor) by removing the CMOS battery for a few minutes or using the clear CMOS jumper (refer to motherboard layout for location).
- **System Instability/Crashes:**
  - Check CPU and GPU temperatures to ensure they are within safe operating limits.
  - Run memory diagnostic tools to check for RAM errors.
  - Ensure all drivers are up to date.

- Perform a BIOS update to the latest version (refer to Operating Instructions section).

• **Peripheral Not Detected:**

- Verify the peripheral is correctly connected to the appropriate port (USB, SATA, M.2).
- Check device manager in your operating system for driver issues.
- Ensure the peripheral is enabled in the BIOS settings.

• **BIOS Update Issues:**

- Ensure the USB drive is formatted to FAT32 and the BIOS file is correctly placed in the root EFI folder.
- Double-check that all hard drives were disconnected before attempting the BIOS update.
- If the update fails, try a different USB port or a different USB drive.

**TECHNICAL SPECIFICATIONS**

Feature	Specification
Model Name	B550M
CPU Socket	Socket AM4
Chipset Type	AMD B550
Compatible Processors	All Ryzen 5000 Series, All Ryzen 3000 Series
RAM Memory Technology	DDR4
Memory Clock Speed	3800 MHz
Compatible Devices	Personal Computer
Platform	Linux, Windows
Package Dimensions	11.22 x 10.87 x 2.32 inches
Item Weight	2.09 pounds
Batteries Required	1 CR2032 battery

**WARRANTY AND SUPPORT**

MAXSUN products are designed for reliability and performance. For specific warranty terms and conditions, please refer to the official MAXSUN website or the warranty card included with your product. Keep your proof







of purchase for warranty claims.

For additional support, including drivers, utilities, and further documentation, please visit the official MAXSUN support website.

You can also refer to the comprehensive [User Manual \(PDF\)](#) for more detailed information.

Related Documents - B550M

	<p><a href="#">MAXSUN MS-Challenger H610M Motherboard Quick Guide</a></p> <p>This quick guide provides installation instructions, specifications, and BIOS setup details for the MAXSUN MS-Challenger H610M motherboard. Learn about component compatibility, port connections, and system configuration.</p>
	<p><a href="#">Maxsun MS-Challenger B850M-K Motherboard Product Specifications</a></p> <p>Detailed specifications for the Maxsun MS-Challenger B850M-K motherboard, including CPU support, chipset, memory, expansion slots, storage, networking, USB connectivity, audio, and rear panel I/O.</p>
	<p><a href="#">Maxsun MS-Terminator B760M D5 V2 Motherboard Technical Specifications</a></p> <p>Comprehensive technical specifications for the Maxsun MS-Terminator B760M D5 V2 motherboard, covering CPU support, memory, PCIe slots, storage, networking, USB ports, internal/external I/O, and special features. Includes product packaging details and a description of the motherboard layout.</p>
	<p><a href="#">Maxsun MS-iCraft X870M Motherboard Specifications</a></p> <p>Comprehensive technical specifications for the Maxsun MS-iCraft X870M motherboard, detailing its form factor, CPU support, memory, expansion slots, connectivity, and more.</p>
	<p><a href="#">MAXSUN Motherboard User Manual - Installation, BIOS, and Interface Guide</a></p> <p>Comprehensive user manual for MAXSUN motherboards, covering onboard pins, back I/O, BIOS settings, and hardware monitoring. Get detailed instructions for installation and setup.</p>



### [Maxsun MS-eSport B650ITX WIFI ICE Motherboard Specification](#)

Comprehensive technical specifications and features of the Maxsun MS-eSport B650ITX WIFI ICE Mini-ITX motherboard, including chipset, CPU socket, memory, expansion slots, storage, I/O ports, and system compatibility.