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msi B550 TOMAHAWK MAX WIFI

MSI MAG B550 Tomahawk MAX WiFi Gaming Motherboard User Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI MAG B550 Tomahawk MAX WiFi Gaming Motherboard. The MAG series is engineered for durability and user experience, offering a robust platform for AMD Ryzen processors.



Figure 1: MSI MAG B550 Tomahawk MAX WiFi Motherboard and Packaging

The MSI MAG B550 Tomahawk MAX WiFi motherboard is designed to support AMD Ryzen 5000 Series, 5000 G-Series, 4000G-Series, and 3000 Series processors. It features DDR4 memory support up to 4400(OC) MHz, PCIe 4.0, Lightning Gen 4 x4 M.2 with M.2 Shield Frozr, AMD Turbo USB 3.2 Gen 2, Wi-Fi 6E, Bluetooth 5.2, and 2.5Gbps LAN.

1. CPU Installation

Ensure the motherboard is placed on a non-conductive surface. Carefully open the CPU socket lever and align your AMD Ryzen processor with the socket, matching the golden triangle on the CPU to the corresponding mark on the socket. Gently lower the CPU into place without force, then close the lever to secure it.



Figure 2: AM4 CPU Socket on the Motherboard

2. RAM Installation

Locate the four DDR4 DIMM slots. For optimal performance with two RAM modules, refer to the motherboard manual for the recommended slot configuration (typically A2 and B2 for dual-channel operation). Open the clips on both ends of the DIMM slot, align the RAM module's notch with the slot's key, and press firmly until the clips snap into place.

3. M.2 SSD Installation

The motherboard features Lightning Gen 4 x4 M.2 slots with M.2 Shield Frozr for optimal thermal management. Unscrew and remove the M.2 Shield Frozr cover. Insert your M.2 SSD into the slot at an angle, then gently push it down and secure it with the provided screw or latch. Reattach the M.2 Shield Frozr cover.

4. Motherboard Installation into Case

Align the motherboard with the standoffs in your PC case. Ensure the rear I/O shield (if not pre-installed) is correctly positioned in the case opening. Gently lower the motherboard onto the standoffs and secure it with screws. Connect the necessary power cables from your power supply to the motherboard (24-pin ATX power and 8-pin CPU power).



Figure 3: Motherboard with various slots and connectors

OPERATING

1. BIOS Update (Flash BIOS Button)

To update the BIOS without a CPU or RAM installed, save the BIOS file (renamed to MSI.ROM) to the root directory of a FAT32 formatted USB drive. Insert the USB drive into the designated 'Flash BIOS' USB port on the rear I/O panel. Press the 'Flash BIOS Button' and wait for the LED to stop flashing, indicating the update is complete. Ensure the power supply is connected and turned on during this process.

2. Network Connectivity

The motherboard supports Wi-Fi 6E and Bluetooth 5.2. Attach the included Wi-Fi antennas to the connectors on the rear I/O panel for wireless network access. The integrated 2.5Gbps LAN port provides a high-speed wired network connection.

3. USB Connectivity

The rear I/O panel includes multiple USB ports, including USB 3.2 Gen 2 (Type-A and Type-C) for high-speed data transfer, and standard USB 2.0 ports. Ensure you connect devices to the appropriate ports for optimal performance.



Figure 4: Rear I/O Panel with various ports

4. Video Outputs

The motherboard features HDMI and DisplayPort outputs on the rear I/O panel. These outputs are functional only when using an AMD Ryzen processor with integrated graphics (G-series CPUs). If using a processor without integrated graphics, a discrete graphics card installed in a PCIe slot is required for video output.

MAINTENANCE

1. Thermal Solution

The motherboard incorporates a Premium Thermal Solution with an Extended Heatsink Design, additional choke thermal pads rated for 7W/mk, and a PCB with 2oz thickened copper. These features are designed to maintain stable temperatures for high-performance systems and extended operation. Regularly ensure proper airflow within your PC case to maximize cooling efficiency.

2. BIOS Management

Keep your BIOS updated to ensure compatibility with new hardware and to benefit from performance optimizations and bug fixes. Always download the correct BIOS version for your specific motherboard model from the official MSI website.

TROUBLESHOOTING

1. BIOS Update Issues

If you encounter issues updating the BIOS using the Flash BIOS Button, ensure your USB drive is formatted to FAT32 and the BIOS file is correctly renamed to MSI.ROM in the root directory. Some USB drives may not be

compatible; try using a different USB drive if the issue persists.

2. No Video Output

Verify that your AMD Ryzen processor has integrated graphics if you are not using a discrete graphics card. If your CPU lacks integrated graphics, a dedicated graphics card must be installed in the primary PCIe slot for display output.

3. PCIe/M.2 Lane Sharing

The motherboard may share PCI lanes between PCIe connectors and M.2 slots. Refer to the detailed motherboard manual for specific configurations and potential limitations when populating multiple M.2 drives or PCIe expansion cards to ensure optimal performance for all installed components.

SPECIFICATIONS



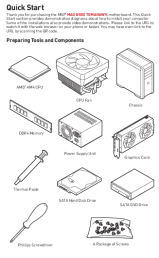


Feature	Detail
Brand	MSI
Model Name	MAG B550 TOMAHAWK MAX WIFI
CPU Socket	Socket AM4
Compatible Processors	AMD Ryzen 5000 Series, 5000-G Series, 4000-G Series and 3000 Series
Chipset Type	AMD B550
RAM Memory Technology	DDR4
Memory Speed	Up to 4400(OC) MHz
PCIe Support	PCIe 4.0
M.2 Slots	Lightning Gen 4 x4 M.2 with M.2 Shield Frozr
USB Ports	AMD Turbo USB 3.2 Gen 2, USB-C
Wireless Type	Wi-Fi 6E, Bluetooth 5.2
LAN	2.5Gbps LAN with LAN Manager
Video Outputs	HDMI, DisplayPort
Form Factor	ATX
Item Weight	3.75 pounds
Product Dimensions	12 x 9.6 x 2.5 inches

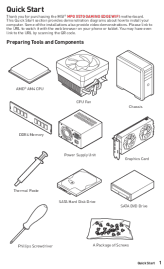
WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official MSI website or contact MSI customer

service directly. Product registration may be required to activate your warranty.

Related Documents - B550 TOMAHAWK MAX WIFI

	<p>MSI MAG B550 TOMAHAWK MAX WIFI Motherboard User Guide</p> <p>Comprehensive user guide for the MSI MAG B550 TOMAHAWK MAX WIFI motherboard, detailing installation, setup, specifications, and troubleshooting for PC builders. Includes multi-language support.</p>
	<p>MSI B550 GAMING GEN3 Motherboard User Guide</p> <p>Comprehensive user guide for the MSI B550 GAMING GEN3 Motherboard, covering installation, specifications, and features. Includes detailed instructions for CPU, RAM, and front panel connections, as well as safety information and BIOS setup.</p>
	<p>MSI MAG B550 TOMAHAWK Motherboard Quick Start Guide</p> <p>A comprehensive quick start guide for the MSI MAG B550 TOMAHAWK motherboard, detailing the installation of essential components like the CPU, RAM, graphics card, and storage drives, along with safety precautions and power connection instructions.</p>
	<p>MSI MAG B550 TOMAHAWK MAX WIFI Motherboard User Guide</p> <p>Comprehensive user guide for the MSI MAG B550 TOMAHAWK MAX WIFI Motherboard, covering installation, components, specifications, and setup. Learn how to build your PC with MSI.</p>
	<p>MSI MAG B850 TOMAHAWK WIFI Motherboard Benutzerhandbuch</p> <p>Umfassendes Benutzerhandbuch für das MSI MAG B850 TOMAHAWK WIFI Motherboard. Enthält detaillierte Anleitungen zur Installation, technische Spezifikationen, besondere Funktionen und Support-Informationen für das AM5-Plattform-Motherboard mit DDR5 und PCIe 5.0.</p>



[MSI MPG X570 GAMING EDGE WIFI Motherboard Quick Start Guide](#)

A comprehensive quick start guide for the MSI MPG X570 GAMING EDGE WIFI motherboard, detailing the installation of essential components like the CPU, RAM, and graphics card, along with safety information and connection instructions.