B450 TOMAHAWK MAX

MSI B450 TomaHawk Maximum Socket AM4 ATX Motherboard

Product Overview

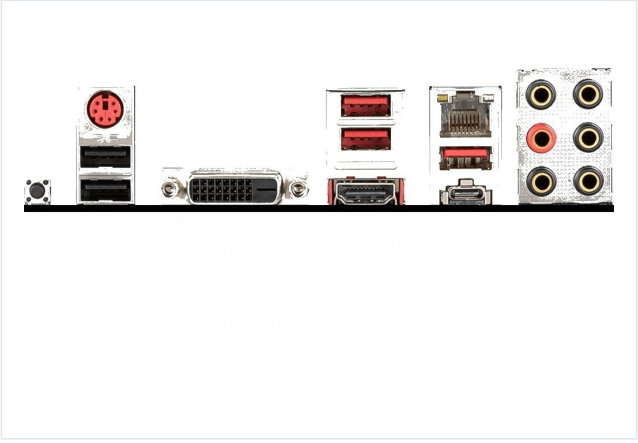
MSI B450 TomaHawk Maximum Socket 3rd gen AM4 ATX Motherboard, Supports up to Ryzen 9 in the AM4 Socket, AMD B450 Chipset, 4x DDR4 Memory slots, Support up to 128GB of system Memory, 6x SATA 6Gb/s ports, 1x M.2 slot, 1x HDMI, 1x DVI-D, 2x PCI-e x16, 3x PCI-e x1, 1x Realtek 8111H Gigabit LAN controller, USB 3.2 ports, Crossfire, 7.1-channel high definition audio, Supports 1st / 2nd / 3rd Gen AMD Ryzen











Specifications

Overview:

Military style with extended heatsink design for better thermal solution, plus DDR4 Boost, Core Boost, Turbo M.2 and USB 3.2 Gen2 connector

- Supports 1st, 2nd and 3rd Gen AMD Ryzen / Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzen with Radeon Graphics / Athlon with Radeon Vega Graphics Desktop Processors for Socket AM4
- Supports DDR4 Memory, up to 4133(OC) MHz
- Extended Heatsink Design: MSI extended PWM heatsink and enhanced circuit design ensures even high-end processors to run in full speed.
- Lightning Fast Game experience: 1x TURBO M.2, AMD Turbo USB 3.2 GEN2, Store MI technology
- Core Boost: With premium layout and fully digital power design to support more cores and provide better performance.
- DDR4 Boost:Advanced technology to deliver pure data signals for the best gaming performance and stability.
- MULTI-GPU: With STEEL ARMOR PCI-E slots. Supports 2-Way AMD Crossfire
- Audio Boost: Reward your ears with studio grade sound quality for the most immersive audio experience.
- Flash BIOS Button: Simply use a USB key to flash any BIOS within seconds, without installing a CPU, memory or graphics card.

Features:

DIY FRIENDLY

MSI motherboards feature tons of convenient and smart design, such as convenient pin-header keep out zone, friendly SATA & USB location and so on, so DIY users can pick and choose any gaming rig they want.

HARDWARE

MSI motherboards feature tons of convenient and smart design for DIY users, countless system tuning and troubleshooting tools are at your disposal to push your system to new heights and satisfy even the most demanding tweaker. Makes it so easy to install your own motherboard and gaming rig without any issue.

BIOS AND SOFTWARE

Complete your high performance experience with an array of performance enhancing software from MSI. From a loaded yet easy to use BIOS to potent live system tools, get the most out of your motherboard at any moment.

Cooling

Cooling your PC is essential for reliable performance. MSI motherboards feature excellent power design with solid and heavy heatsink. We've made sure to include enough fan headers with full control to allow you to cool your system any way you want.

Compatibility

Every MSI motherboards are certified by strict mechanic that feature convenient pin-header keep out zone, friendly SATA & USB location for compatibility with the widest range of components and devices, so DIY user can pick and choose the

components they want. More than that, we offer a dedicated Qualified Vendor List (QVL) for the most critical part - memory. Combining with MSI DDR4 Boost technology, we provide the maximum compatibility even over clocking, so you confirm and choose any gaming rig as you want.

ENHANCED PERFORMANCE

MSI motherboards feature all the latest solution for enthusiast gamers and prosumers. CPU and memory enhancement and fast storage and USB transfer speed are ready to be on the battlefield.

CPU

Power on your RYZEN processor with optimized circuit layouts and high quality power delivery parts for an incredibly stable operation.

STORAGE

MSI motherboards support all the latest storage standards, which allows users to connect any ultra-fast storage device. Start games faster, load levels faster and have a real advantage over your enemies.

USB

Read and write your files over USB faster than ever. MSI offers a wide variety of options to connect and boost your USB devices, delivering lightning-fast transfer speeds up to 10Gb/s

MEMORY

Optimized layout design and a fully isolated memory circuitry ensures perfect stability and performance. You never have to worry about your system crashing during games with MSI DDR4 BOOST.

IN-GAME ADVANTAGE

MSI motherboards are built with enhanced audio and advanced LAN networking capabilities that turn any gaming experience into an immerse one.

AUDIO

Deliver the highest sound quality through the use of premium quality audio components and get the most immersive sound experience when gaming. MSI motherboards let you enjoy breathtaking, gaming-changing sound.

EXHILARATING AND INSPIRING

Each MSI motherboard is built based on the specific topic in order to match different tastes and favors. Furthermore, MSI also adopts the modern style to design the heatsink through huge surface and sleek but simple cuts in order to make the heatsink and appearance looks ripped and powerful. Combined with neutral color, such as black, grey and silver, as the main background, MSI motherboard can perfect fit different RGB LED effects and strongly shows the gamers tunes.

MYSTIC LIGHT

Illuminate with MSI Mystic Light and bring the motherboard RGB lighting to life. Choose from millions of colors and sync across compatible devices.

Industrial Design

MAG series motherboards are focused on functionality and durability. Descended from MSI Arsenal GAMING, these motherboards take their likeliness from rugged military equipment and are ready for battle.

LOYAL COMRADE

With years of experience, MSI is no stranger to building high-performance motherboards. Our R&D and engineering teams have reviewed countless designs, evaluated a wide selection of high quality components, and developed products for reliability even under extreme conditions.

COMPONENTS

Using only the finest quality components and integrating the latest technological innovations delivers the best possible professional experience. Rigorous quality testing under the most extreme conditions ensures a super reliable, long-lasting and high performance motherboard.

Specifications:

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Specifications	
Product Code	B450 TOMAHAWK MAX
Quick Spec	
CPU (Max Support)	RYZEN 9
Socket	AM4
Chipset	AMD B450 Chipset
DDR4 Memory	1866/ 2133/ 2400/ 2667Mhz (by JEDEC)
	Supports 2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466 MHz (by A-XMP OC MODE)
	For AMD Other CPU
	Supports 2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466/ 4000/ 4133 MHz (by A-XMP OC MODE)
	For AMD Ryzen Gen3 (R5/R7/R9)
Memory Channel	Dual
DIMM Slots	4
Max Memory (GB)	128
PCI-E x16	2
PCI-E Gen	Gen3(PCI_E1), Gen2(PCI_E4)
PCI-E x1	3
SATAIII	6
M.2 Slot	1
RAID	0/1/10
TPM (header)	1
LAN	1x Realtek 8111H Gigabit LAN controller
USB 3.2 ports (Front)	2(Gen1, Type A)
USB 3.2 ports (Rear)	1(Gen2, Type C), 1(Gen2, Type A), 2(Gen1, Type A)
USB 2.0 ports (Front)	4
USB 2.0 ports (Rear)	2
Serial ports(Front)	1
Audio ports (Rear)	Realtek ALC892 Codec
DVI-D	1
HDMI	1
DirectX	12
Form Factor	ATX
CrossFire	Y

Operating System	Support for Windows 10 64-bit
	* To support Windows 7 64-bit, you must install an AMD Pinnacle Ridge & Summit Ridge CPU.
	Support for Windows 7 64-bit
Detailed Spec	
Processor	Supports 1st, 2nd and 3rd Gen AMD Ryzen / Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzen with Radeon Graphics/ Athlon with Radeon Vega Graphics Desktop Processors for Socket AM4
Chipset	AMD B450 Chipset
Memory	4 x DDR4 memory slots, support up to 128GB *ComboPI 1.0.0.3-based and above BIOS are required.
	Supports 1866/ 2133/ 2400/ 2667Mhz (by JEDEC)
	For AMD Ryzen Gen3 (R5/R7/R9)
	Supports 2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466/ 4000/ 4133 MHz (by A-XMP OC MODE)
	For AMD Other CPU
	Supports 2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466 MHz (by A-XMP OC MODE)
	Dual channel memory architecture
	Supports non-ECC UDIMM memory
	Supports ECC UDIMM memory (non-ECC mode)
Slots	1 x PCIe 3.0 x16 slot (PCI_E1)
	1st, 2nd and 3rd Gen AMD Ryzen processors support x16 speed
	Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzen with Radeon Graphics processors support x8 speed
	1 x PCIe 2.0 x16 slot (PCI_E4, supports x4 mode)
	3 x PCIe 2.0 x1 slots
	1. PCI_E4 will run x2 speed when installing devices in PCI_E2/ PCI_E3 slot.
Onboard Graphics	1 x DVI-D port, support a maximum resolution of 1920x1200 @60Hz
	1 x HDMI 2.0b with HDR port, supports a maximum resolution of 4K @60Hz
	1. Only support when using Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzen with Radeon Graphics/ Athlon with Radeon Vega Graphics processors
	2. Maximum shared memory of 2048 MB
	3. Graphics specifications may vary depending on the CPU installed.
Multi-GPU	Supports 2-Way AMD CrossFire Technology

Storage	AMD CPU
	2 x SATA 6Gb/s ports
	1 x M.2 slot (Key M)
	Supports PCIe 3.0 x4 (1st, 2nd and 3rd Gen AMD Ryzen / Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzen with Radeon Graphics) or PCIe 3.0 x2 (Athlon with Radeon Vega Graphics) and SATA 6Gb/s
	Supports 2242/ 2260 /2280/ 22110 storage devices
	AMD B450
	4 x SATA 6Gb/s ports
	1. SATA5 and SATA6 ports will be unavailable when installing a M.2 device in M.2 slot.
RAID	AMD B450
	Supports RAID 0, RAID1 and RAID 10 for SATA storage devices
USB	AMD B450
	1 x USB 3.2 Gen2 (SuperSpeed USB 10Gbps) Type-C port on the back panel
	1 x USB 3.2 Gen2 (SuperSpeed USB 10Gbps) Type-A port on the back panel
	2 x USB 3.2 Gen1 (SuperSpeed USB) ports available through the internal USB 3.2 Gen1 connector
	6 x USB 2.0 (High-speed USB) ports (2 Type-A ports on the back panel, 4 ports available through the internal USB 2.0 connectors)
	AMD CPU
	2 x USB 3.2 Gen1 (SuperSpeed USB) Type-A ports on the back panel
Audio	Realtek ALC892 Codec
	7.1-Channel High Definition Audio
LAN	1 x Realtek 8111H Gigabit LAN controller

Internal connectors	1 x 24-pin ATX main power connector
	1 x 8-pin ATX 12V power connector
	6 x SATA 6Gb/s connectors
	2 x USB 2.0 connectors (support additional 4 USB 2.0 ports)
	1 x USB 3.2 Gen1 connectors (support additional 2 USB 3.2 Gen1 ports)
	1 x 4-pin CPU fan connector
	1 x 4-pin water-pump-fan connector
	4 x 4-pin system fan connectors
	1 x TPM module connector
	1 x Front panel audio connector
	2 x System panel connectors
	1 x Chassis Intrusion connector
	1 x Serial Port connector
	1 x Clear CMOS jumper
	2 x 5050 RGB LED strip 12V connectors
Back panel ports	1. Flash BIOS Button
	2. PS/2 Combo Port
	3. USB 3.2 Gen1
	4. LAN Port
	5. HD Audio Connectors
	6. USB 2.0 Port
	7. DVI-D Port
	8. HDMI Port
	9. USB 3.2 Gen2 Type A+C
Dimensions	12 in. x 9.6 in. (30.5 cm x 24.4 cm)
	ATX Form Factor
Mounting	9 mounting holes
Operating System	Support for Windows 10 64-bit
	Support for Windows 7 64-bit
	* To support Windows 7 64-bit, you must install an AMD Pinnacle Ridge & Summit Ridge CPU.
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	2. These pictures are for reference only and may vary without notice.

Product Information Online

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Product page:
https://www.comx-computers.co.za/B450-TOMAHAWK-MAX-MSI-B450-TomaHawk-Maximum-Socket-AM4-ATX-Motherboard-p-253296.php

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