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Product Specification Sheet

B450M MORTAR MAX

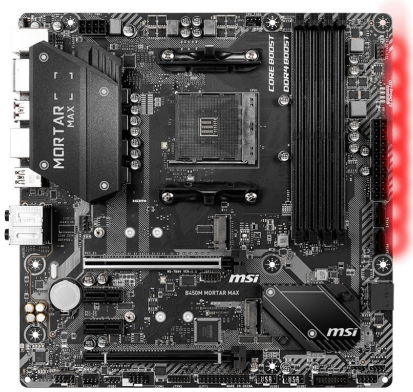
MSI B450 Mortar Maximum 3rd Gen Socket AM4 mATX Motherboard

Product Overview

MSI B450 Mortar Maximum 3rd Gen Socket AM4 mATX Motherboard, Supports up to Ryzen 9 in the AM4 Socket, AMD B450 Chipset, 4x DDR4 Memory slots, Support up to 128GB of system Memory, 4x SATA 6Gb/s ports, 2x M.2 slot, 1x HDMI, 1x DisplayPort, Supports 1st / 2nd / 3rd Gen AMD Ryzen, 1 x PCI-e 3.0 x16 slot, 1 x PCI-e 2.0 x16 slot, 2 x PCI-e 2.0 x1 slots, USB 3.2 Gen2 Type C ports, 7.1-channel high definition audio, 1 x Realtek RTL8111h-cg Gigabit LAN controller, Optical S/PDIF OUT











Specifications

Overview:

Military style with Extended heatsink design for better thermal solution, 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 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 PCI-E STEEL ARMOR slot. Supports 2-Way AMD Crossfire
- 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 been designed with tons of smart features for convenient setup and usage, such as pin-header keep out zone, friendly SATA & USB location and multiple cooling solutions, so DIY users can pick and choose any gaming rig they want.

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.

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.

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.

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.

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.

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.

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

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.

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.

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.

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	B450M MORTAR MAX
Quick Spec	
CPU (Max Support)	RYZEN 9
Socket	AM4
Chipset	AMD B450 Chipset
DDR4 Memory	1866/ 2133/ 2400/ 2667Mhz (by JEDEC)
	2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466 MHz (by A-XMP OC MODE)
	For AMD Other CPU
	2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466/ 3733/ 3866/ 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	2
SATAIII	4
M.2 Slot	2
RAID	0/1/10
TPM (header)	1
LAN	1x Realtek RTL8111H-CG
USB 3.2 ports (Front)	2(Gen1, Type A)
USB 3.2 ports (Rear)	1(Gen2, Type C), 1(Gen2, Type A), 4(Gen1, Type A)
USB 2.0 ports (Front)	4
USB 2.0 ports (Rear)	2
Serial ports(Front)	1
Parallel Port(Front)	1
Audio ports (Rear)	Realtek ALC892/ALC897 Codec
DisplayPort	1
HDMI	1
DirectX	12
Form Factor	Micro 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/ 3733/ 3866/ 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)
	Supports x16 speed with 1st, 2nd and 3rd Gen AMD Ryzen processors
	Supports x8 speed with Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzen with Radeon Graphics processors
	Supports x4 speed with AMD Athlon with Radeon Vega Graphics Processors
	1 x PCIe 2.0 x16 slot (PCI_E4, supports x4 mode)
	2 x PCIe 2.0 x1 slots
	1. PCI_E4 slot will be unavailable when an M.2 SSD is installed in the M2_2 slot.
	2. PCI_E2 slot will be unavailable when an expansion card is installed in the PCI_E3 slot.
Onboard Graphics	1 x DisplayPort, support a maximum resolution of 4096x2304 @60Hz, 2560x1600 @60Hz, 3840x2160 @60Hz, 1920x1200 @60Hz
	1 x HDMI 2.0b with HDR port, supports a maximum resolution of 4K @60Hz
	1. Only support when using AMD 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 B450 Chipset
	4 x SATA 6Gb/s ports
	1 x M.2 slots (M2_2, Key M)
	Supports PCIe 2.0 x4 2242/ 2260 /2280 storage devices
	AMD CPU
	1x M.2 slot (M2_1, 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 (AMD Athlon with Radeon Vega Graphics)and SATA 6Gb/s 2242/ 2260 /2280 storage devices
	1. PCI_E4 slot will be unavailable when an M.2 SSD is installed in the M2_2 slot.
RAID	AMD B450 Chipset
	Supports RAID 0, RAID 1 and RAID 10 for SATA storage devices
	Supports RAID 0 and RAID 1 for M.2 NVMe RAID
USB	AMD B450 Chipset
	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
	AMD Processor
	4 x USB 3.2 Gen1 (SuperSpeed USB) Type-A ports on the back panel
Audio	Realtek ALC892/ALC897 Codec
	7.1-Channel High Definition Audio
	Supports S/PDIF output
LAN	1 x Realtek RTL8111H-CG Gigabit LAN controller

Internal connectors	1 x 24-pin ATX 12V power connector
	1 x 8-pin ATX 12V power connector
	4 x SATA 6Gb/s connectors
	2 x USB 2.0 connectors (support additional 4 USB 2.0 ports)
	1 x USB 3.2 Gen1 connector (support additional 2 USB 3.2 Gen1 ports)
	1 x 4-pin CPU fan connector
	3 x 4-pin system fan connectors
	2 x 5050 RGB LED strip 12V connectors
	1 x TPM module connector
	1 x Front panel audio connector
	2 x System panel connectors
	1 x Chassis Intrusion connector
	1 x Clear CMOS jumper
	1 x Serial Port connector
	1 x Parallel Port connector
Back panel ports	1. Flash BIOS Button
	2. PS/2 Combo Port
	3. DisplayPort
	4. LAN Port
	5. USB 3.2 Gen2 Type A
	6. HD Audio Connectors
	7. USB 2.0 Ports
	8. HDMI Port
	9. USB 3.2 Gen1
	10. USB 3.2 Gen2 Type C
	11. Optical S/PDIF OUT
Dimensions	9.6 in. x 9.6 in. (24.4 cm x 24.4 cm)
	m-ATX Form Factor
Mounting	8 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.
Box content	1. MSI does not guarantee the risks or damages caused by changing the cover.
	2. These pictures are for reference only and may vary without notice.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/B450M-MORTAR-MAX-MSI-B450-Mortar-Maximum-3rd-Gen-Socket-AM4-mATX-Motherboard-p-253297.php

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