B450M GAMING PLUS

MSI B450M Gaming Plus AMD B450 Chipset Socket AM4 Motherboard

Product Overview

MSI B450M Gaming Plus AMD B450 Chipset Socket AM4 Motherboard, 2 x DDR4 memory slots, support up to 32GB, Supports 1866/ 2133/ 2400/ 2667Mhz (by JEDEC), Supports 2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466 MHz (by A-XMP OC MODE), 1 x 24-pin ATX main power connector, 1 x 8-pin ATX 12V power connector, 4 x SATA 6Gb/s connectors, 2 x USB 2.0 connectors (supports additional 4 USB 2.0 ports), 2 x USB 3.1 Gen1 connector (supports additional 4 USB 3.1 Gen1 ports), 1 x 4-pin CPU fan connector, 2 x 4-pin system fan connectors, 1 x Front panel audio connector, 2 x System panel connectors, 1 x TPM module connector, 1 x Chassis Intrusion connector, 1 x Serial port connector, 2 x 5050 RGB LED strip 12V connectors, 1 x Clear CMOS jumper, PS/2 Combo Port, LAN, HD Audio Connectors, BIOS Flashback Button, 2 x USB 2.0, DVI-D, HDMI, 3 x USB 3.1 Gen1, m-ATX Form Factor, 24.4 cm x 21.0 cm



Specifications

Features:

Game in Style
Unlimited customization options and packed with exclusive gaming features, MSI PERFORMANCE GAMING motherboards offer the best possible gaming experience.

Stay cool while gaming
Cooling your PC is essential for reliable performance. We've made sure to include enough fan headers with full control to allow you to cool your system any way you want.

FULLY CONTROLLABLE FAN HEADERS
MSI motherboards let you manage speeds and temperatures for all your system and CPU fans, giving you full control to set up a cool & silent system. The fan headers are conveniently placed with the most popular CPU coolers in mind.

Looking cool while keeping cool
High quality materials and smart fan optimizations contribute to cooling all essential components, which is key to making sure your system runs stable at the best performance during long gaming sessions.

AUTODETECT DC OR PWM MODE WITH HYSTERESIS
MSI fan headers automatically detect fans running in DC or PWM mode for optimal tuning of fan speeds and silence. Hysteresis also makes your fans spin up fluently to make sure your system stays silent, no matter what.

TOTAL CONTROL IN BIOS AND SOFTWARE
Total Fan Control allows you to take control of your fans and check your primary system characteristics in a simplified graphical interface. You can also set up to 4 temperature targets for CPU and motherboard, which will adjust the fan speeds automatically.

Your in-game advantage
Outsmart and outperform your opponents in-game using an array of unique MSI GAMING tools. Clever hardware & software tools, created to keep you one step ahead of the competition and boost your skills.

Be the first on the battlefield
This MSI GAMING motherboard supports all the latest storage standards. This allows you to connect any ultra-fast storage device, giving you in-game benefits. Start games faster, load levels faster and have a real advantage over your enemies.

AMD StoreMI
All MSI X470 & B450 motherboards are shipped with StoreMI, the new AMD SSD technology to improve storage performance. This tool helps create a virtual SSD by blending capacity storage, treats flash as primary storage and optimizes data access with monitoring continuously. All these functions can enhance read/write speed for active data and provide fast boot times and application startup.

Turbo M.2
Enjoy a blazing fast system boot up and insanely quick loading of applications and games with MSI motherboards. Delivering speeds up to 32Gb/s per device using Gen3 x4, Turbo M.2 is over 5 times faster than a regular SATA III connection!

XBOOST YOUR STORAGE PERFORMANCE
This great little tool is very simple to use and automatically detects your storage devices connected to the system. When enabled, X-Boost optimizes your SSDs to keep your system fast and maximize storage performance, making sure you reach the battlefield even quicker or saving you a lot of time when transferring data.

SATA MASS STORAGE
We made sure each MSI motherboard comes with enough SATA ports to connect loads of HDDs for long term storage of large files and system backups.

ULTRA-FAST PERFORMANCE, GREAT GAMING EXPERIENCE
All of the next gen storage connectors support NVMe, the fastest storage standard in the world. Simply put, MSI GAMING motherboards offer the best of the best in storage options & performance. Instantly load your favorite games and always be the first on the battlefield with MSI.

Immerse yourself into virtual worlds
Integrating the very best of cutting edge technologies on MSI hardware provides a smooth VR ride. Through joint efforts with major VR brands, combined with unique MSI features geared to VR, MSI brings gamers and VR professionals a vivid and realistic experience in which content truly comes alive.

GET READY TO BE OVERWHELMED BY THE REALMS OF VR
From the start of Virtual Reality, MSI has been deeply involved in making VR Ready hardware in each of its product lines. Whether it's a feature-rich motherboard, a framerate boosting graphics card or a blazing fast complete gaming system, a huge set of VR-supporting features awaits you.

OPTIMIZED FOR THE BEST VR BRANDS
Want the best of the best VR experience without any compromise? MSI motherboards offer everything you need when exploring the possibilities of VR. By closely working with the industries' leading VR vendors, we make sure you get the best possible gaming experience when choosing Virtual Reality.

STRAIGHT INTO THE ACTION WITH ONE CLICK TO VR
Both hard- and software need to be in tune for a smooth VR experience. One Click to VR makes it very fast and easy to get primed for VR. A single click sets all your key components to their highest performance and makes sure other software applications won't impact your virtual adventure.

Sound that pulls you into the game
Get the most immersive sound experience when gaming. MSI Audio Boost delivers the highest sound quality through the use of premium quality audio components. This lets you enjoy breathtaking, game-changing sound to create the most exciting gameplay.

Dominate the game with the lowest latency
Get ready to crush your enemies on the battlefield with MSI GAMING LAN. Featuring the highest quality components tuned to deliver the best online gaming experience without lag.

Unmatched memory performance
MSI motherboards are crammed with features to fuel your gaming rig's memory with more speed, higher overclockability and increased stability.

LAN PROTECT TO SHIELD YOUR SYSTEM AGAINST POWER SURGES
Featuring 15KV anti-surge protection to shield your network from lightning strikes and static electricity, the LAN Protect connector is designed to give you a reliable networking experience.

Unmatched memory performance
MSI motherboards are crammed with features to fuel your gaming rig's memory with more speed, higher overclockability and increased stability.

ENHANCED STABILITY WITH OPTIMIZED MEMORY LAYOUT
Optimized traces and a fully isolated memory circuitry ensures perfect stability and performance, so you never have to worry about your system crashing during games.

MEMORY SPEED IMPACTS PERFORMANCE
The technical enhancements of DDR4 Boost allow for more stability at higher memory speeds compared to other brands. Enjoy the additional boost in gaming performance or when working with large video and photography files.

EXTREME STABILITY & COMPATIBILITY TESTING
MSI conducts thorough memory testing with the most popular memory brands under extreme conditions to ensure your system runs stable no matter what. Our memory partners include brands like Corsair, Crucial, Kingston, G.Skill and many more to optimize memory modules, configurations and even improve overclocking.

EASY A-XMP
Enable A-XMP with ease using a single option in the BIOS to gain performance and create a perfectly stable system.

Designed for limitless tuning
Founded on experience and with a long history of creating the best performing motherboards packed with smart features, you can count on this motherboard to deliver the best performance under the most extreme conditions. Countless system tuning and troubleshooting tools are at your disposal to push your system to new heights and satisfy even the most demanding tweaker.

CORE BOOST
Core Boost technology combines MSI's premium layout and full digital power design which allows for faster and undistorted current delivery to the CPU at pin-point precision. Not only supporting multi-core CPU, also creating the perfect conditions for your CPU

LOAD-LINE CALIBRATION
What you set, is what you get. LLC makes sure your CPU voltage remains 100% stable under any load. This greatly improves stability when demanding more CPU performance.

DigitALL POWER DESIGN
A fully digital power design allows for faster and undistorted current delivery to the CPU at pin-point precision. Creating the perfect conditions for CPU overclocking.

EZ DEBUG LED
Run into trouble? Onboard LEDs for key components will indicate the source of the problem so you know exactly where to look to get up and running again.

OVERVOLTAGE PROTECTION
Prevents potential short-circuit damage to the CPU and other critical components.

APPS TO GREATLY IMPROVE EFFICIENCY
With years of experience in creating performance enhancing tools that are easy to use, only the highest quality applications are at your disposal. Use these tools to get the most out of your motherboard and achieve victory when gaming.

X-BOOST YOUR STORAGE
This unique and exclusive software allows you to boost the performance of any storage or USB device connected to your system. Simply use X-BOOST's Easy or Advanced mode to tune your system for up to 20% increased speeds, higher system responsiveness and faster loading of in-game levels.

TAKE COMMAND OF YOUR SYSTEM
MSI's Command Center software is the perfect tool to get the most out of your motherboard. With an intuitive interface, Command Center allows you to tune settings to increase system stability, maximize performance and optimize your system's cooling features.

Always Up-To-Date
Never miss out on important updates. MSI Live Update automatically downloads and installs the latest drivers, BIOS and software so you can focus on your game.

SSD not fast enough? Try MSI® RAMDISK
MSI motherboards include RAMDisk, allowing you to create a virtual drive from your system RAM memory. Instantly load your favorite game, speed up your browser or your page file to significantly speed up your system!

- Speed up system performance, over 25x faster than a SATA SSD
- Speed up games, apps and browser
- Increase SSD lifespan

CPU-Z MSI GAMING EDITION
MSI has worked closely with the CPUID team to develop a special edition of CPU-Z featuring the famous MSI GAMING dragon. Use CPU-Z to gather key information of your system's key components, like CPU speed, Memory speed and timings, motherboard BIOS version and much more.

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

FORTIFY YOUR SYSTEM WITH PCI-E STEEL ARMOR
MSI PCI Express Steel Armor slots are armed with more solder points on the motherboard for a stronger hold, preventing any

damage due to heavy-weight graphics cards. Steel Armor also protects PCI Express signals against electromagnetic interference for a pure gaming experience and even higher overclocking.

ULTIMATE MOTHERBOARD PROTECTION
We've made sure you can enjoy your system endlessly. MSI motherboards feature Double ESD protection with double layer grounding around the motherboard mounting holes, preventing Electrostatic discharge (ESD) surges from damaging the motherboard.

COMPONENTS CHOSEN BY ONLY HIGH QUALITY AND STABILITY
MSI uses components with the latest evolution of the industries' highest quality standard. MSI quality approved components are shielded with the best protection and make sure your system run smoothly under the most extreme gaming conditions.

Maximize your USB device performance
Transfer your favorite games, music and movies over USB faster than ever. MSI offers a wide variety of options to connect and boost your USB 3.1 devices, delivering transfer speeds up to 5Gb/s!

A gamers' BIOS
We made sure our BIOS contains all the latest options and is easy to use for everyone. The extensive features let you fine-tune your system to deliver reliable maximum performance when gaming.

Specifications:

Socket	AM4
CPU (Max Support)	Ryzen 7
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)
Memory Channel	Dual
DIMM Slots	2
Max Memory (GB)	32
PCI-E x16	1
PCI-E Gen	Gen3
PCI-E x1	2
SATAIII	4
M.2 Slot	1
TPM (header)	1
LAN	1(Realtek 8111H)
USB 3.1 ports (Front)	4(Gen1, Type A)
USB 3.1 ports (Rear)	1(Gen1, Type C), 3(Gen1, Type A)
USB 2.0 ports (Front)	4
USB 2.0 ports (Rear)	2
Serial ports(Front)	1
Audio ports (Rear)	3(Realtek ALC887 Codec)
DVI-D	1

HDMI	1
DirectX	12
Form Factor	M-ATX
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.

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-GAMING-PLUS-MSI-B450M-Gaming-Plus-AMD-B450-Chipset-Socket-AM4-Motherboard-p-212209.php

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