ComX Computers
Product Specification Sheet

B450 GAMING PLUS MAX

MSI B450 Gaming Plus Maximum AMD Ryzen 2nd / 3rd Gen Socket AM4 ATX Motherboard

Product Overview

MSI B450 Gaming Plus Maximum AMD Ryzen 2nd / 3rd Gen Socket AM4 ATX Motherboard, AMD B450 Chipset, Dual Memory channel, 4x DIMM slots, 128GB Maximum Memory, 2x PCI-e 16x, 4x PCI-e x1, 2x SATA 6Gb/s ports, 1x M.2 slot, RAID, 1x Realtek 8111H Gigabit LAN, USB 3.2 ports, USB 2.0 ports, Serial ports, Audio ports, DVI-D, HDMI, Crossfire, 7.1-channel high definition audio











Specifications

Overview:

Satisfying gamers with what they really need, B450 GAMING PLUS MAX is equipped with Core boost, Turbo M.2, DDR4 Boost, 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
- Lightning Fast Game experience: TURBO M.2, AMD Turbo USB 3.2 GEN2, StoreMI 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
- Audio Boost: Reward your ears with studio grade sound quality for the most immersive gaming 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.

COOLING

Cooling is essential for a high performance PC to sustain intense workloads. MSI motherboards feature a heavy duty heatsink on the MOSFETs for reliable processor power delivery. Numerous fan headers with full fan speed control lets builders tune their system cooling the way they like it.

HARDWARE

MSI motherboards been designed to make the system assembly process as convenient as possible. An array of system tuning features and troubleshooting tools are available to ease installation and setup.

COMPATIBILITY

MSI motherboards are designed with both physical and device compatibility in mind. Pin-headers, SATA, and USB connectors are positioned away from other components and devices. A comprehensive DDR memory Qualified Vendor List (QVL), the result of extensive memory testing and tuning, makes it easier to pick from compatible products.

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

Connect any ultra-fast storage device and get into the game sooner.

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

Satisfying gamers with what they really need, MPG GAMING PLUS is equipped with all the crucial gaming weapons. A legacy spirits comes back to life with lightning fast performance enabled by an optimized design and high quality components. Red GAMING DNA lives on!

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

Sourced from the highest quality components, built with precision manufacturing, and rigorously tested for stability, MSI motherboards are sure to last even under high performance loads and extreme conditions.

Specifications:

Quick Spec	
Socket	AM4
CPU (Max Support)	Ryzen
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/ 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	4
SATAIII	6
M.2 Slot	1
RAID	0/1/10
TPM (header)	1
LAN	1x Realtek 8111H
USB 3.2 ports (Front)	2(Gen1, Type A)
USB 3.2 ports (Rear)	2(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.
Detailed Spec	
Processor	Supports 1st, 2nd and 3rd Gen AMD Ryzen, Ryzen with Radeon Vega Graphics, 2nd Gen AMD Ryzen with Radeon Graphics and 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/ 3466MHz (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 support x16 mode
	Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzen with Radeon Graphics support x8 mode
	Athlon with Radeon Vega Graphics support x4 mode
	1 x PCIe 2.0 x16 slot (PCI_E4, supports x4 mode)
	4 x PCIe 2.0 x1 slots
	1. PCI_E4 will run x1 speed when installing devices in PCI_E2/ PCI_E3/ PCI_E5 slot.
Onboard Graphics	1 x DVI-D port, support a maximum resolution of 1920x1200 @60Hzz
	1 x HDMI 1.4 port, supports a maximum resolution of 4096x2160 @30Hz, 2560x1600 @60Hz
	1. Only support when using Ryzen with Radeon Vega Graphics, 2nd Gen AMD Ryzen with Radeon Graphics and Athlon with Radeon Vega Graphics processors
	2. Maximum shared memory of 2048 MB
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 2242/ 2260/ 2280/ 22110 storage devices
	AMD B450 Chipset
	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 Chipset
	Supports RAID 0, RAID1 and RAID 10 for SATA storage devices

USB	AMD B450 Chipset
	2 x USB 3.2 Gen2 (SuperSpeed USB 10Gbps) Type-A ports 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 Serial port connector
	1 x Parallel port connector
	1 x Chassis Intrusion connector
	1 x Clear CMOS jumper
	2 x 5050 RGB LED strip 12V connectors
BACK PANEL PORTS	1. PS/2 Combo Port
	2. USB 3.2 Gen1
	3. LAN Port
	4. HD Audio Connectors
	5. Flash BIOS Button
	6. USB 2.0 Ports
	7. DVI-D Port
	8. HDMI Port
	9. USB 3.2 Gen2

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.

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/B450-GAMING-PLUS-MAX-MSI-B450-Gaming-Plus-Maximum-AMD-Ryzen-2nd-3rd-Gen-Socket-AM4-p-245941.php

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