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Product Specification Sheet

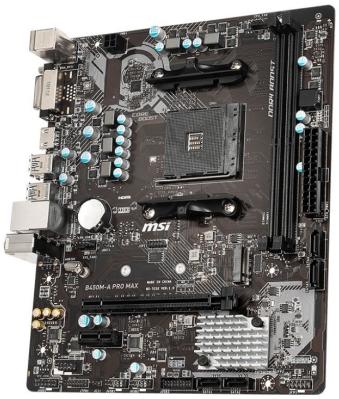
B450M-APROMAX

MSI B450M-A Pro Max AMD Ryzen 5000 Series Socket AM4 mATX Motherboard

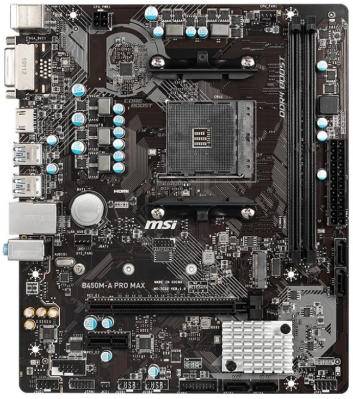
Product Overview

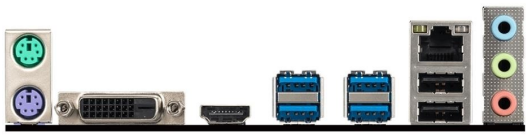
MSI B450M-A Pro Max AMD Ryzen 5000 Series Socket AM4 mATX Motherboard, AMD B450 Chipset, 2x DDR4 DIMM Memory slots, 1x PCI-e 3.0 x16 slot, 1x PCI-e x1 slot, 4x SATA 3 ports, 1x M.2 slot, USB 3.2 Gen1 Type-A ports, USB 2.0 Ports, 1s Serial Port, 1x DVI-D, 1x HDMI, 7.1-channel High Definition audio, 1x Realtek 8111H Gigabit LAN controller, HD audio connectors











Specifications

Overview:

B450M-A PRO MAX - AMD AM4 motherboard inspired from architectural design, with Core Boost, DDR4 Boost, Turbo M.2, USB 3.2 Gen1

- Supports 1st, 2nd and 3rd Gen AMD Ryzen / Ryzen with Radeon Vega Graphics and 2nd Gen AMD Ryzenwith Radeon Graphics / Athlon with Radeon Vega Graphics and A-series / Athlon X4 Desktop Processors for Socket AM4
- Supports DDR4 Memory, up to 4133 (OC) MHz
- Turbo M.2: Running at PCI-E Gen3 x4 maximizes performance for NVMe based SSDs.
- Audio Boost: Reward your ears with studio grade sound quality.
- X-Boost: Software that auto-detects and allows you to boost the performance of any storage or USB device.
- Core Boost: With premium layout and fully digital power design to support more cores and provide better performance.

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 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.

BIOS and Software

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. Moreover, 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.

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 featured 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.

IN-STUDIO ADVANTAGE

MSI motherboards provide the most fascinating in-studio advantages, designed to satisfy any professional workflow. Elevate your listening pleasure and network connection with MSI Audio & LAN. Enjoy extreme sound quality and uninterrupted online experience.

Audio

Reward your ears with studio grade sound quality. MSI Audio Boost delivers the highest sound quality through the use of premium quality audio components. This lets you enjoy breathtaking, studio quality sound to create the most immersive sound experience.

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

PRO Series motherboards combine stable functionality and high quality assembly for clever business solutions. Designed to satisfy any professional workflow, PRO Series motherboards make life easier for businesses and office use.

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.

Specifications:

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Specifications	
Product Code	B450M-APROMAX
Quick Specifications	
SOCKET	AM4
CHIPSET	AMD B450 Chipset
MEMORY CHANNEL	Dual
DIMM SLOTS	2
MAX MEMORY (GB)	64
PCI-E X16	1
PCI-E GEN	Gen3
PCI-E X1	1
SATAIII	4
M.2 SLOT	1

TPM (HEADER)	1
USB 3.2 PORTS (FRONT)	2(Gen1, Type A)
USB 3.2 PORTS (REAR)	4(Gen1, Type A)
USB 2.0 PORTS (FRONT)	4
USB 2.0 PORTS (REAR)	2
SERIAL PORTS(FRONT)	1
AUDIO PORTS (REAR)	Realtek ALC892/ALC897 Codec
DVI-D	1
HDMI	1
DIRECTX	12
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
FORM FACTOR	m-ATX
Detailed Specifications	
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 and A-series / Athlon X4 Desktop Processors for Socket AM4
CHIPSET	AMD B450 Chipset
MEMORY	2 x DDR4 memory slots, support up to 64GB *ComboPI 1.0.0.3-based and above BIOS are required.
	Support DDR4 1866/ 2133/ 2400/ 2667Mhz(by JEDEC)
	For AMD Ryzen Gen3 (R5/R7/R9)
	2667 / 2800 / 2933 / 3000 / 3066 / 3200 / 3466 / 3733 / 3866 / 4000 / 4133 MHz (by A-XMP OC MODE)
	For AMD Other CPU
	2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466 MHz (by A-XMP OC MODE)
	Dual channel memory architecture
	Supports ECC UDIMM memory (non-ECC mode)
	Support non-ECC UDIMM memory

SLOTS	1 x PCIe 3.0 x16 slot
	Supports x16 speed
	1st, 2nd and 3rd Gen AMD Ryzen
	Supports x8 speed
	Ryzen with Radeon Vega Graphics
	2nd Gen AMD Ryzen with Radeon Graphics
	A-series
	Athlon X4
	Supports x4 speed
	AMD Athlon with Radeon Vega Graphics
	PCIe 2.0 x1 slot
ONBOARD GRAPHICS	1 x DVI-D port, supports a maximum resolution of 1920x1200@60Hz
	1 x HDMI 2.0b with HDR port, supports a maximum resolution of 4K @60Hz
	Only support when using the processor with Graphicss
	Maximum shared memory of 2048 MB
	Graphics specifications may vary depending on the CPU installed.
STORAGE	AMD B450 Chipset
	4 x SATA 6Gb/s ports
	Supports RAID 0, RAID1 and RAID 10
	1x M.2 slot (Key M)
	Supports PCIe 3.0 x4 and SATA 6Gb/s
	1st, 2nd and 3rd Gen AMD Ryzen
	Ryzen with Radeon Vega Graphics
	2nd Gen AMD Ryzen with Radeon Graphics
	Supports PCIe 3.0 x2 and SATA 6Gb/s
	AMD Athlon with Radeon Vega Graphics
	A-series
	Athlon X4
	Supports 2242/2280/22110 storage devices
USB	AMD B450 Chipset
	6x USB 3.2 Gen1 (SuperSpeed USB) ports (4 ports on the back panel, 2 ports available through the internal USB connector)
	6x USB 2.0 (High-speed USB) ports (2 ports on the back panel, 4 ports available through the internal USB connectors)
AUDIO	Realtek ALC892/ALC897 Codec
	7.1-Channel High Definition Audio
LAN	1 x Realtek 8111H Gigabit LAN controller

INTERNAL CONNECTORS	1x 24-pin ATX main power connector
	1x 4-pin ATX 12V power connector
	4x SATA 6Gb/s connectors
	2x USB 2.0 connectors (supports additional 4 USB 2.0 ports)
	1x USB 3.2 Gen1 connector (supports additional 2 USB 3.2 Gen1 ports)
	1x 4-pin CPU fan connector
	1x 4-pin system fan connector
	1x Front panel audio connector
	2x Front panel connectors
	1x TPM module connector
	1x Chassis Intrusion connector
	1x Serial port connector
	1x Clear CMOS jumper
BACK PANEL PORTS	Mouse
	DVI-D Port
	USB 3.2 Gen1
	LAN Port
	Keyboard
	HDMI Port
	USB 2.0 Ports
	HD Audio Connectors
DIMENSIONS	9.3 in. x 7.9 in. (23.6 cm x 20.0 cm)
	m-ATX Form Factor
MOUNTING	6 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	MSI does not guarantee the risks or damages caused by changing the cover.
	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-APROMAX-MSI-B450M-A-Pro-Max-AMD-Ryzen-5000-Series-Socket-AM4-mATX-Motherboard-p-284597.php

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