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Product Specification Sheet

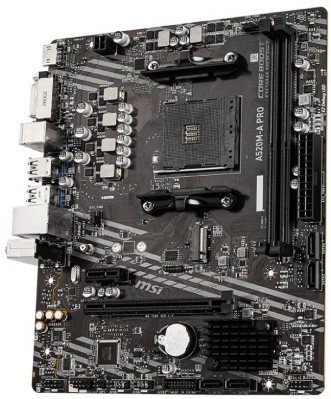
MB-AA520PMA

MSI A520M-A Pro AMD 3rd Gen Socket AM4 mATX Motherboard

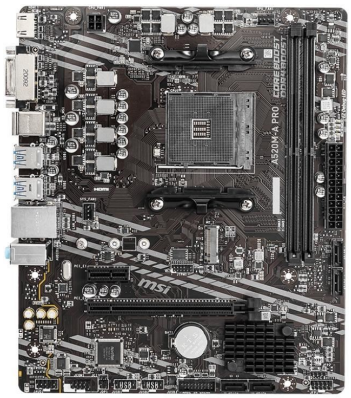
Product Overview

MSI A520M-A Pro AMD 3rd Gen Socket AM4 mATX Motherboard, AMD A520 Chipset, 2 DIMM slots, 64GB Maximum Memory, 1x PCI-e x16, PCI-e Gen 3, 1x PCI-e x1, 1x M.2 slot, RAID 0 / 1 / 10, 1x Realtek RTL8111H Gigabit LAN, USB 3.2 ports, USB 2.0 ports, Serial port, DVI-D, HDMI, mATX form factor, 4x SATA 6Gb/s ports, 7.1-channel high definition audio











Specifications

Overview:

A520M-A PRO

- Support 3rd Gen AMD Ryzen Desktop Processors and AMD Ryzen 4000 G-Series Desktop Processors
- Supports DDR4 Memory, up to 4600(OC) MHz
- Turbo M.2: Running at PCI-E Gen3 x4 maximizes performance for NVMe based SSDs
- Core Boost: With premium layout and digital power design to support more cores and provide better performance.
- DDR4 Boost: Advanced technology to deliver pure data signals for the best performance and stability.
- 2oz Thickened Copper PCB: An enhanced PCB design improves heat dissipation and performance reliability.
- Audio Boost: Reward your ears with studio grade sound quality
- Dragon Center: A brand new software which integrates all MSI exclusive tools with user friendly user interface.

Features:

PRO series helps users work smarter by delivering an efficient and productive experience. Featuring stable functionality and high-quality assembly, PRO series motherboards provide not only optimized professional workflows but also less troubleshooting and longevity.

USER FRIENDLY DESIGN

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 without any issue.

FULLY CONTROLLABLE IN BIOS AND SOFTWARE

MSI motherboards let you manage speeds and temperatures for all your system and CPU fans. Total Fan Control allows you 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.

CONNECTIVITY

The most important thing of DIY is expandability. MSI PRO series motherboards feature plenty possibility for prosumers need. Stable LAN, faster storage and USB transfer speed and other expandable connectors are ready to enlarge your flexibility.

FAST AND FUTURE-READY STORAGE

MSI PRO series motherboards support all the latest storage standards, which allows users to connect any ultra-fast storage device. Higher efficiency makes your work easier.

EXPERIENCE MORE

MSI PRO series motherboards are designed to satisfy any professional workflow. Elevate your listening pleasure and enjoy extreme sound quality. Moreover, with years of experience in creating performance enhancing tools that are easy to use, only the highest quality applications are at your disposal. The extensive features let you fine-tune your system to deliver reliable maximum performance.

PCB WITH 2OZ THICKENED COPPER

An enhanced PCB design with 2oz thickened copper increases conductivity, improving heat dissipation and performance reliability especially during overclocking.

Specifications:

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Specifications	
Product Code	MB-AA520PMA

Quick Spec	
Socket	AMD Socket AM4
CPU (Max Support)	Support 3rd Gen AMD Ryzen Desktop Processors and AMD Ryzen 4000 G-Series Desktop Processors
Chipset	AMD A520 Chipset
DDR4 Memory	Supports DDR4 1866/ 2133/ 2400/ 2667/ 2800/ 2933/ 3000/ 3066/ 3200 MHz by JEDEC
	Supports DDR4 2667/ 2800 /2933 /3000 /3066 /3200 /3466 /3600/ 3733 /3866 /4000 /4133 /4266 /4400/ 4600+ MHz by A-XMP OC Mode
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
RAID	0/1/10
TPM (header)	1
LAN	1x Realtek RTL8111H Gigabit LAN
USB 3.2 ports (Front)	2(Gen 1, Type A)
USB 3.2 ports (Rear)	4(Gen 1, Type A)
USB 2.0 ports (Front)	4
USB 2.0 ports (Rear)	2(Type A)
Serial ports(Front)	1
Audio ports (Rear)	Realtek ALC892/ALC897 Codec
DVI-D	1
HDMI	1
DirectX	12
Form Factor	MATX
Operating System	Support for Windows 10 64-bit
Full Spec	
CPU	Support 3rd Gen AMD Ryzen Desktop Processors and AMD Ryzen4000 G-Series Desktop Processors
Chipset	AMD A520 Chipset

Memory	2x DDR4 memory slots, support up to 64GB
	Supports DDR4 1866/ 2133/ 2400/ 2667/ 2800/ 2933/ 3000/ 3066/ 3200 MHz by JEDEC
	Supports DDR4 2667/ 2800 /2933 /3000 /3066 /3200 /3466 /3600/ 3733 /3866 /4000 /4133 /4266 /4400/ 4600+ MHz by A-XMP OC MODE
	1DPC 1R max speed 4600 MHz
	1DPC 2R max speed 3866 MHz
	Dual channel memory architecture
	Supports non-ECC UDIMM memory
	Supports ECC UDIMM memory (non-ECC mode)
	Supports un-buffered memory
Expansion Slot	1x PCIe 3.0 x1 slot
	1x PCIe x16 slot
	1. The supported specification depends on installed processor.
Onboard Graphics	1x HDMI 2.1 port, supports a maximum resolution of 4096x2160 @60Hz
	1x DVI-D port, supports a maximum resolution of 1920x1200@60Hz
	Maximum shared memory of 16 GB
	1. Available for the processor with integrated graphics.
	2. Graphics specifications may vary depending on the CPU installed.
Storage	AMD A520 Chipset
	4x SATA 6Gb/s ports
	1x M.2 slot (Key M) (from AMD Processor)
	Supports PCIe 3.0
	Supports SATA 6Gb/s
	Supports 2242/ 2260/ 2280 storage devices
	1. The supported specification depends on installed processor.
RAID	Supports RAID 0, RAID 1 and RAID 10 for SATA storage devices
	Supports RAID 0 and RAID 1 for M.2 NVMe storage devices
USB	AMD A520 Chipset
	2x USB 3.2 Gen 1 5Gbps ports are available through the internal USB 3.2 Gen 1 5Gbps connector
	6x USB 2.0 ports (2 Type-A ports on the back panel, 4 ports through the internal USB 2.0 connectors)
	AMD Processor
	4x USB 3.2 Gen 1 5Gbps Type-A ports on the back panel
Audio	Realtek ALC892/ALC897 Codec
	7.1-Channel High Definition Audio
LAN	1x Realtek RTL8111H Gigabit LAN controller

Internal connectors	1x 24-pin ATX main power connector
	1x 4-pin ATX 12V power connector
	4x SATA 6Gb/s connectors
	1x M.2 slots (M-Key)
	1x USB 3.2 Gen 1 5Gbps connector (supports additional 2 USB 3.2 Gen 1 5Gbps ports)
	2x USB 2.0 connectors (supports additional 4 USB 2.0 ports)
	1x 4-pin CPU fan connector
	1x 4-pin system fan connectors
	1x Front panel audio connector
	2x System panel connectors
	1x Chassis Intrusion connector
	1xTPM module connector
	1x Clear CMOS jumper
Back panel ports	1. LAN port
	2. HDMI
	3. DVI-D
	4. Keyboard / Mouse
	5. USB 3.2 Gen 1 5Gbps Type-A
	6. USB 3.2 Gen 1 5Gbps Type-A
	7. USB 2.0 Ports
	8. Audio Connectors
Dimensions	Micro-ATX Form Factor
	9.3 in. x 7.9 in. (23.6 cm x 20 cm)
MOUNTING	8 mounting holes
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/MB-AA520PMA-MSI-A520M-A-Pro-AMD-3rd-Gen-Socket-AM4-mATX-Motherboard-p-270819.php

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