MAG A520M VECTOR WIFI

MSI MAG A520M Vector AMD A520 Chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

MSI MAG A520M Vector AMD A520 Chipset AMD Ryzen AM4 Socket Motherboard, 2x DDR4 memory slots, support up to 64GB, Supports DDR4 2667/ 2800 /2933 /3000 /3066 /3200 /3466 /3600/ 3733 /3866 /4000 /4133 /4266 /4400/ 4600 MHz by A-XMP OC MODE, 1x 24-pin ATX main power connector, 1x 8-pin ATX 12V power connector, 4x SATA 6Gb/s connectors, 1x Serial port connector, 1x M.2 slot (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 connector, 1x Front panel audio connector, 2x System panel connectors, 1x Chassis Intrusion connector, 1x 4-pin RGB LED connector, 1x 3-pin RAINBOW LED connector, 1x TPM module connector, 1x Clear CMOS jumper, Keyboard / Mouse, LAN port, Wi-Fi Antenna connectors, Audio Connectors, HDMI, DisplayPort, 2 x USB 2.0 Ports, 4 x USB 3.2 Gen 1 5Gbps Type-A, M-ATX Form Factor, 24.4 cm x 21 cm



Specifications

Features:

MAG Conquer the Battlefield
The MAG series was born through rigorous quality testing and designed to be a symbol of sturdiness and durability. Focused on providing the best user experience, the MAG series has a simple installation process coupled with a friendly user interface making it the best choice for entry level gamers.

PREMIUM HARDWARE DESIGN
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.

THERMAL SOLUTION FOR MORE CORES AND HIGHER PERFORMANCE
With more cores' processors, thermal and power design is more important to make sure the temperature keeps lower. MSI extended PWM heatsink and enhanced circuit design ensures even high-end CPU to run in full speed with MSI motherboards.

M.2 SHIELD FROZR
World's fastest SSDs can start to lower performance when getting hot. Part of the motherboards heatsink design, M.2 Shield Frozr is the next generation M.2 thermal solution to avoid this by offering the best thermal protection to make sure that SSD maintains maximum performance.

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.

FAN AUTODETECT DC OR PWM MODE
MSI fan headers can automatically detect if a fan needs to run in DC or PWM mode, streamlining the fan tuning experience.

4 2 1 DUET RAIL POWER SYSTEM
Unleash and sustain maximum performance with an aggressive VRM design built with digital CPU power phases. Combining exclusive Core Boost technology, MAG series motherboard is ready to sustain heavy gaming loadings.

CORE BOOST
Core Boost technology combines MSI's premium layout and digital power design which allows for faster and undistorted current delivery to the CPU at pin-point precision. This creates the perfect conditions for multi-core CPU while high-loading operation.

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.

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

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.

keep out zone
MSI motherboards circuitry ensure the case standoff keep out zones are pure and clean, preventing any component contact or damage to the motherboard.

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.

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

ULTIMATE MOTHERBOARD PROTECTION
Double ESD protection doubles up the grounding layer around the mounting holes, preventing static discharge surges from damaging the motherboard.

CERTIFIED FOR GAMING
MSI motherboards has been built and tweaked for hardcore gaming. Feedback from the world's best esports players and rigorous testing sessions with demanding PC games has resulted in a motherboard that's both powerful and reliable.

WINDOWS 10 CERTIFIED
With MSI you benefit from great compatibility and a worry-free user experience when using Microsoft Windows 10. With a true dedication to performance, our R&D team has made sure everything works as intended when using the latest version of Microsoft Windows on any MSI product.

ENHANCED PERFORMANCE
High performance MSI motherboards are loaded with advanced features and the latest technology to overwhelm any challenge at hand no matter whether you're a gamer, prosumer, or PC enthusiast.

FAST AND FUTURE-READY STORAGE
MSI MAG series motherboards support all the latest storage standards, which allows users to connect any ultra-fast storage device. Higher efficiency makes your work easier.

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.

A HUGE STEP OF DDR PERFORMANCE
MSI OC LAB does not merely work hard on extreme overclocking. Compared to A320 motherboard memory A-XMP profile, MSI does have great improvement on performance and efficiency for A520 motherboards. Easy to enable A-XMP profile with auto power settings to get the best memory speed and stability.

EASY OVERCLOCKING WITH A-XMP PROFILE
The A-XMP in MSI BIOS are tested and certified by MSI OC LAB. It is easy to enable with auto power settings to get the best memory speed and stability.

DRAGON CENTER
MSI brand new Dragon Center unifies a suite of MSI software utilities into a single centralized application. Take control of advanced motherboards features and unleash endless possibilities.

True Color
Optimized monitor's brightness and color in several modes for different situation, you can also customize by yourself.

Live Update
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 work.

User Scenario
One click for setting your computer, even customize own profile as your preference.

Hardware Monitor
Get immediate access to your critical hardware information in real-time.

OC Setting
Tune select motherboard settings in the OC Setting menu, where options to boost core performance and optimize system cooling are presented in an intuitive interface.

Total Fan Control
Assume complete control of your fans with Total Fan Control. Set up to four CPU temperature targets and the motherboard will adjust fan speeds automatically.

Mystic Light
Create your own colorful masterpiece with ease. Splash any color you want with just a few clicks!

CLICK BIOS 5
Get more from a loaded BIOS designed for ease of use. Fine-tune the motherboard for gaming performance, efficiency, or

overclocking world records!

GAME BOOST
Quickly overclock your CPU with a single button for more performance.

A-XMP
Choose from a preset A-XMP profile and automatically overclock compatible DDR memory.

M-FLASH
Conveniently flash or upgrade the BIOS in a few minutes from the CMOS Setup Utility.

HARDWARE MONITOR
Get immediate access to your critical hardware information in real-time including temperature, memory capacity, clock speed, and voltage.

MEMORY TRY IT
Get extreme speed out of your system memory and get more performance.

SEARCH & FAVORITES
A permanent search & favorite option in the top right corner moves you through the BIOS menus quickly.

MSI APP PLAYER
Developed under an exclusive partnership with BlueStacks, the MSI APP Player brings seamless gaming experience between mobile games and PC platform, and leverages customized features as specific keyboard lighting and better graphics with multi-task works.

CONNECTIVITY
MSI motherboards are built with a variety of connectors to satisfy gamers. Enhanced audio, advanced LAN networking capabilities, USB and Mystic Light turn any gaming experience into an immerse one.

NEXT-GEN INTEL® WI-FI AC & BLUETOOTH
This next-generation Intel® Wi-Fi / Bluetooth solution delivers AC speeds up to 433Mbps without any cable limitation.

DEDICATED HIGH DEFINITION AUDIO PROCESSOR
Make sure you enjoy the purest sound quality in both stereo and surround sound.

HIGH QUALITY AUDIO CAPACITORS
A high fidelity sound experience with exceptional acoustics and realism for studio level headphones is ensured.

HIGH QUALITY AUDIO JACKS
Keep your sound perfect by transmit your audio with pure digital signal.

ISOLATED AUDIO DESIGN
Like a dedicated sound card, audio components and circuits have been laid on a reserved motherboard section and electrically isolated.

SEPARATED AUDIO LAYERS FOR CLEAN LEFT & RIGHT CHANNELS
Using separated layers in the PCB ensures equally pristine sound quality for both left and right audio channels.

USB 3.2 GEN 1
Transfer lots of data, music and movies over USB easier. USB 3.2 ports are ready in both front and rear IO, provides wide variety of options to connect your USB 3.2 devices.

Specifications:

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Specifications	
Product Code	MAG A520M VECTOR WIFI
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	2
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
DisplayPort	1
HDMI	1
DirectX	12
Form Factor	M-ATX
Operating System	Support for Windows 10 64-bit

Specifications:

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	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	2
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
DisplayPort	1
HDMI	1
DirectX	12
Form Factor	M-ATX
Operating System	Support for Windows 10 64-bit

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/MAG-A520M-VECTOR-WIFI-MSI-MAG-A520M-Vector-AMD-A520-Chipset-AMD-Ryzen-AM4-Socket-p-249436.php

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