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## MSI A520VECTWIFI

# MSI MAG A520M Vector WiFi Gaming Motherboard User Manual

Model: A520VECTWIFI

## 1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI MAG A520M Vector WiFi Gaming Motherboard. The MAG series is engineered for durability and user-friendliness, offering a straightforward installation process and an intuitive interface. This motherboard supports the latest storage standards, including ultra-fast M.2 devices, and features an integrated Intel Wi-Fi / Bluetooth solution for wireless connectivity.




*Image 1.1: MSI MAG A520M Vector WiFi Gaming Motherboard and packaging.*

# 2. Setup and Installation

## 2.1. Package Contents

Before beginning installation, verify that all components are present in the package:

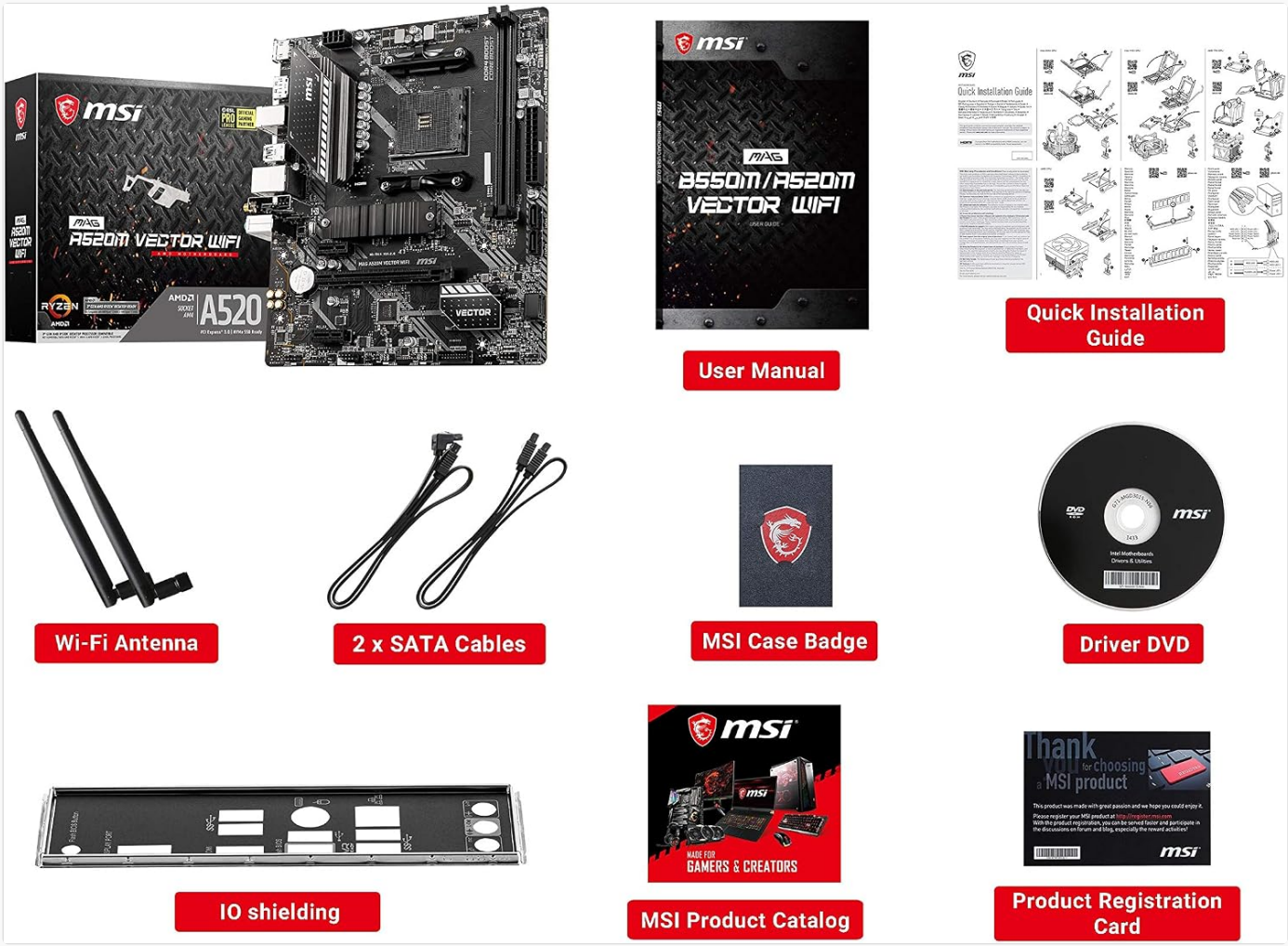



*Image 2.1: Included accessories and documentation.*

- MSI MAG A520M Vector WiFi Motherboard
- User Manual
- Quick Installation Guide
- Wi-Fi Antenna
- 2 x SATA Cables
- MSI Case Badge
- Driver DVD
- I/O Shielding
- Product Catalog
- Product Registration Card

## 2.2. Before You Begin

Ensure your system is powered off and disconnected from the power outlet. Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

## 2.3. CPU Installation

1. Locate the AM4 CPU socket on the motherboard.
2. Lift the load lever on the side of the socket.
3. Align the triangular mark on your AMD Ryzen CPU with the corresponding mark on the socket.
4. Gently place the CPU into the socket without forcing it.
5. Lower the load lever to secure the CPU.

## 2.4. RAM Installation

This motherboard supports DDR4 memory up to 4600(OC) MHz. It features two DIMM slots.

1. Open the clips at both ends of the DIMM slots.
2. Align the notch on the DDR4 memory module with the key in the DIMM slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.

## 2.5. M.2 SSD Installation

The motherboard includes a Turbo M.2 slot running at PCI-E Gen3 x4, maximizing performance for NVMe based SSDs, and features M.2 Shield Frozr for thermal management.

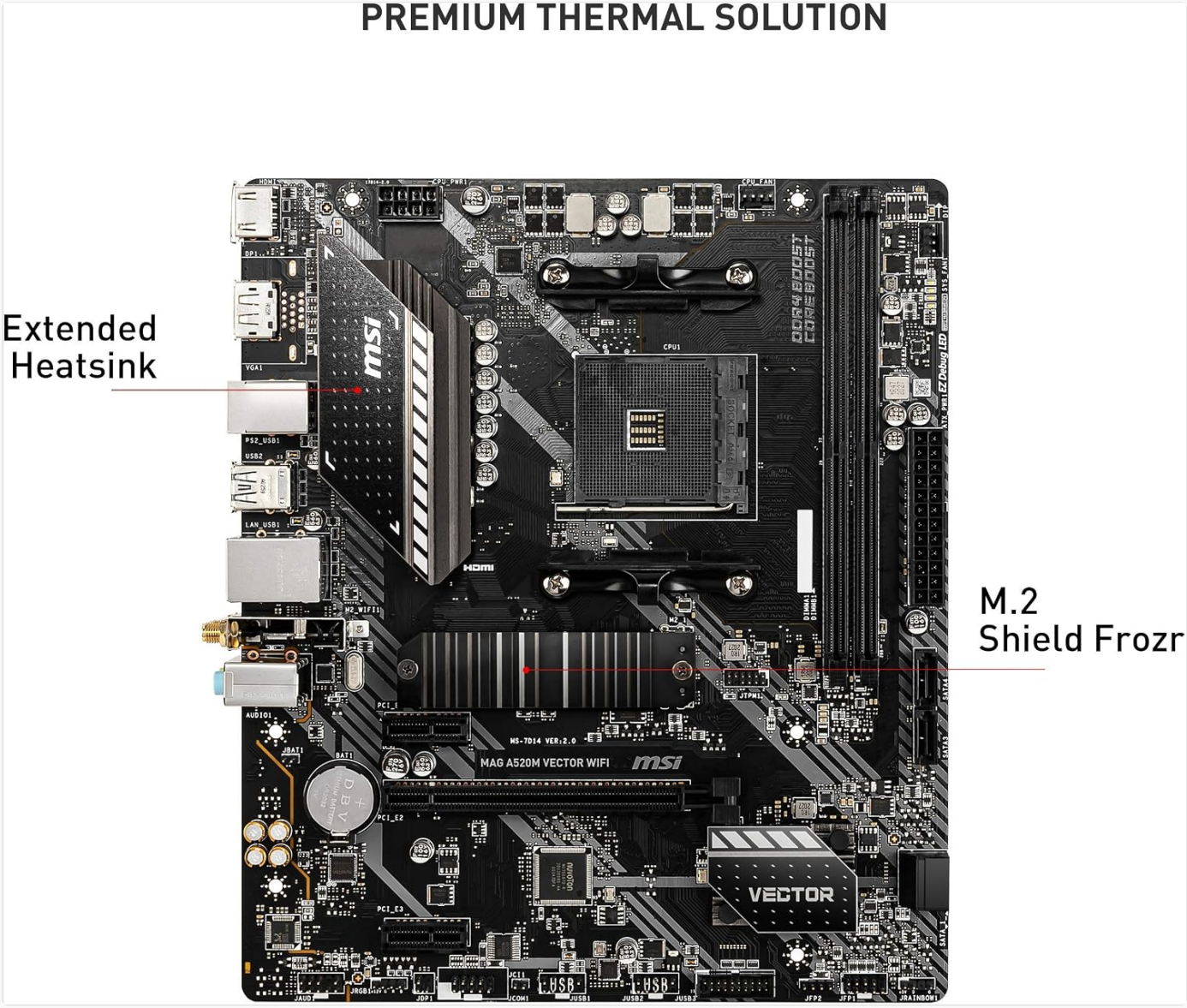



*Image 2.2: Motherboard layout showing M.2 Shield Frozr.*

1. Locate the M.2 slot and remove the M.2 Shield Frozr if present.

2. Insert the M.2 SSD into the slot at a 30-degree angle.
3. Gently push the SSD down and secure it with the provided screw.
4. Reinstall the M.2 Shield Frozr for optimal cooling.

### 2.6. Graphics Card Installation

This motherboard supports PCIe 3.0 for graphics cards.

1. Locate the PCIe x16 slot.
2. Open the retention clip at the end of the slot.
3. Align your graphics card with the slot and press down firmly until it clicks into place.
4. Secure the graphics card to your PC case with a screw.

### 2.7. Connecting Peripherals

The rear I/O panel provides various ports for connecting your devices.

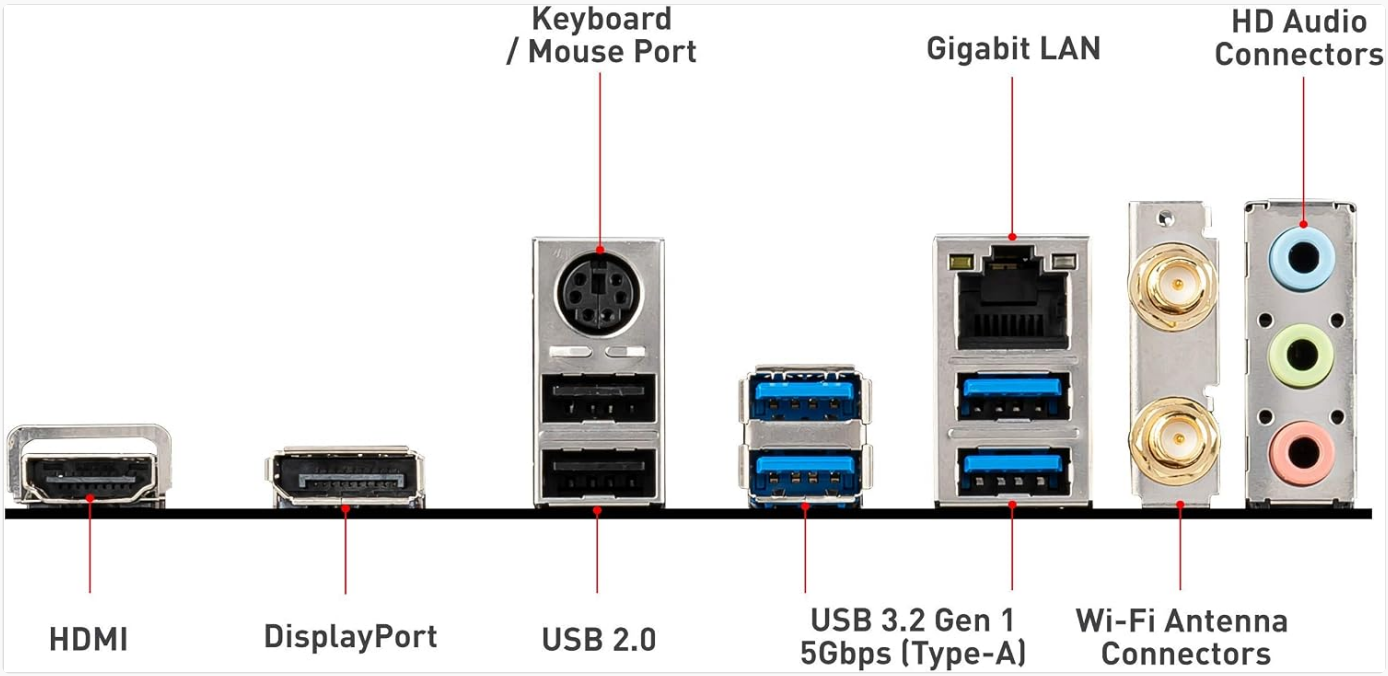



*Image 2.3: Rear I/O Panel Connectors.*

- **HDMI/DisplayPort:** Connect your monitor.
- **USB Ports:** Connect keyboards, mice, and other USB devices.
- **Gigabit LAN:** Connect an Ethernet cable for wired network access.
- **Wi-Fi Antenna Connectors:** Attach the included Wi-Fi antennas for wireless connectivity.
- **HD Audio Connectors:** Connect speakers or headphones.

## 3. Operating Instructions

### 3.1. First Boot

After assembling your system, connect the power cable and press the power button on your PC case. The system should power on and display the MSI logo, followed by the BIOS/UEFI interface or operating system boot sequence.

### 3.2. BIOS/UEFI Access

To enter the BIOS/UEFI setup utility, press the**Delete** key repeatedly during the initial boot sequence. The BIOS/UEFI allows you to configure system settings, boot order, and monitor hardware status.

### 3.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard components. You can use the included Driver DVD or download the latest drivers from the official MSI website for your specific motherboard model (A520VECTWIFI).

## 4. Maintenance

- **Keep it Clean:** Regularly clean dust from your PC case and motherboard components using compressed air. Ensure proper airflow to prevent overheating.
- **BIOS Updates:** Periodically check the MSI website for BIOS/UEFI updates. Updates can improve stability, compatibility, and performance. Follow the instructions provided by MSI carefully when updating the BIOS.
- **Cable Management:** Ensure cables are neatly routed to avoid obstructing airflow and to prevent accidental disconnections.

## 5. Troubleshooting

This section addresses common issues you might encounter.

| Issue | Possible Solution |
|---|---|
| System does not power on. | Check all power connections (24-pin ATX, 8-pin CPU). Ensure the power supply is switched on. Test with a different power supply if possible. |
| No display output. | Ensure the monitor is connected to the graphics card (if installed) or the motherboard's video output (if using an APU). Reseat the graphics card and RAM modules. |
| System reboots unexpectedly. | Check CPU and GPU temperatures. Ensure all components are properly seated. Verify power supply stability. |
| Operating system not detected. | Check boot order in BIOS/UEFI. Ensure storage drives are properly connected and detected. |
| Wi-Fi/Bluetooth not working. | Ensure Wi-Fi antennas are securely attached. Install the latest Wi-Fi/Bluetooth drivers from the MSI website. Check BIOS settings to ensure wireless is enabled. |

## 6. Technical Specifications

| Feature | Specification |
|---|---|
| Brand | MSI |
| Model Number | A520VECTWIFI |
| CPU Socket | Socket AM4 |

| Feature | Specification |
|---|---|
| Compatible Processors | AMD 3rd Generation Ryzen Desktop Processors and AMD Ryzen 4000 G-Series Desktop Processors |
| Chipset Type | AMD A520M |
| RAM Memory Technology | DDR4 |
| Memory Speed | Up to 4600(OC) MHz |
| Memory Storage Capacity | 64 GB (Max) |
| Wireless Type | Wi-Fi 5 (802.11ac), Bluetooth |
| PCIe Slots | PCIe 3.0 |
| Storage | SATA 6Gb/s, 1x M.2 (PCIe Gen3 x4) |
| USB Ports | USB 3.2 Gen 1, USB 2.0 |
| Video Output | HDMI, DisplayPort |
| Form Factor | Micro-ATX |
| Product Dimensions | 9.6 x 8.3 x 1.5 inches |
| Item Weight | 2.4 pounds |
| Platform | Windows 10 |

## 7. Warranty and Support

For detailed warranty information, please refer to the warranty card included in your product package or visit the official MSI website. MSI provides technical support and resources for its products. You can find drivers, FAQs, and contact information on the MSI support page.

**MSI Support Website:** www.msi.com/support

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**Question**

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**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

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