

MSI A320M PRO-VH PLUS

MSI A320M PRO-VH PLUS Micro-ATX Motherboard User Manual

Model: A320M PRO-VH PLUS

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI A320M PRO-VH PLUS micro-ATX motherboard. It is designed to assist users in setting up their system correctly and efficiently. The MSI A320M PRO-VH PLUS motherboard offers reliable performance and essential features for various computing needs.



Image: The MSI A320M PRO-VH PLUS motherboard shown alongside its retail packaging, highlighting the product's design and branding.

SETUP AND INSTALLATION

Before beginning installation, ensure your workspace is static-free. Always handle the motherboard by its edges and avoid touching components directly. Refer to the following steps for proper component installation.

1. CPU Installation

The MSI A320M PRO-VH PLUS motherboard supports AMD Ryzen 1st and 2nd Generation/ Ryzen with Radeon Vega Graphics Processors and AMD A-series / Athlon Processors for Socket AM4. Carefully open the CPU socket lever, align the CPU with the triangular marker on the socket, and gently place it into the socket. Close the lever to secure the CPU. Apply thermal paste and install the CPU cooler according to its instructions.



Image: A top-down view of the MSI A320M PRO-VH PLUS motherboard, showing the CPU socket (AM4) at the center, surrounded by mounting holes for the CPU cooler.

2. RAM Installation

This motherboard features two DDR4 DIMM slots, supporting up to 32GB of DDR4 memory. Open the clips on both ends of the DIMM slot. Align the memory module with the slot key, then press down firmly on both ends until the clips snap into place. Ensure both clips are fully closed.

3. Storage (SATA) Installation

Connect your SATA storage devices (HDDs, SSDs) to the SATA 6Gb/s ports on the motherboard using SATA data cables. Connect the power cables from your power supply to the storage devices.

4. Expansion Card (PCIe) Installation

The motherboard includes PCIe slots for graphics cards and other expansion cards. Insert the expansion card firmly into the appropriate PCIe slot until it is seated correctly. Secure the card with a screw to the chassis.

5. Power Connections

Connect the 24-pin ATX main power connector and the 8-pin ATX 12V CPU power connector from your power supply to the corresponding ports on the motherboard. Ensure all power connections are secure.

OPERATING INSTRUCTIONS

BIOS/UEFI Setup

Upon first boot, press the **DEL** key during the POST (Power-On Self-Test) screen to enter the BIOS/UEFI setup utility. Here you can configure system settings, boot order, and monitor hardware status. Save changes before exiting.

Operating System Installation

Insert your operating system installation media (USB drive or DVD) and set it as the primary boot device in the BIOS/UEFI. Follow the on-screen prompts to install your preferred operating system. This motherboard is compatible with Windows 10.

MAINTENANCE

BIOS Updates

Periodically check the MSI website for BIOS updates. BIOS updates can improve system stability, compatibility, and performance. Follow the instructions provided by MSI for a safe BIOS update process.

Cleaning

To ensure optimal performance and longevity, regularly clean dust from the motherboard and connected components using compressed air. Ensure the system is powered off and unplugged before cleaning.

TROUBLESHOOTING

This section addresses common issues you might encounter.

- **No Display Output:**
 - Ensure the monitor is connected to the correct video output port (HDMI, VGA) on the motherboard or discrete graphics card.
 - Verify that the graphics card (if installed) is properly seated and has sufficient power.

- Check the EZ Debug LEDs on the motherboard for indications of CPU, DRAM, or VGA issues.
- **System Fails to Boot:**
 - Confirm all power cables (24-pin ATX, 8-pin CPU) are securely connected.
 - Reseat RAM modules. Try booting with one RAM module at a time.
 - Clear the CMOS by removing the battery (BAT1) for a few seconds or using the JBAT1 jumper.
- **Peripheral Devices Not Detected:**
 - Ensure devices are properly connected to the correct USB or other ports.
 - Install the latest drivers for your motherboard and devices from the MSI website.



Image: A close-up view of the rear input/output (I/O) panel of the MSI A320M PRO-VH PLUS motherboard, showing various ports including PS/2, USB, HDMI, VGA, LAN, and audio jacks.

SPECIFICATIONS

Feature	Detail
Brand	MSI
Model Name	A320M PRO-VH PLUS
CPU Socket	Socket AM4
Compatible Processors	AMD 1st Generation Ryzen, AMD A-Series, AMD Athlon
Chipset Type	AMD A320
RAM Memory Technology	DDR4
Max RAM	32 GB DDR4
Memory Speed	2133 MHz (up to 3200MHz+ via A-XMP)
Platform	Windows 10
Product Dimensions	11.02 x 10.71 x 2.5 inches (micro-ATX form factor)
Item Weight	1.7 pounds
USB 2.0 Ports	1 (internal header, supports 2 ports)
Wireless Type	802.11a (Note: This refers to a general standard, actual wireless capability depends on installed expansion cards)

WHAT'S IN THE BOX

The retail package for the MSI A320M PRO-VH PLUS motherboard typically includes:



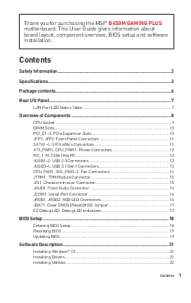
- MSI A320M PRO-VH PLUS Motherboard
- SATA Cables
- I/O Shield
- Quick Setup Guide / User Manual
- Driver CD/DVD

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official MSI website or contact your local retailer. MSI provides support resources including FAQs, driver downloads, and contact information for assistance with your product.

Official MSI Support Website: www.msi.com

Related Documents - A320M PRO-VH PLUS

	<p>MSI A320M PRO-VH PLUS Motherboard Specifications and Features</p> <p>Detailed specifications and features of the MSI A320M PRO-VH PLUS motherboard, supporting AMD Ryzen processors, DDR4 memory, and various connectivity options.</p>
	<p>MSI B550 GAMING GEN3 Motherboard User Guide</p> <p>Comprehensive user guide for the MSI B550 GAMING GEN3 Motherboard, covering installation, specifications, and features. Includes detailed instructions for CPU, RAM, and front panel connections, as well as safety information and BIOS setup.</p>
	<p>MSI B450M GAMING PLUS Motherboard User Guide</p> <p>Comprehensive user guide for the MSI B450M GAMING PLUS motherboard, covering safety information, specifications, component overview, BIOS setup, and software installation.</p>

