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Vikye H510M-D3H M.2

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Model: H510M-D3H M.2

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vikye H510M-D3H M.2 Series Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

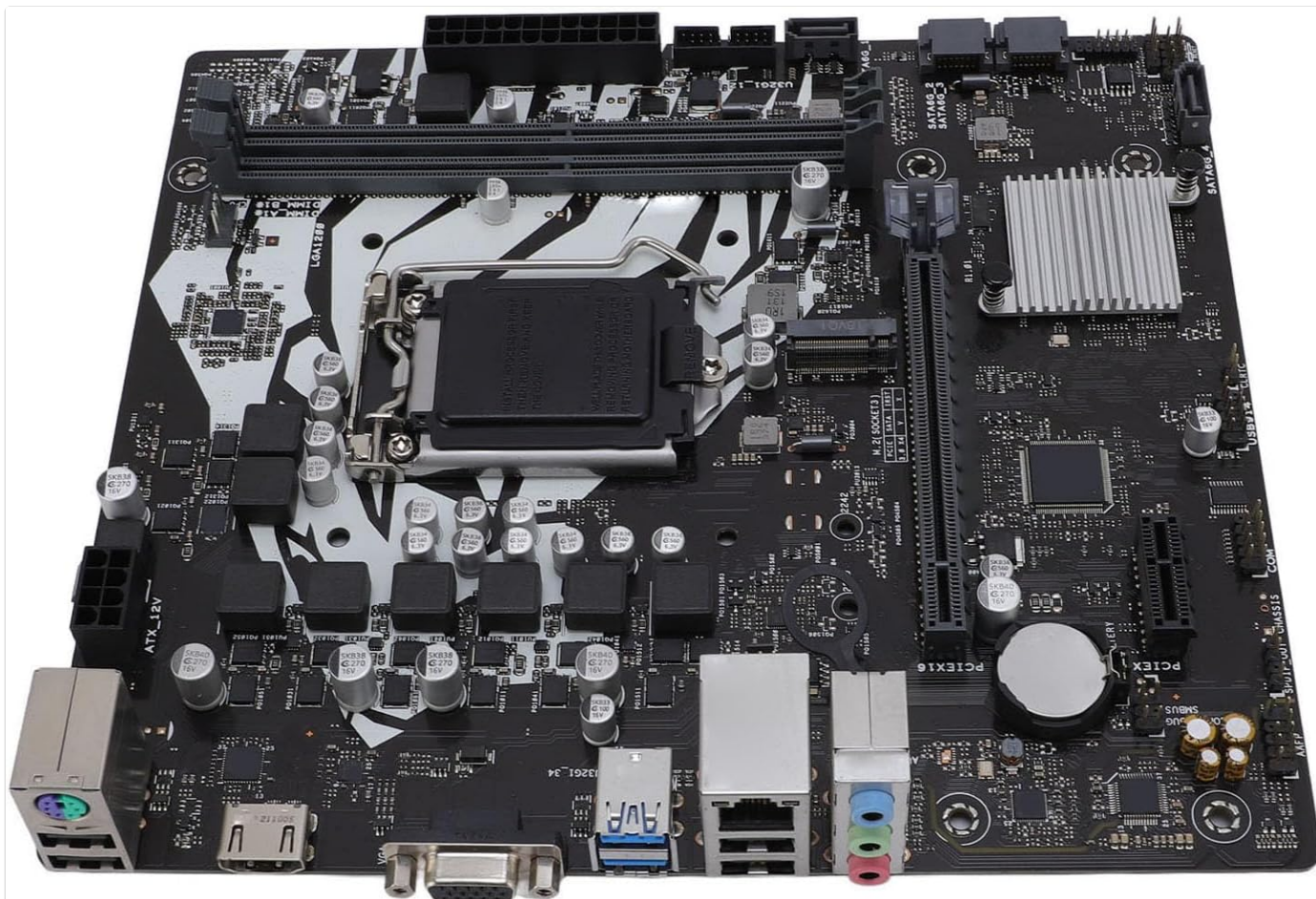


Image: Top-down view of the Vikye H510M-D3H M.2 Motherboard, showcasing the LGA 1200 CPU socket, DDR4 memory slots, PCIe slots, and various connectors.

2. KEY FEATURES

- **Strong Compatibility:** LGA 1200 socket supporting 10th and 11th Gen Intel Core and Celeron CPU processors.
- **High Capacity Memory:** Two DDR4 DIMM slots supporting up to 64GB of dual-channel DDR4 3200 (OC) MHz memory.
- **Multiple Display Outputs:** Equipped with VGA and HD Multimedia Interface (HDMI) ports for versatile monitor connections.
- **Stability and Longevity:** Constructed with robust PCB and metal materials, featuring a 4+2 phase power delivery system with solid capacitors.
- **PCIe 4.0 Slots:** Includes one PCIe x16 slot and one PCIe x1 slot for expansion cards.
- **Storage Options:** One M.2 interface and four Serial ATA III interfaces.
- **Integrated Networking:** Built-in 1GbE network card for stable internet connectivity.
- **USB Connectivity:** Features 4x USB 3.2 Gen1 interfaces (2 internal + 2 rear) and 6x USB 2.0 interfaces (2 internal + 4 rear).

3. SPECIFICATIONS

Component	Specification
Mainboard Model	H510M-D3H M.2
Chipset	Intel H510
CPU Socket	LGA 1200
Supported CPU Types	10th/11th Gen Intel Core, Celeron Series Processors
Memory Type	2 x DDR4 DIMM
Max Memory Capacity	64GB (DDR4 3200 (OC) MHz)
PCI-E Standard	PCI-E 4.0
PCI-E Slots	1x PCI-E X16, 1x PCI-E X1
Storage Interfaces	1x M.2, 4x Serial ATA III
USB Interfaces	4x USB 3.2 Gen1 (2 internal+2 rear), 6x USB 2.0 (2 internal+4 rear)
Video Interfaces	1x VGA, 1x HD Multimedia Interface (HDMI)
Power Interfaces	1x 8-pin, 1x 24-pin
Sound Chip	Integrated Realtek ALC887/897 7.1 Channel
Ethernet Chip	Built-in 1GbE Network Card
Form Factor	M-ATX

4. SETUP AND INSTALLATION

This section outlines the general steps for installing the Vikye H510M-D3H M.2 Motherboard into a computer chassis and connecting essential components. Always ensure your system is powered off and unplugged before handling internal components.

1. **Prepare the Chassis:** Ensure your computer case is compatible with Micro-ATX motherboards. Install the I/O shield provided with your chassis into the rear panel opening.
2. **Install the CPU:**
 - Locate the LGA 1200 CPU socket on the motherboard.
 - Open the CPU socket lever and carefully align the CPU with the socket, matching the triangular markers on both the CPU and the socket.
 - Gently place the CPU into the socket without forcing it.
 - Close the lever to secure the CPU in place.
 - Apply thermal paste and install the CPU cooler according to its manufacturer's instructions.
3. **Install Memory (RAM):**
 - Locate the two DDR4 DIMM slots.
 - Open the clips at both ends of the memory slot.
 - Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
 - Press down firmly on both ends of the memory module until the clips snap into place, securing the RAM.
4. **Mount the Motherboard:** Carefully place the motherboard into the chassis, aligning the screw holes with the standoffs. Secure the motherboard with screws.
5. **Connect Power Supply:** Connect the 24-pin ATX main power connector and the 8-pin ATX 12V power connector from your power supply unit (PSU) to the corresponding ports on the motherboard.
6. **Install Storage Devices:**
 - **M.2 SSD:** If installing an M.2 SSD, insert it into the M.2 slot and secure it with the provided screw.
 - **SATA Drives:** Connect SATA data cables from your storage drives (HDDs/SSDs) to the SATA III ports on the motherboard. Connect SATA power cables from your PSU to the drives.
7. **Install Expansion Cards (Optional):** For graphics cards, insert into the PCIe x16 slot. For other expansion cards (e.g., Wi-Fi cards), insert into the PCIe x1 slot. Secure cards with chassis screws.
8. **Connect Front Panel Cables:** Connect the power button, reset button, USB ports, audio jacks, and LED indicators from your chassis front panel to the corresponding headers on the motherboard. Refer to the motherboard layout diagram for specific header locations.
9. **Connect Peripherals:** Connect your monitor to the VGA or HDMI port, and connect USB peripherals (keyboard, mouse) to the rear USB ports.



Image: Close-up view of the rear I/O panel of the Vikye H510M-D3H M.2 Motherboard, showing PS/2, USB, HDMI, and VGA ports.

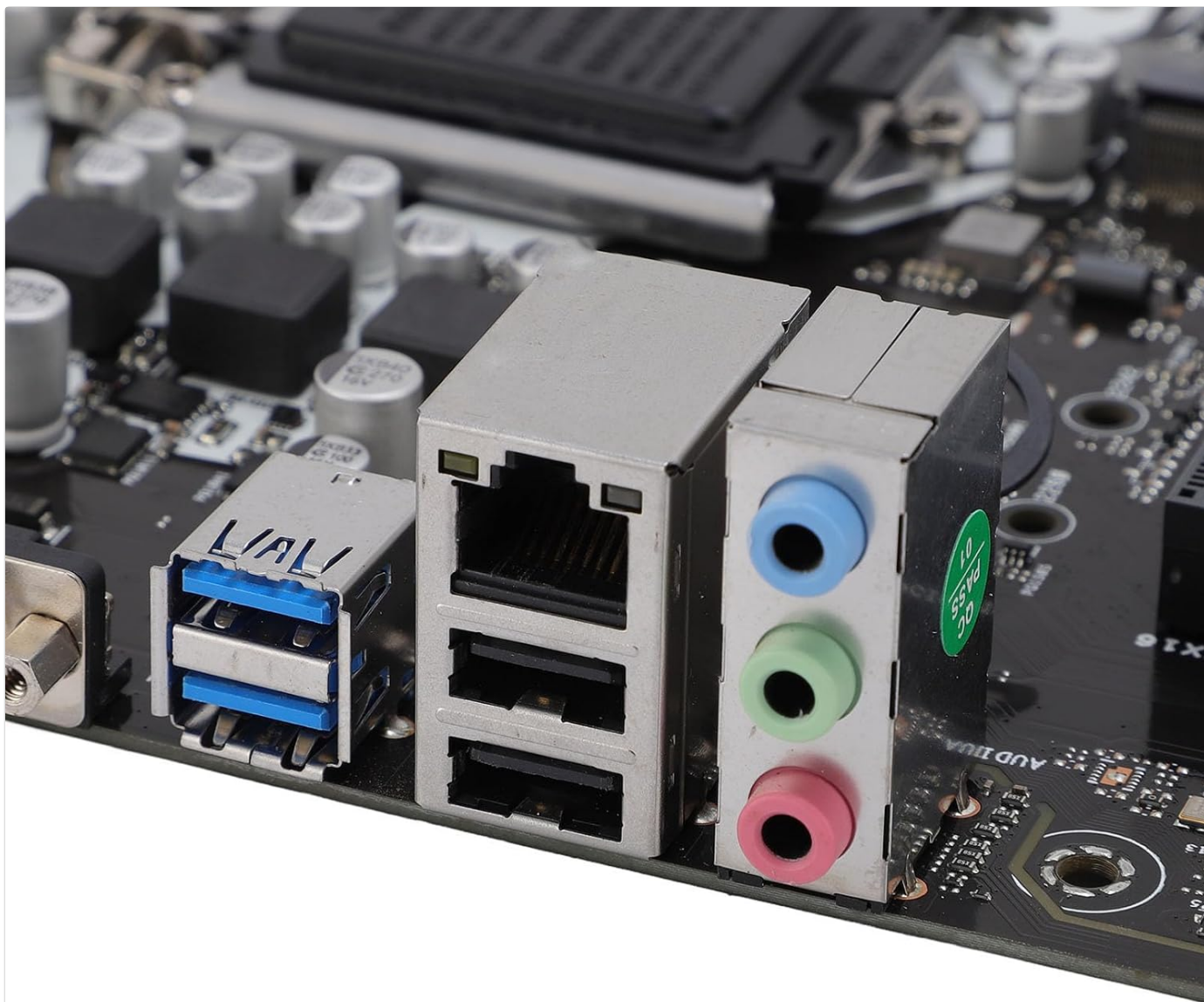


Image: Another close-up view of the rear I/O panel, highlighting USB 3.2 Gen1, Ethernet, and audio jacks.

5. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system and proceed with software setup.

1. **Initial Boot:** Power on your computer. The system should display the BIOS/UEFI splash screen.
2. **BIOS/UEFI Configuration:** Press the designated key (usually DEL or F2) during startup to enter the BIOS/UEFI setup. Here you can configure boot order, memory settings (including XMP for 3200MHz OC), and other system parameters. Save changes before exiting.
3. **Operating System Installation:** Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install the OS.
4. **Driver Installation:** After OS installation, install the necessary drivers for the motherboard chipset, integrated graphics (if applicable), audio, and network. These are typically found on the manufacturer's website or an included driver disc.

6. MAINTENANCE

Proper maintenance ensures the longevity and stable performance of your motherboard and overall system.

- **Keep it Clean:** Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.

- **Ensure Proper Airflow:** Maintain good airflow within your PC case to prevent overheating. Ensure case fans are functioning correctly and are free of obstructions.
- **BIOS/UEFI Updates:** Periodically check the manufacturer's website for BIOS/UEFI updates. Updates can improve stability, compatibility, and performance. Follow update instructions carefully to avoid system damage.
- **Component Checks:** Periodically verify that all cables are securely connected and components (like RAM, graphics card) are properly seated in their slots.

STABILITY AND LONGEVITY

Crafted with robust metal, PCB materials, this motherboard is built to provide stable performance and an extended lifespan. It includes 1 M.2 interface and 4 Serial III interfaces for versatile storage options.

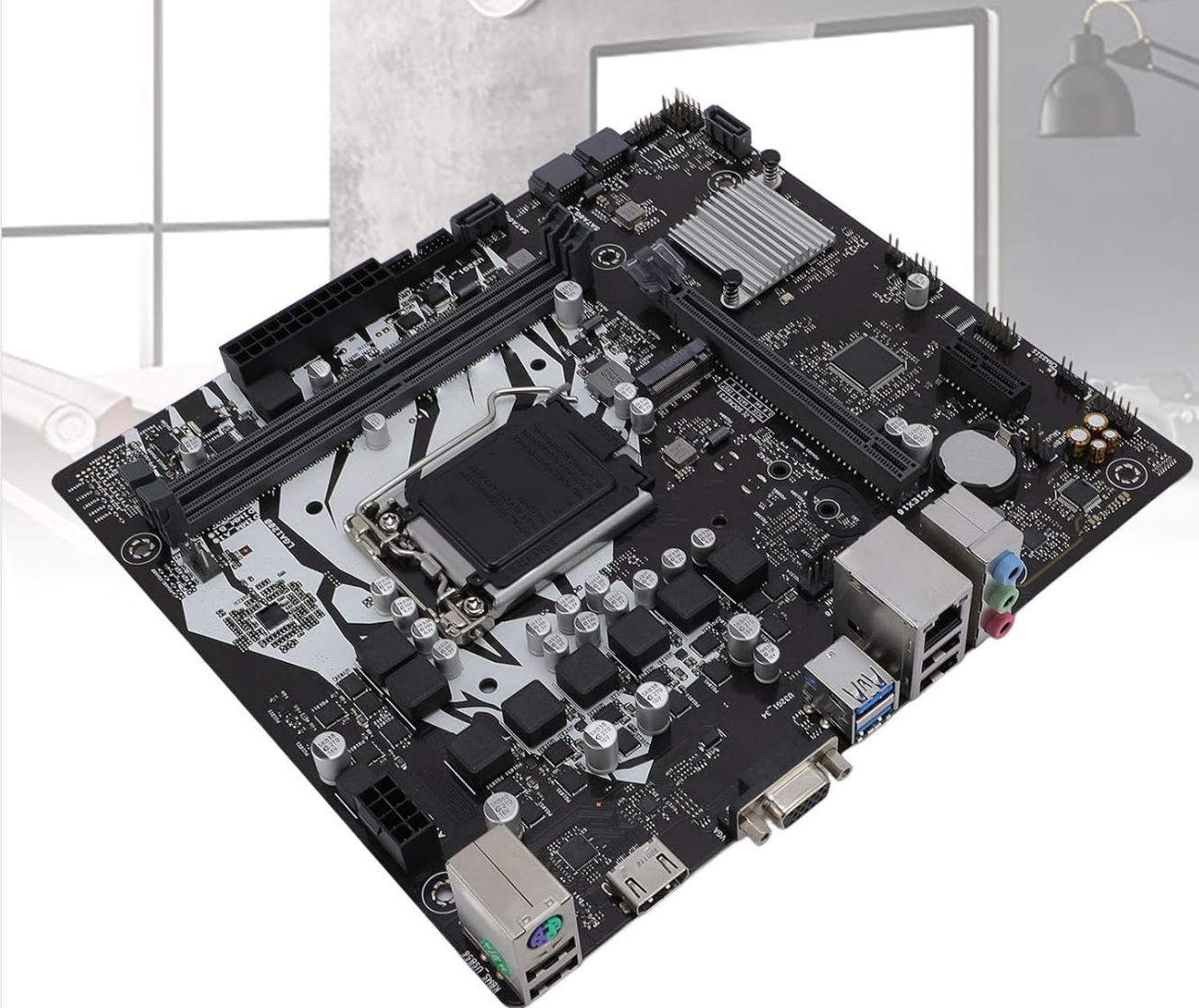


Image: The Vikye H510M-D3H M.2 Motherboard, illustrating its robust construction and components designed for stable, long-term operation.

7. TROUBLESHOOTING

This section addresses common issues you might encounter during setup or operation. If an issue persists, consult the manufacturer's support resources.

- **No Power:**

- Check if the power supply is connected correctly to both the wall outlet and the motherboard (24-pin and 8-pin connectors).
- Ensure the power button cable from the chassis is correctly connected to the motherboard header.
- Verify the power supply unit (PSU) switch is in the 'ON' position.

- **No Display Output:**

- Ensure the monitor is connected to the correct video output port on the motherboard or graphics card.
- Verify the graphics card (if installed) is properly seated in its PCIe slot and has adequate power.
- Try reseating the RAM modules.

- **System Instability/Crashes:**

- Check CPU and GPU temperatures to ensure they are within safe operating limits.
- Verify RAM modules are correctly installed and functioning.
- Ensure all drivers are up to date.
- Run memory diagnostic tools to check for RAM errors.

- **Operating System Not Booting:**

- Check the boot order in BIOS/UEFI to ensure the correct drive is selected.
- Verify SATA or M.2 data cables are securely connected.
- If recently installed, ensure the OS installation was successful.

- **Peripheral Not Detected:**

- Try connecting the peripheral to a different USB port.
- Ensure the necessary drivers for the peripheral are installed.
- Check the motherboard's USB headers for proper connection if it's a front panel port.

PCIe SLOTS

PCIe 4.0 standard with 1x PCIe x16 slot and 1x PCIe x1 slot for expanding graphics cards, sound cards, network cards, and other PCIe devices, bringing you professional performance.

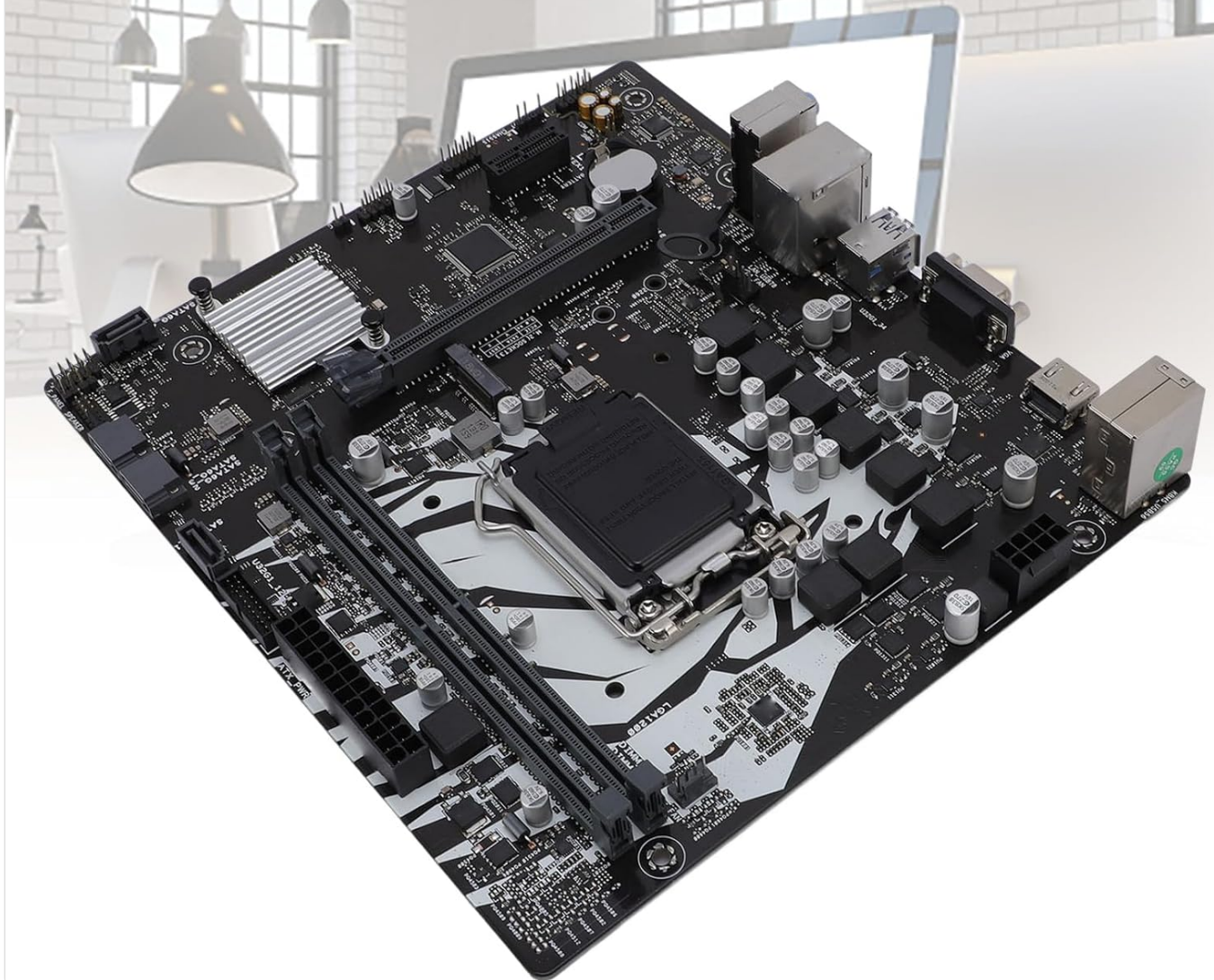


Image: The Vikye H510M-D3H M.2 Motherboard highlighting its PCIe x16 and PCIe x1 slots for expansion cards.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Vikye website. Product registration may be required for warranty claims.

If you encounter issues not covered in this manual, please contact Vikye customer support for further assistance. Have your product model and serial number ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

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