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ZEBRONICS H110M2

ZEBRONICS H110M2 Micro-ATX Motherboard User Manual

Model: ZEB-H110M2

INTRODUCTION

The ZEBRONICS H110M2 Micro-ATX Motherboard is designed to provide a robust and efficient foundation for your computing system. This manual provides essential information for the proper installation, operation, and maintenance of your motherboard. It supports Intel 6th, 7th, 8th & 9th Generation Processors with an LGA 1151 socket, DDR4 memory, and features an NVMe M.2 slot for high-speed storage. With integrated 5.1 audio and various connectivity options, it is suitable for a wide range of personal computer builds.

PRODUCT OVERVIEW

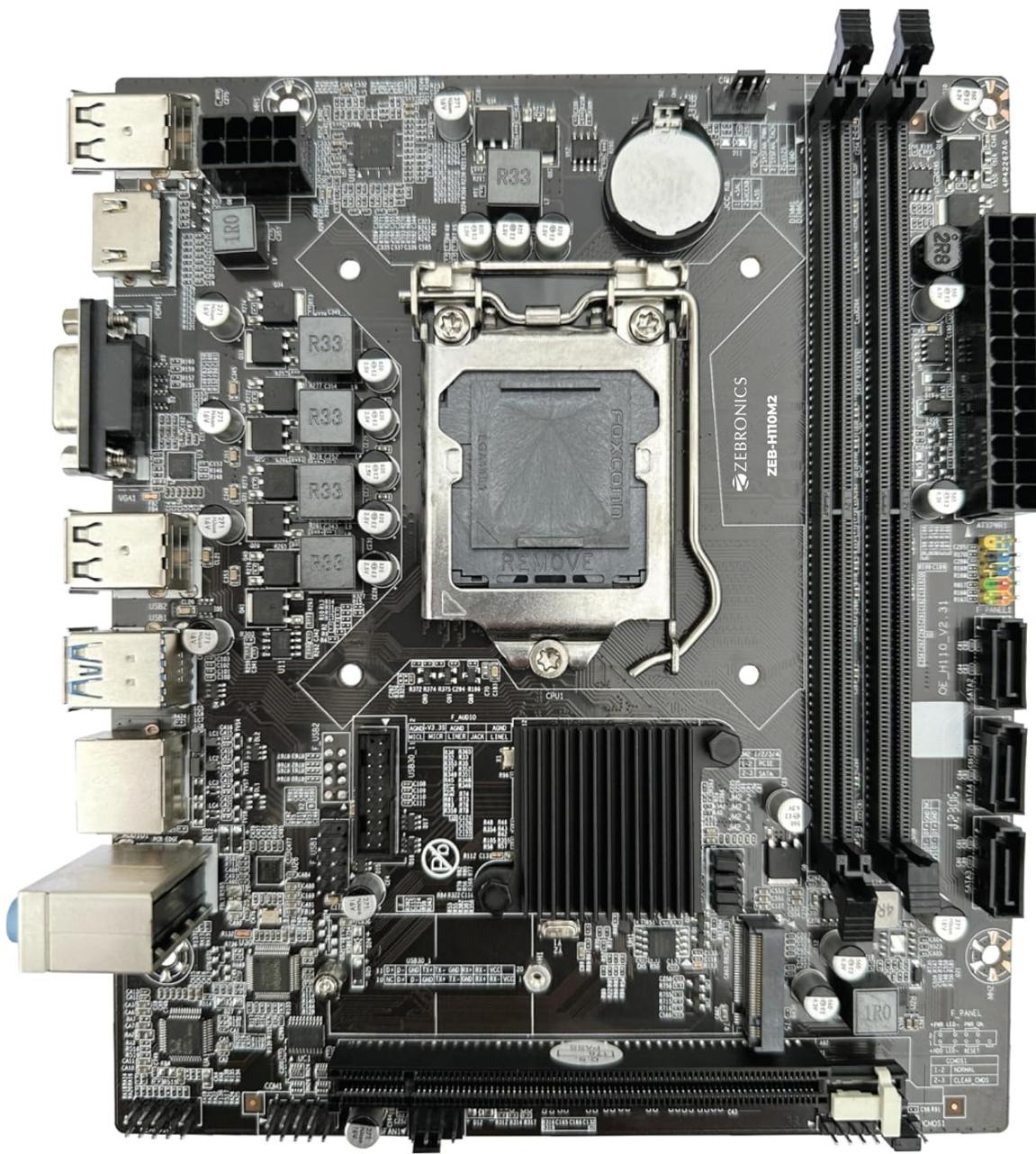


Figure 1: Top-down view of the ZEBRONICS H110M2 Micro-ATX Motherboard, showcasing the CPU socket, RAM slots, PCIe slot, and various connectors.

The H110M2 motherboard is a Micro-ATX form factor board, ideal for compact to mid-sized PC builds. It features a black PCB with clearly labeled components.

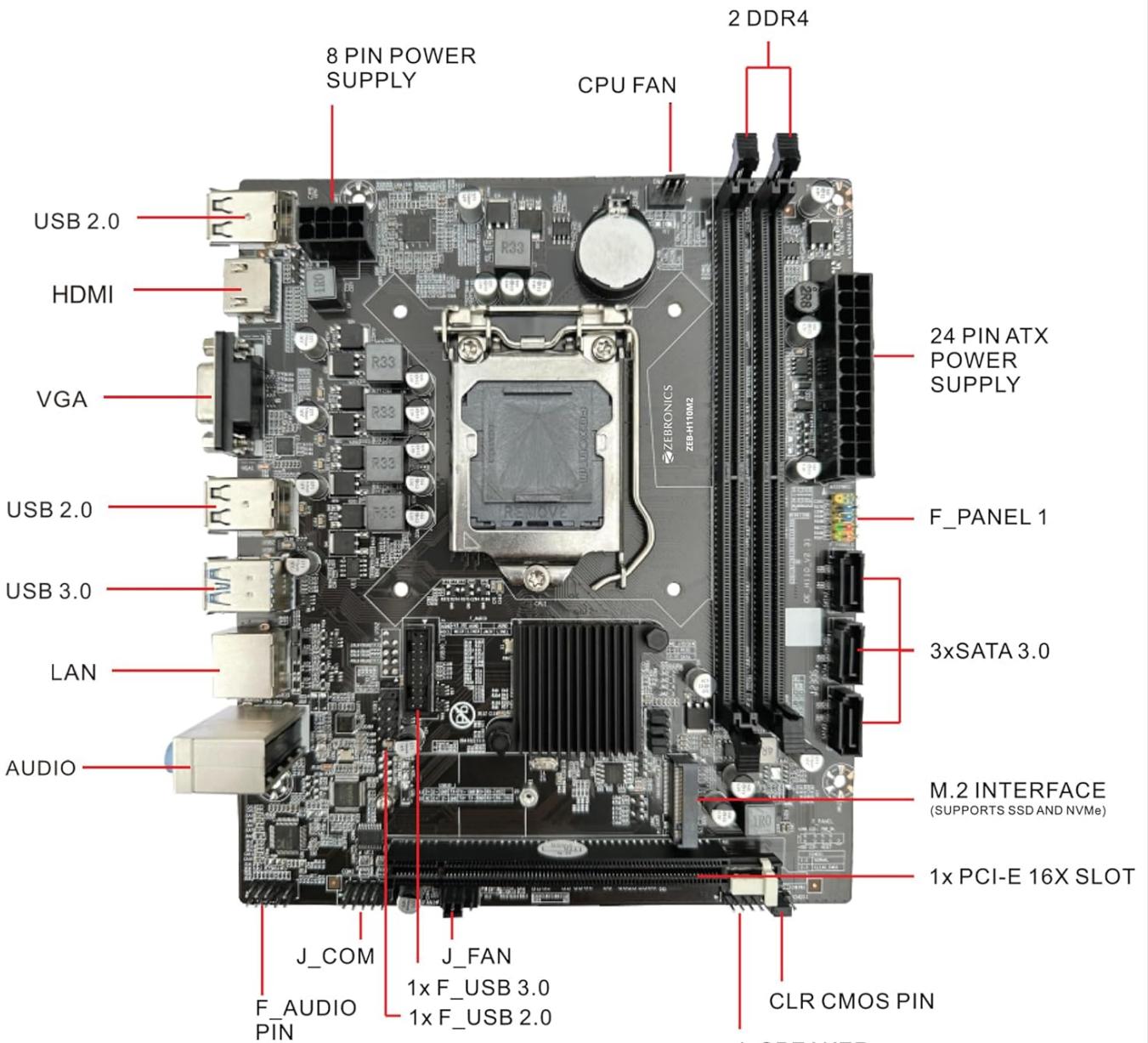


Figure 2: Detailed diagram of the H110M2 motherboard with key components and ports labeled, including power connectors, CPU fan header, DDR4 slots, SATA ports, M.2 interface, PCIe slot, and front panel connectors.

Key components include:

- **LGA 1151 Socket:** For Intel 6th, 7th, 8th & 9th Generation Processors.
- **DDR4 Memory Slots:** Two slots supporting up to 32GB of DDR4 RAM at speeds from 2133MHz to 2666MHz.
- **PCIe 16x Slot:** For graphics cards and other expansion cards.
- **NVMe M.2 Slot:** For high-speed M.2 NVMe SSDs.
- **SATA 3.0 Ports:** Three ports for connecting traditional SATA storage devices.
- **Rear I/O Ports:** Includes USB 2.0, USB 3.0, HDMI, VGA, LAN (RJ45), and Audio ports.

SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and disconnected from the power source. Handle the motherboard by its edges to avoid static discharge.

- 1. Prepare the Case:** Install standoffs in your PC case according to the Micro-ATX form factor.
- 2. Install the I/O Shield:** Insert the motherboard's I/O shield into the rear opening of your PC case.
- 3. Mount the Motherboard:** Carefully align the motherboard with the standoffs and I/O shield, then secure it with screws.
- 4. Install CPU:** Open the CPU socket lever, align the CPU with the triangle marker on the socket, gently place the CPU, and close the lever.
- 5. Install CPU Cooler:** Attach the CPU cooler according to its manufacturer's instructions, ensuring proper thermal paste application.
- 6. Install RAM:** Open the clips on the DDR4 memory slots, align the RAM module notch with the slot key, and press down firmly until the clips lock into place.
- 7. Install Storage Devices:**
 - NVMe M.2 SSD:** Insert the M.2 SSD into the NVMe M.2 slot at an angle, then gently push it down and secure it with the provided screw.
 - SATA Drives:** Connect SATA data cables from your SATA drives to the SATA 3.0 ports on the motherboard. Connect power cables from your PSU to the drives.
- 8. Install Graphics Card (Optional):** Insert your PCIe graphics card into the PCIe 16x slot until it clicks into place. Secure it with the case screw.
- 9. Connect Power Supply:**
 - Connect the 24-pin ATX power connector from your PSU to the main power header on the motherboard.
 - Connect the 8-pin CPU power connector from your PSU to the CPU power header.
- 10. Connect Front Panel Cables:** Connect the power switch, reset switch, HDD LED, power LED, and front panel audio/USB cables to their respective headers on the motherboard (refer to Figure 2 for locations).
- 11. Install Drivers:** After initial setup and OS installation, install the necessary drivers for the motherboard chipset, audio, LAN, and other components. A driver CD is typically included.



Figure 3: Example of the ZEBRONICS Motherboard Installation Driver CD, which contains essential drivers for the motherboard's components.

OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system.

- BIOS/UEFI Access:** To enter the BIOS/UEFI setup, press the **DEL** or **F2** key during system startup. Here you can configure boot order, system time, and other advanced settings.
- Operating System Installation:** Install your preferred operating system (e.g., Windows, Linux) from a bootable USB drive or DVD.
- Driver Installation:** After OS installation, install all necessary drivers from the provided driver CD or the ZEBRONICS official

website to ensure optimal performance of all motherboard features (audio, LAN, chipset, etc.).

- **Connectivity:**

- **USB Ports:** Utilize the USB 3.0 ports for high-speed data transfer with compatible devices and USB 2.0 ports for peripherals like keyboards and mice.
- **LAN Port:** Connect an Ethernet cable to the RJ45 port for wired internet access (10/100 Mbps).
- **Audio Ports:** Connect speakers or headphones to the 5.1 audio jacks for immersive sound.
- **Video Outputs:** Use the HDMI or VGA ports to connect your display.

MAINTENANCE

Proper maintenance ensures the longevity and stable operation of your motherboard.

- **Dust Removal:** Regularly clean dust from the motherboard and other PC components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS/UEFI Updates:** Periodically check the ZEBRONICS website for BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow update instructions carefully to avoid system damage.
- **Driver Updates:** Keep your drivers updated to ensure optimal performance and compatibility with new software and hardware.
- **Cable Management:** Ensure all cables are neatly routed to improve airflow and prevent accidental disconnections.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
System does not power on.	Loose power connections, faulty PSU, incorrect front panel wiring.	Check 24-pin ATX and 8-pin CPU power connectors. Verify front panel power switch wiring. Test PSU.
No display output.	Incorrect display cable connection, faulty GPU/integrated graphics, monitor input not selected.	Ensure display cable is securely connected to both monitor and motherboard/GPU. Check monitor input source. Reseat GPU/RAM.
System reboots unexpectedly.	Overheating, unstable power, faulty RAM, driver issues.	Check CPU cooler installation and fan operation. Ensure PSU provides stable power. Test RAM modules. Update drivers.
USB devices not recognized.	Loose USB header connection, outdated USB drivers, faulty device.	Verify front panel USB header connection. Install/update USB drivers. Test device on another port/PC.
No audio.	Incorrect audio cable connection, outdated audio drivers, incorrect audio output selected in OS.	Check front panel audio header connection. Install/update audio drivers. Verify audio output settings in OS.
Slow internet connection (LAN).	Faulty Ethernet cable, outdated LAN drivers, network configuration issues.	Test with a different Ethernet cable. Update LAN drivers. Check network settings in OS.

For more complex issues, consult the ZEBRONICS support website or contact their customer service.

SPECIFICATIONS

Feature	Detail
Model	ZEB-H110M2
Form Factor	Micro-ATX
CPU Socket	LGA 1151
Compatible Processors	Intel 6th, 7th, 8th & 9th Generation Processors
Memory Technology	DDR4
Memory Slots	2 x DDR4 DIMM slots
Max. Memory Supported	32 GB
Memory Clock Speed	2133MHz / 2400MHz / 2666MHz
Graphics Interface	1 x PCIe 16x slot
Storage Interfaces	3 x SATA 3.0 ports, 1 x NVMe M.2 slot
Audio	5.1 Channel Audio
LAN	10/100 Mbps Ethernet (RJ45)
USB Ports	USB 3.0, USB 2.0
Video Output	HDMI, VGA
Dimensions (LxWxH)	22 x 5.5 x 27 cm
Weight	520 g
Country of Origin	China

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official ZEBRONICS website or contact their customer service department.

ZEBRONICS Official Website: www.zebronics.com

Keep your purchase receipt and product serial number handy when contacting support.

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Comprehensive user manual for the Zebronics ZEB FEEL 5 5.1 Speaker System. This document details features, technical specifications, control descriptions for both the speaker unit and remote, and operating instructions for Bluetooth, USB, FM, and AUX connectivity.