

ZEBRONICS Zeb-H61

Zebronics H61 Motherboard User Manual

Model: Zeb-H61

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Zebronics H61 Motherboard (Model Zeb-H61). This motherboard is designed to support Intel i7/i5/i3/Pentium/Celeron processors with an LGA 1155 socket and DDR3 memory. Please read this manual thoroughly before proceeding with installation to ensure proper setup and functionality.

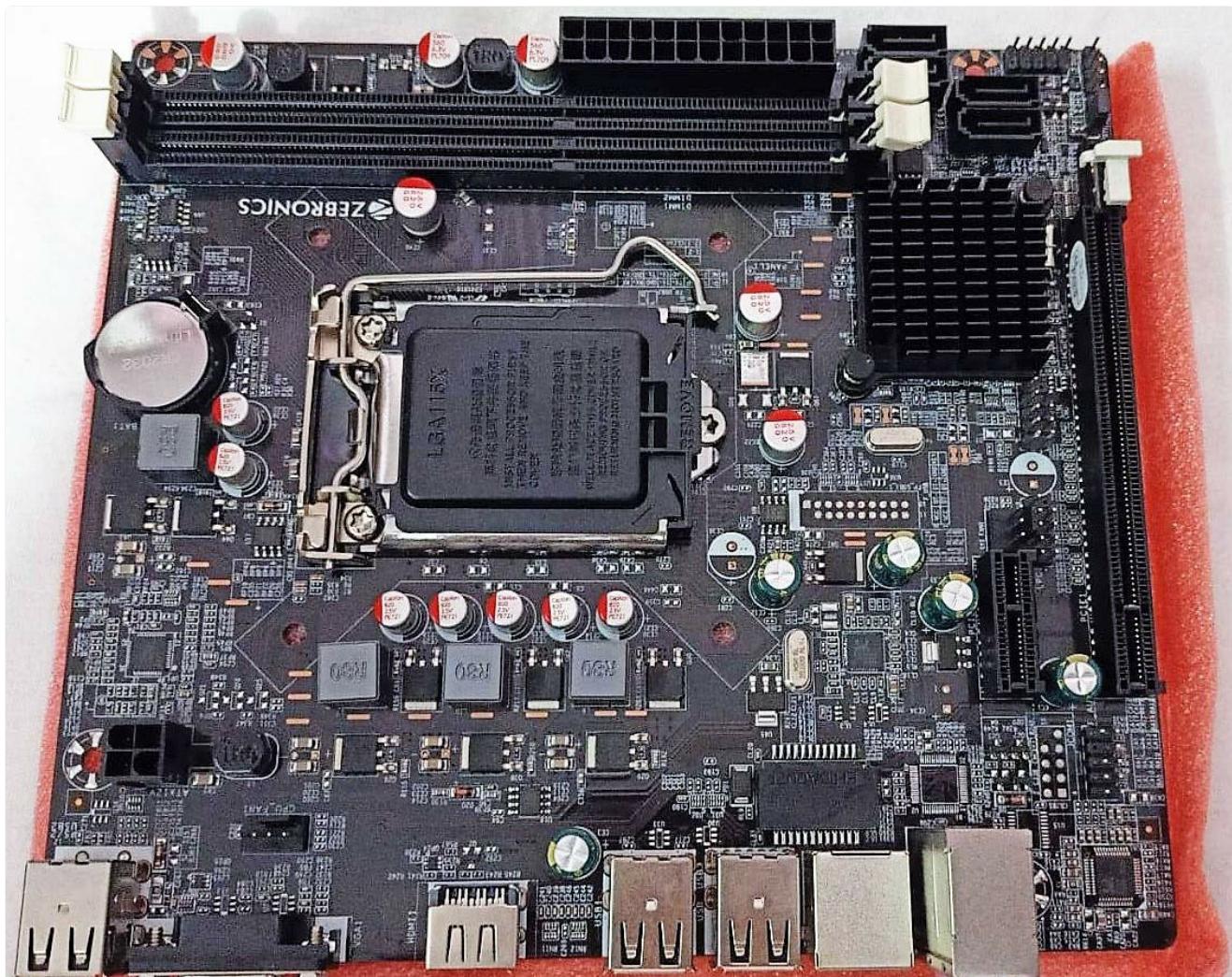


Figure 1.1: Overview of the Zebronics H61 Motherboard. This image displays the full layout of the motherboard, including the CPU socket, RAM slots, PCIe slots, and various connectors.

2. KEY FEATURES

- **Processor Support:** Compatible with Intel i7/i5/i3/Pentium/Celeron processors in LGA 1155 socket.
- **Chipset:** Intel H61 Chipset.
- **Memory:** Two DDR3 dual-channel slots supporting DDR3 1066/1333/1600MHz memory, up to 16GB.
- **LAN:** Realtek 8105E/8111E 100/1000 Mbps Ethernet.
- **Audio:** Realtek 662 3xAudio Jacks for 6-channel High Definition Audio.
- **Expansion Slots:** 1 x PCI Express x16 slot, 1 x PCI Express x1 slot.
- **Storage:** 4 x SATA 3Gb/s (SATAII) ports.
- **Rear I/O Ports:** 1 x PS/2 mouse/keyboard port, 1 x VGA port, 1 x HDMI port, 4 x USB 2.0 ports, 1 x LAN port, 3 x audio jacks.
- **On-Board Connectors:** Front panel connector, speaker connector, front panel audio connector, 4 x USB 2.0 ports, 4 x SATA 3Gb/s ports, 4-pin CPU fan connector, SYS fan connector, 24-pin ATX power connector, 4-pin ATX 12V power connector, 3-pin clear CMOS header.

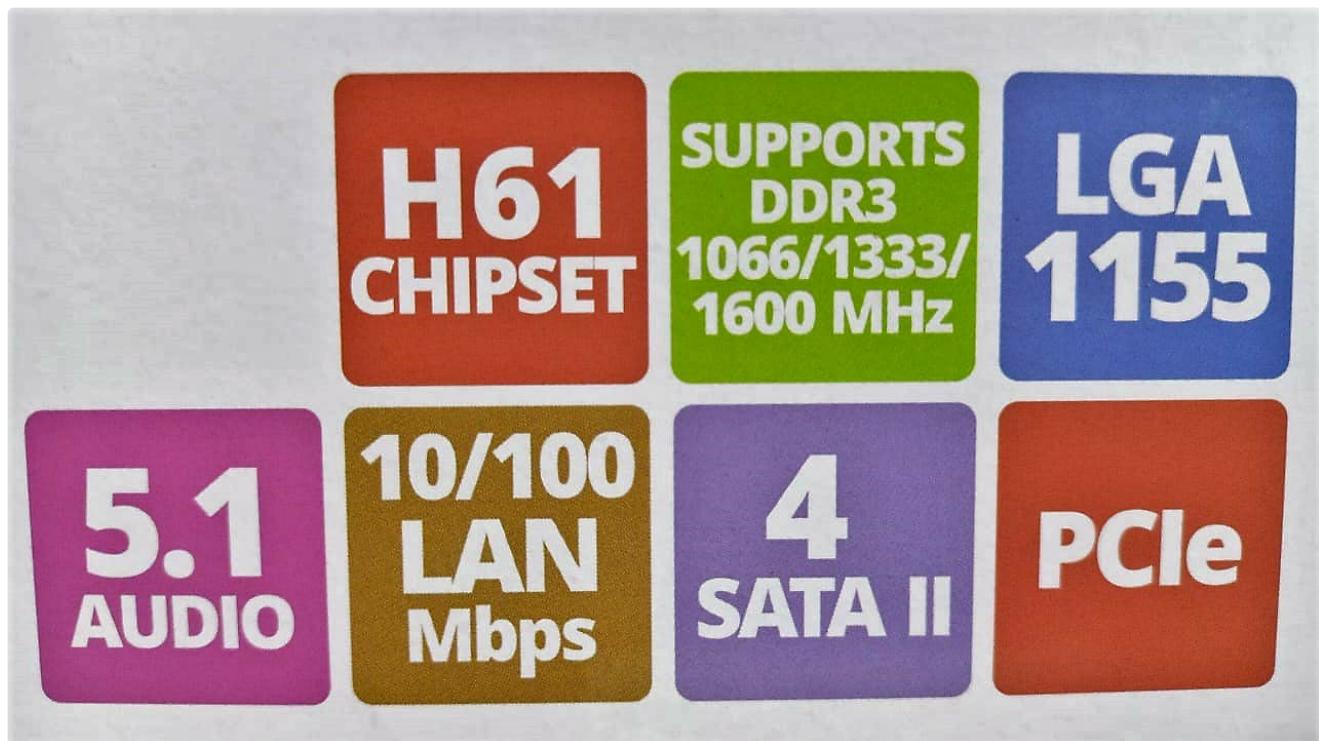


Figure 2.1: Key features of the H61 Motherboard. This image highlights the H61 chipset, DDR3 memory support, LGA 1155 socket, 5.1 audio, 10/100 LAN, 4 SATA II ports, and PCIe expansion.

3. SETUP AND INSTALLATION

Before beginning installation, ensure your computer is powered off and unplugged from the wall outlet. Wear an anti-static wrist strap or frequently touch a grounded metal object to prevent electrostatic discharge (ESD) damage to components.

3.1. Installing the CPU

1. Locate the LGA 1155 socket on the motherboard.
2. Gently push down the load lever and pull it sideways to open the CPU socket retention frame.
3. Carefully align the notches on your Intel LGA 1155 processor with the corresponding keys on the socket.

Ensure the gold triangle on the CPU aligns with the triangle on the socket.

4. Place the CPU gently into the socket. Do not force it.
5. Close the retention frame and push the load lever back into its locked position.
6. Apply a thin, even layer of thermal paste to the top of the CPU.
7. Install the CPU cooler according to its manufacturer's instructions, ensuring it is securely fastened.

3.2. Installing RAM (Memory Modules)

1. Locate the two DDR3 DIMM slots on the motherboard.
2. Open the clips at both ends of the DIMM slot.
3. Align the notch on the DDR3 memory module with the key in the DIMM slot.
4. Insert the memory module firmly into the slot until the clips snap into place. Ensure both clips are closed.
5. For dual-channel operation, install memory modules in both available slots.

3.3. Connecting Power Supply

1. Connect the 24-pin ATX main power connector from your power supply to the corresponding slot on the motherboard.
2. Connect the 4-pin ATX 12V power connector (CPU power) from your power supply to the designated slot near the CPU socket.

3.4. Connecting Storage Devices (SATA)

1. Locate the 4 SATA 3Gb/s (SATAII) ports on the motherboard.
2. Connect one end of a SATA data cable to a SATA port on the motherboard and the other end to your hard drive or SSD.
3. Connect the SATA power cable from your power supply to the storage device.

3.5. Installing Expansion Cards

1. Identify the PCI Express x16 slot for a graphics card or the PCI Express x1 slot for other expansion cards.
2. Remove the corresponding expansion slot cover from your PC case.
3. Align the card with the slot and press down firmly until it is seated correctly. Secure the card with a screw to the PC case.

3.6. Connecting Front Panel and Rear I/O

Connect the front panel connectors (power switch, reset switch, HDD LED, power LED, front panel audio, USB ports) to their respective headers on the motherboard. Refer to the motherboard diagram for exact pin assignments.

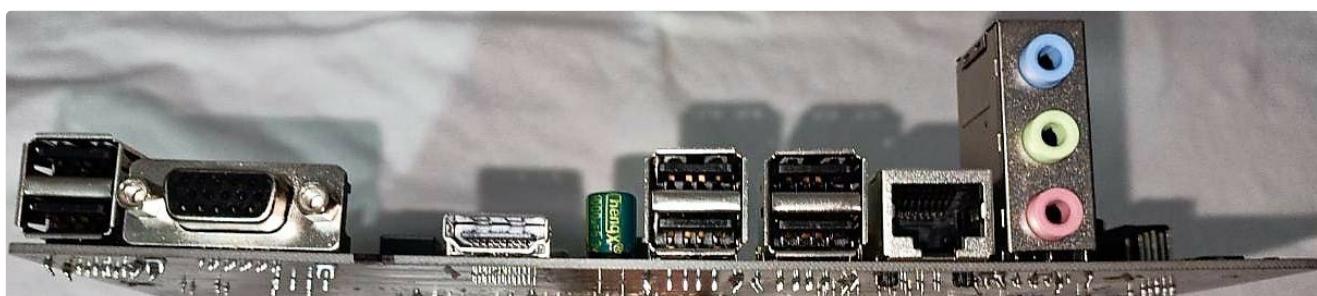


Figure 3.1: Rear I/O Panel of the Zebronics H61 Motherboard. This image shows the ports available at the back of the motherboard, including PS/2, VGA, HDMI, USB 2.0, LAN, and audio jacks.

- **PS/2 Port:** For legacy keyboard or mouse.
- **VGA Port:** For connecting to a monitor using a VGA cable.
- **HDMI Port:** For connecting to a monitor or display using an HDMI cable.

- **USB 2.0 Ports:** For connecting USB devices.
- **LAN Port:** For connecting to a network via an Ethernet cable.
- **Audio Jacks:** For connecting speakers, headphones, or microphones.

4. OPERATING INSTRUCTIONS

4.1. First Boot

1. After all components are installed and connected, close your PC case.
2. Connect your monitor, keyboard, mouse, and power cable.
3. Turn on the power supply switch (if applicable) and then press the power button on your PC case.
4. The system should boot up. If it does not, refer to the Troubleshooting section.

4.2. BIOS Setup

The BIOS (Basic Input/Output System) is firmware that initializes hardware during the booting process. To enter BIOS setup:

- During the initial boot sequence, repeatedly press the **DEL** or **F2** key (the exact key may vary, check on-screen prompts).
- Within the BIOS, you can configure various system settings such as boot order, date/time, CPU/memory settings, and enable/disable integrated peripherals.
- Save changes before exiting the BIOS.

4.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's components (chipset, LAN, audio, etc.). These drivers are typically provided on a CD/DVD included with the motherboard or can be downloaded from the Zebronics official website.

5. MAINTENANCE

- **Dust Removal:** Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Periodically check the Zebronics website for BIOS updates. BIOS updates can improve system stability, compatibility, and performance. Follow the update instructions carefully to avoid damaging the motherboard.
- **Cable Management:** Ensure all cables are neatly routed and do not obstruct airflow within the PC case.

6. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:**
 - Check if the power supply is connected correctly to the motherboard (24-pin and 4-pin connectors).
 - Ensure the power supply switch is in the 'ON' position.
 - Verify that the front panel power switch connector is correctly attached to the motherboard header.
- **No Display:**
 - Ensure the monitor is connected to the correct video output (VGA or HDMI on the motherboard, or a

dedicated graphics card).

- Check if the RAM modules are properly seated in their slots. Try reseating them.
- If using a dedicated graphics card, ensure it is fully seated in the PCIe slot and has auxiliary power connected (if required).
- Try booting with only one RAM stick.

- **System Instability/Crashes:**

- Check CPU and GPU temperatures. Overheating can cause instability.
- Ensure all drivers are installed and up to date.
- Run a memory diagnostic tool to check for faulty RAM.
- Verify that the power supply is sufficient for all components.

- **Peripheral Not Detected:**

- Ensure the device is properly connected to the correct port (USB, SATA, etc.).
- Check device manager in your operating system for driver issues.
- Test the peripheral on another system if possible.

7. SPECIFICATIONS

Motherboard

ZEB-H61

LGA 1155 Socket

Specifications

Supported CPU	: Socket 1155 Intel i7/i5/i3 series CPU
Chipset	: Intel H61/H67 Chipset
Memory supported	: 2 DDR3 Dual channel RAM slots Memory up to 16GB Supports dual channel DDR3 1066/1333/1600MHz memory
BIOS	: AMI BIOS
I/O Interface	: 1 x HDMI port, 1 x VGA Port, 6 x USB 2.0 Port, 1 x RJ45 Port, 1 x 3-in1 Audio
Onboard Interface	: 1 x 24 pin ATX Power Connector, 1 x 4 Pin ATX 12V Power Connector, 2 x USB Connectors(4 x USB 2.0 ports), 1 x Front Audio Connector, 1 x Front Panel Connector, 1 x Speaker Connector, 2 x Fan Connectors, 4 x SATA Ports, 1 x 3pin CMOS Header
Integrated sound	: With 6-Channel HD Audio Codec onboard
Integrated LAN	: Supports Realtek 8106E 10/100 Mbps
Expansion slot	: 1 x PCI Express x16 slot, 1 x PCI Express x1 slot
Form factor	: Micro-ATX

Figure 7.1: Detailed specifications as provided on the product packaging. This image lists CPU support, chipset, memory, BIOS, I/O interface, onboard interface, integrated sound, integrated LAN, expansion slots, and form factor.

Zebronics H61 Motherboard (Zeb-H61) Specifications

Feature	Description

Feature	Description
Brand	ZEBRONICS
Model	Zeb-H61
CPU Socket	LGA 1155
Supported CPU	Intel i7/i5/i3/Pentium/Celeron processors
Chipset	Intel H61 Express
Memory Slots	2 x DDR3 DIMM slots
Memory Type	DDR3 1066/1333/1600MHz (Dual Channel)
Max. Memory Capacity	16 GB
LAN	Realtek 8105E/8111E 100/1000 Mbps
Audio	Realtek 662 3xAudio Jacks (6-channel HD Audio)
SATA Ports	4 x SATA 3Gb/s (SATAII)
PCIe x16 Slot	1
PCIe x1 Slot	1
Rear USB Ports	4 x USB 2.0
Rear Video Outputs	1 x VGA, 1 x HDMI
Rear Other Ports	1 x PS/2 (mouse/keyboard), 1 x LAN, 3 x Audio Jacks
Form Factor	Micro-ATX
Dimensions (LxWxH)	22 x 6 x 27 cm
Item Weight	550 g

8. WARRANTY AND SUPPORT

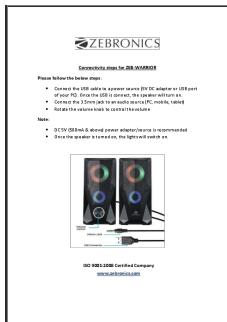
For warranty information and technical support, please refer to the documentation included with your product or visit the official Zebronics website. Keep your proof of purchase for warranty claims.

Zebronics Official Website: www.zebronics.com

For further assistance, you may contact Zebronics customer support through their website or the contact details provided in your product packaging.

Related Documents - Zeb-H61

 ZEBRONICS Mini Soundbar DELIGHT Pro User Manual www.zebronics.com	<p><u>Zebronics ZEB-Delight Pro Mini Soundbar User Manual - Features, Specifications, and Operation Guide</u></p> <p>This user manual provides comprehensive details for the Zebronics ZEB-Delight Pro Mini Soundbar. It covers product features, technical specifications, package contents, button descriptions, and step-by-step instructions for various modes including Bluetooth, USB, mSD, AUX, and FM Radio. Learn how to charge the device, use call functions, and set up TWS mode.</p>
 ZEBRONICS CROSS HAIR User Manual www.zebronics.com	<p><u>Zebronics ZEB-CROSSHAIR Premium Gaming Mouse User Manual & Software Guide</u></p> <p>Download the user manual for the Zebronics ZEB-CROSSHAIR Premium Gaming Mouse. Learn about features, specifications, software installation, DPI settings, RGB lighting, and macro customization.</p>
 ZEBRONICS Portable BT Speaker VITA User Manual www.zebronics.com	<p><u>Zebronics ZEB-VITA Portable Bluetooth Speaker User Manual</u></p> <p>Comprehensive user manual for the Zebronics ZEB-VITA Portable BT Speaker. Learn about its features, specifications, button functions, charging, Bluetooth pairing, Micro SD/USB, AUX, FM radio, and TWS modes.</p>
 ZEBRONICS Power Bank MW61 User Manual www.zebronics.com	<p><u>Zebronics ZEB-MW61 10000mAh Power Bank User Manual Features, Specs & Charging</u></p> <p>Detailed user manual for the Zebronics ZEB-MW61 10000mAh Power Bank. Learn about its features, specifications, charging instructions, LED indicators, and package contents for optimal use.</p>
 ZEBRONICS Portable BT Speaker COUNTY 3 User Manual www.zebronics.com	<p><u>Zebronics ZEB-COUNTY 3 Portable BT Speaker User Manual Features, Specs, and Operation</u></p> <p>Comprehensive user manual for the Zebronics ZEB-COUNTY 3 portable Bluetooth speaker. Learn about its features, specifications, charging, pairing, modes (BT, FM, AUX, USB/Micro SD), and TWS connectivity.</p>



[Zebronics ZEB-WARRIOR Speaker Connectivity Guide](#)

Learn how to connect your Zebronics ZEB-WARRIOR multimedia speakers with this concise guide, covering USB and 3.5mm jack connections for optimal audio playback.