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ZEBRONICS H81

ZEBRONICS H81 LGA 1150 Motherboard User Manual

Model: H81

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ZEBRONICS H81 LGA 1150 Socket Motherboard. Designed for Intel Core i7/i5/i3 processors, this ATX motherboard supports DDR3 memory and features an Intel H81 Chipset. Please read this manual thoroughly before proceeding with installation to ensure proper functionality and to prevent damage.

CORE COMPUTERS 2 YEARS

WARRANTY

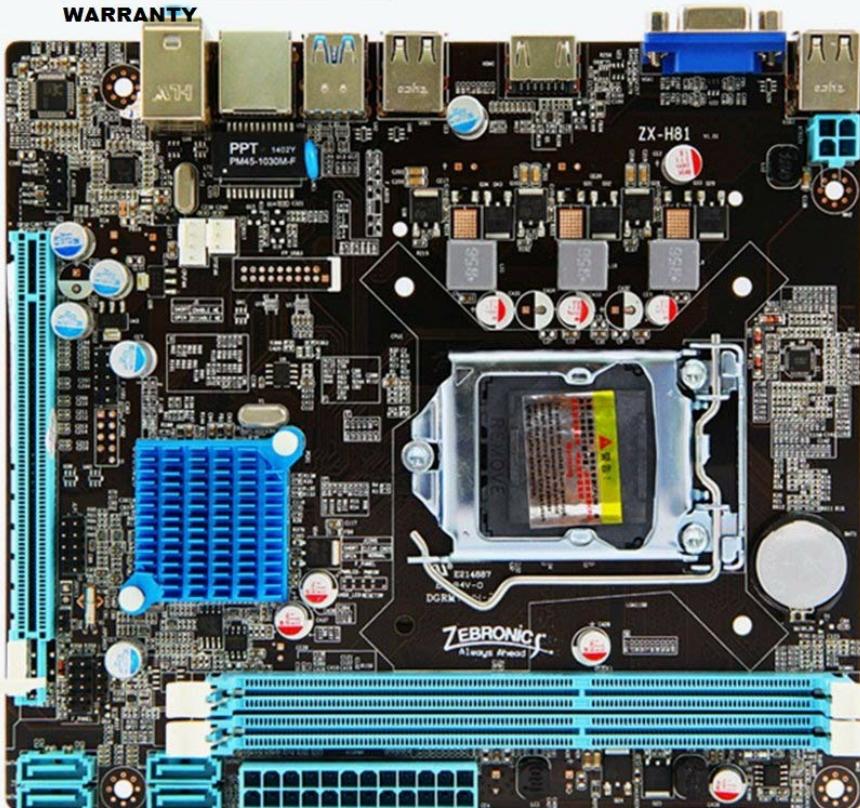


Image 1: Main view of the ZEBRONICS H81 LGA 1150 Motherboard, showcasing its layout and components.

2. SPECIFICATIONS

The following table outlines the key technical specifications of the ZEBRONICS H81 Motherboard:

Feature	Description
Processor Support	Intel Core i7/i5/i3 processors (LGA 1150 Socket)
Chipset	Intel H81
Memory Support	2 x DDR3 dual-channel slots, 1066/1333/1600MHz, Max 32GB
LAN	Realtek 8105E 100/1000 Mbps
Audio	Realtek 662, 3x Audio Jacks for 6 channel HD Audio

Feature	Description
Back Panel Ports	1x USB Mouse/Keyboard, 1x VGA, 1x HDMI, 2x USB 3.0, 2x USB 2.0, 1x LAN, 3x Audio Jacks
On-Board Connectors	Front panel, Speaker, Front panel audio, USB 2.0, 4x SATA, 4-pin CPU fan, SYS fan, 24-pin ATX power, 4-pin ATX 12V power, Clear CMOS header
Expansion Slots	1 x PCI Express x16 slot
Form Factor	ATX
Dimensions	21.3 x 5.7 x 26.8 cm
Weight	560 g

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Image 2: Visual representation of key features including H81 Chipset, DDR3 support, LGA 1150 socket, HDMI, 5.1 Audio, 100/1000 LAN, 4 SATA ports, and PCIe slot.

3. SETUP GUIDE

Follow these steps for proper installation of your motherboard and its components:

1. **Preparation:** Ensure your computer case is compatible with the ATX form factor. Gather necessary tools including a screwdriver, thermal paste, and anti-static wrist strap.
2. **Install CPU:** Open the CPU socket lever. Carefully align the CPU with the socket (match the golden triangle on the CPU with the triangle on the socket) and gently place it in. Close the lever to secure the CPU. Apply a thin, even layer of thermal paste to the CPU's heat spreader.
3. **Install CPU Cooler:** Mount the CPU cooler according to its manufacturer's instructions, ensuring good contact with the CPU and proper fan orientation. Connect the CPU fan cable to the 4-pin CPU fan connector on the motherboard.
4. **Install RAM:** Open the clips on both ends of the DDR3 memory slots. Align the RAM modules with the slots, ensuring the notch on the module matches the key in the slot. Press down firmly on both ends until the clips snap into place.
5. **Mount Motherboard:** Install the I/O shield into the rear opening of your computer case. Carefully place the motherboard into the case, aligning the screw holes with the standoffs. Secure the motherboard with screws.
6. **Connect Power:** Connect the 24-pin ATX main power connector and the 4-pin ATX 12V CPU power connector from your power supply to the corresponding ports on the motherboard.
7. **Connect Storage Devices:** Use SATA cables to connect your hard drives or SSDs to the SATA ports on the motherboard. Connect the power cables from your power supply to these devices.
8. **Connect Front Panel Cables:** Connect the power switch, reset switch, HDD LED, power LED, and front panel audio/USB cables from your case to the respective headers on the motherboard. Refer to the motherboard diagram for correct pin assignments.
9. **Install Expansion Cards (Optional):** If installing a graphics card or other PCI Express cards, insert them into the appropriate slots and secure them with a screw.

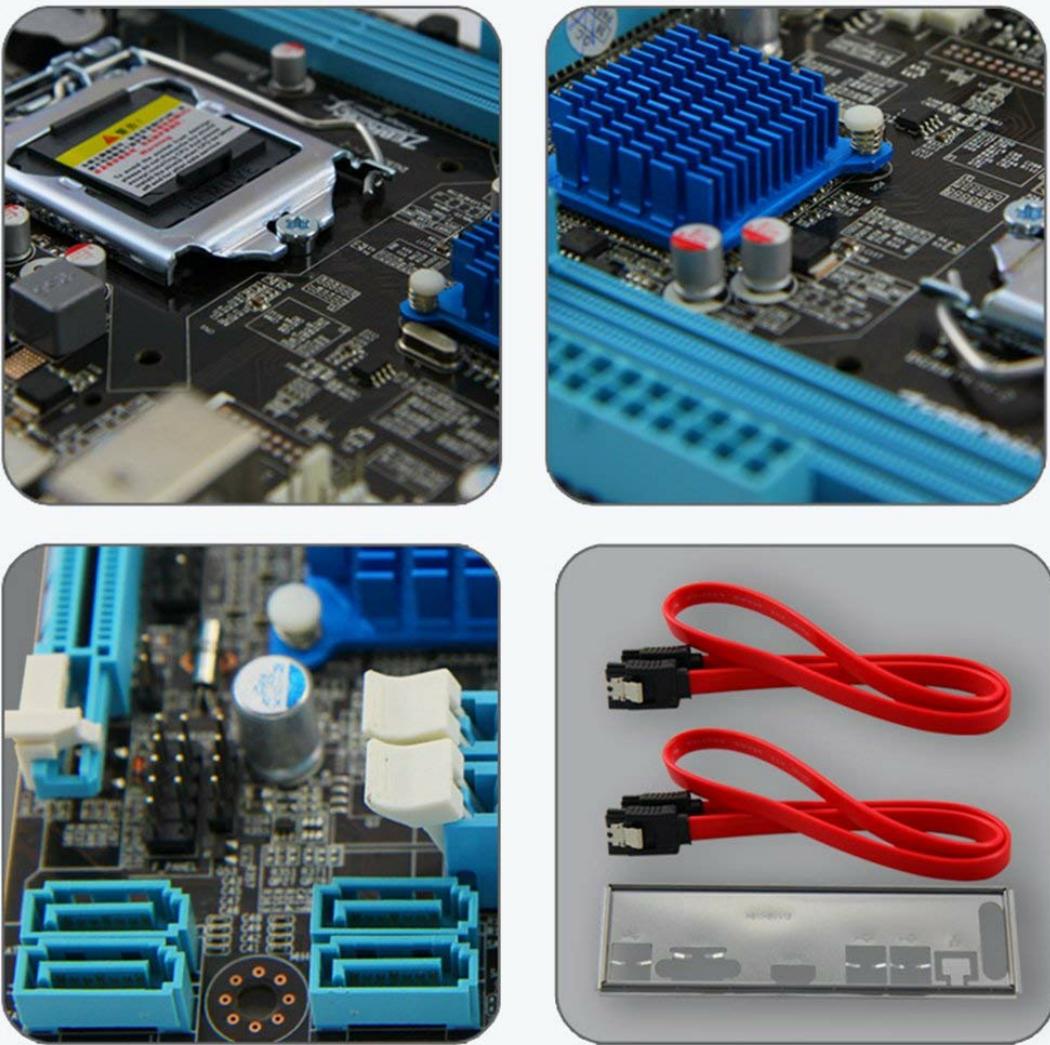


Image 3: Close-up views of motherboard components such as the CPU socket, chipset heatsink, SATA ports, and included accessories like SATA cables and the I/O shield.

4. OPERATING INSTRUCTIONS

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

- 1. Initial Power On:** After ensuring all connections are secure, connect your monitor, keyboard, and mouse. Plug in the power cord and press the power button on your computer case.
- 2. BIOS/UEFI Setup:** During startup, repeatedly press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, and other advanced settings. Save changes and exit to continue booting.
- 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 your motherboard (chipset, LAN, audio, graphics) from the included driver CD or the ZEBRONICS website.

i3-i5-i7 all 4th generation processor support

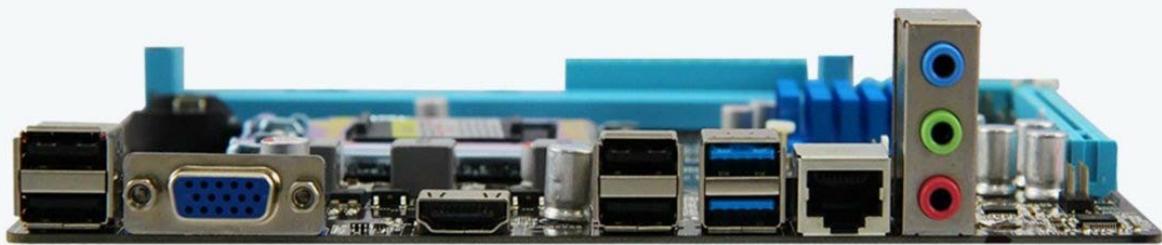


Image 4: Rear I/O panel of the ZEBRONICS H81 Motherboard, showing ports for USB, VGA, HDMI, LAN, and audio.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your motherboard:

- **Dust Removal:** Periodically clean dust from inside your computer case, especially from heatsinks and fans, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your motherboard drivers (chipset, LAN, audio) updated to the latest versions available from the ZEBRONICS official website to ensure compatibility and performance.
- **BIOS/UEFI Updates:** Only update the BIOS/UEFI if necessary, following the instructions provided by ZEBRONICS carefully. Incorrect BIOS updates can render your motherboard inoperable.
- **Cable Management:** Ensure internal cables are neatly routed to improve airflow and prevent interference.

6. TROUBLESHOOTING

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

- **No Power/No Boot:**

- Check all power connections (24-pin ATX, 4-pin ATX 12V, CPU fan).
- Ensure the power supply is switched on and functioning.
- Verify front panel power switch connection.
- Try clearing the CMOS (refer to the Clear CMOS header on the motherboard).

- **No Display:**

- Ensure the monitor is connected to the correct video output (VGA or HDMI on the motherboard, or dedicated graphics card).
- Reseat the RAM modules. Try booting with only one RAM module.
- If using a dedicated graphics card, ensure it is properly seated and powered.

- **System Instability/Crashes:**

- Check for overheating. Ensure CPU cooler is properly installed and fans are spinning.
- Run memory diagnostic tools to check RAM integrity.
- Update motherboard drivers and BIOS/UEFI.

- **Peripheral Issues (USB, LAN, Audio):**

- Ensure drivers for these components are installed and up to date.
- Check physical connections of cables and devices.
- Test with different peripherals to isolate the issue.

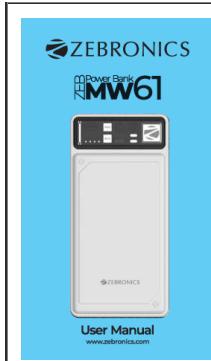
7. WARRANTY AND SUPPORT

Your ZEBRONICS H81 Motherboard comes with a **2-year warranty** provided by CORE COMPUTERS. Please retain your proof of purchase for warranty claims.

For technical support, driver downloads, or further assistance, please visit the official [ZEBRONICS support website](#) or contact their customer service.

Related Documents - H81

	<p>Zebronics ZEB-BLAST Wireless Headphones User Manual</p> <p>This user manual provides detailed information for the Zebronics ZEB-BLAST wireless headphones. It covers product features, technical specifications, button functions, pairing instructions, AUX mode, LED indicators, and important safety notes. Learn how to operate and enjoy your ZEB-BLAST headphones.</p>
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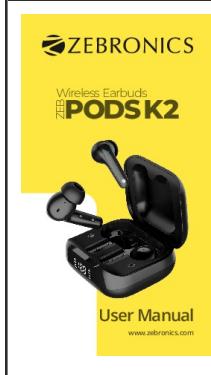
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