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Bewinner H310M-S2 Motherboard User Manual

LGA 1151, M-ATX for 8th/9th Gen Intel Core Processors

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Bewinner H310M-S2 Motherboard. Please read this manual thoroughly before installing or using the product to ensure correct setup and optimal performance. This motherboard is designed to support 8th and 9th generation Intel Core i9, i7, i5, and i3 processors, as well as Pentium and Celeron series processors, utilizing the LGA 1151 socket.

2. SAFETY INFORMATION

Observe the following safety precautions during installation and operation:

- Always disconnect the power supply from your computer before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling the motherboard or other components.
- Handle the motherboard by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep the motherboard away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Bewinner H310M-S2 Motherboard
- I/O Backplate

If any items are missing or damaged, please contact your retailer.

4. PRODUCT OVERVIEW

The Bewinner H310M-S2 is a micro-ATX motherboard featuring the Intel H310 Express Chipset. It is designed for robust performance in home, office, and gaming environments.

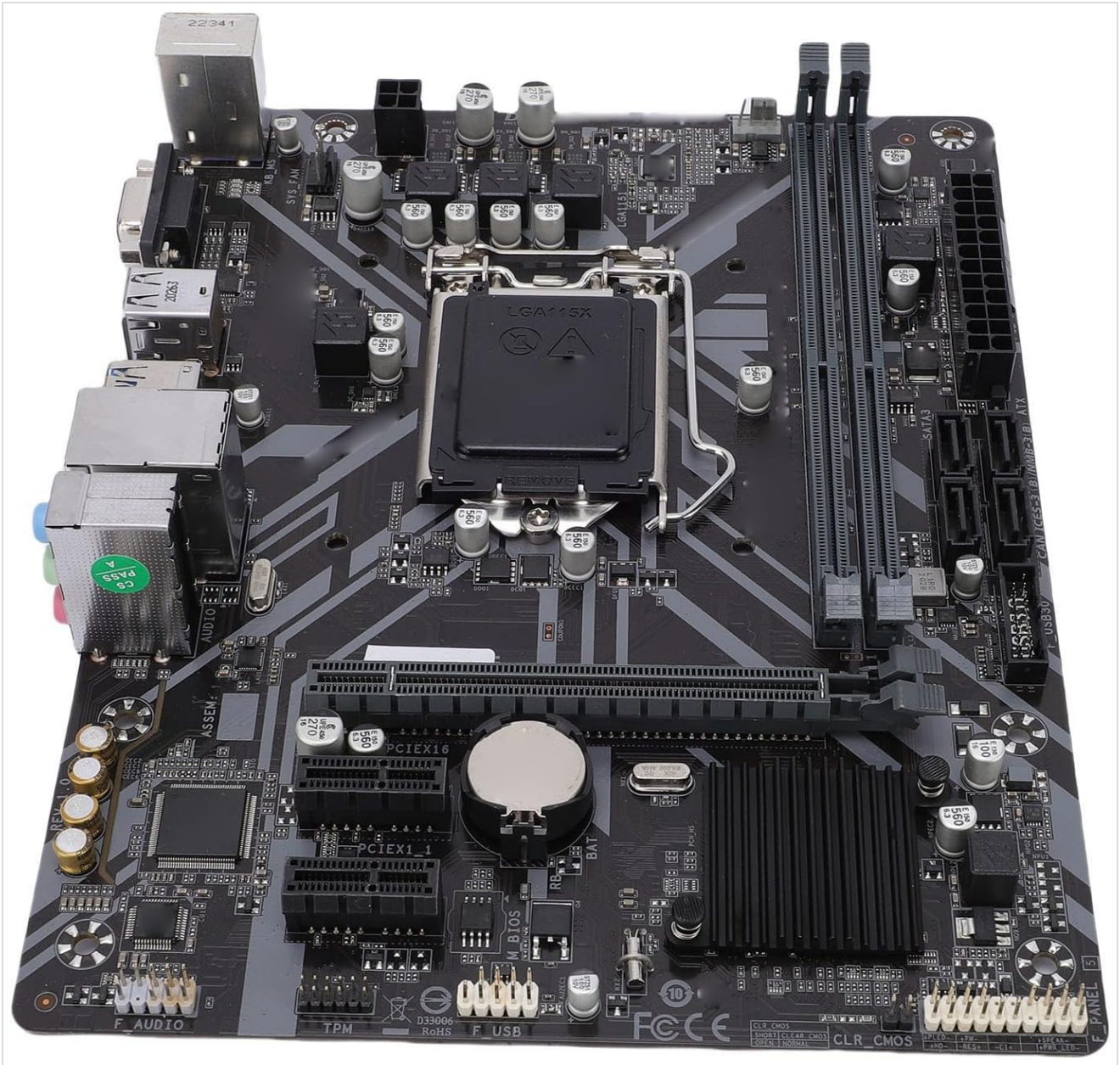


Image: Top-down view of the Bewinner H310M-S2 motherboard, showcasing the LGA 1151 CPU socket, two DDR4 DIMM slots, PCIe slots, SATA ports, and various headers.

Key Features:

- **CPU Compatibility:** Supports 8th and 9th Gen Intel Core i9/i7/i5/i3, Pentium, and Celeron processors (LGA 1151).
- **Memory:** Dual-channel DDR4 architecture with 2 DIMM slots, supporting up to 32GB at 2666/2400/2133 MHz.
- **Expansion Slots:** 1x PCI Express x16 (PCIe 3.0) and 2x PCI Express x1 (PCIe 2.0).
- **Storage:** 4x Serial ATA 6Gb/s interfaces and 1x M.2 slot.
- **Audio:** Realtek ALC887 codec for 2/4/5.1/7.1 channel output.
- **Network:** Realtek LAN chip (10/100/1000 Mbit).
- **Video Outputs:** D-Sub (VGA) port.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your motherboard and components.

5.1. CPU Installation

1. Locate the LGA 1151 CPU socket on the motherboard.
2. Gently push down the load lever and pull it to the side to open the CPU socket retention frame.
3. Carefully align the notches on your Intel LGA 1151 CPU with the corresponding keys on the socket. Ensure the gold triangle on the CPU matches the triangle on the socket.
4. Place the CPU into the socket without forcing it. It should sit flat.
5. Close the retention frame and push the load lever back into its locked position.

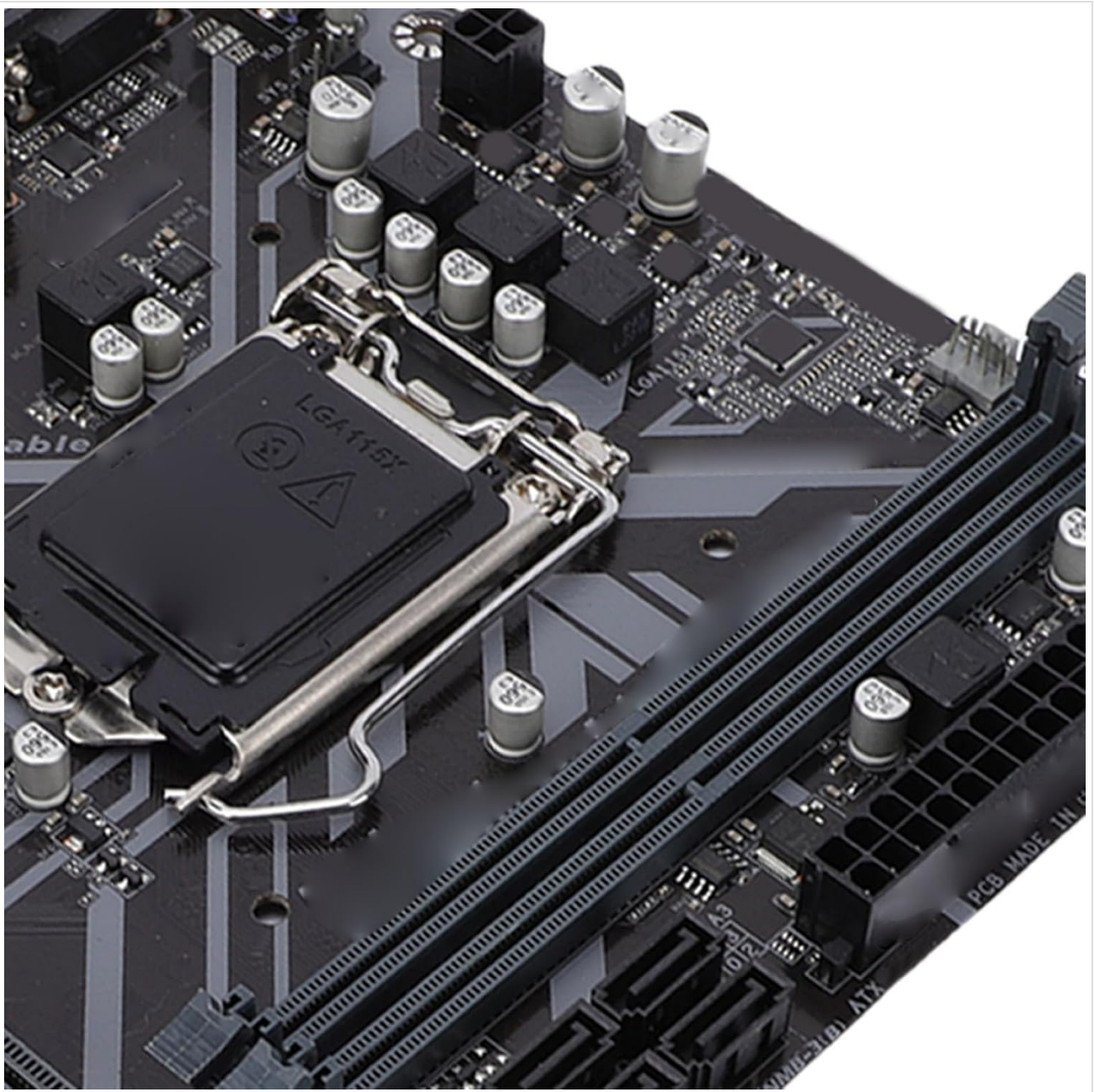


Image: Close-up view of the LGA 1151 CPU socket with its retention mechanism and the two adjacent DDR4 memory slots.

5.2. Memory (RAM) Installation

1. Locate the two DDR4 DIMM slots.

2. Open the clips at both ends of the DIMM slot.
3. Align the notch on the DDR4 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.

5.3. Storage Device Installation (M.2 and SATA)

5.3.1. M.2 SSD Installation

1. Locate the M.2 slot on the motherboard.
2. Remove the M.2 standoff screw.
3. Insert your M.2 SSD into the slot at a 30-degree angle.
4. Gently push down the M.2 SSD and secure it with the standoff screw.

5.3.2. SATA Drive Installation

1. Connect one end of a SATA data cable to one of the four SATA 6Gb/s ports on the motherboard.
2. Connect the other end of the SATA data cable to your SATA hard drive or SSD.
3. Connect a SATA power cable from your power supply unit (PSU) to the SATA drive.



Image: Close-up view of the PCI Express x16 slot, PCI Express x1 slots, and the M.2 slot, indicating expansion and storage options.

5.4. Expansion Card Installation (PCIe)

1. Locate the desired PCI Express x16 or x1 slot.
2. Remove the corresponding expansion slot cover from your computer case.
3. Align your expansion card (e.g., graphics card, sound card) with the slot and press it firmly until it is fully seated.
4. Secure the card to the case with a screw.

5.5. Connecting Front Panel and Peripherals

Connect the cables from your computer case (e.g., power button, reset button, USB ports, audio jacks, speaker) to the corresponding headers on the motherboard. Refer to the motherboard layout for exact header locations.

- **Front Panel Header:** For power button, reset button, HDD LED, power LED.
- **Front Panel Audio Header:** For front audio jacks.
- **USB 3.1 Gen 1 Header:** For front USB 3.0 ports.
- **USB 2.0/1.1 Headers:** For front USB 2.0 ports.

5.6. Power Connection

1. Connect the 24-pin ATX main power connector from your PSU to the 24-pin power socket on the motherboard.
2. Connect the 4-pin ATX 12V power connector from your PSU to the 4-pin power socket near the CPU.
3. Connect the CPU fan to the CPU fan header and any system fans to the system fan headers.

6. OPERATING

6.1. Initial Boot-Up

After completing all hardware installations, connect your monitor, keyboard, and mouse. Power on your computer. The system should boot up and display the BIOS/UEFI splash screen. If it does not, refer to the Troubleshooting section.

6.2. BIOS/UEFI Setup

To enter the BIOS/UEFI setup utility, press the designated key (usually **DEL** or **F2**) during the initial boot sequence. Within the BIOS/UEFI, you can configure system settings such as boot order, date/time, and hardware parameters. Save changes before exiting.

7. MAINTENANCE

7.1. Cleaning

Regularly clean your computer's interior to prevent dust buildup, which can lead to overheating. Use compressed air to remove dust from fans, heatsinks, and motherboard components. Ensure the system is powered off and unplugged before cleaning.

7.2. BIOS/UEFI Updates

Periodically check the manufacturer's website for updated BIOS/UEFI versions. Updating the BIOS/UEFI can

improve system stability, compatibility, and performance. Follow the instructions provided by the manufacturer carefully when performing an update.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

8.1. No Power / System Does Not Turn On

- Check if the power supply unit (PSU) is properly connected to the wall outlet and switched on.
- Ensure the 24-pin ATX and 4-pin ATX 12V power connectors are securely seated on the motherboard.
- Verify that the front panel power button cable is correctly connected to the motherboard header.
- Test the PSU with another system or a PSU tester if available.

8.2. No Display Output

- Ensure your monitor is connected to the correct video output port (either on the motherboard or a dedicated graphics card).
- Check if the graphics card (if installed) is properly seated in its PCIe slot and has adequate power connected.
- Reseat the RAM modules. Incorrectly seated RAM is a common cause of no display.
- Try booting with only one RAM module installed.

8.3. System Instability / Crashes

- Check for overheating. Ensure CPU cooler is properly installed and fans are spinning.
- Verify that all power connectors are secure.
- Run memory diagnostic tools to check for faulty RAM.
- Ensure drivers for all components are up-to-date.

9. SPECIFICATIONS

Feature	Specification
Item Type	Computer Motherboard
Material	PCB
Compatible Processors	LGA1151 interface, support for 9th and 8th Gen Core i9 i7 i5 i3, Pentium, Celeron processors
Chipset	Intel H310 Express Chipset
Memory	2 DDR4 DIMM slots, Dual Channel, up to 32GB, supports DDR4 2666/2400/2133 MHz
Storage Interface	4 Serial ATA 6Gb/s interfaces, 1 M.2 slot
Expansion Slots	1 PCI Express x16 slot (PCIe 3.0), 2 PCI Express x1 slots (PCIe 2.0)
Sound Chip	Realtek ALC887 codec, 2/4/5.1/7.1 channel output
Network Chip	Realtek LAN chip (10/100/1000 Mbit)
Back Panel Interfaces	1 PS/2 keyboard, 1 PS/2 mouse, 1 D-Sub, 2 USB 3.1 Gen 1, 4 USB 2.0/1.1, 1 RJ-45, 3 sound jacks
Internal Interfaces	1 24-pin ATX main power, 1 4-pin ATX 12V power, 1 CPU fan header, 1 system fan header, 1 front panel header, 1 front panel sound header, 1 USB 3.1 Gen 1 header, 1 USB 2.0/1.1 headers
Battery Type	Built-in 240mAh CR2032 Battery (Included)

10. WARRANTY AND SUPPORT

10.1. Warranty Information

This Bewinner H310M-S2 Motherboard comes with a manufacturer warranty for 90 days from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use.

10.2. Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Bewinner customer support through their official channels or the retailer where the product was purchased. You may find additional resources and driver downloads on the official Bewinner website.