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Biostar H310MHP 3.0

Biostar H310MHP 3.0 MicroATX Motherboard User Manual

Equipped with Intel H310 Chipset, Supports 9th and 8th Generation Intel Core Processors

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Biostar H310MHP 3.0 MicroATX Motherboard. This motherboard is designed to support 8th and 9th Generation Intel Core processors, featuring the Intel H310 chipset. Please read this manual thoroughly before beginning installation to ensure proper setup and optimal performance.



Figure 1: Biostar H310MHP 3.0 Motherboard and its retail packaging. The motherboard is black with various components, and the box features the Biostar logo and model name.

2. KEY FEATURES

- **CPU Support:** Supports 8th and 9th Generation Intel Core Processors.
- **Chipset:** Intel H310.
- **Form Factor:** MicroATX.

- **Memory:** 2 x DDR4 DIMM slots, supporting up to 32GB RAM.
- **Storage:** Multiple SATA 6Gb/s ports.
- **Video Output:** HDMI and D-Sub (VGA) terminals.
- **Networking:** Gigabit LAN compatible.
- **USB Ports:** Various USB 2.0 and USB 3.0 ports.
- **Audio:** Integrated audio solution.

3. SETUP GUIDE

Follow these steps to properly install your Biostar H310MHP 3.0 motherboard into your computer system.

3.1. Preparing for Installation

- Ensure your power supply is disconnected from the wall outlet.
- Work on a clean, static-free surface. Use an anti-static wrist strap if available.
- Gather necessary tools: Phillips head screwdriver, thermal paste (if not pre-applied to CPU cooler).

3.2. CPU Installation

1. Locate the LGA 1151 CPU socket on the motherboard.
2. Gently push down the load lever and pull it out to open the CPU socket cover.
3. Carefully align your Intel LGA 1151 CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket. Do not force the CPU into the socket.
4. Lower the load plate and push the load lever back into place to secure the CPU.
5. Install the CPU cooler according to its manufacturer's instructions. Apply thermal paste if necessary.



Figure 2: Top-down view of the Biostar H310MHP 3.0 motherboard, highlighting the LGA 1151 CPU socket in the center, surrounded by power delivery components and RAM slots.

3.3. Memory (RAM) Installation

1. Open the clips on both ends of the DDR4 DIMM slots.
2. Align the notch on your DDR4 memory module with the key in the DIMM slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.

3.4. Motherboard Mounting

1. Install the I/O shield into the rear opening of your computer case.
2. Carefully place the motherboard into the case, aligning the screw holes with the standoffs.
3. Secure the motherboard with screws, ensuring not to overtighten.

3.5. Connecting Power

- Connect the 24-pin ATX main power connector from your power supply to the corresponding port on the motherboard.
- Connect the 4-pin or 8-pin ATX 12V CPU power connector to the motherboard.

3.6. Connecting Storage Devices

- Connect SATA data cables from your storage drives (HDDs, SSDs) to the SATA 6Gb/s ports on the motherboard.
- Connect SATA power cables from your power supply to the storage drives.

3.7. Connecting Front Panel and Peripherals

- Connect the front panel headers (power switch, reset switch, HDD LED, power LED) to the corresponding pins on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation.
- Connect front panel USB and audio headers.
- Connect any additional expansion cards (e.g., graphics card) to the PCIe slots.



Figure 3: An angled view of the Biostar H310MHP 3.0 motherboard, showing the various ports and connectors, including SATA ports, RAM slots, and PCIe slots.

4. OPERATING INSTRUCTIONS

4.1. First Boot

1. After all components are installed and connected, connect your monitor, keyboard, and mouse.

2. Connect the power supply to a wall outlet and turn on the power switch on the PSU.
3. Press the power button on your computer case.
4. The system should power on and display the BIOS/UEFI splash screen.

4.2. BIOS/UEFI Setup

To enter the BIOS/UEFI setup utility, press the **DEL** or **F2** key repeatedly during the initial boot sequence. From here, you can configure boot order, system time, and other advanced settings. Save changes before exiting.

4.3. Operating System Installation

Insert your operating system installation media (USB drive or DVD) and configure the boot order in BIOS/UEFI to boot from the installation media. Follow the on-screen prompts to install your operating system.

5. MAINTENANCE

- **Dust Removal:** Regularly clean dust from inside your computer case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your motherboard drivers (chipset, LAN, audio) updated by downloading the latest versions from the official Biostar website.
- **BIOS/UEFI Updates:** Periodically check for BIOS/UEFI updates on the Biostar website. Only update if necessary and follow the instructions carefully to avoid system instability.

6. TROUBLESHOOTING

6.1. No Power / No Boot

- Verify all power cables (24-pin ATX, 4/8-pin CPU) are securely connected to the motherboard and power supply.
- Ensure the power supply switch is in the "ON" position.
- Check front panel power switch connection to the motherboard.
- Test the power supply with another system or a PSU tester if possible.

6.2. No Display Output

- Ensure your monitor is connected to the correct video output port (HDMI or D-Sub) on the motherboard or dedicated graphics card.
- Verify that the monitor is powered on and set to the correct input source.
- Reseat the RAM modules. Try booting with only one RAM stick if multiple are installed.
- If using a dedicated graphics card, ensure it is properly seated in its PCIe slot and has adequate power connected.



Figure 4: The rear I/O panel of the Biostar H310MHP 3.0 motherboard, showing various ports including PS/2, HDMI, D-Sub, USB 2.0, USB 3.0, Gigabit LAN, and audio jacks.

7. SPECIFICATIONS

Feature	Specification
Model Name	H310MHP 3.0
CPU Socket	LGA 1151
Compatible Processors	8th and 9th Generation Intel Core
Chipset Type	Intel H310
Memory Slots Available	2 x DDR4 DIMM
Main Power Connector Type	24-Pin ATX
Graphics Card Interface	Integrated (via CPU)
Video Output	HDMI, D-Sub
LAN	Gigabit LAN
Product Dimensions	0.98 x 8.9 x 6.73 inches
Item Weight	1.34 pounds

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Biostar H310MHP 3.0 motherboard, please refer to the documentation provided with your purchase or visit the official Biostar website. Technical support and driver downloads are also available on the official Biostar support pages.

As this product is listed as "Amazon Renewed," please also consult Amazon Renewed's specific warranty and return policies for refurbished products.