

## ASUS H81M-PLUS

# ASUS H81M-PLUS Micro ATX Motherboard User Manual

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ASUS H81M-PLUS Micro ATX Motherboard. Please read this guide thoroughly before beginning the installation process to ensure proper setup and to maximize the performance and longevity of your system.

The ASUS H81M-PLUS is designed to support Intel LGA 1150 processors, offering a stable and reliable platform for various computing needs. It features Intel H81 chipset, DDR3 memory support, SATA 6Gb/s, and USB 3.0 connectivity.

## SETUP AND INSTALLATION

Before installing the motherboard, ensure your system is powered off and unplugged from the wall outlet. Always wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

### 1. CPU Installation

Carefully open the CPU socket lever. Align the triangular mark on the Intel LGA 1150 CPU with the corresponding mark on the socket. Gently place the CPU into the socket without forcing it. Close the lever to secure the CPU.



Image: An angled view of the ASUS H81M-PLUS motherboard, highlighting the LGA 1150 CPU socket in the center, surrounded by memory slots and heatsinks. This image helps visualize the CPU installation area.

## 2. Memory (RAM) Installation

The ASUS H81M-PLUS supports DDR3 DIMMs. Open the clips at both ends of the DIMM slot. Align the notch on the memory module with the key in the DIMM slot. Insert the module firmly until the clips snap into place, securing the RAM.

## 3. Motherboard Installation

Install the I/O shield into your computer case. Carefully place the motherboard into the case, aligning the screw holes with the standoffs. Secure the motherboard with screws, ensuring it is firmly mounted but not overtightened.

## 4. Connecting Peripherals and Power

Connect the 24-pin ATX power connector and the 4-pin CPU power connector from your power supply to the motherboard. Connect SATA drives to the SATA 6Gb/s ports. Connect front panel headers (USB, audio, power/reset buttons, LEDs) according to the motherboard manual diagram. Finally, connect your display, keyboard, and mouse to the rear I/O panel.



Image: A close-up view of the rear I/O panel of the ASUS H81M-PLUS motherboard, showing various ports including PS/2, VGA, DVI, HDMI, USB 2.0, USB 3.0, Ethernet, and audio jacks. This image is useful for identifying and connecting external devices.

## OPERATING INSTRUCTIONS

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### 1. BIOS/UEFI Setup

Upon first boot, press the **DEL** or **F2** key during the Power-On Self-Test (POST) to enter the UEFI BIOS Utility. Here you can configure boot order, system time, and various hardware settings. Save changes and exit to boot into your operating system.

### 2. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard chipset, audio, LAN, and any integrated graphics. These drivers are typically provided on a support DVD or can be downloaded from the ASUS official website.

## MAINTENANCE

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### 1. Cleaning

Regularly clean dust from the motherboard and other components using compressed air. Ensure the system is powered off and unplugged before cleaning. Avoid using liquid cleaners directly on components.

### 2. BIOS Updates

Periodically check the ASUS support website for BIOS updates. BIOS updates can improve system stability, add support for new CPUs, or fix bugs. Follow the instructions provided by ASUS carefully when performing a BIOS update to avoid system damage.

## TROUBLESHOOTING

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- **No Power/No Boot:** Ensure all power cables (24-pin ATX, 4-pin CPU) are securely connected. Check the power supply unit (PSU) and front panel power switch connections.
- **No Display:** Verify that the monitor is connected to the correct video output (onboard or discrete graphics card). Reseat the graphics card and RAM modules.
- **Peripheral Not Detected:** Check cable connections for SATA drives, USB devices, etc. Ensure drivers are installed for all components. Test devices in different ports.
- **System Instability/Crashes:** This can be caused by overheating, faulty RAM, or outdated drivers. Check CPU and GPU temperatures. Run memory diagnostic tools. Update all system drivers.

## SPECIFICATIONS

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Feature	Detail
Brand	ASUS
CPU Socket	LGA 1150
Chipset Type	Intel H81
Compatible Processors	Intel Core i3, Intel Core i5, Intel Core i7
RAM Memory Technology	DDR3
Memory Clock Speed	1600 MHz
Product Dimensions	11.81 x 7.87 x 1.97 inches
Item Weight	1.1 pounds
Model Name	B99M132
Item Model Number	90MB0PN0-M0EAY0
Platform	Windows 8

## WARRANTY INFORMATION

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ASUS products typically come with a limited manufacturer's warranty. The duration and terms of the warranty may vary by region and product. Please refer to the warranty card included with your product or visit the official ASUS website for detailed warranty information specific to your region and model.

## TECHNICAL SUPPORT

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For technical assistance, driver downloads, or further product information, please visit the official ASUS support website. You can find FAQs, troubleshooting guides, and contact information for customer service.

Official ASUS Support Website: [www.asus.com/support/](http://www.asus.com/support/)