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GIGABYTE H410M H V2

GIGABYTE H410M H V2 Motherboard User Manual

Comprehensive guide for setup, operation, and maintenance.

1. PRODUCT OVERVIEW

The GIGABYTE H410M H V2 Motherboard is designed to support 10th Gen Intel Core Processors, offering a reliable foundation for your computing needs. It features advanced components and technologies to ensure stable and efficient performance.



Figure 1: GIGABYTE H410M H V2 Motherboard and retail packaging.

Key Features:

- Supports 10th Gen Intel Core Processors

- Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs
- 8-Channel HD Audio with High Quality Audio Capacitors
- NVMe PCIe Gen3 x4 2280 M.2 Connector
- Intel GbE LAN with cFosSpeed Internet Accelerator Software
- Smart Fan 5 features Multiple Temperature Sensors and Hybrid Fan Headers with FAN STOP
- GIGABYTE APP Center, Simple and Easy Use

2. SETUP AND INSTALLATION

Before beginning installation, ensure your workspace is clean and static-free. It is recommended to wear an anti-static wrist strap to prevent damage to components.

2.1. Pre-Installation Checks

1. Verify all components (CPU, RAM, storage, power supply) are compatible with the H410M H V2 motherboard.
2. Ensure your computer case supports Micro ATX form factor.
3. Unpack the motherboard carefully, avoiding contact with sensitive components.

2.2. Component Installation

2.2.1. CPU Installation

Gently lift the CPU socket lever. Align the triangular mark on the CPU with the mark on the socket. Carefully place the CPU into the socket without forcing it. Lower the lever to secure the CPU.



Figure 2: Top-down view of the motherboard, highlighting the LGA 1200 CPU socket.

2.2.2. Memory (RAM) Installation

Open the clips on both ends of the DDR4 DIMM slots. Align the notch on the memory module with the key in the slot. Press down firmly on both ends of the memory module until the clips snap into place. This motherboard supports Dual Channel Non-ECC Unbuffered DDR4 memory across 2 DIMM slots.

2.2.3. M.2 SSD Installation

Locate the NVMe PCIe Gen3 x4 2280 M.2 connector. Insert the M.2 SSD into the slot at an angle, then gently push it down and secure it with the provided screw.

2.2.4. PCIe Card Installation

Insert your graphics card or other PCIe expansion cards into the appropriate PCIe 3.0 x16 or PCIe 3.0 x1 slots. Ensure the card is fully seated and secured with the case's retention mechanism.

2.3. Cable Connections

2.3.1. Power Connections

Connect the 24-pin ATX main power connector and the 8-pin ATX 12V power connector from your power supply to the corresponding ports on the motherboard.

2.3.2. SATA Device Connections

Connect your SATA storage devices (HDDs, SSDs) to the SATA 3.0 ports on the motherboard using SATA data cables.

2.3.3. Front Panel Connections

Connect the front panel headers (power button, reset button, HDD LED, power LED, USB 2.0, USB 3.2 Gen 1, audio) to the corresponding pins on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation.



Figure 3: Rear I/O Panel showing various ports including USB, LAN, and audio jacks.

3. OPERATING YOUR MOTHERBOARD

3.1. Initial Boot and BIOS/UEFI Setup

After assembling your system, connect a monitor, keyboard, and mouse. Power on the system. Press the **DEL** key repeatedly during startup to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, and other advanced settings.

3.2. Driver Installation

Once the operating system is installed, install the necessary drivers for the motherboard's components. These typically include chipset drivers, LAN drivers, audio drivers, and any other peripheral drivers. Drivers can usually be found on the GIGABYTE support website for your specific model.

3.3. Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred operating system. Ensure the boot order is set correctly in the BIOS/UEFI to prioritize the installation media.

4. MAINTENANCE

4.1. 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 other components. Ensure the system is powered off and unplugged before cleaning.

4.2. BIOS Updates

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

4.3. Driver Updates

Keep your system drivers updated to ensure optimal performance and compatibility. You can typically find the latest drivers on the GIGABYTE support website or through your operating system's update utility.

5. TROUBLESHOOTING

Common Issues and Solutions:

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected. Check power supply functionality.
- **No Display:** Verify monitor connection and input source. Reseat the graphics card (if applicable) and RAM modules. Check for bent CPU pins.
- **System Instability/Crashes:** Update drivers and BIOS. Check RAM for errors using memory diagnostic tools. Ensure proper cooling for CPU and other components.
- **USB Devices Not Working:** Ensure USB drivers are installed. Check BIOS settings for USB controller enablement. Try different USB ports.
- **Network Connectivity Issues:** Verify LAN cable connection. Reinstall LAN drivers. Check router/modem functionality.

For more detailed troubleshooting, refer to the comprehensive user manual available on the GIGABYTE website or contact GIGABYTE support.

6. SPECIFICATIONS

Feature	Detail
Brand	GIGABYTE
Series	H410M H V2
Item Model Number	H410M H V2
CPU Socket	LGA 1200
Compatible Processors	Intel Celeron, Intel Core i3, Intel Core i5, Intel Core i7, Intel Core i9, Intel Pentium (10th Gen)
Chipset Type	Intel H410
RAM Memory Technology	DDR4
Memory Speed	2933 MHz (OC)
Memory DIMMs	2
PCIe Slots	1x PCIe 3.0 x16, 2x PCIe 3.0 x1
M.2 Connector	1x NVMe PCIe Gen3 x4 2280 M.2
SATA Ports	4x SATA 3
LAN	Intel GbE LAN
USB Ports	4x USB 3.2 Gen 1, 6x USB 2.0
Audio	8-Channel HD Audio
Form Factor	mATX (226x185 mm)
Product Dimensions	7.28 x 8.9 x 1.38 inches
Item Weight	14.8 ounces

7. WARRANTY AND SUPPORT

GIGABYTE products are covered by a limited warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official GIGABYTE website.

For technical support, driver downloads, and further product information, please visit the official GIGABYTE support page:

[Visit the GIGABYTE Store for Support](#)

Please retain your proof of purchase for warranty claims.

