GIGABYTE H310M M.2 2.0

GIGABYTE H310M M.2 2.0 Motherboard User Manual

Model: H310M M.2 2.0 | Brand: GIGABYTE

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GIGABYTE H310M M.2 2.0 motherboard. This motherboard supports 9th and 8th Generation Intel Core Processors and features dual-channel DDR4 memory, an Ultra-Fast M.2 slot, and GIGABYTE Exclusive 8118 Gaming LAN.

Image: The GIGABYTE H310M M.2 2.0 motherboard displayed alongside its retail packaging, highlighting the product's branding and key features.

SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and disconnected from the power source. Handle the motherboard by its edges to avoid static discharge.

1. Motherboard Layout Overview

Image: A top-down view of the GIGABYTE H310M M.2 2.0 motherboard, showing the general placement of components such as the CPU socket, RAM slots, and PCIe slots.

2. CPU Installation (LGA 1151 Socket)

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 socket retention plate.

3. Align the triangular mark on the CPU with the corresponding mark on the socket. Carefully place the CPU into the socket without forcing it.

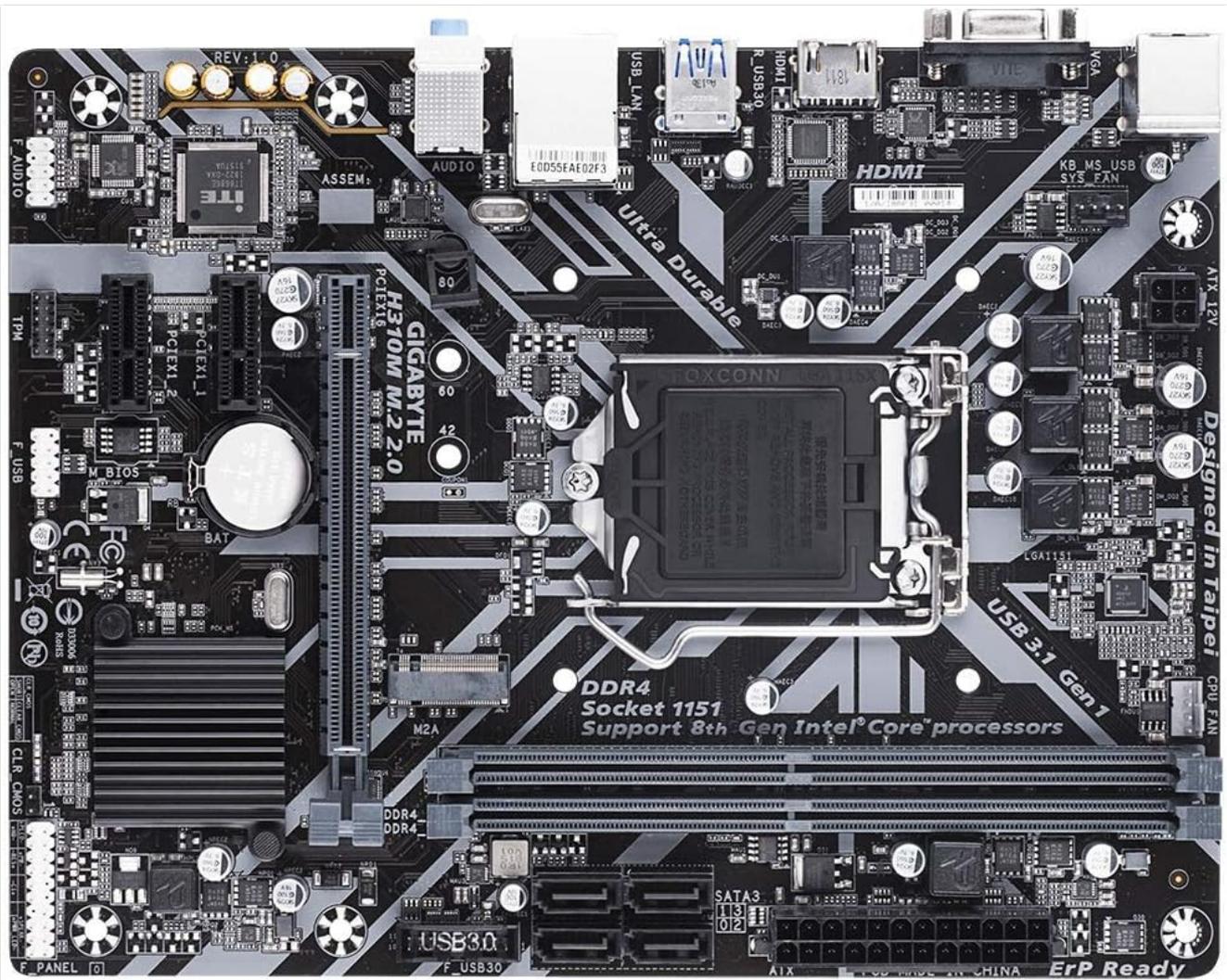4. Close the retention plate and secure it with the load lever.

Image: A detailed view of the GIGABYTE H310M M.2 2.0 motherboard, focusing on the LGA 1151 CPU socket and the two DDR4 memory slots, indicating their positions for component installation.

3. Memory (RAM) Installation

1. Open the clips at both ends of the DDR4 memory slots.

2. Align the notch on the DDR4 memory module with the key in the memory slot.

3. Insert the memory module firmly into the slot until the clips snap into place. Ensure both clips are closed.

4. M.2 SSD Installation

1. Locate the M.2 slot on the motherboard.

2. Remove the M.2 standoff screw.

3. Insert the 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. Connecting Power Supply

- Connect the 24-pin ATX main power connector from your power supply to the corresponding port on the motherboard.

- Connect the 8-pin (or 4-pin) ATX 12V CPU power connector to the port near the CPU socket.

6. Front Panel Connectors

Refer to the motherboard manual for the exact pin layout for front panel connectors (Power Switch, Reset Switch,

HDD LED, Power LED, USB, Audio). Ensure correct polarity for LEDs.

7. Rear I/O Panel Connections

Image: A close-up view of the rear input/output (I/O) panel of the GIGABYTE H310M M.2 2.0 motherboard, showing various ports including USB, HDMI, D-Sub, LAN, and audio jacks.

- Connect your monitor to the HDMI or D-Sub port.
- Connect USB devices (keyboard, mouse) to the USB ports.
- Connect your Ethernet cable to the LAN port for network access.
- Connect audio devices to the audio jacks.

OPERATING INSTRUCTIONS

1. Initial Boot and BIOS/UEFI Setup

1. After assembling all components, connect the power cable and turn on your system.
2. Press the **DEL** key repeatedly during startup to enter the BIOS/UEFI setup utility.
3. Configure boot order, system time, and other necessary settings. Save changes and exit.

2. Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen instructions to install your preferred OS (e.g., Windows 10).

3. Driver Installation

After OS installation, install the necessary drivers for the motherboard components. These can typically be found on the GIGABYTE support website for your specific model. Key drivers include chipset, LAN, audio, and graphics drivers.

MAINTENANCE

- **Cleaning:** Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Periodically check the GIGABYTE website for BIOS updates. BIOS updates can improve system stability, compatibility, and performance. Follow the instructions provided by GIGABYTE carefully when updating the BIOS.
- **Component Checks:** Ensure all cables and components are securely seated to prevent intermittent issues.

TROUBLESHOOTING

- **No Power/No Boot:**
  - Verify power supply connections (24-pin ATX, 8-pin CPU).
  - Ensure the power supply switch is on.
  - Check front panel power switch connection to the motherboard.

- **No Display:**
  - Ensure monitor is connected to the correct video output (motherboard or discrete graphics card).
  - Reseat RAM modules.
  - If using a discrete graphics card, ensure it is properly seated and has power.

- **Component Not Detected (e.g., M.2 SSD, RAM):**
  - Reseat the component.
  - Check BIOS/UEFI settings to ensure the component is enabled or recognized.
  - Verify compatibility of the component with the motherboard.

- **System Instability/Crashes:**
  - Ensure all drivers are up to date.
  - Check for overheating issues (CPU, chipset).
  - Run memory diagnostic tools to check RAM integrity.

SPECIFICATIONS

Feature	Detail
Brand	GIGABYTE
Model Name	H310M M.2 2.0
CPU Socket	LGA 1151
Compatible Processors	8th and 9th Generation Intel Core Processors
Chipset Type	Intel H310
RAM Memory Technology	DDR4
Memory Speed	2666 MHz
M.2 Slot	Ultra-Fast M.2 with PCIe Gen2 X2 & SATA interface
Audio	8-Channel HD Audio with High Quality Audio Capacitors
LAN	GIGABYTE Exclusive 8118 Gaming LAN with Bandwidth Management
Video Output	HDMI 1.4, D-Sub Ports
Form Factor	Micro ATX
Dimensions (LxWxH)	10.43 x 9.25 x 2.04 inches
Weight	8.8 pounds

WARRANTY INFORMATION

GIGABYTE motherboards typically come with a limited manufacturer's warranty. The duration and terms of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims. For specific warranty details, refer to the official GIGABYTE website or the warranty card included with your product.

SUPPORT

For further assistance, technical support, or driver downloads, please visit the official GIGABYTE support website:

GIGABYTE Support Website

You may also consult the comprehensive PDF installation manual available online for detailed diagrams and additional information.

Download Installation Manual (PDF)

Related Documents - H310M M.2 2.0

H310M H User's Manual Rev. 1001	[GIGABYTE H310M H Motherboard User Manual - Installation and BIOS Guide](#) Comprehensive user manual for the GIGABYTE H310M H motherboard. Covers hardware installation, CPU and memory setup, BIOS configuration, specifications, and regulatory information.
H310M A 2.0 User's Manual Rev. 1001	[GIGABYTE H310M A 2.0 Motherboard User Manual - Hardware Installation and BIOS Setup](#) Comprehensive user manual for the GIGABYTE H310M A 2.0 motherboard, covering hardware installation, product specifications, BIOS setup, and regulatory information. Learn about CPU, memory, expansion card installation, back panel and internal connectors, and detailed BIOS configurations.
H310M M.2 2.0 User's Manual Rev. 1001	[GIGABYTE H310M M.2 2.0 Motherboard User Manual](#) Comprehensive user manual for the GIGABYTE H310M M.2 2.0 motherboard, detailing hardware installation, BIOS setup, driver installation, product specifications, connector layouts, and regulatory information.

B760M D3H DDR4 User's Manual Rev. 1001	[GIGABYTE B760M D3H DDR4 Motherboard User's Manual](#) Comprehensive user's manual for the GIGABYTE B760M D3H DDR4 motherboard, detailing hardware installation, BIOS setup, driver installation, product specifications, and internal/external connectors for Intel 13th and 12th Gen processors.
GA-H110M-H 使用手册 Rev. 1001	[GIGABYTE GA-H110M-H Motherboard User Manual](#) Comprehensive user manual for the GIGABYTE GA-H110M-H motherboard, covering hardware installation, BIOS setup, driver installation, specifications, and regulatory information.
B450M DS3H WIFI User's Manual Rev. 1001	[GIGABYTE B450M DS3H WIFI Motherboard User's Manual](#) Comprehensive user's manual for the GIGABYTE B450M DS3H WIFI motherboard, covering hardware installation, BIOS setup, operating system installation, driver management, and technical specifications. Learn about CPU, memory, expansion slots, connectors, and regulatory compliance.

Documents - GIGABYTE – H310M M.2 2.0

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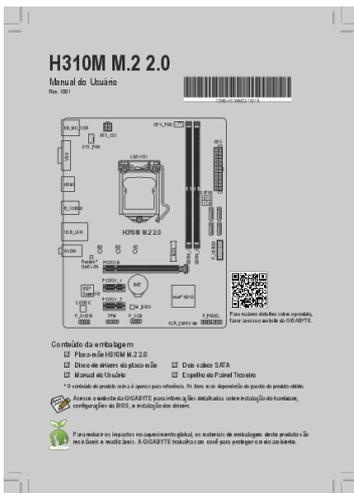
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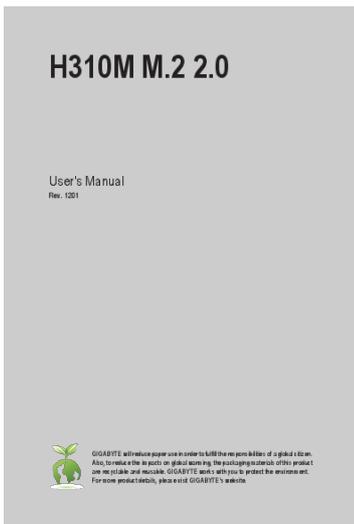
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[GIGABYTE H310M M.2 2.0 Motherboard User Manual](#)

Comprehensive user manual for the GIGABYTE H310M M.2 2.0 motherboard, detailing hardware installation, BIOS setup, driver installation, product specifications, connector layouts, and regulatory information.

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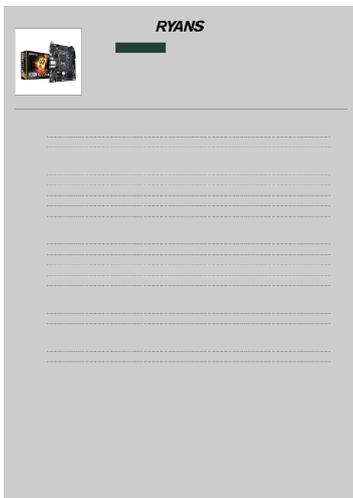
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