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MSI PRO H410M-B

MSI PRO H410M-B Motherboard User Manual

Model: PRO H410M-B | Brand: MSI

1. Introduction

The MSI PRO H410M-B is a micro-ATX motherboard designed for business and general computing applications. It supports Intel 10th Generation Core processors utilizing the LGA 1200 socket. This motherboard integrates the Intel H410 chipset, offering essential features for a stable and efficient system. Key capabilities include support for PCIe 3.0 x16 graphics cards, dual-channel DDR4 memory up to 64 GB, and various connectivity options for peripherals and storage.

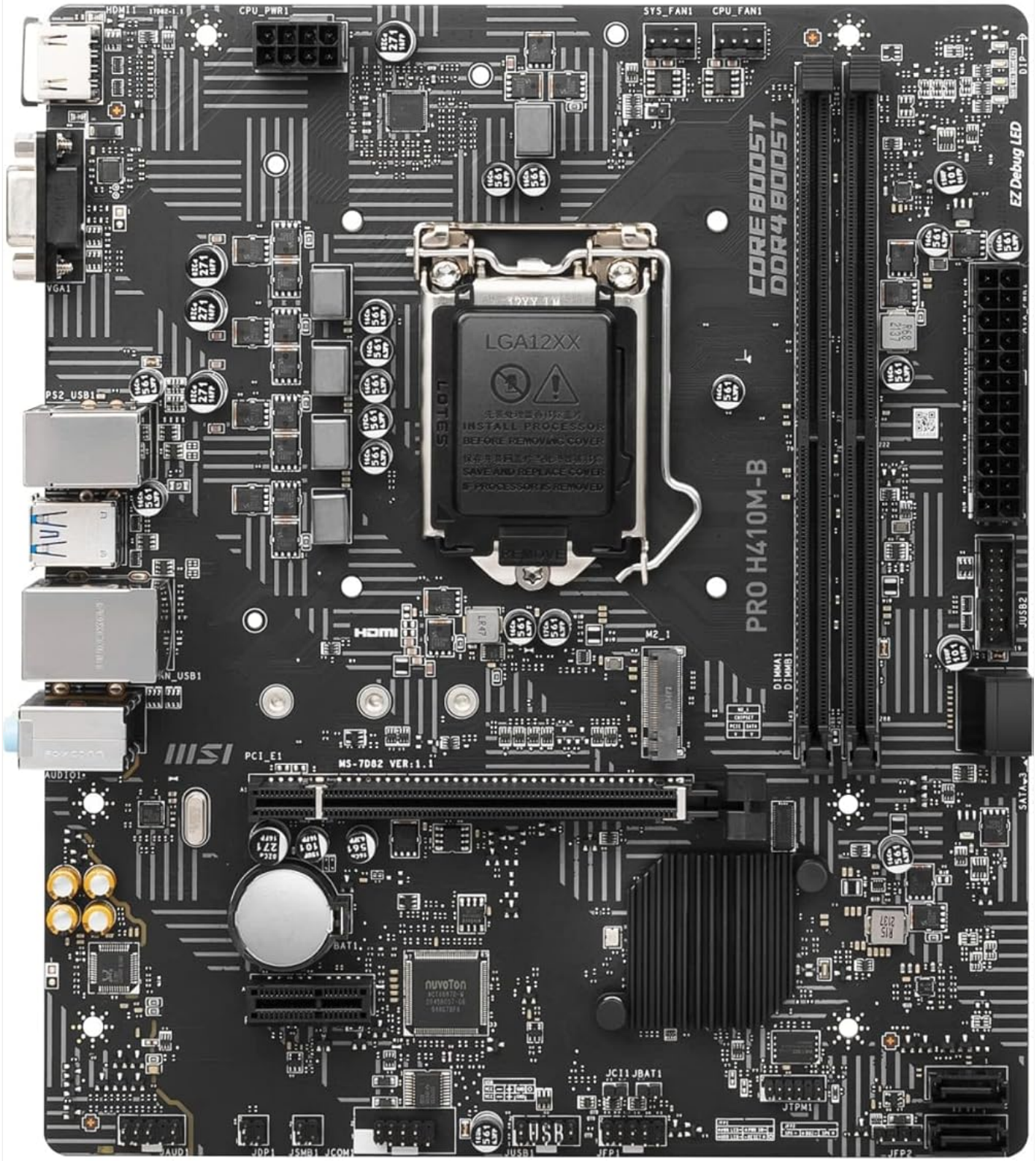

HDMI1
CPU_PWR1
SYS_FAN1
CPU_FAN1
EZ Debug LED
CORE BOOST
DDR4 BOOST
PRO H410M-B
LGA12XX
INSTALL PROCESSOR
BEFORE REMOVING COVER
SAVE AND REPLACE COVER
IF PROCESSOR IS REMOVED
REMOVE
VGA1
PS2_USB1
M2_1
PCI_E1
MS-7D82 VER:1.1
BAT1
JCI1
JBAT1
JTPM1
JUSB2
JUSB1
JFP1
JFP2
JAUD1
JDP1
JSMB1
JCOM1
SATA3_3

Figure 1: Top-down view of the MSI PRO H410M-B Motherboard, showcasing the LGA 1200 CPU socket, DIMM slots, PCIe slot, and various headers.

2. Key Features

- **10th Gen Core Ready:** Supports Intel 10th Generation Core processors with the LGA 1200 socket and Intel H410 chipset. Features MSI Core Boost technology for enhanced stability and performance.
- **Graphics and Memory:** Equipped with a PCIe 3.0 x16 slot for graphics cards and two DIMM slots supporting dual-channel DDR4 memory up to 64 GB at 2933MHz.
- **EZ Debug LED:** Integrated onboard LEDs provide visual indicators for key component status, simplifying troubleshooting processes.
- **SATA Storage:** Includes four SATA 6Gb/s ports, optimized for maximizing SATA SSD performance and reducing system loading times.
- **Connectivity:** Features Realtek RTL8111 Gigabit LAN for network connectivity. Display outputs include HDMI 1.4 (4K/30Hz) and a legacy VGA port. Rear panel connectivity includes 2 x USB 3.2 Gen1 (5Gb/s) Type-A ports and 7.1 HD Audio with Audio Boost.

3. System Setup

This section outlines the general steps for installing components onto your MSI PRO H410M-B motherboard. Always ensure your system is powered off and unplugged before handling components.

3.1. CPU Installation

1. Locate the LGA 1200 CPU socket on the motherboard.
2. Open the CPU socket lever and lift the metal load plate.
3. Carefully align the notches on your Intel 10th Gen Core processor with the socket, ensuring correct orientation. Do not force the CPU into the socket.
4. Lower the load plate and secure it by pushing the lever back into place.
5. Apply a thin, even layer of thermal paste to the CPU's integrated heat spreader (IHS) and install the CPU cooler according to its manufacturer's instructions.

3.2. Memory (RAM) Installation

1. Identify the two DDR4 DIMM slots on the motherboard.
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. Press down firmly on both ends of the memory module until the clips snap into place, securing the module.

3.3. Storage Device Installation

The motherboard supports SATA 6Gb/s storage devices.

1. Connect your SATA SSDs or HDDs to the SATA 6Gb/s ports on the motherboard using SATA data cables.
2. Connect the SATA power cables from your power supply unit (PSU) to the storage devices.

3.4. Graphics Card Installation

Install your graphics card into the PCIe 3.0 x16 slot.

1. Open the retention clip at the end of the PCIe x16 slot.
2. Align your graphics card with the slot and press down firmly until it is fully seated and the retention clip snaps into place.
3. Secure the graphics card to your PC case with screws.
4. Connect any necessary PCIe power cables from your PSU to the graphics card.

3.5. Power Connections

1. Connect the 24-pin ATX main power connector from your PSU to the corresponding header on the motherboard.
2. Connect the 8-pin (or 4-pin) CPU power connector from your PSU to the CPU power header near the CPU socket.

3.6. Front Panel and I/O Connections

Connect the front panel headers (power button, reset button, HDD LED, power LED) and USB/audio headers from your PC case to the corresponding pins on the motherboard. Refer to the motherboard's silkscreen labels for correct pin assignments.



Figure 2: Rear I/O panel of the MSI PRO H410M-B Motherboard, showing HDMI, VGA, USB 3.2 Gen1, LAN, and audio ports.

4. Operating Instructions

4.1. Initial Power On

After all components are installed and connected, plug in your system's power cord and press the power button on your PC case. The system should initiate the boot process. If no display appears, refer to the troubleshooting section.

4.2. BIOS/UEFI Access

To access the BIOS (Basic Input/Output System) or UEFI (Unified Extensible Firmware Interface) settings, repeatedly press the `Del` key during the initial boot sequence. The BIOS/UEFI allows you to configure system settings, boot order, and monitor hardware status.

4.3. Operating System Installation

Once the system is powered on and the display is functional, you can proceed with installing your preferred operating system (e.g., Windows, Linux) from a bootable USB drive or DVD.

5. Maintenance

5.1. Cleaning

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

5.2. BIOS/UEFI Updates

Periodically check the MSI website for updated BIOS/UEFI firmware. Updates can provide improved compatibility, stability, and new features. Follow the instructions provided by MSI carefully when performing a firmware update to avoid system damage.

6. Troubleshooting

6.1. EZ Debug LED

The MSI PRO H410M-B motherboard features EZ Debug LEDs. These LEDs indicate the status of key components during the boot process:

- **CPU LED:** Indicates an issue with the Central Processing Unit.
- **DRAM LED:** Indicates an issue with the memory (RAM).
- **VGA LED:** Indicates an issue with the graphics card.
- **BOOT LED:** Indicates an issue with the boot device (e.g., SSD/HDD).

If an LED remains lit, it points to a problem with the corresponding component. Try reseating the component, checking its connections, or testing with a known-good component if available.

6.2. Common Issues

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin CPU, GPU PCIe power) are securely connected. Check the power supply unit (PSU) and wall outlet.

- **No Display:** Verify that the monitor is connected to the correct display output (either motherboard's HDMI/VGA if using integrated graphics, or graphics card's output). Ensure the graphics card is properly seated and powered.
- **System Instability/Crashes:** Check RAM seating, CPU cooler installation, and ensure adequate ventilation. Update drivers and BIOS/UEFI firmware.

7. Specifications

Feature	Detail
Brand	MSI
Model Number	7273011
Series	MSI PRO H410M-B
Form Factor	Micro-ATX
CPU Socket	LGA 1200
Compatible Processors	Intel 10th Gen Core Processors (e.g., Intel Core i3-10100, i5-10400, i7-10700, i9-10900K)
Chipset	Intel H410
Memory Technology	DDR4
Memory Slots	2 x DIMM
Max Memory Supported	64 GB
Memory Clock Speed	Up to 2933 MHz
PCIe Slots	1 x PCIe 3.0 x16, 1 x PCIe 3.0 x1
Storage	4 x SATA 6Gb/s ports
USB Ports (Rear)	2 x USB 3.2 Gen1 Type-A (5Gb/s), 4 x USB 2.0
Display Outputs	1 x HDMI 1.4 (4K/30Hz), 1 x VGA
LAN	Realtek RTL8111 Gigabit LAN
Audio	7.1 HD Audio with Audio Boost
Dimensions (LxWxH)	40 x 47 x 23 cm
Item Weight	740 g

8. Warranty and Support

8.1. Warranty Information

The MSI PRO H410M-B Motherboard typically comes with a **3-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official MSI warranty policy available on their website or contact MSI customer service.

8.2. Technical Support

For technical assistance, driver downloads, BIOS updates, or further product information, please visit the official MSI website or contact their customer support. You can find more information and resources on the MSI Store on Amazon or the main MSI support portal.

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