MAXSUN B760M

MAXSUN B760M WIFI DDR4 Motherboard User Manual

Model: B760M

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of your MAXSUN B760M WIFI DDR4 Motherboard. Designed for Intel LGA 1700 processors (12th and 13th Generation), this motherboard offers robust performance and connectivity for your computing needs. Please read this manual thoroughly before proceeding with installation to ensure proper setup and avoid potential issues.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling computer components:

- Disconnect the power cord from the wall outlet before touching any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity.
- Handle components by their edges to avoid touching sensitive circuits.
- Keep components away from moisture and extreme temperatures.
- Ensure proper ventilation within your PC case to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in your motherboard package:

- MAXSUN B760M WIFI DDR4 Motherboard
- User Manual (this document or similar)
- I/O Shield
- SATA Data Cables
- Wi-Fi Antenna
- Driver CD/USB (or download instructions)
- M.2 Screws/Standoffs

Figure 3.1: MAXSUN B760M WIFI DDR4 Motherboard and its retail packaging.

4. MOTHERBOARD LAYOUT

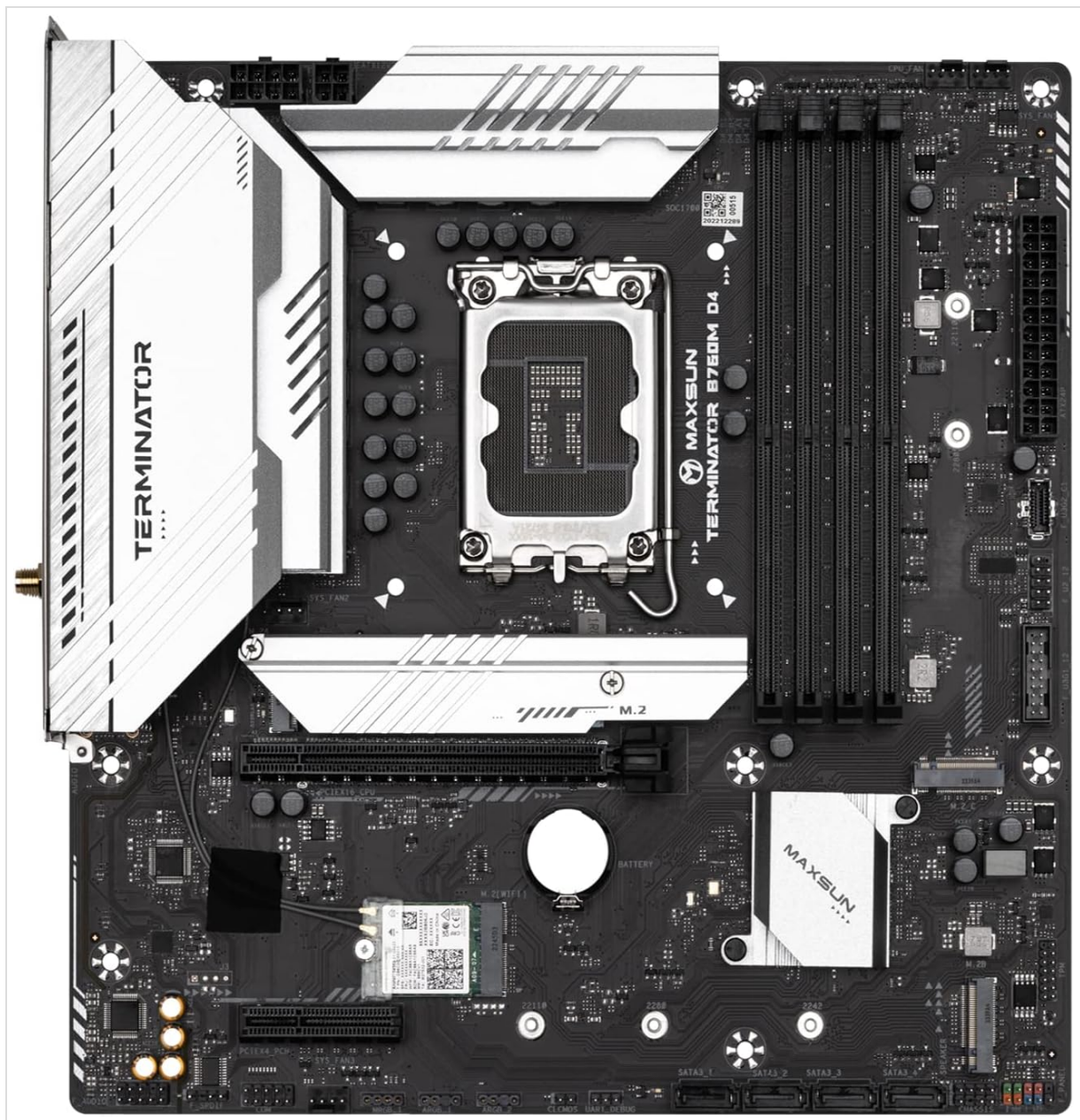Familiarize yourself with the various components and connectors on your motherboard.

Figure 4.1: Top-down view of the MAXSUN B760M WIFI DDR4 Motherboard, highlighting the CPU socket, DIMM slots, PCIe slots, and M.2 slots.

4.1 Rear I/O Panel

The rear I/O panel provides external connectivity for peripherals.
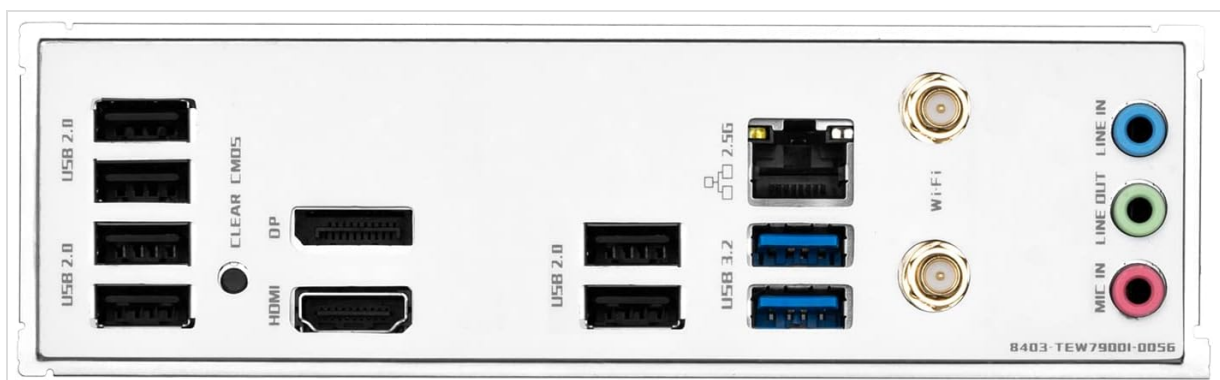

Figure 4.2: Detailed view of the rear I/O panel, showing USB 2.0 ports, Clear CMOS button, DisplayPort, HDMI port, 2.5G LAN port, USB 3.2 ports, Wi-Fi antenna connectors, and audio jacks.

4.2 M.2 Slots

The motherboard features multiple M.2 slots for high-speed NVMe SSDs.

Figure 4.3: Angled view of the motherboard, illustrating the placement of the M.2 slots and the chipset heatsink.

5. SETUP AND INSTALLATION

Follow these steps to install your components onto the motherboard.

5.1 CPU Installation

1. Locate the LGA 1700 socket on the motherboard.
2. Open the CPU socket lever and lift the load plate.
3. Carefully align the notches on your Intel 12th or 13th Gen CPU with the socket. Do not force the CPU into place.
4. Lower the load plate and secure it with the lever.
5. Install the CPU cooler according to its manufacturer's instructions.

5.2 Memory (RAM) Installation

1. Locate the four DDR4 DIMM slots. For dual-channel operation, refer to the motherboard's silkscreen for recommended slot pairing (usually slots 2 and 4, or 1 and 3).
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.

5.3 Storage Device Installation

M.2 NVMe SSD

1. Locate an available M.2 slot.
2. Remove the M.2 standoff screw.
3. Insert the M.2 SSD into the slot at a 30-degree angle.
4. Gently push the SSD down and secure it with the M.2 screw.

SATA Drives

1. Connect one end of a SATA data cable to a SATA 3.0 port on the motherboard.
2. Connect the other end of the SATA data cable to your SATA HDD/SSD.
3. Connect a SATA power cable from your power supply unit (PSU) to the drive.

5.4 Expansion Card Installation (PCIe)

1. Locate the desired PCIe slot (e.g., PCIe X16 5.0 for a graphics card).
2. Remove the corresponding expansion slot cover from your PC case.
3. Align the expansion card with the slot and press down firmly until it is seated.
4. Secure the card to the case with a screw.

5.5 Power Connections

1. Connect the 24-pin ATX power connector from your PSU to the main power socket on the motherboard.
2. Connect the 8-pin CPU power connector from your PSU to the CPU power socket near the CPU.

5.6 Front Panel Connections

Connect the cables from your PC case's front panel to the corresponding headers on the motherboard. These include:

- Power Switch (PWR_SW)
- Reset Switch (RESET_SW)
- Power LED (PWR_LED)
- HDD Activity LED (HDD_LED)
- Front Panel USB (USB 2.0, USB 3.2, Type-C)
- Front Panel Audio (HD_AUDIO)

Refer to the motherboard's silkscreen labels for correct pin orientation.

5.7 Rear I/O Connections

Connect your peripherals to the rear I/O panel:

- **Display:** Connect your monitor to the HDMI or DisplayPort (DP) output.
- **USB Devices:** Connect keyboards, mice, and other USB devices to the available USB 2.0 or USB 3.2 ports.
- **Network:** Connect an Ethernet cable to the 2.5Gb LAN port for wired internet.
- **Wi-Fi:** Attach the included Wi-Fi antenna to the connectors for wireless connectivity.
- **Audio:** Connect speakers or headphones to the audio jacks.

6. OPERATING INSTRUCTIONS

6.1 BIOS/UEFI Setup

To access the BIOS/UEFI setup utility, power on your computer and repeatedly press the **DEL** key (or sometimes **F2**) during the boot process. Within the BIOS, you can configure system settings such as boot order, memory frequency, CPU settings, and enable/disable integrated peripherals.

6.2 Driver Installation

After installing your operating system, it is crucial to install the latest drivers for your motherboard's components. These include chipset drivers, LAN drivers, Wi-Fi drivers, audio drivers, and any other necessary utilities. Drivers can typically be found on the manufacturer's website or on the included driver media.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your motherboard:

- **Cleaning:** Periodically clean dust from inside your PC case, especially around heatsinks and fans, using compressed air. Ensure the system is powered off and unplugged before cleaning.

- **BIOS Updates:** Check the MAXSUN website for BIOS/UEFI updates. Updates can improve stability, add support for new hardware, or fix bugs. Follow the update instructions carefully to avoid damaging the motherboard.
- **Driver Updates:** Keep your drivers updated to ensure compatibility and performance with your operating system and applications.

8. TROUBLESHOOTING

If you encounter issues, consider the following common troubleshooting steps:

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected. Check your power supply unit (PSU) and wall outlet.
- **No Display:** Verify that your monitor is connected to the graphics card (if installed) or the motherboard's integrated graphics ports (HDMI/DP). Reseat your RAM modules and graphics card.
- **System Instability/Crashes:** This can be caused by incompatible RAM, overheating, or faulty drivers. Test memory modules individually, monitor temperatures, and ensure all drivers are correctly installed.
- **Boot Issues:** Check boot order in BIOS. Ensure your operating system drive is detected. Try resetting CMOS (Clear CMOS button on rear I/O or jumper on motherboard).
- **Peripheral Not Detected:** Ensure the device is properly connected. Try a different port. Install necessary drivers.

9. SPECIFICATIONS

Detailed technical specifications for the MAXSUN B760M WIFI DDR4 Motherboard:

Feature	Specification
Form Factor	Micro ATX (24.5 x 24.5 cm)
Chipset	Intel B760
CPU Socket	Intel LGA 1700 (Supports 12th & 13th Gen Processors)
Memory Support	4 x DDR4 DIMM slots, Dual Channel, 3200/OC+ MHz
PCIe Slots	1 x PCIe X16 5.0, 1 x PCIe X4 3.0
M.2 Slots	3 x M.2 (NVMe PCIe 4.0 x4)
SATA Ports	4 x SATA 3.0 6Gb/s (Supports RAID 0/1/5/10)
Video Outputs	1 x DisplayPort, 1 x HDMI
USB Ports (Rear)	2 x USB 3.2 Gen2x2 Type-C, 2 x USB 3.2, 2 x USB 2.0
USB Ports (Front Headers)	4 x USB 3.2, 4 x USB 2.0
RGB Headers	2 x 5V 3-pin ARGB, 1 x 12V 4-pin RGB
Audio	7.1 Channel HD Audio
Ethernet	2.5Gb LAN
Wireless Connectivity	WiFi 6E

10. WARRANTY AND SUPPORT

The MAXSUN B760M WIFI DDR4 Motherboard typically comes with a 3-year limited warranty. Please retain your proof of purchase for warranty claims.

For further technical support, driver downloads, BIOS updates, or detailed documentation, please visit the official MAXSUN website or refer to the comprehensive PDF manual available at: http://www.maxsun.com.cn/docs/MS-Terminator B760M D4.pdf

Related Documents - B760M

	Maxsun MS-Terminator B760M GKD5 WIFI Motherboard Specifications Detailed specifications and layout information for the Maxsun MS-Terminator B760M GKD5 WIFI motherboard, including CPU, chipset, memory, display, expansion slots, audio, network, storage, and I/O panel details.
	Maxsun MS-Terminator B760M D5 V2 Motherboard Technical Specifications Comprehensive technical specifications for the Maxsun MS-Terminator B760M D5 V2 motherboard, covering CPU support, memory, PCIe slots, storage, networking, USB ports, internal/external I/O, and special features. Includes product packaging details and a description of the motherboard layout.
	Maxsun MS-PC Farm B760I / B760I V2 Motherboard Manual - Specifications & Pinouts Detailed user manual for the Maxsun MS-PC Farm B760I and B760I V2 motherboards. Includes hardware specifications, mainboard layout, rear I/O descriptions, internal connector pin definitions, and ESD protection details.
	MAXSUN Motherboard User Manual - Installation, BIOS, and Interface Guide Comprehensive user manual for MAXSUN motherboards, covering onboard pins, back I/O, BIOS settings, and hardware monitoring. Get detailed instructions for installation and setup.
	Maxsun MS-Challenger H610M-H V1 WIFI Motherboard Manual Detailed specifications, configuration diagram, and port descriptions for the Maxsun MS-Challenger H610M-H V1 WIFI motherboard, supporting Intel 12th/13th/14th Gen processors.
	MAXSUN MS-Terminator B850M PRO DARK WIFI Motherboard Specifications Detailed specifications and product information for the MAXSUN MS-Terminator B850M PRO DARK WIFI motherboard, featuring AMD AM5 socket, DDR5 memory support, PCIe 5.0, and Wi-Fi 6E.