

HUANANZHI B760M D5 PLUS

HUANANZHI B760M D5 PLUS Motherboard User Manual

Compact High-End LGA 1700 Motherboard

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the HUANANZHI B760M D5 PLUS motherboard. Designed for Intel LGA 1700 processors (12th, 13th, and 14th Gen Core CPUs), this motherboard offers robust performance and extensive connectivity for your personal computer build.

2. SAFETY INFORMATION

Please read and follow these safety guidelines carefully to prevent damage to the motherboard or injury to yourself:

- Always disconnect the power supply from the wall outlet before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling the motherboard or other components.
- Handle the motherboard by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your PC case to prevent overheating.
- Keep the motherboard away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in your motherboard package. Standard contents typically include:

- HUANANZHI B760M D5 PLUS Motherboard
- SATA Data Cables
- I/O Shield
- M.2 Screw Kit
- User Manual (this document)

If any items are missing or damaged, please contact your retailer.

4. PRODUCT OVERVIEW

The HUANANZHI B760M D5 PLUS motherboard is engineered for high performance and reliability. Key features include:

4.1. DDR5 Dual Channel Memory Support

The motherboard supports DDR5 memory in a dual-channel configuration, allowing for high-speed data transfer and up to 96GB capacity. This ensures efficient multitasking and demanding application performance.



Image: The motherboard features two DDR5 memory slots, highlighted to show dual-channel support and up to 96GB capacity.

4.2. Full Speed PCIe 4.0 M.2 NVMe Slots

Equipped with multiple full-speed PCIe 4.0 M.2 slots, the motherboard provides advanced storage solutions with significantly faster data transfer rates compared to previous generations. This is ideal for high-performance NVMe SSDs.

Full Speed pcie M.2 Nvme Slot

Equipped with three full-Speed PCIe
4.0 M.2 Slot to Provide Faster
Storage Device Solutions

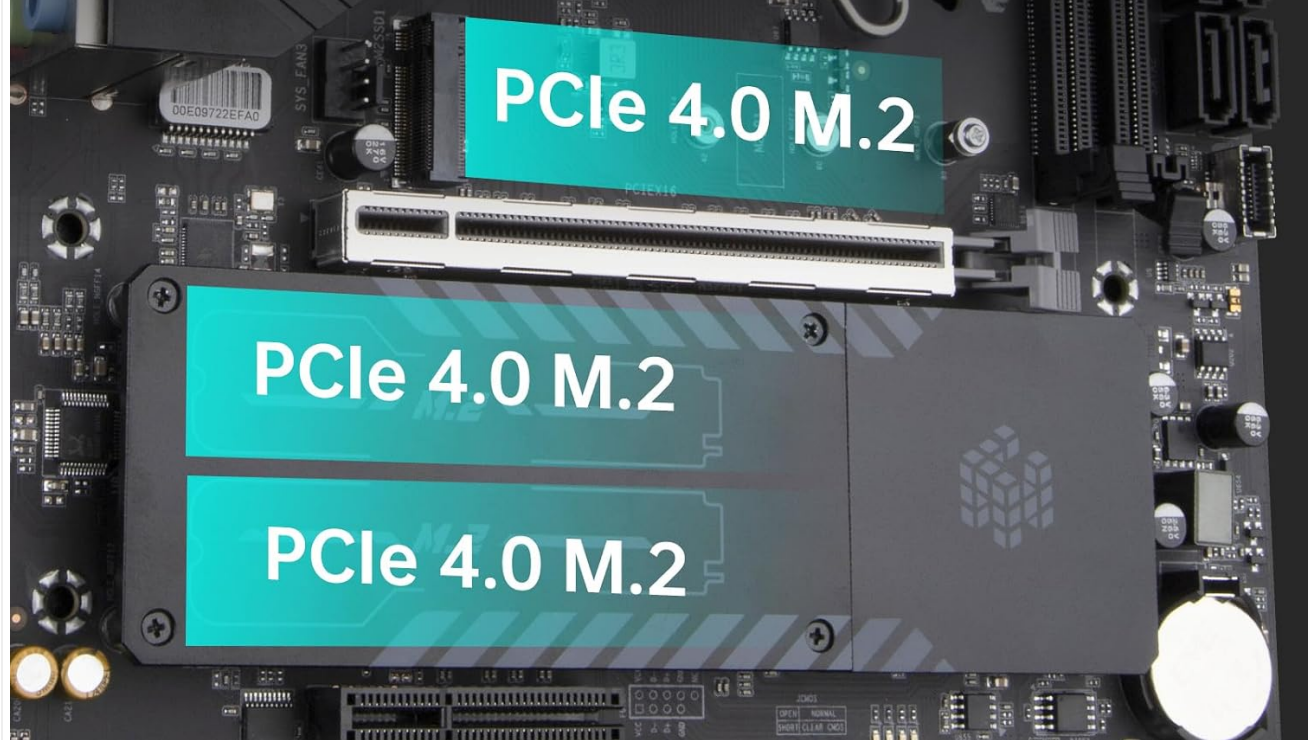


Image: Three PCIe 4.0 M.2 slots are visible on the motherboard, indicating support for high-speed NVMe storage devices.

4.3. 2.5G Gigabit Network Card

The integrated Realtek 2.5G Gigabit network card offers enhanced network performance, providing faster internet speeds and lower latency for online gaming and data transfers.

2.5G Network Card



Image: A visual representation of the 2.5G network card, emphasizing its high-speed capability.

4.4. PCIe x16 4.0 Slot

The PCIe x16 4.0 slot provides double the bandwidth of PCIe 3.0, ensuring optimal performance for modern graphics cards and other expansion cards, leading to a smoother gaming and computing experience.

PCIex16 4.0

PCIe4.0 technology, the speed is twice that of PCIe 3.0. Playing games without delay. Have a better gaming experience.



Image: The PCIe x16 4.0 slot is highlighted on the motherboard, indicating its high-speed data transfer capability for graphics cards.

4.5. SATA 3.0 Interfaces

The motherboard includes four SATA 3.0 interfaces, meeting the needs for large-capacity storage with traditional hard drives and SATA SSDs.

4*Sata3.0 interfaces

meets the needs of large -capacity storage



Image: Four SATA 3.0 ports are shown on the motherboard, ready for connecting storage devices.

4.6. ARGB Support

The motherboard supports 3*5V ARGB headers, allowing for customizable and dazzling lighting effects. Users can utilize HUANANZHI RGB gaming light control software to personalize their system's aesthetics.

Supports 3*5V ARGB

Achieve More Dazzling lighttting Effects

you can use huananzhi RGB
gaming light control software
to customize the Lighting

ARGB_2 ARGB_3

ARGB_1

Image: Three 5V ARGB headers are labeled on the motherboard, indicating support for addressable RGB lighting.

4.7. 10-Phase Power Supply

A stable 10-phase power supply design ensures reliable and efficient power delivery to the CPU, crucial for maintaining system stability and performance under load.

10-PHASES POWER SUPPLY WORKS STABLY



Image: A close-up of the motherboard's CPU power delivery area, illustrating the 10-phase power supply components.

4.8. Reasonable Layout and Connectivity

The motherboard features a well-thought-out layout for easy installation and excellent extensibility, including various ports for modern peripherals and displays.

REASONABLE LAYOUT

excellent extensibility

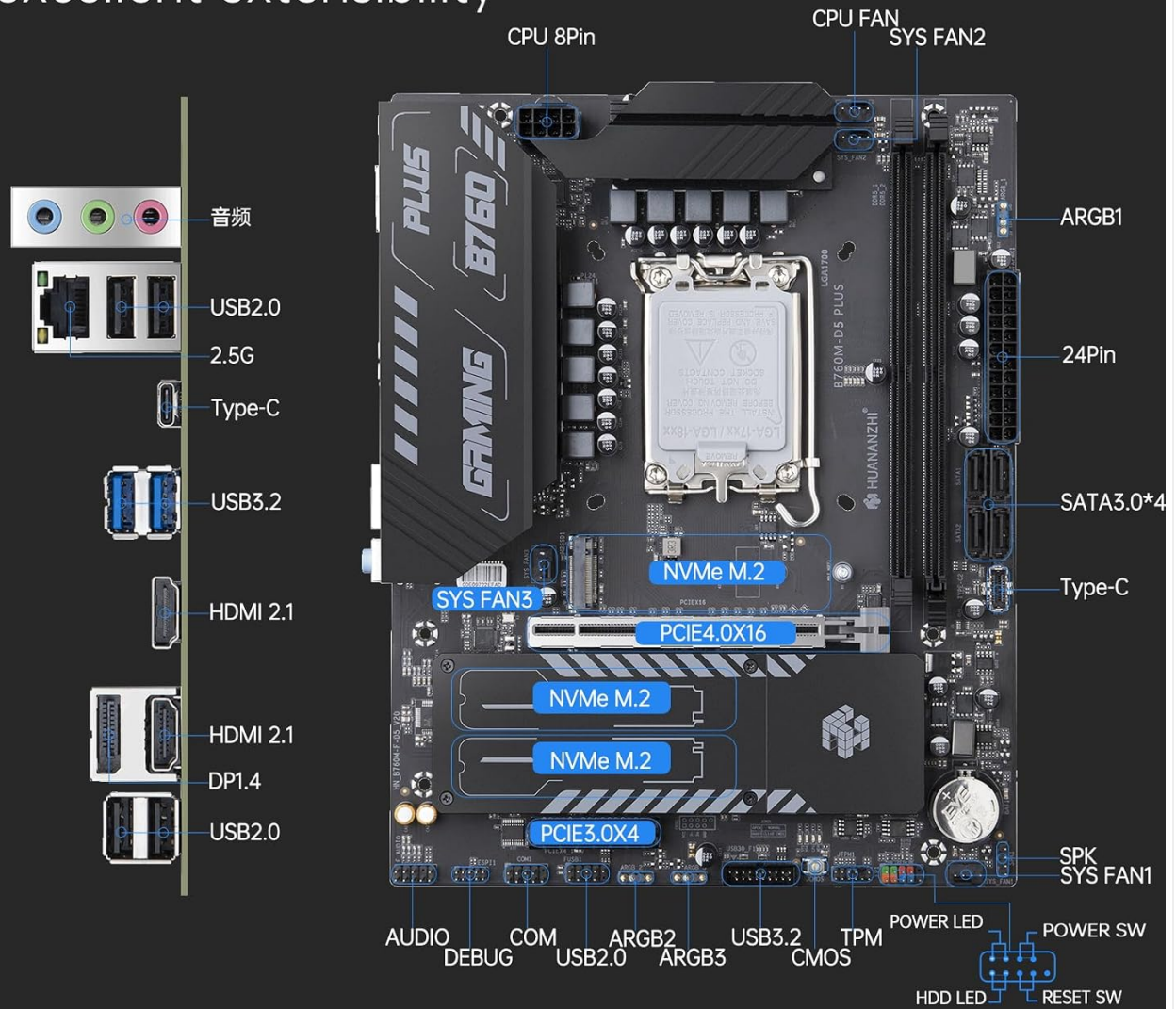


Image: A detailed diagram of the motherboard's layout, labeling various ports, slots, and connectors such as USB, HDMI, DP, M.2, and fan headers.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your motherboard and components:

5.1. CPU Installation

1. Open the CPU socket lever on the LGA 1700 socket.
2. Carefully align the CPU with the socket, ensuring the triangular mark on the CPU matches the mark on the socket. Do not force the CPU into place.
3. Close the socket lever to secure the CPU.
4. Apply thermal paste to the CPU and install the CPU cooler according to its manufacturer's instructions.

5.2. RAM (DDR5) Installation

1. Open the clips on both ends of the DDR5 memory slots.
2. Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.

3. 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. Remove the M.2 standoff screw.
2. Insert the M.2 SSD into the slot at a 30-degree angle.
3. 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 hard drive or SSD.
3. Connect a SATA power cable from your power supply to the drive.

5.4. Graphics Card (PCIe x16) Installation

1. Open the retention clip on 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 power supply to the graphics card.

5.5. Power Connections

- Connect the 24-pin ATX power connector from your power supply to the 24-pin main power socket on the motherboard.
- Connect the 8-pin CPU power connector (EPS 12V) from your power supply to the CPU 8-pin power socket.

5.6. Front Panel Connections

Connect the cables from your PC case's front panel (USB, audio, power button, reset button, HDD LED, power LED) to the corresponding headers on the motherboard. Refer to the motherboard layout diagram (Section 4.8) for header locations.

6. OPERATING INSTRUCTIONS

6.1. First Boot

After assembling all components, connect your monitor, keyboard, and mouse. Power on your system. The system should display the BIOS/UEFI splash screen. If not, check all connections.

6.2. BIOS/UEFI Setup

Press the designated key (usually DEL or F2) during startup to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, fan speeds, and other advanced settings. Save changes before exiting.

6.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard chipset, network card, audio, and any other integrated components. These drivers are typically provided on a support CD or can be downloaded from the HUANANZHI website.

7. MAINTENANCE

- **Cleaning:** Regularly clean dust from inside your PC case, especially around fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Periodically check the HUANANZHI 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.
- **Cable Management:** Ensure cables are neatly routed to improve airflow and prevent interference.

8. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:** Check all power connections (24-pin ATX, 8-pin CPU, GPU power). Ensure the power supply switch is on and the wall outlet is functional.
- **No Display:** Verify that the monitor is connected to the graphics card (or motherboard if using integrated graphics) and is powered on. Reseat the graphics card and RAM modules.
- **System Instability/Crashes:** Check CPU and GPU temperatures. Ensure RAM is properly seated and compatible. Update drivers and BIOS.
- **Boot Device Not Found:** Check SATA/M.2 cable connections. Verify boot order in BIOS/UEFI. Ensure the operating system is properly installed on the drive.
- **Peripheral Issues:** Try connecting peripherals to different USB ports. Ensure relevant drivers are installed.

For persistent issues, consult the HUANANZHI support website or contact technical support.

9. SPECIFICATIONS

Feature	Specification
Brand	HUANANZHI
Model Name	B760M D5 PLUS
CPU Socket	LGA 1700
Compatible Processors	Intel 12th, 13th, 14th Gen Core CPUs
Chipset Type	Intel B760
RAM Memory Technology	DDR5
Memory Slots Available	2
Maximum RAM Capacity	96 GB
Memory Clock Speed	3200 MHz (Base)
Graphics Card Interface	PCI Express 4.0
M.2 Slots	1x M.2 2280 NVME PCIE X4 4.0, 1x M.2 WIFI
SATA Ports	4x SATA 3.0
Network Card	Realtek 2.5G Gigabit

Feature	Specification
USB Ports	Total 8 (including 1x Type-C 5Gb/s)
HDMI Ports	2x HDMI 2.1
DisplayPort	1x DP 1.4
Main Power Connector	24-Pin
Dimensions (L x W x H)	20.3L x 15.2W x 5.1H centimetres

10. WARRANTY INFORMATION

HUANANZHI motherboards typically come with a limited manufacturer's warranty. Please refer to the warranty card included with your product or visit the official HUANANZHI website for specific terms, conditions, and duration of your warranty. Keep your proof of purchase for warranty claims.

11. SUPPORT

For technical assistance, driver downloads, BIOS updates, or further inquiries, please visit the official HUANANZHI support website. You may also contact their customer service through the channels provided on their website.

- **Official Website:** www.huananzhi.com (Please check for the most current URL)
- **Customer Service:** Refer to the website for contact details.