

HUANANZHI B760M-VH-B

HUANANZHI B760M-VH-B Micro-ATX Motherboard Instruction Manual

Model: B760M-VH-B

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your HUANANZHI B760M-VH-B Micro-ATX Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and to prevent damage to the components. This motherboard is designed for desktop personal computers, supporting Intel LGA 1700 processors and DDR4 memory.

2. SAFETY INFORMATION

- 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 prevent electrostatic discharge (ESD) damage to sensitive components.
- Handle the motherboard by its edges and avoid touching components directly, especially the CPU socket pins.
- Ensure proper ventilation in your PC case to prevent overheating of components.
- Keep the motherboard and components away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all components are present in the package. Typical contents include:

- HUANANZHI B760M-VH-B Motherboard
- SATA Data Cables
- I/O Shield
- User Manual (this document)
- Driver CD/USB (if applicable)

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

4. PRODUCT OVERVIEW

The HUANANZHI B760M-VH-B motherboard is a Micro-ATX form factor board designed for modern computing needs. Key features include:

4.1. PCIe Expansion Slots

The B760M-VH motherboard offers high-performance PCI Express 4.0 slots, featuring one x16 slot for advanced graphics cards and one PCI Express 3.0 x1 slot for additional upgrades like sound cards and network cards. These slots ensure optimal bandwidth and speed, providing a reliable platform for both general use and gaming.

High-performance PCI Express 4.0

featuring one PCI Express4.0 x16 slot for advanced graphics cards and one PCI Express3.0 x1 slots for additional up grades like sound cards and network cards, ensuring optimal bandwidth and speed.



This image illustrates the high-performance PCI Express 4.0 x16 slot for graphics cards and the PCI Express 3.0 x1 slot for additional expansion cards like sound or network adapters.

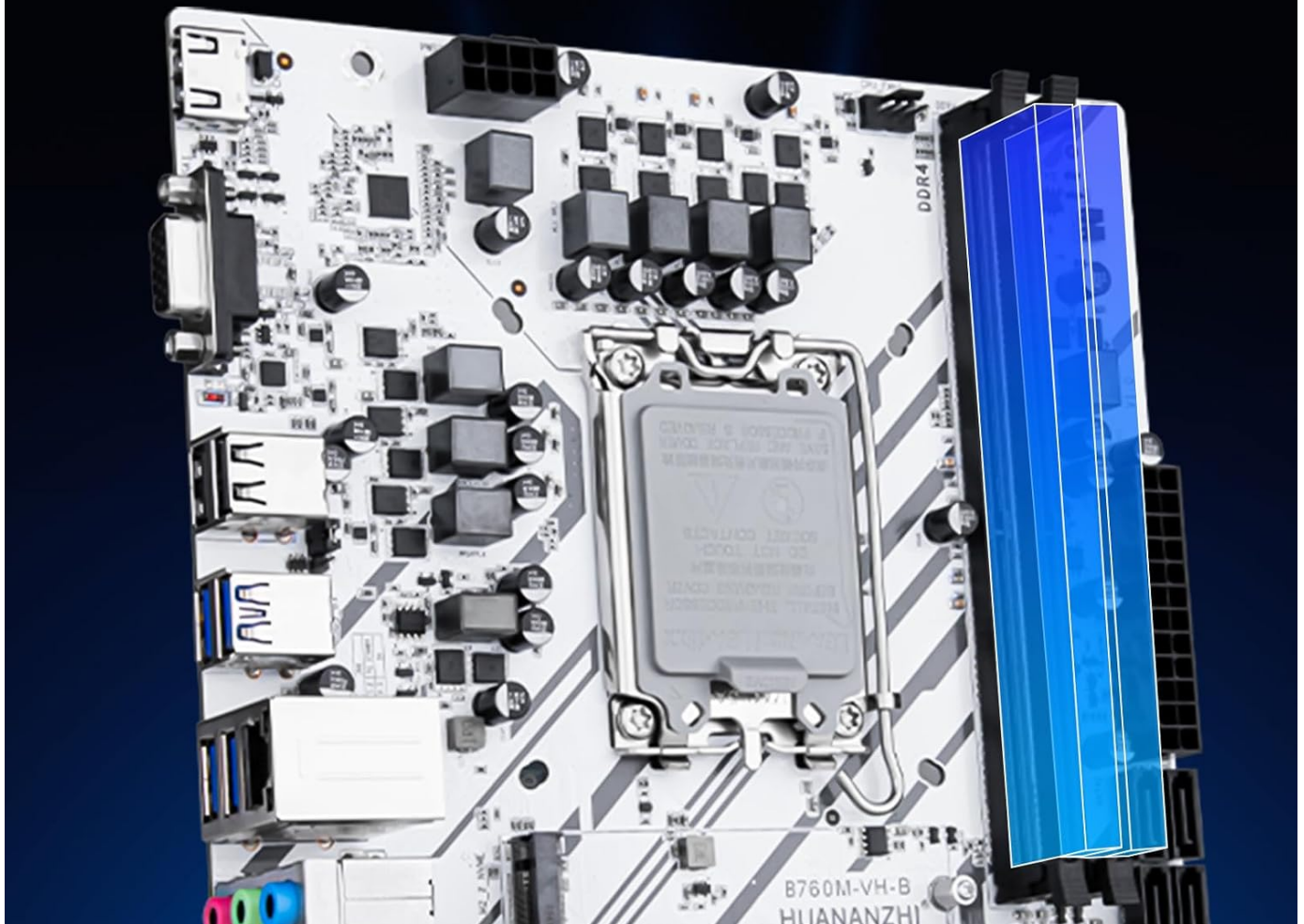
4.2. Dual-Channel DDR4 Memory Support

The HUANANZHI B760M-VH-B comes with 2 DDR4 memory slots, supporting dual-channel architecture. These slots support unbuffered DDR4 memory with frequencies of 3200/2933/2666/2400MHz and a maximum capacity of 64GB,

providing high performance and ample memory for various tasks.

Dual-channel & 2 DDR4 Memory Slots

support unbuffered DDR4 memory with frequencies of 3200/2933/2666/2400MHz and a maximum capacity of 64GB, providing high performance and ample memory for various tasks.



The motherboard features two DDR4 memory slots, supporting dual-channel architecture for up to 64GB of RAM at speeds up to 3200MHz.

4.3. Robust PCB and Power Delivery

The HUANANZHI B760M-VH-B features a durable 4-layer M-ATX design with an 8-pin + 24-pin DC power supply interface. With the use of all-solid capacitors and optimized power circuit layouts, it ensures precise and stable current delivery to the CPU, contributing to reliable performance and longevity.

Strong PCB and Power Delivery

features a durable 4-layer M-ATX design with an 8PIN+24PIN DC power supply interface.



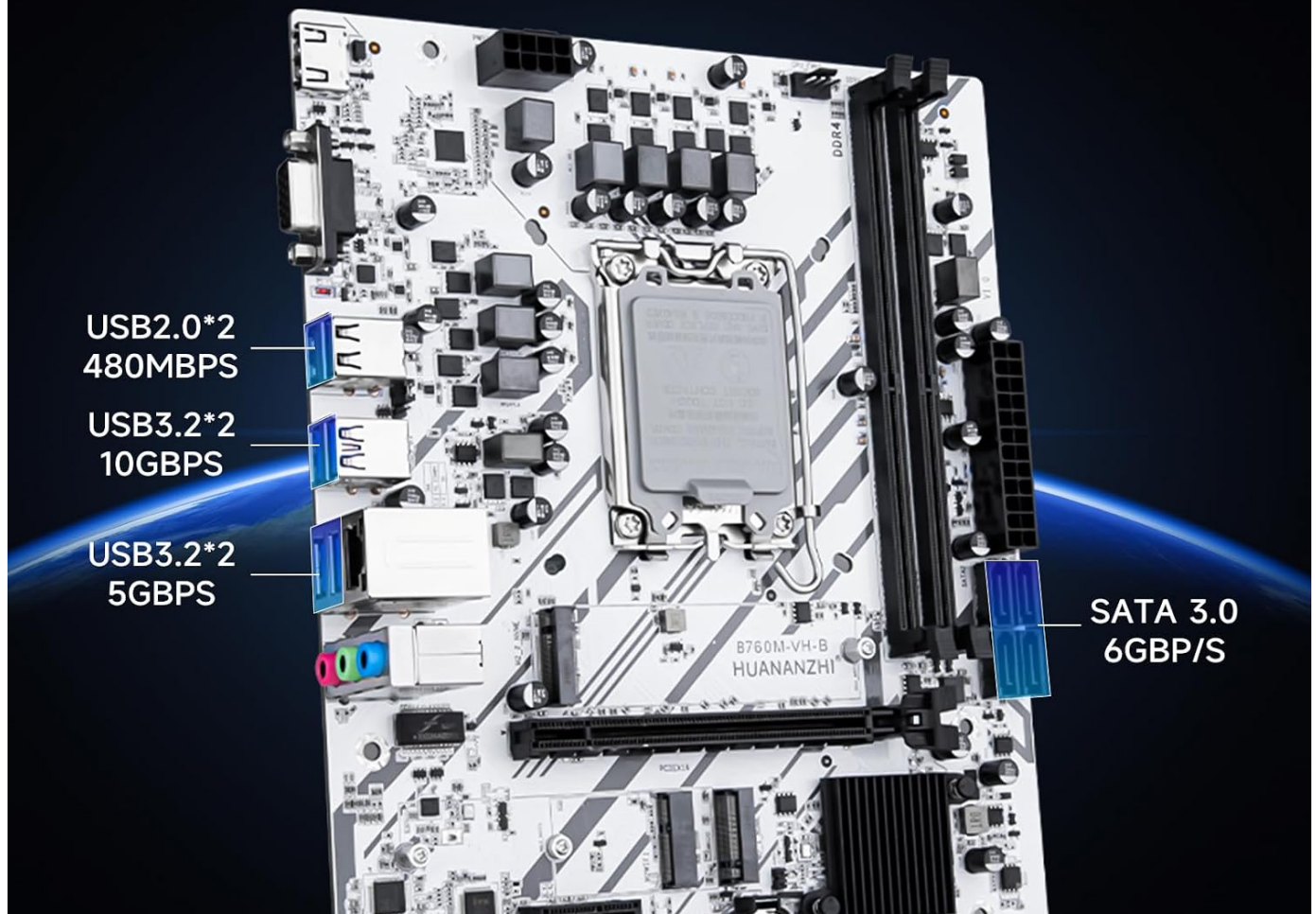
This view highlights the robust 8-pin and 24-pin DC power supply interfaces and the durable 4-layer M-ATX PCB design, ensuring stable power delivery to the CPU.

4.4. LGA 1700 Socket and Versatile Connectivity

The motherboard features an LGA 1700 socket, offering compatibility with a range of Intel processors. It provides versatile connectivity, including 4 USB 3.2 ports, 2 USB 2.0 ports, and 4 high-speed SATA 3.0 6Gbps interfaces. These features ensure compatibility with various devices and support high-speed SSD performance, providing flexibility and efficiency for diverse computing needs.

INT LGA 1700 Socket

includes 2 USB 2.0 480Mbps, 2 USB 3.2 10Gbps, 2 USB 3.2 5Gbps ports and 4 high-speed SATA 3.0 6Gbp/s interfaces, providing flexibility and efficiency for diverse computing needs.



The LGA 1700 socket is central, surrounded by connectivity options including USB 2.0, USB 3.2, and high-speed SATA 3.0 ports for diverse peripheral and storage needs.

4.5. M.2 Expansion Interface

The motherboard includes M.2 expansion interfaces, providing quick boot times, broad compatibility, and faster read speeds for NVMe SSDs. This enhances system responsiveness and overall efficiency.

High Expansion M.2 interface

providing quick boot times, broad compatibility, and faster read speeds.



This image displays the M.2 expansion interfaces, including slots for M.2 2280 NVMe PCIe 4.0 SSDs for fast storage and an M.2 WIFI module.

4.6. Rear I/O Panel

The rear I/O panel provides essential ports for connecting peripherals and displays.

The rear input/output panel provides essential connectivity, including video outputs (HDMI, VGA), multiple USB ports, an Ethernet port, and audio jacks.

5. SETUP AND INSTALLATION

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

1. **Prepare the PC Case:** Install the necessary standoffs in your PC case to match the Micro-ATX form factor of the motherboard. Install the I/O shield into the case's rear opening.

2. **Install the CPU:** Open the CPU socket retention lever. Carefully align the CPU with the socket, ensuring the triangular mark on the CPU matches the mark on the socket. Gently place the CPU into the socket without force. Close the retention lever to secure the CPU.
3. **Install the CPU Cooler:** Apply thermal paste to the CPU (if not pre-applied on the cooler). Mount the CPU cooler according to its manufacturer's instructions, ensuring it is securely fastened and makes proper contact with the CPU. Connect the CPU cooler fan cable to the CPU_FAN header on the motherboard.
4. **Install RAM Modules:** Open the clips on both ends of the DDR4 memory slots. Align the notch on the RAM module with the key in the slot. Insert the RAM module firmly into the slot until the clips snap into place. For dual-channel operation, install modules in matching slots (refer to motherboard diagram for specific slot pairing).
5. **Install M.2 SSD (if applicable):** Locate the M.2 slot(s). Remove the M.2 standoff screw. Insert the M.2 SSD into the slot at an angle, then gently push it down and secure it with the standoff screw.
6. **Install Graphics Card (if applicable):** Open the retention clip on the PCIe 4.0 x16 slot. Align your graphics card with the slot and press it down firmly until it clicks into place. Secure the card to the case with a screw.
7. **Connect Power Supply:** Connect the 24-pin ATX power connector from your power supply to the main power header on the motherboard. Connect the 8-pin CPU power connector to the CPU power header (usually near the CPU socket).
8. **Connect Storage Drives:** Connect SATA data cables from your SATA SSDs/HDDs to the SATA 3.0 ports on the motherboard. Connect SATA power cables from your power supply to these drives.
9. **Connect Front Panel Headers:** Connect the cables from your PC case's front panel (Power Button, Reset Button, HDD LED, Power LED, Front USB, Front Audio) to the corresponding headers on the motherboard. Refer to the motherboard diagram for correct pin assignments.
10. **Install Motherboard into Case:** Carefully place the motherboard into the PC case, aligning the screw holes with the standoffs. Secure the motherboard with screws.

6. OPERATING INSTRUCTIONS

6.1. First Boot

After completing the hardware installation, connect your monitor, keyboard, and mouse. Power on your system. The system should perform a Power-On Self-Test (POST). If successful, you will see a display on your monitor.

6.2. BIOS/UEFI Setup

During POST, press the designated key (usually **DEL** or **F2**) to enter the BIOS/UEFI setup utility. Here you can configure various system settings, including:

- Boot order (to install your operating system)
- Date and Time
- Memory settings (e.g., enabling XMP for higher RAM speeds)
- Fan speed control
- SATA mode (AHCI is recommended)

6.3. Operating System Installation

Insert your Windows 10 or Windows 11 installation media (USB drive or DVD). Set the boot order in BIOS/UEFI to prioritize the installation media. Follow the on-screen prompts to install your operating system.

6.4. Driver Installation

After installing the operating system, install the necessary drivers for your motherboard components. These typically include:

- Chipset drivers
- Graphics drivers (for integrated graphics or discrete GPU)
- Audio drivers
- Network (LAN) drivers
- USB drivers

Drivers can usually be found on the HUANANZHI official website or on the provided driver CD/USB.

7. MAINTENANCE

7.1. Cleaning

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

7.2. BIOS Updates

BIOS updates can provide improved compatibility, stability, and new features. Download BIOS updates only from the official HUANANZHI website. Follow the provided instructions carefully, as an incorrect or interrupted BIOS update can render your motherboard inoperable.

8. TROUBLESHOOTING

This section addresses common issues you might encounter:

- **No Power:**
 - Check if the power supply is connected to the wall outlet and turned on.
 - Ensure the 24-pin ATX and 8-pin CPU power connectors are securely seated on the motherboard.
 - Verify the front panel power button cable is correctly connected to the motherboard header.
- **No Display/No POST:**
 - Ensure the monitor is connected to the correct video output (either integrated graphics or discrete graphics card).
 - Reseat the RAM modules. Try booting with only one RAM module.
 - Reseat the graphics card.
 - Check if the CPU cooler is properly installed and its fan is spinning.
- **Boot Device Not Found:**
 - Verify that your SATA or M.2 storage drives are correctly connected.
 - Check the boot order in the BIOS/UEFI settings to ensure your operating system drive is prioritized.
 - Ensure the SATA mode is correctly configured (e.g., AHCI).
- **System Instability/Crashes:**
 - Check CPU and GPU temperatures. Ensure adequate cooling.
 - Run memory diagnostic tools to check for faulty RAM.
 - Ensure your power supply unit (PSU) has sufficient wattage for all components.
 - Update all drivers to the latest versions.

9. SPECIFICATIONS

Detailed technical specifications for the HUANANZHI B760M-VH-B Motherboard:

Feature	Specification
Product Dimensions	11.42 x 9.45 x 2.36 inches
Item Weight	2 pounds
Manufacturer	HUANANZHI
Item Model Number	B760M-VH-B
CPU Socket	LGA 1700
Compatible Devices	Desktop Computer
RAM Memory Technology	DDR4
Compatible Processors	LGA1700
Chipset Type	INT B760
Memory Clock Speed	3200 MHz
Platform	Windows 10, Windows 11
CPU Model	Core i5 (Example, actual compatibility depends on LGA1700 CPU)

10. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the product packaging or the official HUANANZHI website. Warranty terms and conditions may vary by region and retailer.

For technical support, driver downloads, and further assistance, please visit the official HUANANZHI support page or contact their customer service department. Keep your purchase receipt and product serial number handy when seeking support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question