

GIGABYTE MS73-HB1

GIGABYTE MS73-HB1 Server Motherboard User Manual

Model: MS73-HB1

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the GIGABYTE MS73-HB1 Server Motherboard. The MS73-HB1 is designed for high-performance server applications, supporting 4th Gen. Intel Xeon Scalable Processors and Intel Xeon CPU Max Series, featuring dual LGA 4677 sockets, 8-channel RDIMM DDR5 memory, and extensive expansion capabilities.

1. SETUP AND INSTALLATION

1.1 Unpacking and Inspection

Carefully remove the motherboard from its packaging. Inspect the board for any signs of physical damage during transit. Ensure all accessories listed in the packing contents are present.



Image: GIGABYTE MS73-HB1 Server Motherboard shown alongside its retail packaging.

1.2 Component Installation

Before installing any components, ensure the motherboard is placed on a non-conductive, flat surface. Always handle components by their edges to avoid electrostatic discharge (ESD).

- **CPU Installation:** Open the CPU socket retention mechanism. Align the CPU (4th Gen. Intel Xeon Scalable Processor) with the socket's keying notches. Gently place the CPU into the socket without forcing it. Close the retention mechanism to secure the CPU. Repeat for the second CPU.
- **Memory (RAM) Installation:** The MS73-HB1 supports 8-Channel RDIMM DDR5 per processor, with 16 DIMM slots. Open the clips on both ends of the DIMM slot. Align the DDR5 memory module with the slot, ensuring the notch on the module matches the key in the slot. Press down firmly on both ends of the module until the clips snap into place.
- **Storage Devices:** Connect SlimSAS cables to the 12 SATA 6Gb/s ports for traditional storage. Utilize the two M.2 slots with PCIe Gen4 x4 interface for high-speed NVMe SSDs.
- **Expansion Cards:** Install PCIe Gen5 x16 expansion cards into the six available slots. Ensure cards are seated firmly and secured with the chassis retention mechanism.



Image: A detailed view of the GIGABYTE MS73-HB1 motherboard, highlighting the dual CPU sockets and numerous DDR5 DIMM slots.

1.3 Power Connections

Connect the main 24-pin ATX power connector and the CPU auxiliary power connectors (typically 8-pin or 4+4-pin EPS12V) from your power supply unit (PSU) to the corresponding ports on the motherboard. Ensure all power connections are secure.

1.4 Initial Boot

After all components are installed and power is connected, connect a monitor, keyboard, and mouse. Power on the system. The system should display the BIOS/UEFI POST screen. If not, refer to the Troubleshooting section.



Image: The rear input/output panel of the GIGABYTE MS73-HB1 motherboard, showing various ports including LAN, USB, and VGA.

2. OPERATING INSTRUCTIONS

2.1 BIOS/UEFI Configuration

During system startup, press the designated key (usually **DEL** or **F2**) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, CPU settings, memory timings, and other hardware parameters. Save changes before exiting.

2.2 Operating System Installation

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

2.3 Driver Installation

After OS installation, install the necessary drivers for the motherboard components. These typically include chipset

drivers, LAN drivers (Intel I210-AT), and any drivers for integrated graphics or other onboard devices. Drivers can usually be found on the GIGABYTE official website or included with the motherboard.

3. MAINTENANCE

3.1 Cleaning

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

3.2 Firmware Updates

Periodically check the GIGABYTE website for updated BIOS/UEFI firmware. Firmware updates can improve stability, add support for new hardware, and fix bugs. Follow the instructions provided by GIGABYTE carefully when performing a firmware update to avoid system damage.

3.3 Component Checks

Occasionally inspect all installed components (CPUs, RAM, expansion cards, cables) to ensure they are securely seated and free from visible damage. Verify that cooling solutions are functioning correctly.

4. TROUBLESHOOTING

This section addresses common issues you might encounter. For more detailed troubleshooting, consult the GIGABYTE support website.

- **No Power/No POST:**

- Verify all power cables (24-pin ATX, 8-pin EPS12V) are securely connected to the motherboard and PSU.
- Ensure the PSU is switched on and functioning.
- Check that the CPU(s) and RAM modules are correctly installed.
- Remove all non-essential components (e.g., expansion cards, extra storage) and attempt to boot with only the CPU, one RAM stick, and a display.

- **System Instability/Crashes:**

- Check CPU and memory temperatures. Ensure cooling solutions are adequate.
- Run memory diagnostic tools to check for RAM errors.
- Ensure all drivers are up-to-date.
- Verify PSU stability and wattage.

- **Peripheral Not Detected:**

- Ensure the peripheral is correctly connected to the appropriate port.
- Check BIOS/UEFI settings to ensure the port or device is enabled.
- Install or update relevant drivers for the peripheral.

5. SPECIFICATIONS

The following are key technical specifications for the GIGABYTE MS73-HB1 Server Motherboard:

Feature	Detail
Model Name	MS73-HB1
Brand	GIGABYTE
CPU Socket	LGA 4677 (Dual Processor)
Compatible Processors	4th Gen. Intel Xeon Scalable Processors, Intel Xeon CPU Max Series
Chipset	Intel C741
RAM Memory Technology	DDR5 RDIMM (8-Channel per processor, 16 x DIMMs)
Memory Clock Speed	5600 MHz
Persistent Memory Support	Intel Optane Persistent Memory 300 series
LAN Ports	2 x 1Gb/s (Intel I210-AT), 1 x Dedicated management port
SATA Ports	12 x SATA 6Gb/s (via 3 x SlimSAS), 2 x 7-pin SATA DOM 6Gb/s
M.2 Slots	2 x PCIe Gen4 x4 interface
PCIe Expansion Slots	6 x PCIe Gen5 x16
Compatible Devices	Server
Item Weight	1.4 pounds
Package Dimensions	17 x 14.8 x 3.4 inches

6. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official GIGABYTE website. GIGABYTE provides technical support and resources for its products. For driver downloads, BIOS updates, and further assistance, please visit the official GIGABYTE support portal:
[GIGABYTE Support Website](#)

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

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Email

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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