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GIGABYTE B760M DS3H AX DDR4

GIGABYTE B760M DS3H AX DDR4 Motherboard User Manual

Model: B760M DS3H AX DDR4

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the GIGABYTE B760M DS3H AX DDR4 Motherboard. Please read this manual thoroughly before attempting any installation or operation to ensure proper functionality and to prevent damage to the product or other components.
The GIGABYTE B760M DS3H AX DDR4 is designed to support 13th and 12th Gen Intel Core Series Processors, offering robust performance and connectivity for various computing needs.

Safety Information

Always observe the following safety precautions:

- Ensure your hands are dry and free of static electricity before handling the motherboard. Use an anti-static wrist strap if available.
- Disconnect the power supply from the wall outlet before installing or removing any components.
- Avoid touching the pins on the CPU socket or other connectors.
- Do not expose the motherboard to moisture or extreme temperatures.
- Handle the motherboard by its edges to prevent damage to components.

Package Contents

Verify that all items are present in the package:

- GIGABYTE B760M DS3H AX DDR4 Motherboard
- SATA Cables
- Wi-Fi Antenna
- User Manual (this document)
- Driver CD/USB (if included)
- I/O Shield (if not pre-attached)



Image: The GIGABYTE B760M DS3H AX DDR4 Motherboard shown alongside its retail packaging, highlighting the product and its branding.

Setup and Installation

1. Preparing the Case

Before installing the motherboard, ensure your computer case is ready. Install the standoffs in the case that align with the motherboard's mounting holes. If your case has a removable motherboard tray, it may be easier to install components on the tray first.

2. Installing the CPU

Carefully open the CPU socket lever. Align the triangular mark on the CPU with the mark on the socket. Gently place the CPU into the socket without forcing it. Close the lever to secure the CPU.



Image: A top-down view of the GIGABYTE B760M DS3H AX DDR4 Motherboard, showing the CPU socket, RAM slots, and various headers.

3. Installing the CPU Cooler

Apply thermal paste to the CPU if your cooler does not have it pre-applied. Mount the CPU cooler according to its manufacturer's instructions, ensuring it is securely fastened and makes good contact with the CPU.

4. Installing RAM (DDR4 Memory)

The motherboard supports Dual Channel DDR4 memory. Open the clips on the DIMM slots. Align the notch on the DDR4 memory module with the notch in the DIMM slot. Press down firmly on both ends of the module until the clips snap into place.

- For dual channel configuration, install memory modules in slots DDR4_A2 and DDR4_B2 first.

5. Installing Storage Devices (M.2 SSDs, SATA Drives)

This motherboard features two M.2 slots for NVMe PCIe 4.0 SSDs. Insert the M.2 SSD into the slot at an angle and then push it down, securing it with the provided screw. Connect SATA drives to the SATA ports using SATA data and power cables.



Image: An angled view of the GIGABYTE B760M DS3H AX DDR4 Motherboard, showcasing the M.2 slots and PCIe slots.

6. Installing Expansion Cards (PCIe)

Insert your graphics card or other PCIe expansion cards into the appropriate PCIe slots. Ensure the card is fully seated and secured with the case's retention mechanism.

7. Connecting Power Supply

Connect the 24-pin ATX main power connector and the 8-pin ATX 12V CPU power connector from your power supply to the corresponding ports on the motherboard.

8. Connecting Front Panel Headers

Connect the front panel cables (power button, reset button, USB ports, audio jacks, LED indicators) to their respective headers on the motherboard. Refer to the motherboard layout diagram for exact locations.



Image: A different angled perspective of the GIGABYTE B760M DS3H AX DDR4 Motherboard, highlighting the various connectivity options

and headers.

9. Installing I/O Shield and Motherboard in Case

If your case requires it, install the I/O shield into the case's rear opening. Carefully place the motherboard into the case, aligning it with the standoffs, and secure it with screws.



Image: A close-up view of the rear I/O panel of the GIGABYTE B760M DS3H AX DDR4 Motherboard, showing USB ports, audio jacks, display outputs, and antenna connectors.

Operating Instructions

First Boot and BIOS Setup

After assembling your system, connect a monitor, keyboard, and mouse. Power on the system. Press the **DEL** key during startup to enter the BIOS (Basic Input/Output System) setup. In the BIOS, you can configure boot order, system time, and other advanced settings.
The GIGABYTE B760M DS3H AX DDR4 features **Q-Flash Plus**, allowing you to update the BIOS without installing the CPU, memory, or graphics card. This feature is useful for ensuring compatibility with newer CPUs.

Driver Installation

Once the operating system is installed, install the necessary drivers for the motherboard components. These typically include chipset drivers, LAN drivers, audio drivers, and Wi-Fi/Bluetooth drivers. Drivers can be found on the included driver CD/USB or downloaded from the official GIGABYTE website.

Key Features Overview

- **Intel LGA 1700 Socket:** Supports 13th and 12th Gen Intel Core Series Processors.
- **DDR4 Compatible:** Dual Channel DDR4, 4 DIMMs for flexible memory configurations.
- **Sturdy Power Design:** 6+2+1 Hybrid Digital VRM Design for stable power delivery.
- **Comprehensive Thermal Design:** M.2 Thermal Guard helps dissipate heat from NVMe SSDs.
- **Next Gen Connectivity:** Features PCIe 4.0, NVMe PCIe 4.0 x2 M.2 slots, and USB 3.2 Gen 2 Type-C.
- **Fast Networking:** Equipped with 2.5GbE LAN and WiFi 6E for high-speed internet access.
- **Fine Tuning Features:** Includes RGB FUSION 2.0 for customizable lighting, Smart Fan 6 for cooling control, and Q-Flash Plus for easy BIOS updates.

Maintenance

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

- **Dust Removal:** Periodically clean dust from inside your computer case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the GIGABYTE website for the latest BIOS updates. Updating the BIOS can improve compatibility, stability, and performance. Follow the instructions carefully when updating the BIOS.
- **Driver Updates:** Keep your drivers updated to ensure optimal performance and compatibility with new software and hardware.
- **Cable Management:** Ensure cables inside the case are neatly organized to improve airflow and prevent interference.

Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
System does not power on.	Loose power connections, faulty power supply, incorrect front panel wiring.	Check 24-pin and 8-pin power connectors. Verify front panel power switch connection. Test power supply.
No display on monitor.	Graphics card not seated properly, monitor cable loose, incorrect display output.	Reseat graphics card. Check monitor cable connections. Ensure monitor is connected to the correct display output (GPU or integrated graphics).
System beeps repeatedly.	Memory (RAM) issue, graphics card issue, CPU issue.	Refer to the motherboard's beep code guide (usually in the full manual) to diagnose the specific issue. Try reseating RAM or graphics card.
Operating system not detected.	Incorrect boot order in BIOS, faulty storage drive, loose data cable.	Check boot order in BIOS. Verify SATA/M.2 data cable connections. Test storage drive.
Wi-Fi/Bluetooth not working.	Missing or outdated drivers, antenna not connected.	Install or update Wi-Fi/Bluetooth drivers from GIGABYTE website. Ensure Wi-Fi antennas are securely connected to the rear I/O panel.

Specifications

Feature	Detail
CPU Socket	LGA 1700
Compatible Processors	13th and 12th Gen Intel Core Series Processors
Chipset	Intel B760 Express Chipset
RAM Type	DDR4
RAM Slots	4 x DDR4 DIMM sockets (Dual Channel)
Max RAM Capacity	Up to 64 GB
Memory Speed	2133 MHz (and higher via XMP)
PCIe Slots	1 x PCIe 4.0 x16 slot, 2 x PCIe 3.0 x1 slots
M.2 Slots	2 x M.2 connectors (PCIe 4.0 x4)
SATA Ports	4 x SATA 6Gb/s connectors
USB Ports (Rear I/O)	USB 3.2 Gen 2 Type-C, USB 3.2 Gen 1, USB 2.0/1.1
LAN	Realtek 2.5GbE LAN chip
Wireless Connectivity	Intel Wi-Fi 6E AX211, Bluetooth 5.3

Feature	Detail
Audio	Realtek Audio CODEC (High Definition Audio)
Form Factor	Micro ATX (mATX)
Dimensions	10.62 x 10.55 x 2.67 inches

Warranty and Support

GIGABYTE provides a limited warranty for its motherboards. Please refer to the official GIGABYTE website or the warranty card included with your product for specific warranty terms and conditions, including duration and coverage.
For technical support, driver downloads, BIOS updates, and additional documentation, please visit the official GIGABYTE support website. You can also find a PDF version of the user manual here.
When contacting support, please have your motherboard model number (B760M DS3H AX DDR4) and serial number ready.

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