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GIGABYTE B760M DS3H AX

GIGABYTE B760M DS3H AX Motherboard Instruction Manual

Model: B760M DS3H AX

1. Product Overview

The GIGABYTE B760M DS3H AX is a high-performance micro-ATX motherboard designed for Intel LGA 1700 socket processors, supporting both 13th and 12th Gen Intel Core Series CPUs. It features DDR5 memory compatibility, robust power delivery, and advanced connectivity options for a reliable and efficient computing experience.

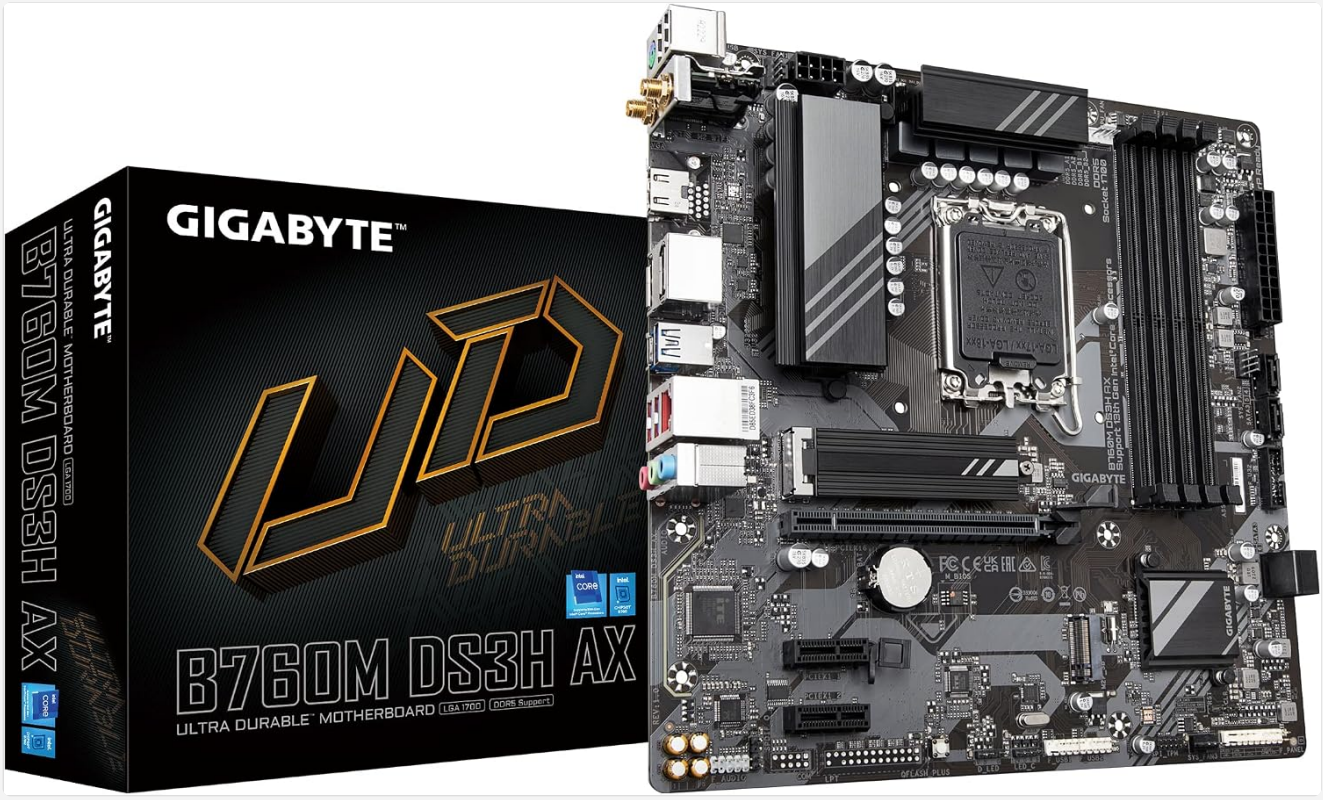


Image: GIGABYTE B760M DS3H AX Motherboard with its retail packaging.

Key Features:

- Intel LGA 1700 Socket: Supports 13th and 12th Gen Intel Core Series Processors.
- DDR5 Compatible: Dual Channel DDR5, 4 DIMMs for high-speed memory.
- Sturdy Power Design: 6+2+1 Hybrid Digital VRM Design for stable power delivery.
- Comprehensive Thermal Design: M.2 Thermal Guard for optimal SSD performance.
- Next Gen Connectivity: PCIe 4.0, NVMe PCIe 4.0 x2 M.2, USB 3.2 Gen 2 Type-C.
- Fast Networking: 2.5GbE LAN, WiFi 6E for reliable and high-speed internet.
- Fine Tuning Features: RGB FUSION 2.0, Supports Addressable LED & RGB LED Strips, Smart Fan 6, Q-Flash Plus for easy BIOS updates.

2. Safety Information

Always observe the following safety precautions when handling or installing the motherboard:

- **Static Electricity:** Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling components.
- **Power Off:** Ensure the power supply is disconnected from the wall outlet before installing or removing any components.
- **Component Handling:** Handle components by their edges to avoid touching sensitive parts.
- **Ventilation:** Ensure adequate ventilation in your PC case to prevent overheating.
- **Liquid Contact:** Keep the motherboard and other components away from liquids.

3. Package Contents

Verify that all items are present in the package:

- GIGABYTE B760M DS3H AX Motherboard
- SATA Cables
- Wi-Fi Antenna
- I/O Shield (if not integrated)
- M.2 Screws/Standoffs
- User Manual (Quick Start Guide)
- Driver CD/USB (or download instructions)

4. Component Identification

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

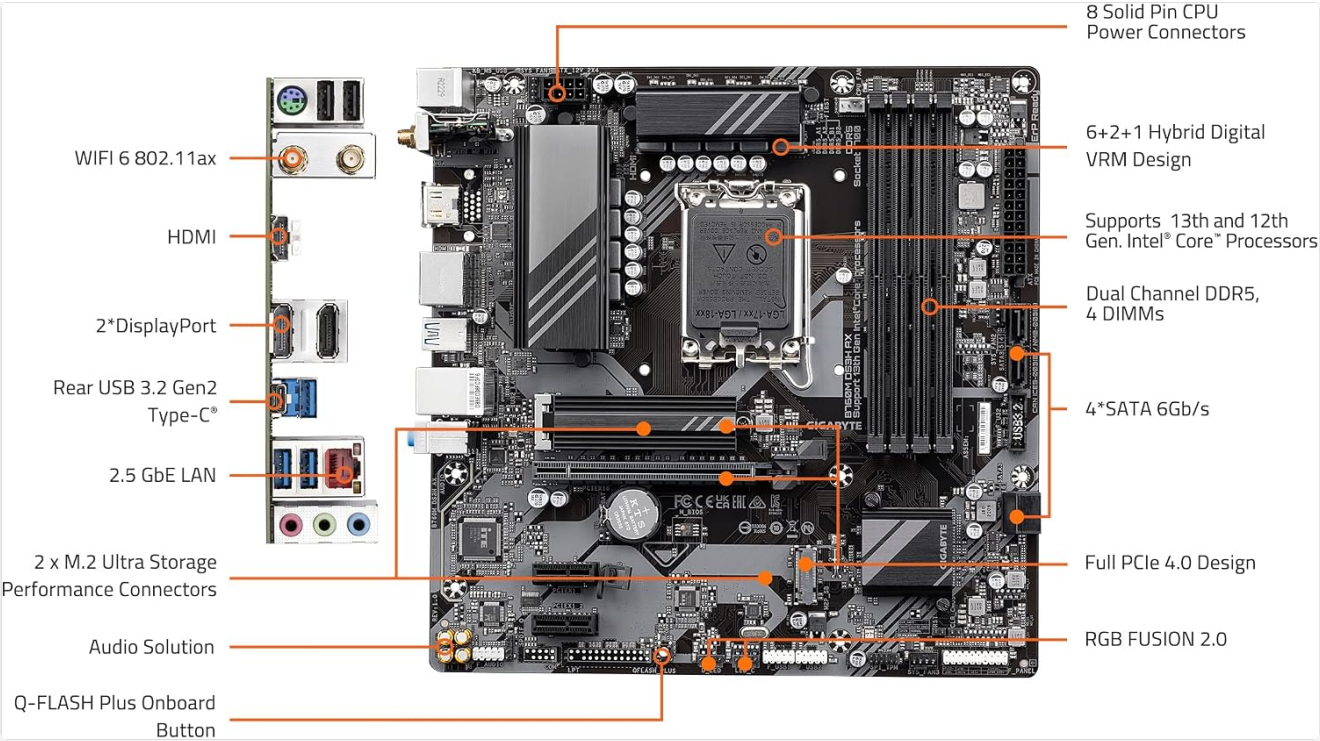


Image: Detailed diagram highlighting key components and connectors on the motherboard, including CPU socket, RAM slots, PCIe slots, M.2 slots, and power connectors.

Rear I/O Panel:



Image: Close-up view of the motherboard's rear input/output panel, showing various ports such as USB, HDMI, DisplayPort, LAN, Wi-Fi antenna connectors, and audio jacks.

- **USB Ports:** Various USB 2.0, USB 3.2 Gen 1, and USB 3.2 Gen 2 Type-C ports for peripheral connectivity.
- **Video Outputs:** HDMI and DisplayPort for integrated graphics output.
- **LAN Port:** 2.5GbE LAN for high-speed wired network connection.
- **Wi-Fi Antenna Connectors:** For attaching the included Wi-Fi 6E antennas.
- **Audio Jacks:** For connecting speakers, headphones, and microphones.
- **Q-Flash Plus Button:** Allows BIOS updates without CPU, memory, or graphics card installed.

5. Setup and Installation

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

5.1 CPU Installation

1. Locate the LGA 1700 socket on the motherboard.
2. Open the CPU socket lever and remove the protective cover.

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

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Video: Product Overview of the GIGABYTE B760M DS3H AX Motherboard, demonstrating its features and ease of installation. This video highlights the DDR5 support, PCIe 4.0, M.2 Thermal Guard, and connectivity options like WiFi 6E and 2.5GbE LAN.

5.2 Memory (RAM) Installation

1. Locate the four DDR5 DIMM slots. For dual-channel operation, refer to the motherboard's silkscreen or full manual for recommended slot pairing.
2. Open the clips at both ends of the DIMM slot.
3. Align the notch on the DDR5 memory module with the key in the DIMM slot.
4. Insert the memory module firmly into the slot until the clips snap into place.

5.3 Storage Device Installation

- **M.2 SSDs:** The motherboard features two NVMe PCIe 4.0 x2 M.2 slots with M.2 Thermal Guard. Utilize the PCIe EZ-Latch for tool-less installation and removal of M.2 SSDs.
- **SATA Drives:** Connect SATA data cables from your storage drives (HDDs/SSDs) to the SATA 6Gb/s ports on the motherboard. Connect power cables from your power supply to the drives.

5.4 Expansion Card Installation

Install your graphics card and other PCIe expansion cards into the available PCIe 4.0 slots.

5.5 Power Supply Connections

- Connect the 24-pin ATX main power connector from your power supply to the motherboard.
- Connect the 8-pin CPU power connector (ATX_12V) to the corresponding port near the CPU socket.

5.6 Front Panel and Other Connections

Connect the cables from your PC case (power button, reset button, USB ports, audio jacks) to the corresponding headers on the motherboard. Refer to the labeled diagram in Section 4 for header locations.
Attach the included Wi-Fi antennas to the connectors on the rear I/O panel for Wi-Fi 6E functionality.

6. Operating Your System

6.1 First Boot and BIOS Setup

After assembling your system, power it on. The system should display the GIGABYTE splash screen. 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, and other advanced settings.

6.2 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's components (chipset, LAN, audio, Wi-Fi, etc.). These can typically be found on the GIGABYTE support website for your specific model.

7. Maintenance

- **Cleaning:** Regularly clean dust from inside your PC case and motherboard components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** GIGABYTE provides BIOS updates to improve system stability, compatibility, and performance. Use the Q-Flash Plus feature for convenient BIOS updates. Download the latest BIOS version from the official GIGABYTE website, place it on a USB drive, and follow the Q-Flash Plus instructions.

8. Troubleshooting

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

- **No Power:**
  - Check all power connections (24-pin ATX, 8-pin CPU).
  - Ensure the power supply switch is in the ON position.
  - Test the power supply with another system if possible.
- **No Display:**
  - Ensure the monitor is connected to the graphics card (or motherboard if using integrated graphics).
  - Reseat the graphics card and RAM modules.
  - Try booting with only one RAM stick.
- **System Instability/Crashes:**
  - Check CPU and GPU temperatures.
  - Ensure all drivers are correctly installed and up to date.
  - Run memory diagnostic tools.
- **BIOS Update Issues:**
  - Ensure the USB drive is formatted to FAT32.
  - Verify the BIOS file name is correct for Q-Flash Plus.

For more detailed troubleshooting, please refer to the comprehensiveGIGABYTE B760M DS3H AX User Manual (PDF).

9. Specifications

Feature	Specification
CPU Socket	LGA 1700
Compatible Processors	13th and 12th Gen Intel Core Series
Chipset	Intel B760
RAM Technology	DDR5
Memory Slots	4 x DIMM (Dual Channel)
Memory Speed	Up to 2133 MHz (Base), higher with XMP

PCIe Slots	PCIe 4.0
M.2 Slots	2 x NVMe PCIe 4.0 x2 M.2 (with Thermal Guard)
USB Ports	USB 3.2 Gen 2 Type-C, USB 3.2 Gen 1, USB 2.0
LAN	2.5GbE LAN
Wireless Connectivity	WiFi 6E, Bluetooth
Form Factor	Micro-ATX
Dimensions (LxWxH)	10.43 x 10.43 x 2.12 inches
Item Weight	2.4 pounds

10. Warranty and Support

GIGABYTE products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official GIGABYTE website.
For technical support, driver downloads, and further documentation, please visit the official GIGABYTE support page:

GIGABYTE Support

Full User Manual (PDF)

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