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GIGABYTE B760 DS3H AX

GIGABYTE B760 DS3H AX Motherboard User Manual

Model: B760 DS3H AX (rev. 1.x)

1. Introduction

The GIGABYTE B760 DS3H AX (rev. 1.x) is an ATX motherboard designed for Intel LGA 1700 socket processors, supporting 14th and 13th Generation Intel Core Series CPUs. This motherboard provides a stable and high-performance foundation for personal computer systems, featuring advanced power delivery, high-speed memory support, and comprehensive connectivity options. This manual provides essential information for setting up, operating, and maintaining your motherboard.

2. Key Features

- **Intel LGA 1700 Socket:** Supports 14th and 13th Gen Intel Core Series Processors.
- **DDR5 Compatible:** Features Dual Channel DDR5 memory support across 4 DIMMs.
- **Sturdy Power Design:** Incorporates a Hybrid 8+2+1 Phases Digital VRM Solution for stable power delivery.
- **Next Gen Connectivity:** Includes PCIe 4.0, M.2 slots, and USB 3.2 Gen 2 Type-C ports.
- **Fast Networking:** Equipped with Realtek GbE LAN and Intel Wi-Fi 6E for high-speed network access.

3. Product Overview

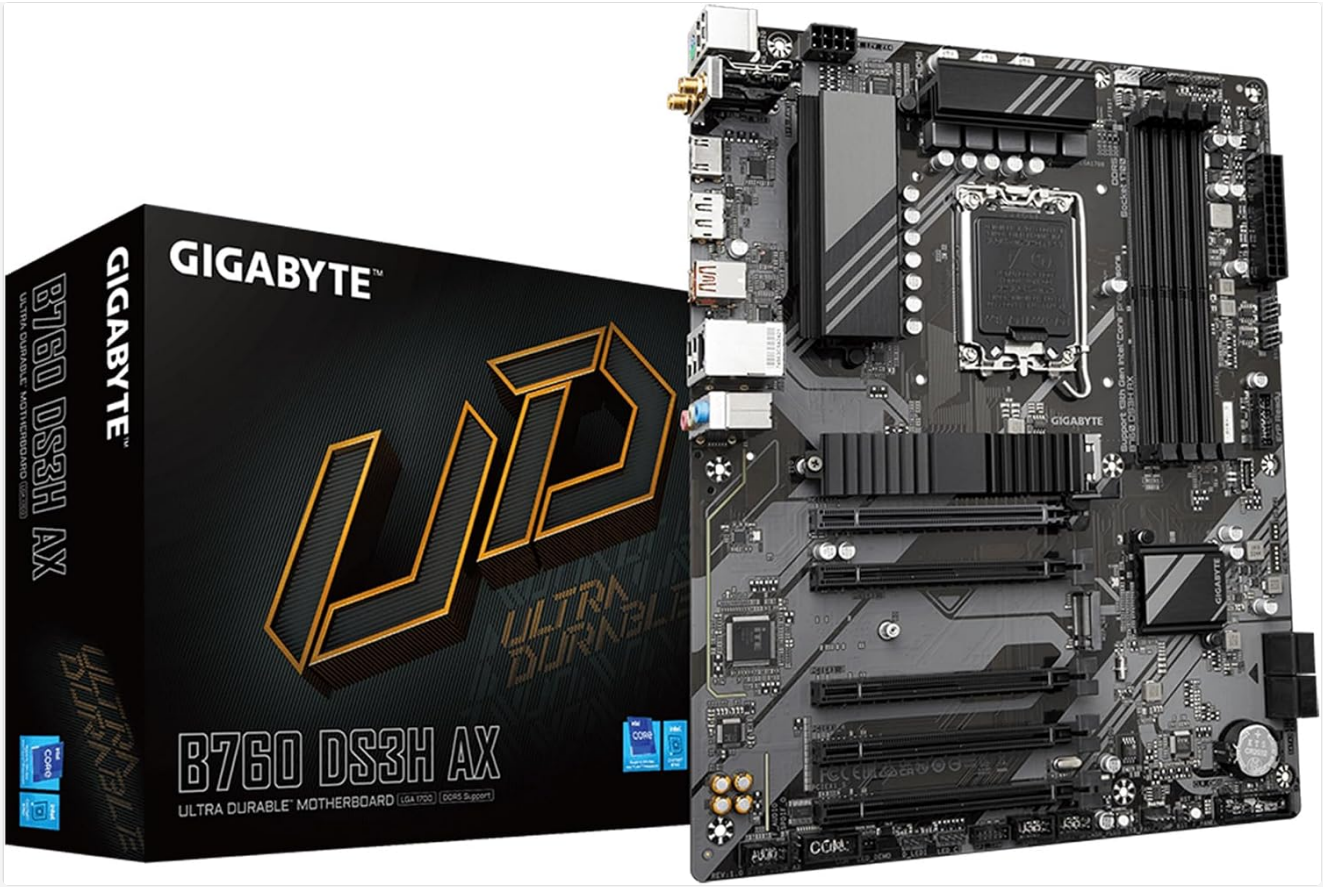


Figure 3.1: GIGABYTE B760 DS3H AX Motherboard and its retail packaging.

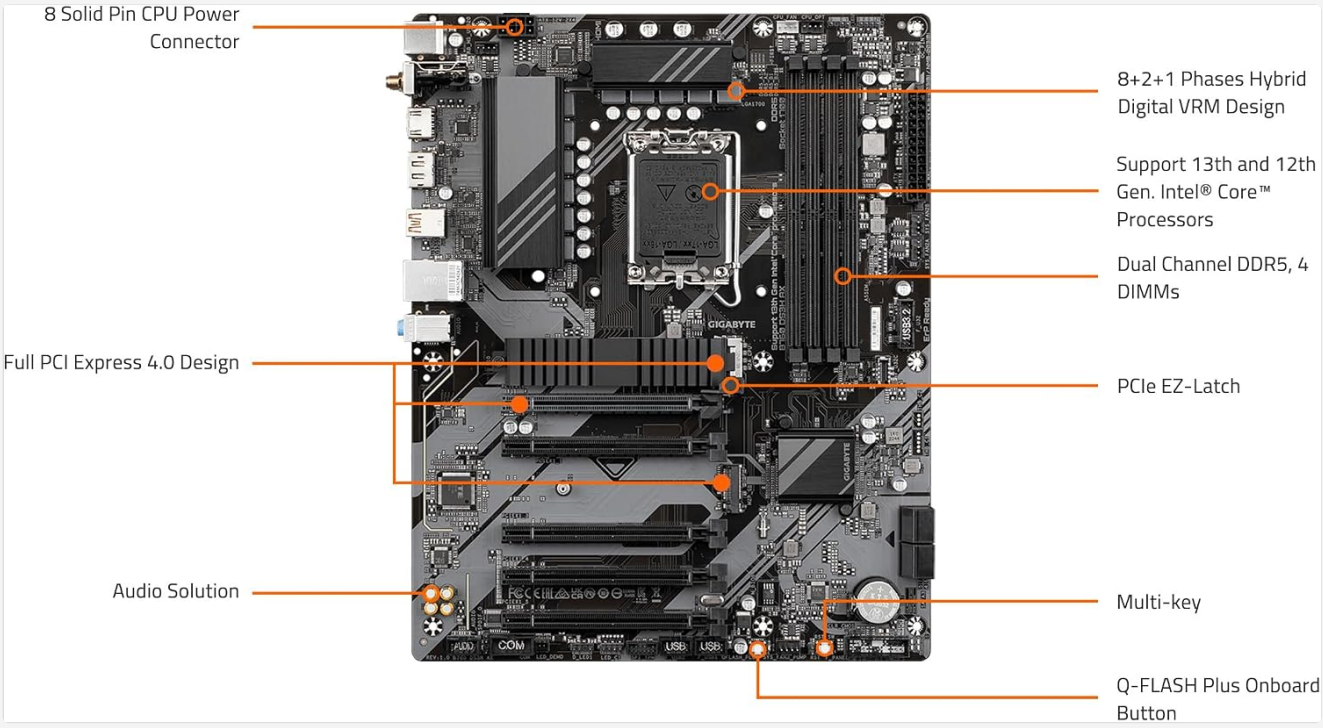


Figure 3.2: Detailed view of the motherboard with key components labeled, including the 8-pin CPU power connector, Hybrid Digital VRM, DDR5 DIMMs, PCIe 4.0 slots, M.2 EZ-Latch Plus, Audio Solution, Multi-key, and Q-Flash Plus button.

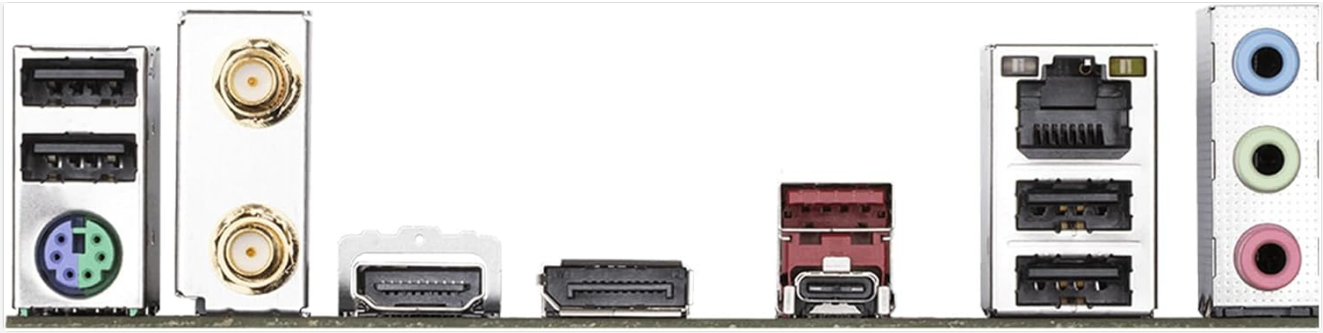


Figure 3.3: Rear I/O panel of the GIGABYTE B760 DS3H AX motherboard, showing various ports including USB, LAN, audio, and Wi-Fi antenna connectors.

Product Highlights Video

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Video 3.1: A brief product highlight video showcasing the GIGABYTE B760 series motherboards' features and capabilities.

4. Setup and Installation

Before beginning installation, ensure you have all necessary components and tools. It is recommended to work in a static-free environment and handle the motherboard by its edges to prevent damage to sensitive components.

4.1. Pre-Installation Checklist

- Motherboard (GIGABYTE B760 DS3H AX)
- Compatible CPU (Intel 14th/13th Gen LGA 1700)
- DDR5 RAM Modules
- CPU Cooler
- Power Supply Unit (PSU)
- Storage Devices (M.2 SSDs, SATA HDDs/SSDs)
- Graphics Card (if not using integrated graphics)
- Computer Case
- Screwdriver, zip ties, thermal paste

4.2. Installation Steps

1. **Prepare the Case:** Install the I/O shield into the case's rear opening.
2. **Install CPU:** Carefully open the CPU socket lever, align the CPU with the socket's notch, place it gently, and close the lever.
3. **Install CPU Cooler:** Apply thermal paste (if not pre-applied) and secure the CPU cooler according to its instructions.
4. **Install RAM:** Open the DIMM slot clips, align the RAM modules with the slots, and press firmly until the clips lock into place.
5. **Mount Motherboard:** Carefully place the motherboard into the case, aligning it with the standoffs. Secure it with screws.
6. **Install Storage:** For M.2 SSDs, insert into the M.2 slot and secure with the EZ-Latch Plus mechanism. For SATA drives, connect SATA data and power cables.
7. **Install Graphics Card:** Insert the graphics card into the primary PCIe x16 slot and secure it.
8. **Connect Power:** Connect the 24-pin ATX power connector and the 8-pin CPU power connector from the PSU to

the motherboard. Connect power to other components as needed.

9. **Connect Front Panel Cables:** Connect the case's front panel connectors (power button, reset button, USB, audio) to the corresponding headers on the motherboard.
10. **Connect Peripherals:** Connect monitor, keyboard, mouse, and other peripherals.

For detailed, step-by-step instructions and diagrams, please refer to the comprehensive user manual provided with your motherboard or download it from the official GIGABYTE website.

5. Operating Guidelines

Once all components are installed and connected, you can power on your system. The motherboard's BIOS/UEFI firmware allows for system configuration and monitoring.

5.1. First Boot

- Press the power button on your computer case.
- The system should initiate POST (Power-On Self-Test).
- To enter BIOS/UEFI Setup, repeatedly press the**DEL** key during startup.

5.2. Driver Installation

After installing your operating system, install the latest drivers for the motherboard's chipset, LAN, Wi-Fi, audio, and other integrated components. Drivers can be found on the included support DVD or downloaded from the GIGABYTE website.

6. Maintenance

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

- **Dust Cleaning:** Periodically clean dust from inside your computer case, especially around fans, heatsinks, and motherboard components, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS/UEFI Updates:** Check the GIGABYTE website for the latest BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid system damage.
- **Cable Management:** Ensure cables are neatly routed to improve airflow and prevent interference.

7. Troubleshooting

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

- **No Power/No Boot:**
  - Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected.
  - Check the power supply unit (PSU) switch and wall outlet.
  - Ensure the front panel power button cable is correctly connected to the motherboard header.
- **No Display:**
  - Ensure the monitor is connected to the correct video output (graphics card or integrated graphics).
  - Reseat the graphics card and RAM modules.

- Try booting with only one RAM stick.

- **Component Not Detected:**
  - Reseat the component (e.g., M.2 SSD, SATA drive, PCIe card).
  - Check cable connections for SATA drives.
  - Ensure the component is compatible with the motherboard.

- **System Instability/Crashes:**
  - Ensure all drivers are up to date.
  - Check CPU and GPU temperatures to prevent overheating.
  - Run memory diagnostic tools to check for RAM errors.

If issues persist, consult the GIGABYTE support website or contact technical support for further assistance.

8. Specifications

Feature	Specification
Brand	GIGABYTE
Model Name	B760 DS3H AX
CPU Socket	LGA 1700
Compatible Processors	Intel 13th Gen Core / Intel 12th Gen Core / Intel Pentium series / Intel Celeron series
RAM Memory Technology	DDR5
Memory Clock Speed	5600 MHz (up to 7600 MHz OC)
Memory Storage Capacity (Max)	128 GB
Chipset Type	B760 D5
PCIe Slots	PCIe 4.0
M.2 Slots	2* M.2
USB Ports	USB 3.2 Gen 2 Type-C, USB 2.0 (4 ports)
LAN	Realtek GbE LAN
Wireless Connectivity	WiFi 6E
Form Factor	ATX
Item Weight	2.88 pounds

9. 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. Technical support, driver downloads, and BIOS updates are available through the GIGABYTE support portal.
GIGABYTE Support Website: www.gigabyte.com/support

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