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GIGABYTE B760M AORUS ELITE AX

GIGABYTE B760M AORUS ELITE AX Motherboard User Manual

Model: B760M AORUS ELITE AX

1. Product Overview

The GIGABYTE B760M AORUS ELITE AX is a high-performance motherboard designed for 13th and 12th Gen Intel Core Series Processors. It features advanced power delivery, cutting-edge thermal solutions, and next-generation connectivity to optimize your system's performance.
Key features include:

- Intel LGA 1700 Socket: Supports 13th and 12th Gen Intel Core Series Processors
- DDR5 Compatible: Dual Channel DDR5, 4 DIMMs
- Commanding Power Design: 12+1+1 Twin Hybrid Phases Digital Power Design with 60A DrMOS
- Cutting-Edge Thermal Design: Fully Covered MOSFET Heatsinks, Ultra Durable PCIe Armor, Aluminum I/O Cover, M.2 Thermal Guard, 6-Layer & 2X Copper PCB
- Next Gen Connectivity: PCIe 4.0, NVMe PCIe 4.0 M.2, USB 3.2 Gen 2 Type-C, PCIe EZ-Latch
- Fast Networking: 2.5GbE LAN, Intel WiFi 6E
- Fine Tuning Features: RGB FUSION 2.0, Supports Addressable LED & RGB LED Strips, Smart Fan 6, Q-Flash Plus Update BIOS without installing CPU, Memory, and GPU



Figure 1: GIGABYTE B760M AORUS ELITE AX Motherboard and its retail packaging.

2. Setup and Installation

Proper installation is crucial for optimal performance and system stability. Follow these guidelines for setting up your motherboard.

2.1 Preparing for Installation

- Ensure your power supply is disconnected from the wall outlet.
- Work on a clean, static-free surface. Use an anti-static wrist strap if available.
- Gather all necessary components: CPU, CPU cooler, RAM, storage devices (M.2 SSDs, SATA drives), graphics card, and power supply.

2.2 CPU Installation (LGA 1700 Socket)

1. Locate the LGA 1700 CPU socket on the motherboard.
2. Gently push down the load lever and pull it to the side to open the CPU socket retention frame.
3. Carefully align the triangular mark on the CPU with the corresponding mark on the socket.
4. Place the CPU into the socket without forcing it.
5. Close the retention frame and secure it by pushing the load lever back into place.



Figure 2: Top view of the motherboard, highlighting the LGA 1700 CPU socket.

2.3 RAM Installation (DDR5)

1. Identify the DDR5 DIMM slots. This motherboard supports Dual Channel DDR5 across 4 DIMMs.
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. Ensure both clips are fully closed.

2.4 M.2 SSD Installation (PCIe EZ-Latch)

This motherboard features the M.2 EZ-Latch Plus for tool-less M.2 SSD installation.

1. Locate the M.2 slots on the motherboard.
2. Insert the M.2 SSD into the slot at an angle.
3. Gently push down the M.2 SSD until it is flat against the motherboard.
4. Secure the M.2 SSD using the EZ-Latch mechanism. No screw is required.

Your browser does not support the video tag.

Video 1: This video demonstrates the easy installation of an M.2 SSD using the EZ-Latch Plus feature on a GIGABYTE AORUS motherboard, showing the tool-less process.



Figure 3: Angled view of the motherboard, showing various components and slots.

3. Operating Your Motherboard

Once all components are installed and connected, you can power on your system. The motherboard's BIOS (Basic

Input/Output System) is the first software that runs when you turn on your computer.

3.1 BIOS/UEFI Settings

- To enter the BIOS/UEFI setup, press the **DEL** key repeatedly during the system's boot-up process.
- The BIOS/UEFI interface allows you to configure various system settings, including boot order, CPU and memory frequencies, fan speeds (Smart Fan 6), and more.
- Refer to the detailed user manual (PDF) for comprehensive BIOS/UEFI settings and options.

3.2 Q-Flash Plus

The Q-Flash Plus feature allows you to update the BIOS without installing the CPU, memory, or graphics card. This is useful for compatibility with newer CPUs or for recovering from a corrupted BIOS.

1. Download the latest BIOS file from the GIGABYTE website.
2. Rename the downloaded BIOS file to GIGABYTE.bin and save it to the root directory of a USB flash drive (FAT32 format).
3. Insert the USB flash drive into the dedicated Q-Flash Plus USB port on the motherboard's rear I/O panel.
4. Press the Q-Flash Plus button. The QFLED will flash during the BIOS matching and updating process.
5. Wait until the QFLED stops flashing, indicating the BIOS update is complete.

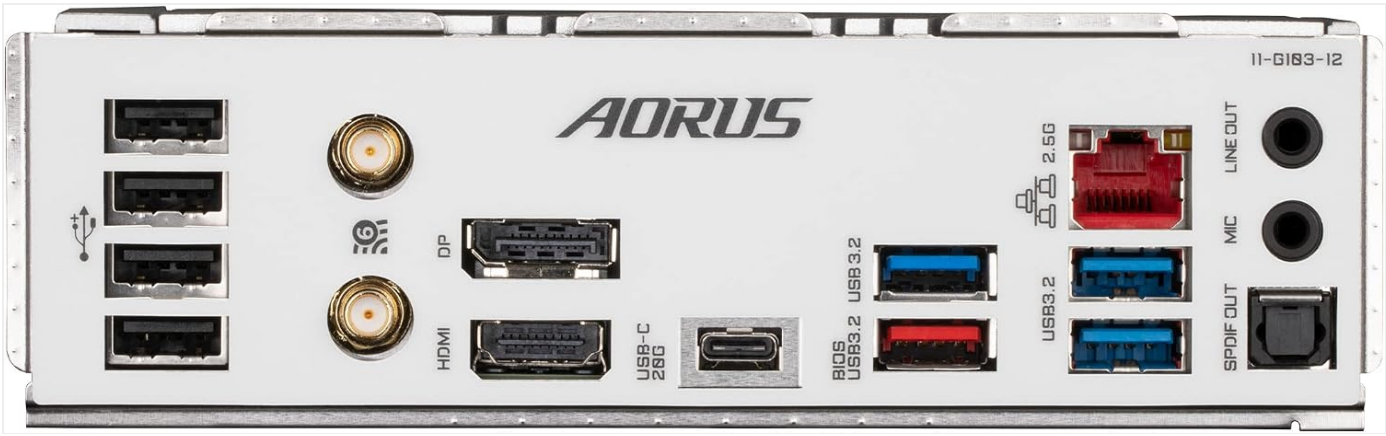


Figure 4: Rear I/O panel, showing various ports including the dedicated Q-Flash Plus USB port.

4. Maintenance

Regular maintenance helps ensure the longevity and stable operation of your motherboard.

- **Dust Removal:** Periodically clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Keep your BIOS updated to the latest version to benefit from performance improvements, bug fixes, and compatibility enhancements. Refer to the Q-Flash Plus section for instructions.
- **Driver Updates:** Regularly update chipset, LAN, audio, and other drivers from the GIGABYTE official website to ensure optimal performance and stability.

5. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
System does not power on.	Power cables not connected properly, faulty power supply.	Check all power connections (24-pin ATX, 8-pin CPU). Test power supply.
No display output.	Graphics card not seated correctly, monitor cable loose, faulty RAM.	Reseat graphics card and RAM. Check monitor cable connections. Try one RAM stick at a time.
System unstable or crashes.	Overheating, incompatible RAM, outdated BIOS/drivers.	Ensure proper cooling. Verify RAM compatibility. Update BIOS and drivers.
M.2 SSD not detected.	Incorrect installation, M.2 slot disabled in BIOS, driver issue.	Ensure M.2 SSD is fully seated. Check BIOS settings for M.2 slot. Install necessary drivers.

For more complex issues, consult the official GIGABYTE support resources or the full user manual.

6. Specifications

Detailed technical specifications for the GIGABYTE B760M AORUS ELITE AX Motherboard.

Feature	Detail
Brand	GIGABYTE
Series	B760M AORUS ELITE AX
CPU Socket	LGA 1700
Compatible Processors	13th and 12th Gen Intel Core
Chipset Type	Intel B760
RAM Memory Technology	DDR5
Memory Speed	Up to 7800 MHz (OC)
Wireless Type	802.11a/b/g/n/ac, Bluetooth, Intel WiFi 6E
LAN	2.5GbE LAN
Product Dimensions (LxWxH)	10.62 x 10.55 x 2.67 inches
Item Weight	2.2 pounds

7. Warranty and Support

For detailed warranty information, technical support, and additional resources, please refer to the official GIGABYTE channels.

- **Official User Manual (PDF):** For comprehensive instructions and detailed diagrams, download the full user manual: Download PDF Manual
- **GIGABYTE Brand Store:** Explore other GIGABYTE products and find support information on their official store page: Visit GIGABYTE Store
- **Online Support:** Visit the GIGABYTE official website for drivers, BIOS updates, FAQs, and customer support

contact information.

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