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GIGABYTE B760 GAMING X AX

GIGABYTE B760 Gaming X AX Motherboard User Manual

Model: B760 GAMING X AX | Brand: GIGABYTE

Product Overview

The GIGABYTE B760 GAMING X AX motherboard is designed to support 13th and 12th Gen Intel Core Series Processors, offering robust performance and advanced features for gaming and productivity. It features DDR5 compatibility, a sturdy power design, comprehensive thermal management, and next-generation connectivity options.



Image: GIGABYTE B760 Gaming X AX Motherboard shown alongside 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:** Hybrid 8+1+1 Phases Digital VRM Solution for stable power delivery.
- **Comprehensive Thermal Design:** Advanced Thermal Design & M.2 Thermal Guard for optimal cooling.
- **Next Gen Connectivity:** PCIe 4.0, M.2, USB 3.2 Gen 2 Type-C for modern peripherals and storage.
- **Fast Networking:** 2.5GbE LAN, AMD 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 without CPU, Memory, or GPU.

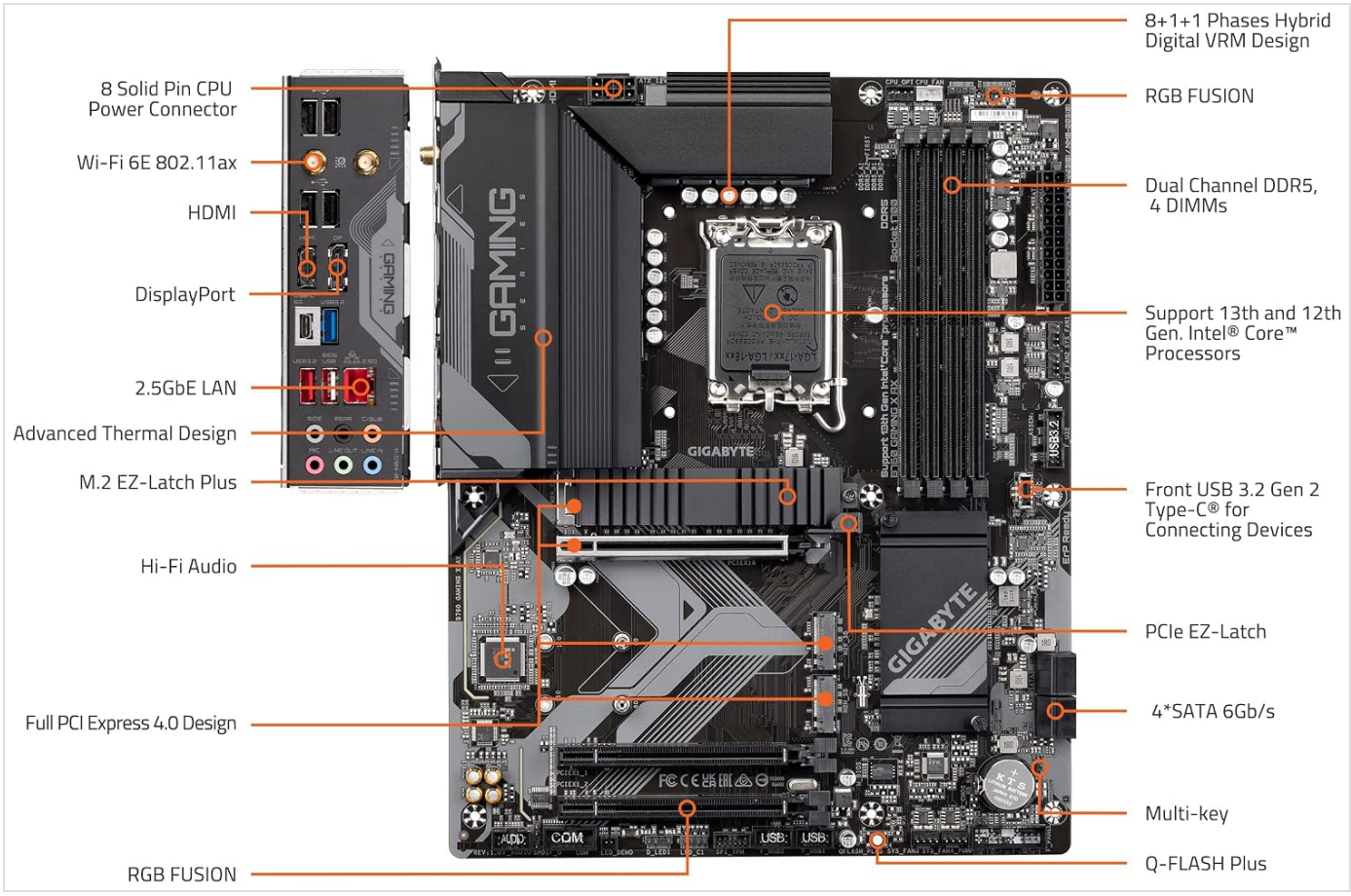


Image: Detailed view of the GIGABYTE B760 Gaming X AX Motherboard highlighting key features and component locations.

Setup and Installation

Proper installation is crucial for optimal performance and system stability. Always ensure your system is powered off and unplugged before handling components. Refer to the detailed user manual PDF for comprehensive step-by-step instructions.

Key Installation Steps:

1. **Prepare the Case:** Ensure your PC case is ready for motherboard installation, with standoffs correctly aligned.
2. **Install CPU:** Carefully open the CPU socket lever, align the CPU with the triangle marker, and gently place it into the socket. Close the lever to secure the CPU.
3. **Install CPU Cooler:** Attach your chosen CPU cooler according to its manufacturer's instructions, ensuring proper thermal paste application.
4. **Install Memory (RAM):** Open the clips on the DDR5 DIMM slots. Align your DDR5 memory modules and press firmly until the clips snap into place. For dual-channel performance, install modules in matching slots (e.g., A2 and B2).

5. **Install M.2 SSDs:** Locate the M.2 slots. Remove the M.2 thermal guard if present. Insert the M.2 SSD at an angle and secure it with the provided screw or EZ-Latch mechanism. Reattach the thermal guard.
6. **Mount Motherboard:** Carefully place the motherboard into the PC case, aligning it with the standoffs and the rear I/O shield. Secure it with screws.
7. **Install Graphics Card (GPU):** Open the PCIe EZ-Latch clip on the primary PCIe x16 slot. Insert your graphics card firmly until it clicks into place. Secure it with the case screw.
8. **Connect Power Cables:** Connect the 24-pin ATX main power connector and the 8-pin CPU power connector from your power supply to the motherboard.
9. **Connect Front Panel Cables:** Connect the power button, reset button, USB ports, and audio headers from your case to the corresponding pins on the motherboard.
10. **Connect SATA Devices:** If using SATA drives, connect them to the SATA 6Gb/s ports.

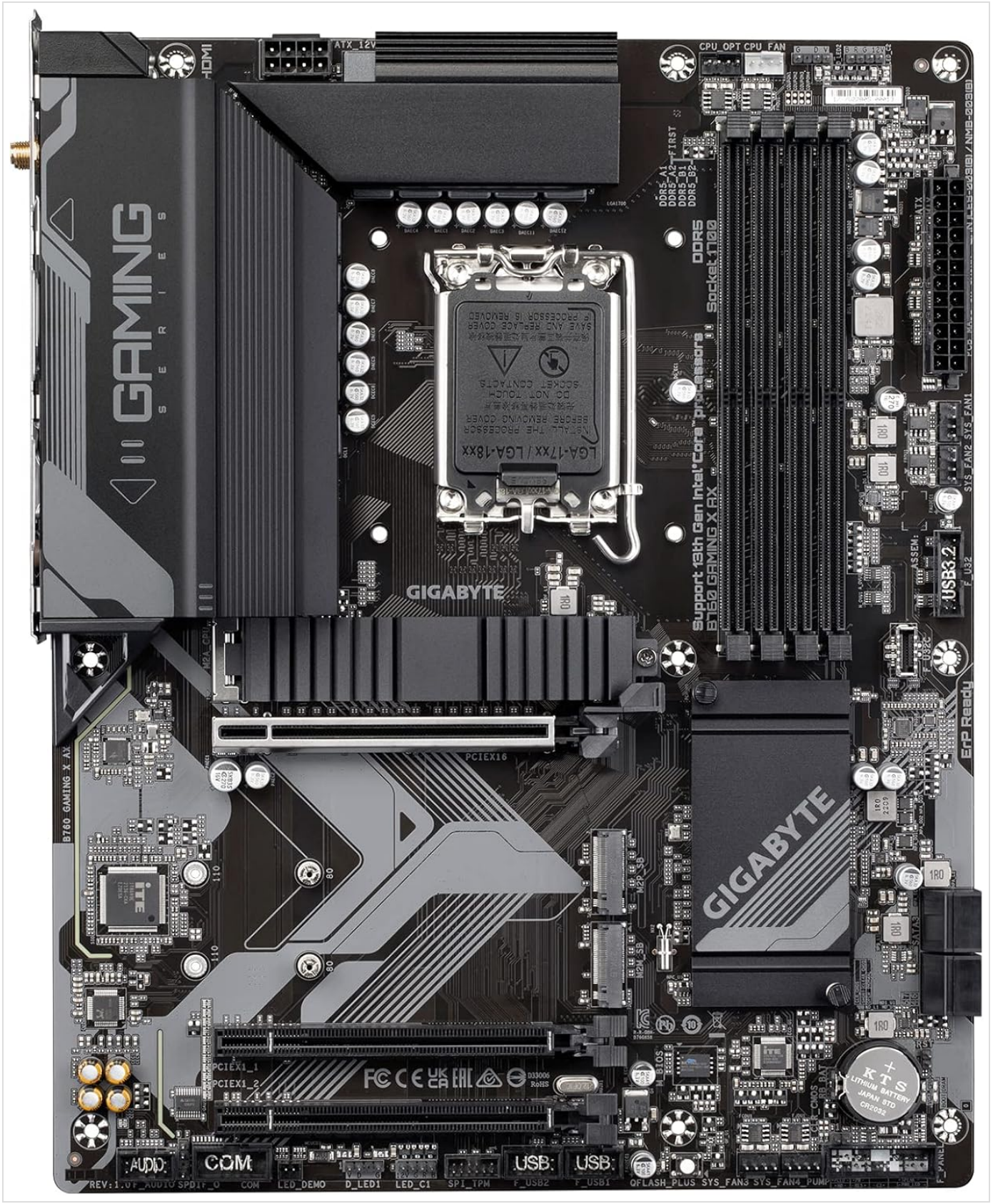


Image: Overhead view of the GIGABYTE B760 Gaming X AX Motherboard, showing CPU socket, RAM slots, and M.2 slots.



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

Operating Instructions

Once your system is assembled, power it on. The motherboard's BIOS (Basic Input/Output System) is the first software that runs, allowing you to configure hardware settings.

BIOS Setup:

- Press the **DEL** key during system startup to enter the BIOS Setup Utility.
- Navigate through the menus using arrow keys and**Enter**.
- Common settings include boot order, date/time, and enabling/disabling integrated peripherals.
- Save changes and exit the BIOS to continue booting into your operating system.

GIGABYTE Control Center (GCC):

Install the GIGABYTE Control Center software from the official GIGABYTE website. This utility allows you to monitor system status, update drivers, and customize features like RGB FUSION 2.0 and Smart Fan 6 directly from your operating system.

Your browser does not support the video tag.

Video: Official GIGABYTE B760 Motherboard Trailer (2023), showcasing key features and design elements.

Maintenance

Regular maintenance helps prolong the lifespan of your motherboard and ensures consistent performance.

- **Dust Removal:** Periodically clean dust from the motherboard and components using compressed air. Pay attention to heatsinks and fan blades.
- **Thermal Management:** The B760 GAMING X AX features an Advanced Thermal Design. Ensure proper airflow within your PC case to maximize cooling efficiency. Monitor temperatures using GIGABYTE Control Center.
- **BIOS Updates:** Keep your BIOS updated to the latest version for improved compatibility, stability, and performance. Use the Q-Flash Plus feature for convenient updates without needing a CPU, memory, or graphics card installed.

Troubleshooting

If you encounter issues, refer to these common troubleshooting tips. For complex problems, consult the full user manual or GIGABYTE support.

- **No Power/No Boot:**

- Check all power connections (24-pin ATX, 8-pin CPU).
- Ensure the power supply is switched on.
- Verify CPU, RAM, and GPU are correctly seated.

- **Display Issues:**
  - Ensure monitor cables are securely connected to the graphics card or motherboard (if using integrated graphics).
  - Try a different display cable or monitor.

- **System Instability/Crashes:**
  - Check for overheating (monitor temperatures).
  - Ensure RAM is compatible and correctly installed.
  - Update BIOS and drivers.

- **Q-Flash Plus:** If your system doesn't boot due to CPU/BIOS incompatibility, use Q-Flash Plus. Download the latest BIOS from GIGABYTE's website, rename it to GIGABYTE.bin, save it to a USB flash drive (FAT32 formatted), insert it into the designated Q-Flash Plus USB port on the rear I/O, and press the Q-Flash Plus button.

Specifications

Feature	Detail
Brand	GIGABYTE
Series	B760 GAMING X AX
Item Model Number	B760 GAMING X AX
CPU Socket	LGA 1700
Compatible Processors	13th and 12th Generation Intel Core
Chipset Type	Intel B760
RAM Memory Technology	DDR5
Memory Speed	7600 MHz (OC)
Memory DIMMs	4
Max Memory Capacity	48 GB
Wireless Type	802.11ax (AMD WiFi 6E)
LAN	2.5GbE
PCIe Slots	1 x PCIe 4.0 x16, 2 x PCIe 3.0 x1
M.2 Slots	3 x M.2 Gen4
SATA Ports	4 x SATA 6Gb/s

Feature	Detail
USB Ports	USB 3.2 Gen 2 Type-C, USB 3.2 Gen 2 Type-A, USB 3.2 Gen 1, USB 2.0
Product Dimensions	13.18 x 10.62 x 3.14 inches
Item Weight	3.64 pounds

Warranty and Support

For detailed warranty information and technical support, please refer to the official GIGABYTE website or contact their customer service. A comprehensive user manual in PDF format is available for download, providing in-depth information on installation, configuration, and troubleshooting.

User Manual (PDF): Download Here

For further assistance, visit the Official GIGABYTE Store on Amazon.

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.

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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