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GIGABYTE B760M GAMING PLUS WIFI DDR4

GIGABYTE B760M Gaming Plus WiFi DDR4 Motherboard User Manual

Model: B760M GAMING PLUS WIFI DDR4

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GIGABYTE B760M Gaming Plus WiFi DDR4 Motherboard. Please read this manual thoroughly before beginning the installation process to ensure correct setup and optimal performance. This motherboard supports 14th, 13th, and 12th Gen Intel Core Processors and features DDR4 memory support, multiple M.2 slots, PCIe 4.0, and integrated WiFi 6.

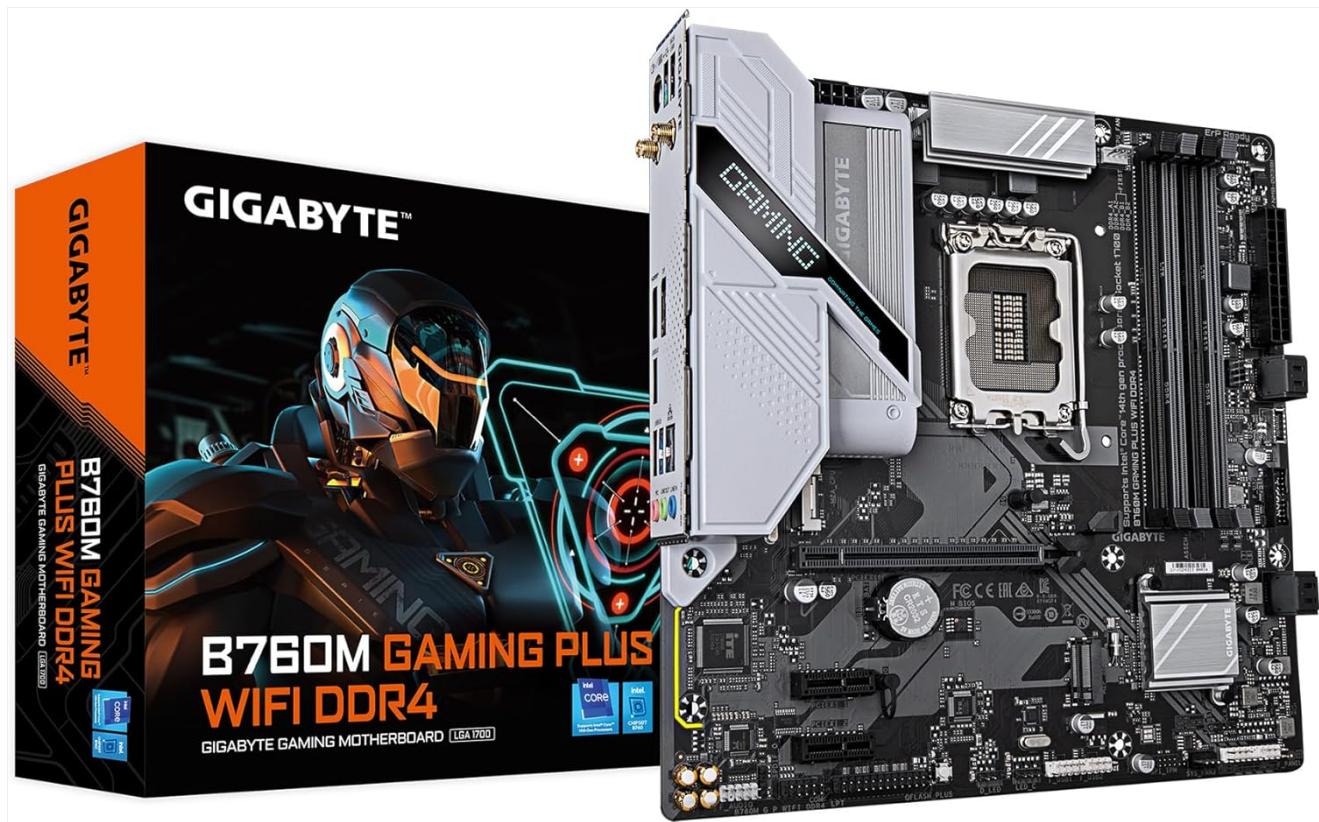


Image 1.1: GIGABYTE B760M Gaming Plus WiFi DDR4 Motherboard and its retail packaging.

2. KEY FEATURES

- **Intel LGA 1700 Socket:** Supports 14th, 13th, and 12th Generation Intel Core Processors.
- **DDR4 Compatibility:** Features Dual Channel DDR4 with 4 DIMM slots for memory modules.
- **Robust Power Design:** Hybrid 4+1+1 Phases Digital VRM Solution for stable power delivery.
- **Advanced Connectivity:** Includes two PCIe 4.0 x4 M.2 slots and a Front USB 3.2 Gen 1 Type-C port.
- **High-Speed Networking:** Integrated GbE LAN and Wi-Fi 6 for fast and reliable network connections.
- **User-Friendly Features:** Smart Fan 6 for intelligent cooling control and Q-Flash Plus for easy BIOS updates without CPU, memory, or graphics card installation.



Image 2.1: Overview of the GIGABYTE B760M Gaming Plus WiFi DDR4 Motherboard highlighting its main features.

3. SETUP GUIDE

3.1. Physical Installation

Before installing any components, ensure your system is powered off and unplugged from the wall outlet. Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage.

3.1.1. Motherboard Installation

1. Align the motherboard with the standoffs in your PC case.
2. Secure the motherboard using screws, ensuring it is firmly seated.

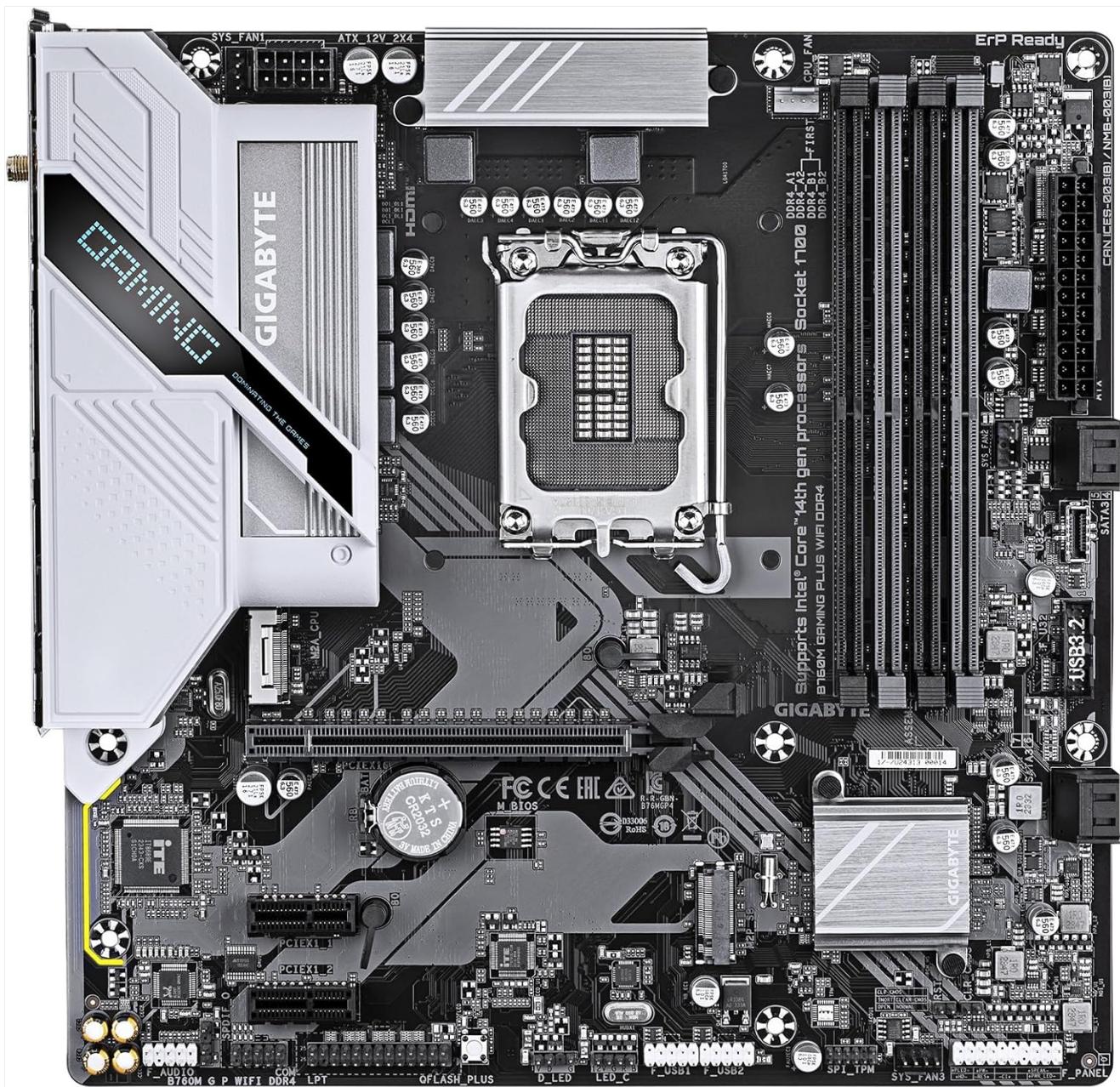


Image 3.1: Top-down view of the motherboard, showing component layout for installation.

3.1.2. CPU Installation

1. Open the CPU socket lever.
2. Carefully place the Intel LGA 1700 CPU into the socket, aligning the golden triangle on the CPU with the triangle on the socket.
3. Close the lever to secure the CPU.
4. Install the CPU cooler according to its manufacturer's instructions.

3.1.3. Memory (RAM) Installation

1. Open the clips on both ends of the DDR4 DIMM slots.
2. Align the RAM module with the slot, ensuring the notch on the module matches the notch in the slot.
3. Press down firmly on both ends of the RAM module until the clips snap into place.
4. For dual-channel operation, install modules into matching color slots (e.g., DIMM_A2 and DIMM_B2).

3.1.4. M.2 SSD Installation

1. Locate the M.2 slots on the motherboard.
2. Remove the M.2 standoff screw.

3. Insert the M.2 SSD into the slot at an angle.
4. Gently push down the SSD and secure it with the standoff screw.

3.1.5. PCIe Expansion Card Installation

1. Open the retention clip on the desired PCIe slot.
2. Align the expansion card with the slot and press down firmly until it clicks into place.
3. Secure the card to the case with a screw.

3.2. Cable Connections

Connect all necessary cables to the motherboard.

- **ATX Power Connectors:** Connect the 24-pin ATX main power connector and the 8-pin CPU power connector from your power supply.
- **SATA Devices:** Connect SATA data cables from your storage drives (HDDs/SSDs) to the SATA ports on the motherboard.
- **Front Panel Connectors:** Connect the power button, reset button, HDD LED, power LED, and front panel audio/USB headers according to the motherboard manual's pinout diagram.
- **Fan Headers:** Connect CPU fan and case fans to the appropriate fan headers.
- **USB Headers:** Connect front panel USB 2.0, USB 3.2 Gen 1, and USB 3.2 Gen 1 Type-C headers.

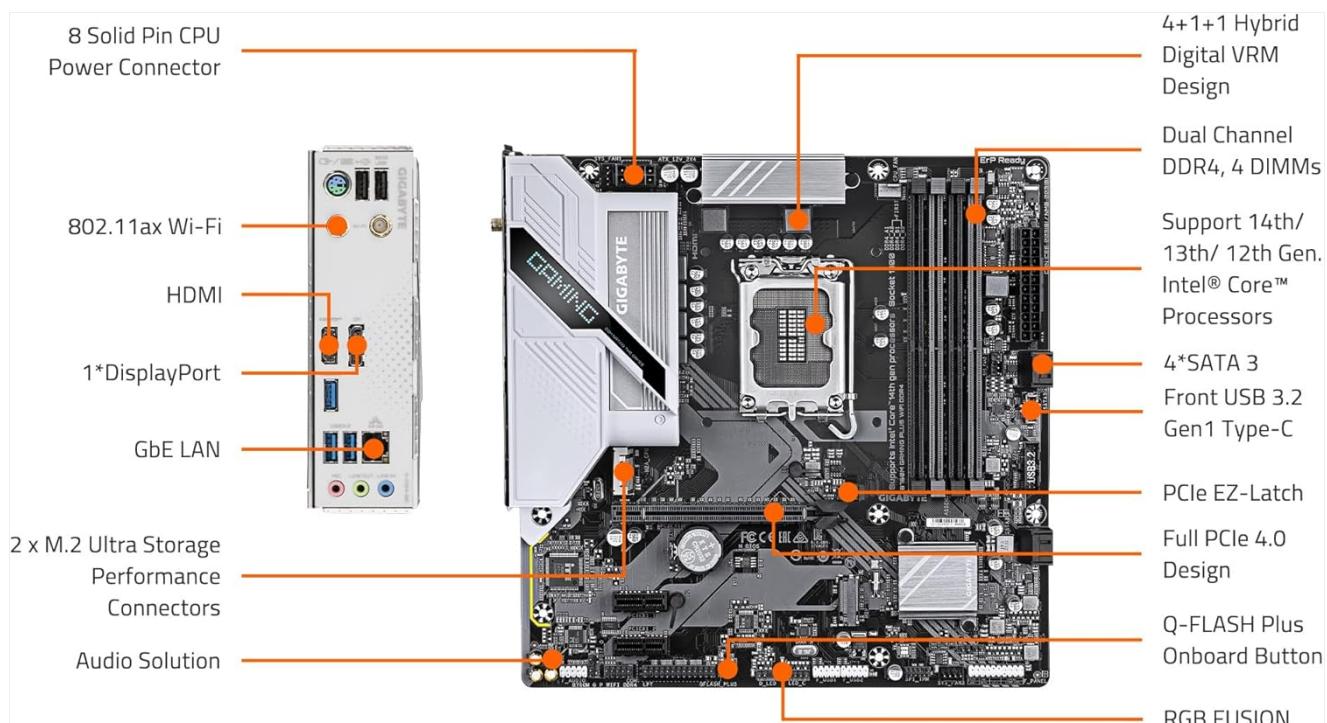


Image 3.2: Detailed diagram showing the location of various connectors and components on the motherboard.



4. OPERATING INSTRUCTIONS

4.1. Initial Boot and BIOS/UEFI Setup

1. After completing all physical installations, connect your monitor, keyboard, and mouse.
2. Power on your system.
3. Press the **DEL** key repeatedly during startup to enter the BIOS/UEFI setup utility.
4. In the BIOS, you can configure boot order, system time, enable/disable integrated peripherals, and adjust performance settings.
5. Save changes and exit the BIOS to continue booting into your operating system installation media.

4.2. Driver Installation

After installing your operating system, install the necessary drivers for optimal performance. Drivers can be found on the GIGABYTE support website for your specific motherboard model.

- Chipset Drivers
- LAN Drivers
- Wi-Fi/Bluetooth Drivers
- Audio Drivers
- SATA/NVMe Drivers

4.3. 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 updating the BIOS to support newer CPUs.

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 designated Q-Flash Plus USB port on the motherboard's rear I/O panel.
4. Ensure the 24-pin ATX power connector is connected to the motherboard.
5. Press the Q-Flash Plus button. The QFLED will flash, indicating the BIOS update process has started.
6. Wait for the QFLED to stop flashing, indicating the update is complete.

5. MAINTENANCE

5.1. BIOS Updates

Regularly check the GIGABYTE website for BIOS updates. Updates can improve system stability, add support for new hardware, and fix bugs. Always follow the instructions provided by GIGABYTE for BIOS updates.

5.2. Cleaning

To maintain optimal performance and longevity, periodically clean your motherboard and PC components.

- Power off and unplug your PC before cleaning.
- Use compressed air to remove dust from fans, heatsinks, and other components.
- Use a soft, lint-free cloth to gently wipe surfaces. Avoid using liquids directly on components.

6. TROUBLESHOOTING

6.1. Common Issues and Solutions

Issue	Possible Cause	Solution
No Power	Loose power cables, faulty power supply, incorrect front panel connection.	Check all power connections (24-pin ATX, 8-pin CPU). Verify power supply functionality. Ensure front panel power switch is correctly connected.
No Display	Incorrect display cable connection, faulty graphics card, RAM not seated correctly, incompatible CPU/BIOS.	Ensure display cable is connected to the graphics card (if present) or motherboard. Reseat RAM modules. Try a different display output. Update BIOS using Q-Flash Plus if CPU is new.
System Instability/Crashes	Overheating, faulty RAM, unstable overclock, outdated drivers.	Monitor temperatures. Test RAM with diagnostic tools. Reset BIOS to default settings. Update all drivers.
Network Connectivity Issues	Missing/outdated LAN/Wi-Fi drivers, faulty cable/antenna, incorrect network settings.	Install/update LAN and Wi-Fi drivers. Ensure Wi-Fi antennas are securely attached. Check network cable. Verify network settings in OS.

6.2. BIOS Error Codes (Beep Codes)

If your system fails to boot, the motherboard may emit a series of beeps (beep codes) to indicate a specific error. Refer to the GIGABYTE official website or the full motherboard manual for a comprehensive list of beep codes and their meanings.

- 1 Short Beep:** System Boot Success.
- Continuous Short Beeps:** Power Error.
- 1 Long, 2 Short Beeps:** Graphics Card Error.
- 1 Long, 3 Short Beeps:** Memory Error.

7. SPECIFICATIONS

Feature	Detail
CPU Socket	LGA 1700
Compatible Processors	Intel 14th, 13th, and 12th Gen Processors
Chipset	Intel B760
RAM Type	DDR4
Memory Slots	4 x DIMM, Dual Channel
Max Memory Capacity	64 GB
Memory Speed	Up to 3200 MHz (Native), up to 5333 MHz (OC with XMP)
PCIe Slots	PCIe 4.0 x16, PCIe 4.0 x1
M.2 Slots	2 x PCIe 4.0 x4 M.2
SATA Ports	4 x SATA 6Gb/s
USB Ports (Rear I/O)	USB 3.2 Gen 1 Type-A, USB 2.0/1.1, Front USB 3.2 Gen 1 Type-C
Networking	GbE LAN, Wi-Fi 6 (802.11ax), Bluetooth 5

Feature	Detail
Audio	High-Definition Audio Codec
Form Factor	Micro-ATX (11 x 11 x 3 inches)

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official GIGABYTE website. Technical support, driver downloads, and further documentation can be found on the GIGABYTE support page.

- **Official GIGABYTE Website:** www.gigabyte.com
- **Support Page:** Refer to the product support section on the GIGABYTE website for your specific model.

Related Documents - B760M GAMING PLUS WIFI DDR4

<p>B760M GAMING PLUS WIFI DDR4 (B760M G P WIFI DDR4) B760M D3HP WIFI6 B760M D3HP B760M D3HP DDR4</p> <p>使用手册 Ver. 001</p> 	<p>GIGABYTE B760M Motherboard Installation Guide and Specifications</p> <p>Comprehensive installation guide and technical specifications for GIGABYTE B760M series motherboards, including B760M GAMING PLUS WIFI DDR4, B760M D3HP WIFI6, B760M D3HP, and B760M D3HP DDR4. Covers CPU, memory, storage, expansion slots, I/O, BIOS, RAID, and regulatory information.</p>
<p>B760M GAMING X AX B760M GAMING X B760M GAMING X AX DDR4 (B760M G X AX) B760M GAMING X DDR4</p> <p>使用手册 Ver. 001</p> 	<p>GIGABYTE B760M GAMING X AX Motherboard Installation Guide</p> <p>Comprehensive installation and setup guide for GIGABYTE B760M GAMING X AX, B760M GAMING X, B760M GAMING X AX DDR4, and B760M GAMING X DDR4 motherboards. Covers component installation, BIOS configuration, and regulatory compliance.</p>
<p>B760M GAMING X AX B760M GAMING X B760M G X AX DDR4 (B760M GAMING X AX DDR4) B760M GAMING X DDR4</p> <p>User's Manual Ver. 001</p> 	<p>GIGABYTE B760M GAMING X AX DDR4 Motherboard User Manual - Installation, Specifications, and Setup Guide</p> <p>Comprehensive user manual for GIGABYTE B760M GAMING X AX, B760M GAMING X, B760M GAMING X AX DDR4, and B760M GAMING X DDR4 motherboards. Covers hardware installation, BIOS setup, operating system installation, product specifications, internal and back panel connectors, and regulatory information.</p>
<p>B760M GAMING PLUS WIFI DDR4 (B760M G P WIFI DDR4)</p> <p> 사용자 설명서 제작일: 2024-01-01</p> 	<p>GIGABYTE B760M GAMING PLUS WIFI DDR4 Motherboard Installation Guide</p> <p>This document provides a comprehensive installation and setup guide for the GIGABYTE B760M GAMING PLUS WIFI DDR4 motherboard, covering hardware installation, BIOS configuration, software setup, and regulatory compliance information.</p>

