GIGABYTE B760M GAMING DDR4

GIGABYTE B760M GAMING DDR4 Motherboard User Manual

Model: B760M GAMING DDR4

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your GIGABYTE B760M GAMING DDR4 Motherboard. Please read this manual thoroughly before you begin to ensure proper setup and to maximize the performance and longevity of your system.

Key Features

- **Intel Socket LGA 1700:** Supports 13th and 12th Gen Series Processors
- **Unparalleled Performance:** Hybrid 6+2+1 Phases Digital VRM Solution
- **Dual Channel DDR4:** 2*DIMMs XMP Memory Module Support
- **Next Generation Storage:** 2*PCIe 4.0 x4 M.2 Connectors
- **EZ-Latch:** PCIe 4.0x16 Slot with Quick Release Design
- **Fast Networks:** 2.5GbE LAN
- **Extended Connectivity:** Rear USB-C 5Gb/s, DisplayPort, HDMI, D-Sub
- **Smart Fan 6:** Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP
- **Q-Flash Plus:** Update BIOS Without Installing the CPU, Memory and Graphics Card

Product Overview

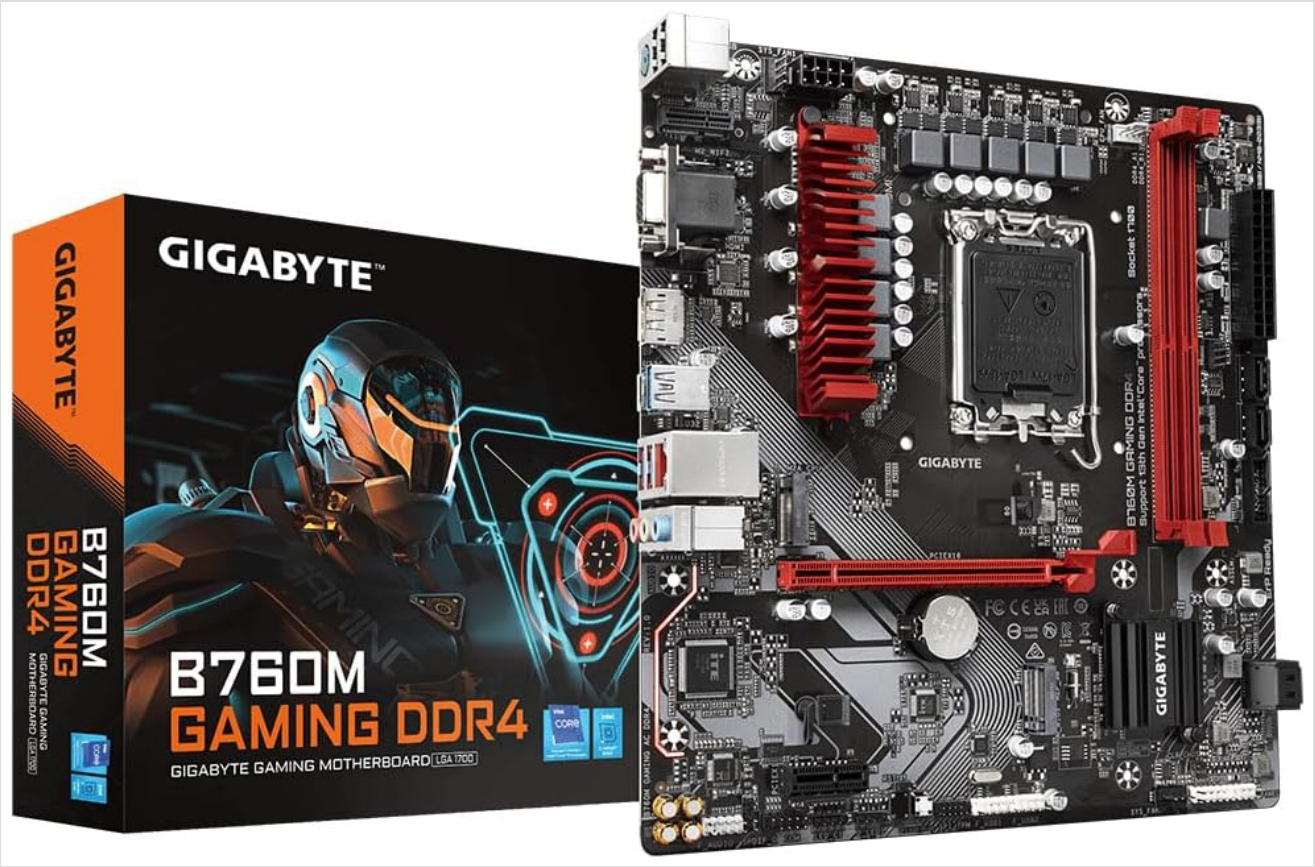


Image: The GIGABYTE B760M GAMING DDR4 Motherboard displayed alongside its retail packaging, highlighting the product's design and branding.

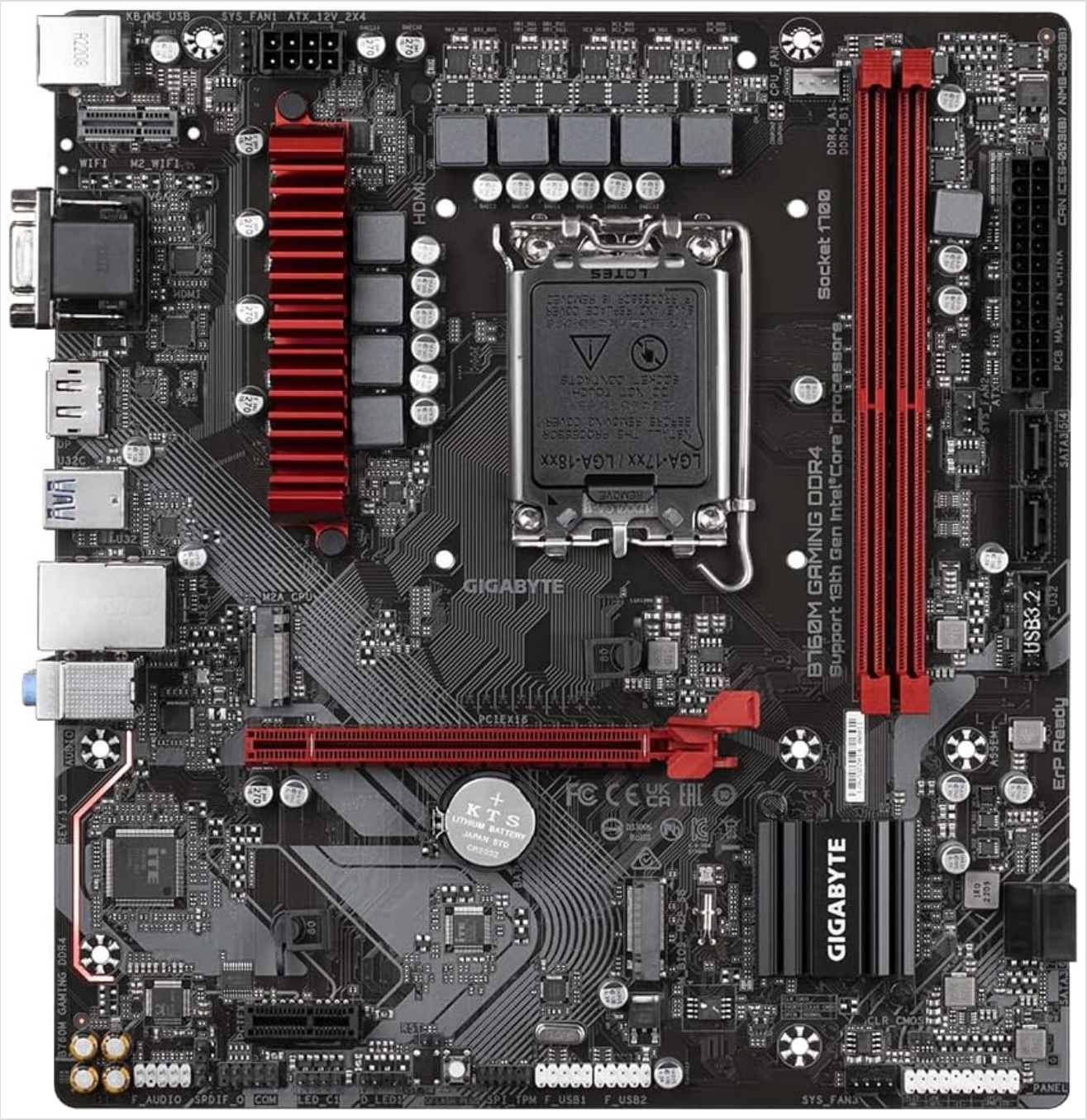


Image: A top-down view of the GIGABYTE B760M GAMING DDR4 Motherboard, showcasing the LGA 1700 CPU socket, DDR4 DIMM slots, PCIe slots, and various headers.



Image: A close-up view of the rear I/O panel, featuring USB ports, video outputs (VGA, HDMI, DisplayPort), LAN port, and audio jacks.

Setup and Installation

1. Preparing Your System

Before installing the motherboard, ensure your computer case is compatible and you have all necessary components, including a compatible CPU (Intel 12th/13th/14th Gen), DDR4 RAM, power supply, and storage devices. Always work in a static-free environment.

2. Motherboard Installation

1. **Mounting the CPU:** Carefully open the CPU socket lever, align the triangular mark on the CPU with the mark on the socket, and gently place the CPU into the socket. Close the lever to secure the CPU.
2. **Installing CPU Cooler:** Follow the cooler manufacturer's instructions to install the CPU cooler onto the motherboard.
3. **Installing Memory (RAM):** Open the clips on the DDR4 DIMM slots. Align the notch on the memory module with the key in the slot and press firmly until the clips lock into place. For dual-channel operation, refer to the motherboard's specific slot recommendations (typically slots A2 and B2).
4. **Mounting the Motherboard:** Install the I/O shield into your computer case. Align the motherboard with the standoffs in the case and secure it with screws.
5. **Connecting Power:** Connect the 24-pin ATX main power connector and the 8-pin (or 4+4-pin) CPU power connector from your power supply to the motherboard.
6. **Installing Storage Devices:** Connect SATA drives to the SATA ports. For M.2 SSDs, insert them into the M.2 slots and secure with the provided screw or EZ-Latch mechanism.
7. **Installing Expansion Cards:** Insert graphics cards or other PCIe expansion cards into the appropriate PCIe slots and secure them.
8. **Connecting Front Panel Headers:** Connect the case's front panel connectors (power button, reset button, USB, audio) to the corresponding headers on the motherboard. Refer to the motherboard diagram for exact locations.

Operating Your Motherboard

BIOS Setup

Upon first boot, you may need to enter the BIOS/UEFI setup to configure settings such as boot order, date/time, and enable features like XMP for memory. To enter BIOS, press the `DEL` key repeatedly during startup.

Driver Installation

After installing your operating system, install the latest drivers for the chipset, LAN, audio, and other components from the GIGABYTE official website to ensure optimal performance and stability.

Q-Flash Plus

The Q-Flash Plus feature allows you to update the BIOS without installing the CPU, memory, or graphics card. Download the latest BIOS file from the GIGABYTE website, rename it to GIGABYTE.bin, save it to a USB flash drive, and insert it into the designated Q-Flash Plus USB port. Press the Q-Flash Plus button to initiate the update.

Maintenance

Regular maintenance helps prolong the life of your motherboard and system. Keep the interior of your PC case clean from dust using compressed air. Ensure proper airflow by managing cables and checking fan functionality. Periodically check for BIOS and driver updates on the GIGABYTE website.

Troubleshooting

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected. Check power supply functionality.
- **No Display:** Verify that the graphics card is properly seated and connected to power (if applicable). Ensure the monitor cable is connected to the graphics card (or motherboard if using integrated graphics). Try reseating RAM modules.
- **System Instability/Crashes:** Check for overheating (CPU, GPU, Chipset). Ensure RAM is compatible and properly installed. Update BIOS and drivers. Run memory diagnostic tools.
- **Boot Issues:** Check boot order in BIOS. Ensure storage drives are detected. If using a new OS installation, verify bootable media.
- **Peripheral Not Detected:** Check USB/SATA cable connections. Install necessary drivers. Try a different port.

For more detailed troubleshooting, refer to the GIGABYTE support website or contact technical support.

Specifications

Feature	Detail
Brand	GIGABYTE
Model Name	B760M GAMING DDR4
CPU Socket	LGA 1700 (Supports Intel 13th & 12th Gen Processors)
RAM Memory Technology	DDR4
Memory Speed	Up to 5333 MHz (OC)
Chipset Type	Intel B760
PCIe Slots	PCIe 4.0 x16, other PCIe slots
M.2 Connectors	2x PCIe 4.0 x4 M.2
LAN	2.5GbE LAN
USB Connectivity	Rear USB-C 5Gb/s, USB 3.2 Gen1, etc.
Video Outputs	DisplayPort, HDMI, D-Sub
Dimensions (LxWxH)	8.86 x 9.61 x 1.38 inches
Item Weight	1.98 pounds

Warranty and Support

For warranty information and technical support, please visit the official GIGABYTE website. You can find drivers, BIOS updates, and further documentation there. Keep your proof of purchase for warranty claims.

GIGABYTE Official Website: www.gigabyte.com

© 2024 GIGABYTE. All rights reserved.