Manuals+ — User Manuals Simplified.

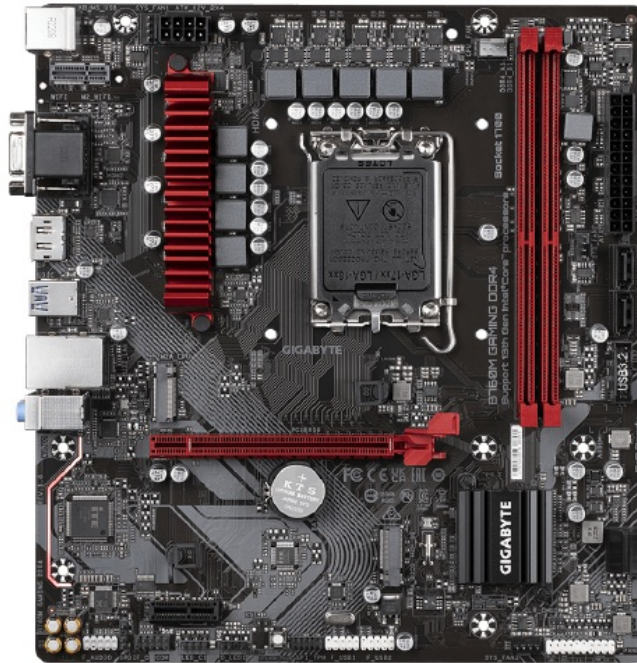# Gigabyte B760M GAMING DDR4 Motherboard User Guide

Contents

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The Gigabyte B760M GAMING DDR4 motherboard is a micro ATX motherboard that supports Intel B760 Express LGA 1700 processors. It has two DDR4-SDRAM memory slots and supports dual-channel DIMM memory with a maximum capacity of 64 GB. The motherboard has six storage drive slots that support HDD & SSD storage drive types and interfaces such as M.2, PCI Express 4.0, and SATA III. It also supports RAID levels 0, 1, 5, and 10.

Product Information

Processor and Memory

The motherboard supports Intel processors with LGA 1700 processor sockets and compatible processor series such as Gold. It has two DDR4-SDRAM memory slots that support ECC and Non-ECC memory types with supported clock speeds ranging from 2133 MHz to 5333 MHz. It also supports a maximum internal memory of 64 GB.

Storage

The motherboard has six storage drive slots that support HDD & SSD storage drive types and interfaces such as M.2, PCI Express 4.0, and SATA III. It also supports RAID levels 0, 1, 5, and 10.

Expansion Slots and Ports

The motherboard has two PCI Express x16 slots, three PCI Express x1 slots, and one ATX power connector (24-pin). It also has a variety of I/O ports including USB 2.0 and USB 3.2 Gen 1 (3.1 Gen 1) Type-A connectors, VGA (D-Sub) and HDMI ports, Ethernet LAN (RJ-45) ports, and front panel audio connectors.

Bundled Software and Accessories

The motherboard comes with Norton Internet Security software and includes SATA cables.

Usage Instructions

To use the Gigabyte B760M GAMING DDR4 motherboard, follow the steps below:

1. Choose a compatible Intel processor with an LGA 1700 socket and compatible processor series such as Gold.

2. Install the processor into the motherboard's processor socket.

3. Install DDR4-SDRAM memory into the motherboard's memory slots, making sure to use the correct memory channels and supported clock speeds.

4. Connect storage drives to the motherboard's storage drive slots using compatible storage drive types and interfaces such as M.2, PCI Express 4.0, and SATA III.
5. If desired, configure RAID levels using the motherboard's RAID support.
6. Install any necessary expansion cards into the motherboard's PCI Express x16 or x1 slots.
7. Connect peripherals to the motherboard's I/O ports, including USB 2.0 and USB 3.2 Gen 1 (3.1 Gen 1) Type-A connectors, VGA (D-Sub) and HDMI ports, Ethernet LAN (RJ-45) ports, and front panel audio connectors.
8. Power on the computer and follow the operating system instructions to complete setup and configuration.

Overview

- **Brand:** Gigabyte
- **Product code:** B760M GAMING DDR4
- **Product name:** B760M GAMING DDR4
- **Intel® Socket LGA 1700:** Support 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 4.0×16 Slot with Quick Release Design
- **Fast Networks:** 2.5GbE LAN
- **Extended Connectivity:** Rear USB-C® 5Gb/s, DP, 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 Micro ATX, LGA 1700 socket, Intel B760 Express chipset, 2x DDR4 DIMM, AMI UEFI BIOS

Specification

Processor

- Processor manufacturer Intel
- Processor socket LGA 1700
- Compatible processor series
    - Intel® Celeron®, Intel® Core™ i3,
    - Intel® Core™ i5, Intel® Core™ i7,
    - Intel® Core™ i9, Intel® Pentium® Gold
- Supported processor sockets LGA 1700

Memory

- Supported memory types * DDR4-SDRAM
- Number of memory slots * 2
- Memory slots type DIMM
- Memory channels Dual-channel
- ECC ✔
- Non-ECC ✔

- **Supported memory clock speeds**

  2133,2400,2666,2933,3000,3200,3300,3333,3400,3466,3600,3666,3733,3800,3866,4000,4133,4266,4300,4400,
  MHz
- Maximum internal memory * 64 GB
- Unbuffered memory

Storage controllers

- Supported storage drive types HDD & SSD
- Supported storage drive interfaces * M.2, PCI Express 4.0, SATA III
- Number of storage drives supported 6
- RAID support ✔
- RAID levels 0, 1, 5, 10

Graphics

- Parallel processing technology
- support * Not supported
- Maximum resolution 4096 x 2304 pixels
- HDCP ✔
- Number of displays supported 3

Internal I/O

- USB 2.0 connectors * 2
- USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1
- Number of SATA III connectors * 4
- S/PDIF out connector ✔
- Front panel audio connector ✔
- Front panel connector ✔
- ATX Power connector (24-pin) ✔

Rear panel I/O ports

- USB 2.0 ports quantity * 2
- USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 3
- USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * 1
- Ethernet LAN (RJ-45) ports * 1
- PS/2 ports quantity 1
- VGA (D-Sub) ports quantity * 1
- HDMI ports quantity * 1
- HDMI version 2.0
- DisplayPorts quantity 1

- DisplayPort version 1.2
- Headphone outputs 3
- Microphone in ✔
- USB connector type USB Type-A, USB Type-C

Network

- Ethernet LAN ✔
- Ethernet interface type 2.5 Gigabit Ethernet
- Wi-Fi * ✘

Features

- Motherboard chipset * Intel B760 Express
- Audio output channels * 7.1 channels
- PC health monitoring Fan, Temperature, Voltage, Water cooling
- Component for * PC
- Motherboard form factor * micro ATX
- Motherboard chipset family * Intel
- Windows operating systems supported Windows 10 x64, Windows 11 x64

Expansion slots

- PCI Express x1 slots 1
- PCI Express x16 slots 1

Internal I/O

- CPU fan connector ✔
- EPS power connector (8-pin) ✔
- TPM connector ✔
- Serial port headers 1
- 12V power connector ✔
- RGB LED pin header ✔

Expansion slots

- Number of M.2 (M) slots 2

BIOS

- BIOS type * UEFI AMI
- BIOS memory size 128 Mbit

- ACPI version 5.0
- Clear CMOS jumper ✔
- Desktop Management Interface (DMI) version 2.7
- System Management BIOS (SMBIOS) version 2.7

Weight & dimensions

- Width 244 mm
- Depth 225 mm

Packaging content

- Cables included SATA
- Bundled software Norton Internet Security
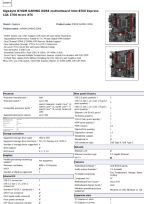
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