

MB-GB760MDS3HD5

Gigabyte B760M D2H DDR5 B760 Express Chipset Gen 12/13 LGA 1700 Micro ATX Motherboard

Product Overview

Gigabyte B760M DS3H DDR5: all-in-one LGA1700 alder lake mb - with 6 2 1 phase digital VRM, hybrid core optimization, Addressable LED Strip Support, on-board buttons (reset Q-flash), 2x copper PCBs design, SmartFan6 with 6x temperature sensors



Specifications

Features:

6 2 1 Phases Hybrid Digital VRM Design

- 6 2 1 Phases Low RDS(on) MOSFETs
- Premium Choke and Capacitors to improve transient response and minimize oscillation

PCIe 4.0 Design

GIGABYTE B760 Motherboards are ready to work with the PCIe 4.0 devices which are expected to experience triple bandwidth than the current PCIe 3.0 devices. To reach the high speed and maintain good signal integrity, GIGABYTE R&D uses the low impedance PCB to provide the maximum performance.

DDR5 Overclocking Up to 7600 and Beyond*

GIGABYTE is offering a tested and proven platform that has memory overclocking capability up to 7600 and beyond. For DDR5 XMP Memory, all users need to do to attain high memory performance boost is to ensure that their memory module is XMP capable and that the XMP function is activated and enabled on their GIGABYTE motherboard

Unlock DDR5 Voltage

- GIGABYTE exclusive circuit design unlocks Native DDR5 voltage control
- Transforms Native DDR5 memory module to Overclocked DDR5 memory
- Increases DDR5 memory overclocking performance and capability
- Supports all PMIC vendors for maximum compatibility

Programmable Mode

GIGABYTE's exclusive design unlocks Native DDR5 PMIC secure mode into programmable mode and control Native DDR5 voltage with wide range.

Shielded Memory Routing

All memory routing is under the PCB inner layer shielded by a large ground layer to protect from external interference.

Impedance Optimized Topology

By optimizing memory trace width, length and style from HPC simulation to actual implementation, overall impedance is lowered between CPU memory controller and memory modules to achieve higher DDR5 speed.

Low Signal Loss PCB

Server grade mid-loss or low-loss PCB material is chosen to lower signal loss inside PCB and maintain DDR5 high speed signal transmission.

DDR5 Auto Booster

Automatically Boost the Native DDR5 frequency to 5000MHz while the system is under heavy loading by a single click.

DDR5 Memory Upgrade

GIGABYTE BIOS offers pre-defined and retrievable profiles for users to get higher performance easily. The profiles are based on a database that is created by checking each memory IC and PMIC vendors to optimize the modules to unleash their full potential. This is a time saving feature to manually configure overclocked DDR5 memory kits.

- Instantly upgrade memory performance
- Overclock Native and XMP 3.0 DDR5 memory to higher frequency easily
- No need to input dozens of memory parameters such as clock, voltage and timings
- Built-in wide variety pre-tuned profiles database for different memory IC vendors

XMP 3.0 User Profile

Define and create your own SPD profile into Native and XMP 3.0 memory modules or apply the pre-tuned profiles to XMP 3.0 User Profile. Two user-defined profiles can be saved, loaded either locally or from/to an external storage device.

- Two empty SPD profiles can be defined by users and carry to next computer
- Transfer DDR5 XMP Booster profiles into XMP 3.0 User Profiles
- Quick memory performance simulation based on user input clock and timing parameters
- Profile save and load function to share your memory parameters online

Hybrid Cores Optimization

With new Intel Hybrid technology, GIGABYTE exclusively creates two new "CPU Upgrade" in BIOS profiles to meet different users' scenarios by adjusting P-Core and E-Core activation and voltage policy.

GIGABYTE Ultra-Efficient M.2 Thermal Guard

With durability in mind, GIGABYTE provides a thermal solution for M.2 SSD devices. The M.2 Thermal Guard prevents throttling and bottlenecks from high speed M.2 SSDs as it helps to dissipate heat before it becomes an issue.

SMART FAN 6

Smart Fan 6 contains several unique cooling features that ensure gaming PC maintain its performance while staying cool and quiet. Multiple fan headers can support PWM/DC fan and pump, and users can easily define each fan curve based on different temperature sensors across the board via intuitive user interface.

High Current Support

Each fan headers support PWM and DC fan and Water Cooling Pump , and up to 24W (12V x 2A) with Over-Current Protection

Precision Control

Multiple temperature/fan speed control points for precise fan curve

Dual Curve Mode

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Product Specification Sheet

Slope/Stair dual mode for different user scenario

Fan Stop

Fan can stop completely below users' specified temperature point

Improve fan curve UI

We increase control points from 5 to 7 and larger fan speed graph for precise and easier fan curve control.

Slope/Stair dual graph mode

Fan curve can be quickly switch with Slope and Stair modes for different user scenario. Slope is traditional and intuitive linear fan speed curve. With newly added Stair non-linear mode, fan keeps at same speed between specified temperature interval.

Manual Input

For advanced users, we provide fan speed manual input for more precise control.

EZ Tuning

Use can place 4 EZ Tuning points at rough temperature/fan speed, and Smart Fan 6 can quickly generate a fan curve.

Fan curve profile

Fan curve profile can be saved in BIOS ROM, profile will be kept after updating BIOS.

CONNECTIVITY

GIGABYTE Motherboards enable the ultimate connection experience with blazing data-transfer speeds through the next generation network and storage.

First adopter on 2.5GbE LAN onboard

- Adoption of 2.5G LAN provide up to 2.5 GbE network connectivity, with at least 2 times faster transfer speeds compared to general 1GbE networking, perfectly designed for gamers with ultimate online gaming experience.
- Support Multi-Gig(10/100/1000/2500Mbps) RJ-45 Ethernet

Connecting the Future - USB 3.2 Gen 2 Type-C®

The USB Type-C® is a new reversible connector that is loaded with useful features such as USB 3.2 Gen 2 support for 10Gb/s transfer speed. Powered by the Intel® USB 3.2 Gen 2 controller, this little port provides the best USB Type-C® experience possible.

High-End Audio Capacitors

GIGABYTE motherboards use high-end audio capacitors. These high quality capacitors help deliver high resolution and high fidelity audio to provide the most realistic sound effects for gamers.

Audio Noise Guard

GIGABYTE motherboards feature an audio noise guard that essentially separates the board's sensitive analog audio components from potential noise pollution at the PCB level.

PERSONALIZATION

GIGABYTE motherboards bundle several useful and intuitive software to help users to control every aspect of motherboard and provide customizable lighting effect with outstanding aesthetics to fit your unique personality.

RGB Fusion Multi-Zone Light Show Design

Now offering more LED customizations than ever, users can truly adapt their PC to represent their lifestyle. With full RGB support and a redesigned RGB Fusion 2.0 application, the user has complete control over the LEDs which surround the motherboard.

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Friendly User Interface

The EASY MODE shows important hardware information in one page including CPU clock, Memory, Storage, Fan.

My Favorites

Add constantly used items into the favorite menu for quick access.

Storage Information

Show all kinds of storage information including SATA, PCIE and M.2 interface.

Changelog

List all changes before saving and exiting bios. Quickly review overall settings modification.

Intuitive Load Line Curve

Clearly show each loadline calibration setting in an intuitive curve graph.

GIGABYTE Control Center

GIGABYTE CONTROL CENTER (GCC) is a unified software for all GIGABYTE supported products. It provides newly designed intuitive user interface to control all essential function.

- Unified software platform for all Gigabyte supported products
- Intuitive user interface for an eased experience
- Modularized control components only for installed hardware
- Auto update function to keep system up to date and support future products

PCIe EZ-Latch

Unlock the latch of the PCIe slot easily when remove the graphics card in the PCIe slot.

Update the BIOS easily without installing the CPU, memory and graphics card.

With GIGABYTE Q-Flash Plus, you don't need to install the CPU, memory and graphics card nor enter the BIOS menu to flash the BIOS. Just download and save a new BIOS file (rename to gigabyte.bin) on the USB flash drive, then press the dedicated Q-Flash Plus button and you're good to go!

Specifications:

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Specifications	
Product Code	MB-GB760MDS3HD5
CPU	1. LGA1700 socket: Support for the 13th and 12th Generation Intel Core, Pentium Gold and Celeron Processors
	2. L3 cache varies with CPU
Chipset	1. Intel B760 Express Chipset

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Memory	1. Support for DDR5 7600(O.C.) /7400(O.C.) /7200(O.C.) /7000(O.C.) /6800(O.C.) /6600(O.C.) / 6400(O.C.) / 6200(O.C.) / 6000(O.C.) / 5800(O.C.) / 5600(O.C.) / 5400(O.C.) / 5200(O.C.) / 4800 / 4000 MT/s memory modules
	2. 4 x DDR DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory
	3. Dual channel memory architecture
	4. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)
	5. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	6. Support for Extreme Memory Profile (XMP) memory modules
Onboard Graphics	Integrated Graphics Processor-Intel HD Graphics support:
	1. 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz km
	2. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.0 version and HDCP 2.3.
	3. 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz
	* Support for DisplayPort 1.2 version and HDCP 2.3
	4. 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz
	* Support for DisplayPort 1.2 version.
	(Graphics specifications may vary depending on CPU support.)
Audio	Support for up to quad-display at the same time
	1. Realtek Audio CODEC
	2. High Definition Audio
	3. 2/4/5.1/7.1-channel
	* You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings.
LAN	4. Support for S/PDIF Out
	1. Realtek 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)
Expansion Slots	CPU:
	1. 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16
	Chipset:
	1. 2 x PCI Express x1 slots, supporting PCIe 3.0 and running at x1
Storage Interface	CPU:
	1. 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2A_CPU)
	Chipset:
	1. 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2P_SB)
	2. 4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices

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USB	Chipset:
	1. 1 x USB Type-C port on the back panel, with USB 3.2 Gen 2 support
	2. 5 x USB 3.2 Gen 1 ports (3 ports on the back panel, 2 ports available through the internal USB header)
	3. 2 x USB 2.0/1.1 ports on the back panel
	Chipset 2 USB 2.0 Hubs:
	1. 4 x USB 2.0/1.1 ports available through the internal USB headers
Internal I/O Connectors	1. 1 x 24-pin ATX main power connector
	2. 1 x 8-pin ATX 12V power connector
	3. 1 x CPU fan header
	4. 3 x system fan headers
	5. 1 x addressable LED strip header
	6. 1 x RGB LED strip header
	7. 2 x M.2 Socket 3 connectors
	8. 4 x SATA 6Gb/s connectors
	9. 1 x front panel header
	10. 1 x front panel audio header
	11. 1 x USB 3.2 Gen 1 header
	12. 2 x USB 2.0/1.1 headers
	13. 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only)
	14. 1 x serial port header
	15. 1 x parallel port header
	16. 1 x S/PDIF Out header
	17. 1 x Q-Flash Plus button
	18. 1 x reset jumper
	19. 1 x Clear CMOS jumper
Back Panel Connectors	1. 2 x USB 2.0/1.1 ports
	2. 1 x PS/2 keyboard/mouse port
	3. 1 x D-Sub port
	4. 1 x HDMI port
	5. 2 x DisplayPorts
	6. 3 x USB 3.2 Gen 1 ports
	7. 1 x USB Type-C port, with USB 3.2 Gen 2 support
	8. 1 x RJ-45 port
	9. 3 x audio jacks
I/O Controller	1. iTE I/O Controller Chip

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H/W Monitoring	1. Voltage detection
	2. Temperature detection
	3. Fan speed detection
	4. Water cooling flow rate detection
	5. Fan fail warning
	6. Fan speed control
	* Whether the fan speed control function is supported will depend on the cooler you install.
BIOS	1. 1 x 128 Mbit flash
	2. Use of licensed AMI UEFI BIOS
	3. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
Unique Features	1. Support for GIGABYTE Control Center (GCC)
	* Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.
	2. Support for Q-Flash
	3. Support for Q-Flash Plus
Bundled Software	1. Norton Internet Security (OEM version)
	2. LAN bandwidth management software
Operating System	1. Support for Windows 11 64-bit
	2. Support for Windows 10 64-bit
Form Factor	1. Micro ATX Form Factor; 24.4cm x 24.4cm

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/MB-GB760MDS3HD5-Gigabyte-B760M-D2H-DDR5-B760-Express-Buy-p-276754.php>

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