

MB-GB450MDS3H

Gigabyte B450M DS3H AMD B450 Chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

Gigabyte B450M DS3H: AMD AM4 mb - with 4+3 phase digital VRM + RGB Fusion with addressable LED Strip Support, MoSFET heatsinks SmartFan5 with 5x temperature sensors + 2x hybrid fan headers, solid pin power connectors (ATX 24+8pin), with anti-sulfur resistors - AMD B450 chipset, 4x dual channel DDR4-3600(O.C)/2933 with XMP support up to 64Gb, 4x SATA6G + 1x Gen3x4 M.2/NGFF with raid 0/1//0+1/5/10, on-board display with HDMI+DVI dual outputs (depends on CPU) + Realtek ALC887 7.1 audio + Realtek 8118 gigabit lan; 1x pci-E(1x), 2x pci-e3.0 16x (16x+4x) for Quad-GPU CrossfireX (no SLi), with 4x USB3.0 + 4x USB2.0, support optional serial port add-on cable, bundled norton internet security - micro-atx



Specifications

Features:

GET READY FOR AMD RYZEN™ 3000-SERIES

GIGABYTE AM4 motherboards are ready to support the latest AMD Ryzen™ 3000 Processors and are backwards compatible with AMD Ryzen™ 2000 and 1000 Processors. With a rich list of features on GIGABYTE AM4 motherboards such as Ultra Durable™ Armor for PCIe/ memory slots, USB Type-C™ interfaces on select boards, refined audio quality, high speed Ethernet, and the latest standard WIFI design, GIGABYTE AM4 motherboards are perfect for users looking to build the best AMD platform systems.

AMD StoreMI technology

GIGABYTE 400-series motherboards maximize your PC's potential with AMD StoreMI technology. StoreMI accelerates traditional storage devices to reduce boot times and enhance the overall user experience. This easy-to-use utility combines the speed of SSDs with the high capacity of HDDs into a single drive, enhances the read/write speeds of the device to match that of SSDs, bolsters data performance for incredible value, and transforms the everyday PC to a performance driven system.

The benefits of AMD StoreMI:

- Making the PC experience fast, smooth and easy
- Optimizing computer responsiveness from system boot to application launch
- Offering SSD performance with HDD capacity at an affordable cost
- Quickly accessing key files by automatically learning users' computing behaviors

Fast Onboard Storage with NVMe PCIe Gen3 x4 110mm M.2 (Up to 32 Gb/s)

GIGABYTE M.2 solution offers considerably faster storage performance and support for both PCIe and SATA interfaces* for

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M.2 SSD devices.

Realtek GbE LAN with cFosSpeed Internet Accelerator Software

Realtek Gigabit LAN features cFosSpeed, a network traffic management application which helps to improve network latency and maintain low ping times to deliver better responsiveness in crowded LAN environments.

The Industry's Leading LAN Static-Electricity & Surge Protection

GIGABYTE motherboards use ICs with up to 3 times the ESD resistance levels compared to traditional ICs. This helps to better protect the motherboard and its components against potential damage caused by static electricity. GIGABYTE motherboards also feature special anti-surge ICs that protect your motherboard, and your PC from any surge in power delivery that may occur, helping to ensure that your PC is equipped to deal with any potentially irregular and inconsistent power delivery.

Smart Fan 5

With Smart Fan 5 users can ensure that their gaming PC can maintain its performance while staying cool. Smart Fan 5 allows users to interchange their fan headers to reflect different thermal sensors at different locations on the motherboard. Not only that, with Smart Fan 5 more hybrid fan headers that support both PWM and Voltage mode fans have been introduced to make the motherboard more liquid cooling friendly.

Fan stop

Achieve fan silence. With Fan Stop map any fan to stop completely when temperatures drop below a specified threshold. Which fan stops, based on readings from which sensor, and at what temperature-all of it can be customized to your liking.

Hybrid Fan Pin Headers

Assume complete control over your liquid cooling setup! Smart Fan 5 receives up-to-the-second information on flow-rate through the Hybrid Fan Pin Headers-giving you absolute mastery over your PC. All Hybrid Fan Headers can automatically detect the type of cooling device whether it be fan or pump with different PWM or Voltage mode.

New Smart Fan 5 Software

Choose from different modes, Quiet to Full Speed, to match your system usage scenario. For each fan or pump, you can use the intuitive fan curve to define trigger thresholds and corresponding fan speeds.

Interoperable Sensors and Fans

Each fan can be customized to operate at different speeds according to any defined temperature source input (except the CPU fan).

Fan Curve

Customize fan curves based on specific temperatures with the intuitive graphical UI.

System Information Viewer

GIGABYTE System Information Viewer is a central location that gives you access to your current system status. Monitor components such as the clocks and processor, set your preferred fan speed profile, create alerts when temperatures get too high or record your system's behavior; these are the possibilities of the System Information Viewer.

Supports RGB Light Strips in 7 Colors

Personalize your next PC rig to your liking by selecting the color of your choice to illuminate the external RGB light strip. A total of 7 colors are available to make your system appearance unique!

RGB Calibration

Different light strips sometimes have different RGB pin definitions, RGB Fusion software can relocate each pin location for the best compatibility.

Lighting Profile

Save, export and import profiles to quickly change effects based on your preference and to share with others.

GIGABYTE RGB Fusion APP

Don't just make your PC shine, make it a work of art that friends will envy. With the GIGABYTE RGB Fusion mobile app users can watch as they control the lighting within their gaming PC. This gives users ease of access as they try and adjust colors and speeds for different modes, all this can be achieved away from the keyboard and monitor of their PC.

High Quality Onboard Audio Design

Delivers high quality sound resolution and sound expansion to create the most realistic sound effects for professional gamers.

Solid Pin Power Connectors

GIGABYTE 400-series motherboards feature solid plated ATX 24pin & ATX 12V 8pin power connectors for offering stable power supply while CPU overloading.

START SULFURIZATION PROTECTION

Sulfur compounds in the air can penetrate tiny onboard resistors creating chemical change and causing these resistors to open or short. If either of these occurs the motherboard will fail to function. By equipping resistors with an Anti-Sulfur Design GIGABYTE gives Ultra Durable Motherboards a whole new meaning.

Humidity Protection Glass Fabric PCB

There is nothing more harmful to the longevity of your PC than moisture, and most parts of the world experience moisture in the air as humidity at some point during the year. GIGABYTE motherboards have been designed to make sure that humidity is never an issue, incorporating a new Glass Fabric PCB technology that repels moisture caused by humid and damp conditions. Glass Fabric PCB technology uses a new PCB material which reduces the amount of space between the fiber weave, making it much more difficult for moisture to penetrate compared to traditional motherboard PCBs. This offers much better protection from short circuit and system malfunction caused by humid and damp conditions.

High Temperature Protection Lower RDS(on) MOSFETs Design

GIGABYTE motherboards use Low RDS(on) MOSFETs which reduce energy wastage through unnecessary residual heat dissipation. This all amounts to tangible energy savings which are beneficial for both end-users and the environment without impacting system performance.

Refreshed BIOS

The BIOS is essential for users during initial setup to allow for the most optimal settings. With a new GUI and easier to use functionalities, GIGABYTE has been able to reinvent the BIOS to give users a better experience while setting up their new system.

GIGABYTE APP Center

The GIGABYTE APP Center gives you easy access to a wealth of GIGABYTE apps that help you get the most from your GIGABYTE motherboard. Using a simple, unified user interface, GIGABYTE APP Center allows you to easily launch all GIGABYTE apps installed on your system, check related updates online, and download the latest apps, drivers, and BIOS.

3D OSD

3D OSD automatically detects and displays your system information during games, allowing you to easily get a hold of your system information without switching between screens.

XSplitt Gamecaster + Broadcaster: Cast Your Game Anytime, Anywhere

Now set up your stage and share the greatest gaming moments with XSplitt Gamecaster + Broadcaster! Fully optimized social media integration is ready for real-time chats-keeping you notified yet focused in the game. It takes just one click to stream your gameplay to Twitch. Host your game like a pro!

CEC 2019 Ready

CEC Requirement : PC power consumption must be under a certain level when it's in off mode, idle mode, stand-by mode. With high power efficiency hardware components and fine tuned BIOS, GIGABYTE motherboards can achieve lower power consumption under idle mode and fully comply with new CEC 2019 (California Energy Commission) power consumption requirement.

4K Ultra HD Support

4K resolution is the next technological milestone in high-definition content delivery, utilizing approximately 4,000 pixels on the horizontal axis, more than four times today's standard HD pixel density. GIGABYTE motherboards provide native 4K support with integrated AMD Radeon® Graphics via HDMI.

HDMI™ - The Next Generation Multimedia Interface

HDMI™ is a High-Definition Multimedia Interface which provides up to 5Gb/s video transmitting bandwidth and 8-channel high quality audio all through a single cable. Able to transmit superior, uncompressed digital video and audio, HDMI™ ensures the crispest rendering of digital content up to 1080p without the quality losses associated with analog interfaces and their digital-to-analog conversion. In addition, HDMI™ is compatible with HDCP (High-bandwidth Digital Content Protection), allowing the playback of Blu-ray/HD DVD and other protected media content.

Specifications:

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Specifications

Product Code	MB-GB450MDS3H
CPU	1. AM4 Socket: Support for AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics/ Ryzen 1st Generation Processors
Chipset	1. AMD B450
Memory	1. 4 x DDR4 DIMM sockets supporting up to 64 GB of system memory
	2. Dual channel memory architecture
	3. Support for DDR4 3600(O.C.) / 3466(O.C.) / 3200(O.C.) / 2933 / 2667 / 2400 / 2133 MHz memory modules
	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:
	1. 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz
	* The DVI-D port does not support D-Sub connection by adapter.
	2. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.0 version and HDCP 2.2.
	Maximum shared memory of 2 GB
	(Note) Actual support may vary by CPU.

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Audio	1. Realtek ALC887 codec
	2. High Definition Audio
	3. 2/4/5.1/7.1-channel
	* To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.
	4. Support for S/PDIF Out
LAN	1. Realtek GbE LAN chip (10/100/1000 Mbit)
Expansion Slots	1. 1 x PCI Express x16 slot, running at x16 (PCIEX16)
	* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	(The PCIEX16 slot conforms to PCI Express 3.0 standard.)
	2. 1 x PCI Express x16 slot, running at x4 (PCIEX4)
	3. 1 x PCI Express x1 slot
	(The PCIEX4 and PCI Express x1 slots conform to PCI Express 2.0 standard.)
	(Note) Actual support may vary by CPU.
Multi-Graphics Technology	1. Support for AMD Quad-GPU CrossFire and 2-Way AMD CrossFire technologies
Storage Interface	1. 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 3.0 x4/x2 SSD support)
	* Supports only M.2 SATA SSDs when using an AMD Athlon 200-series/ 7th Generation A-series or Athlon APU.
	2. 4 x SATA 6Gb/s connectors
	3. Support for RAID 0, RAID 1, and RAID 10
	* Refer to "1-7 Internal Connectors, " for the installation notices for the M.2 and SATA connectors.
USB	Chipset:
	1. 2 x USB 3.1 Gen 1 ports available through the internal USB header
	2. 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers)
	CPU:
	1. 4 x USB 3.1 Gen 1 ports on the back panel

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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. 1 x system fan header
	5. 1 x M.2 Socket 3 connector
	6. 4 x SATA 6Gb/s connectors
	7. 1 x front panel header
	8. 1 x front panel audio header
	9. 1 x S/PDIF Out header
	10. 1 x CPU cooler LED strip/RGB LED strip header
	11. 1 x USB 3.1 Gen 1 header
	12. 2 x USB 2.0/1.1 headers
	13. 1 x Trusted Platform Module (TPM) header (2x10 pin, for the GC-TPM2.0 module only)
	14. 1 x serial port header
	15. 1 x Clear CMOS jumper
Back Panel Connectors	1. 1 x PS/2 keyboard/mouse port
	2. 1 x DVI-D port
	3. 1 x HDMI port
	4. 4 x USB 3.1 Gen 1 ports
	5. 4 x USB 2.0/1.1 ports
	6. 1 x RJ-45 port
	7. 3 x audio jacks
I/O Controller	1. iTE I/O Controller Chip
H/W Monitoring	1. Voltage detection
	2. Temperature detection
	3. Fan speed detection
	4. Overheating warning
	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

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Unique Features	1. Support for APP Center
	* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.
	@BIOS
	3D OSD
	AutoGreen
	Cloud Station
	EasyTune
	Fast Boot
	Game Boost
	ON/OFF Charge
	RGB Fusion
	Smart Backup
	Smart Keyboard
	Smart TimeLock
	Smart HUD
	Smart Survey
	System Information Viewer
	USB Blocker
	V-Tuner
	2. Support for Q-Flash
	3. Support for Xpress Install
Bundled Software	1. Norton Internet Security (OEM version)
	2. cFosSpeed
Operating System	1. Support for Windows 10 64-bit
	2. Support for Windows 7 64-bit
	* To support Windows 7 64-bit, you must install an AMD Pinnacle Ridge & Summit Ridge CPU.
	* Please download the "Windows USB Installation Tool" from GIGABYTE's website and install it before installing Windows 7.
Form Factor	1. Micro ATX Form Factor; 24.4cm x 21.5cm

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-GB450MDS3H-Gigabyte-B450M-DS3H-AMD-B450-Chipset-Buy-p-230985.php>

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