ComX Computers
Product Specification Sheet

MB-GB450MH

Gigabyte B450M H AMD B450 Chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

Gigabyte B450M H: 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, 2x 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+D-SUB dual outputs (depends on CPU) + Realtek ALC887 7.1 audio + Realtek 8118 gigabit LAN; 2x pci-E(1x), 1x pci-e3.0 16x, with 4x USB3.0 + 4x USB2.0, 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 80mm 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

M.2 SSD devices.

High Speed Gigabit LAN with Automatic Bandwidth Allocation
Realtek 8118 LAN is a high performance and friendly network chip for gaming players with automatic bandwidth allocation to ensure the highest network priority of the game or application. It can provide users the most comprehensive features and the fastest and smoothest Internet experience.

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 and water-temperature through the Hybrid Fan Pin Headers or external thermistor sensors-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 preferences. For each fan or pump, you can use the intuitive fan curve to define trigger thresholds and corresponding fan speeds.

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!

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.

The Industry's Leading 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.

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.

BIOS

- New User Interface - All new 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.

APP CENTER
GIGABYTE APP CENTER is an useful portal of all GIGABYTE MB utilities and drivers, you can choose any utility you want to install from APP CENTER and keep you updated with latest utilities and drivers version.

EasyTune™
GIGABYTE's EasyTune™ is a simple and easy-to-use interface that allows users to fine-tune their system settings or adjust system and memory clocks and voltages in a Windows environment. With Smart Quick Boost, one click is all it takes to automatically overclock your system, giving an added performance boost when you need it the most.

@BIOS
The GIGABYTE @BIOS app allows you to update your system's BIOS from within Windows using a simple and slick graphical user interface. @BIOS can automatically download the latest version from the GIGABYTE servers or you can update your BIOS from a file on your computer. @BIOS also allows you to save your current BIOS to a file, recover your previous BIOS from an image and backup your BIOS to an image.

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.

XSplit Gamecaster + Broadcaster: Cast Your Game Anytime, Anywhere
Now set up your stage and share the greatest gaming moments with XSplit 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!

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:

CPU	1. AMD Socket AM4, support for: 3rd Generation AMD Ryzen processors/ 2nd Generation AMD Ryzen processors/ 1st Generation AMD Ryzen processors/ 2nd Generation AMD Ryzen with Radeon Vega Graphics processors/ 1st Generation AMD Ryzen with Radeon Vega Graphics processors/ AMD Ryzen with Radeon Vega Graphics processors
Chipset	1. AMD B450
Memory	1. 2 x DDR4 DIMM sockets supporting up to 32 GB of system memory
	2. Dual channel memory architecture
	3. Support for DDR4 3600(O.C.) / 3466(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 D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz
	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 16 GB
	(Note) Actual support may vary by CPU.
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
	(The PCIEX16 slot conforms to PCI Express 3.0 standard.)
	2. 2 x PCI Express x1 slots
	(The PCI Express x1 slot conforms to PCI Express 2.0 standard.)

Storage Interface	1. 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe x4/x2* SSD support)
	* Actual support may vary by CPU.
	* Supports only M.2 SATA SSDs when using an AMD Athlon -series/ 7th Gen. A-series or Athlon X4 APU.
	2. 4 x SATA 6Gb/s connectors
	3. Support for RAID 0, RAID 1, and RAID 10
USB	Chipset:
	1. 2 x USB 3.1 Gen 1 ports available through the internal USB header
	2. 6 x USB 2.0/1.1 ports (2 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
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 (2x6 pin, for the GC-TPM2.0_S module only)
	14. 1 x speaker header
	15. 1 x Clear CMOS jumper
	16. 1 x chassis intrusion header
Back Panel Connectors	1. 1 x PS/2 keyboard port
	2. 1 x PS/2 mouse port
	3. 1 x D-Sub port
	4. 1 x HDMI port
	5. 4 x USB 3.1 Gen 1 ports
	6. 2 x USB 2.0/1.1 ports
	7. 1 x RJ-45 port
	8. 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
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.
	AutoGreen
	Cloud Station
	EasyTune
	Fast Boot
	Game Boost
	ON/OFF Charge
	RGB Fusion
	Smart Backup
	Smart Keyboard
	Smart Survey
	System Information Viewer
	USB Blocker
	2. Support for Q-Flash
	3. Support for Xpress Install
Bundled Software	1. Norton Internet Security (OEM version)
	2. Realtek 8118 Gaming LAN Bandwidth Control Utility
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 20.5cm

Remark	1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.
	2. Most hardware/software vendors may no longer offer drivers to support Win9X/ME/2000/XP. If drivers are available from the vendors, we will update them on the GIGABYTE website.

Product Information Online

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

Product page:
https://www.comx-computers.co.za/MB-GB450MH-Gigabyte-B450M-H-AMD-B450-Chipset-AMD-Ryzen-AM4-Socket-Motherboard-p-242925.php

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