ComX Computers
Product Specification Sheet

MB-GB450MS2H

Gigabyte B450M S2H AMD B450 Chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

Gigabyte B450M S2H: 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 32Gb, 4x SATA6G + 1x Gen3x4 M.2/NGFF with raid 0/1//0+1/5/10, on-board display with HDMi+DVi+D-sub triple 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 + 2x 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.

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 softwear can relocate each pin location for the best compatibility.

Lighting Profile
Save, export and import profiles to quickly change effects based on you perference 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.

Make Good Connection and Significantly Lower the Wires Capacity
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.

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:

© 2019 Respective owners and brand holders. This table has been carefully researched and generated by ComXpert International CC (http://www.comx.co.za), however, errors and omissions may occur. Only references to South Africa apply. All products are sourced in South Africa from the official suppliers and the warranty is that of the local supplier. E&OE. This table and our site's content may be used on condition that this notice and link remains intact and unaltered.

Specifications	
Product Code	MB-GB450MS2H
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. 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
	(Please refer "Memory Support List" for more information.)
Onboard Graphics	Integrated Graphics Processor:
	1. 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz
	2. 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.
	3. 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.

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)
	* 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
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 DVI-D port
	5. 1 x HDMI port
	6. 4 x USB 3.1 Gen 1 ports
	7. 2 x USB 2.0/1.1 ports
	8. 1 x RJ-45 port
	9. 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.
	@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
	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

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-GB450MS2H-Gigabyte-B450M-S2H-AMD-B450-Chipset-AMD-Ryzen-AM4-Socket-Motherboard-p-230971.php

Images and specifications are provided for reference and are subject to change without notice. E&OE.

Terms of Use: https://www.comx-computers.co.za/terms-of-use.php
Terms of Sale: https://www.comx-computers.co.za/terms-of-sale.php

PDF generated: 2026-11-13 14:46:12.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.