ComX Computers
Product Specification Sheet

MB-GA320MS2H

Gigabyte A320M S2H AMD A320 chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

Gigabyte A320M S2H: AMD AM4 mb - SmartFan5 with 5x temperature sensors + 2x hybrid fan headers, solid pin power connectors (ATX 24+8pin), with anti-sulfur resistors - AMD A320 chipset, 2x dual channel DDR4-3200(O.C)/2666 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 + XSplit Gamecaster + Broadcaster - 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.

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 M.2 SSD devices.

High Definition Digital Outputs
Enjoy true HD display capability using the most commonly integrated digital output technologies on today's HD displays and TVs.

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.

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.

All Hybrid Fan Pin Headers
All Hybrid Fan Headers can automatically detect the type of cooling device whether it be fan or pump with different PWM or Voltage mode.
Supports up to 2 amps with built-in overcurrent protection-a must for high-end high current fans.

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.

Enhanced BIOS Interface
The enhanced BIOS interface also has the advanced features seen in the Smart Fan 5 UI, such as: the ability to set triggers based on different temperature sensors on the board, fan curve definition and the temperature interval setting, which can prevent fan rotation noise caused by sudden temperature change-all without having to load Windows.

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.

Anti-Sulfur Resistor Design
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.

High Quality Onboard Audio Design
Delivers high quality sound resolution and sound expansion to create the most realistic sound effects for professional gamers.

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 Easy, Smart, and Friendly
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.

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.

Overclocking to Boost Your Frame Rates
Get the highest levels of performance from your PC with easy-to-use GIGABYTE overclocking features.

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.

@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.

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!

TriDef® SmartCam/ Custom Stream Modding
To facilitate being the full streaming solution each GIGABYTE motherboard includes TriDef® SmartCam software, you are now able to remove backgrounds without the hassle of using a green screen. Through the SmartCam application you can now apply live filters, and fully control your background, not only while streaming, but also through other video applications such as Skype.

Specifications:

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Specifications

Product Code	MB-GA320MS2H
CPU	1. AM4 Socket: Support for AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics/ Ryzen 1st Generation/ 7th Generation A-series/ Athlon X4 Processors
Chipset	1. AMD A320
Memory	1. 2 x DDR4 DIMM sockets supporting up to 32 GB of system memory
	2. Dual channel memory architecture
	3. Support for DDR4 3200(O.C.)/2933(O.C.)/2667*/2400/2133 MHz memory modules
	* Actual support may vary by CPU.
	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 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@24 Hz
	* Support for HDMI 1.4 version.
	Maximum shared memory of 2 GB
	* 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 (PCIEX16)
	* Actual support may vary by CPU.
	(The PCIEX16 slot conforms to PCI Express 3.0 standard.)
	2. 2 x PCI Express x1 slots
	(The PCI Express x1 slots conform to PCI Express 2.0 standard.)

Storage Interface	1. 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe x4/x2* SSD support)
	* Actual support may vary by CPU.
	* 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 connector.
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 USB 3.1 Gen 1 header
	11. 2 x USB 2.0/1.1 headers
	12. 1 x Trusted Platform Module (TPM) header (2x10 pin, for the GC-TPM2.0 module only)
	13. 1 x speaker header
	14. 1 x Clear CMOS jumper
	15. 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 (Line In, Line Out, Mic In)

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
	BIOS Setup
	Cloud Station
	Color Temperature
	EasyTune
	Fast Boot
	Game Boost
	ON/OFF Charge
	Smart Backup
	Smart Keyboard
	Smart TimeLock
	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 and Bristol 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 19.5cm

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-GA320MS2H-Gigabyte-A320M-S2H-AMD-A320-chipset-AMD-Ryzen-AM4-Socket-Motherboard-p-230975.php

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