

Gigabyte B550M DS3H

Artikel	116745
Herstellernummer	GA-B550M-DS3H
EAN	4719331809416
Gigabyte	



PERFORMANCE

GIGABYTE UD series motherboards use a 5+3 phases pure digital PWM + Low RDS(on) MOSFETs design to support the 3rd Gen AMD Ryzen CPUs by offering incredible precision in delivering power to the motherboard's most power-hungry and energy-sensitive components as well as delivering enhanced system performance and ultimate hardware scalability.

Benefits of Low RDS(on) MOSFETs

- Optimized gate charge to minimize switching losses.
- Lower temperature, smaller size, better thermal characteristics.

CONNECTIVITY

Dual NVMe PCIe 4.0*/3.0 M.2 Connectors

With NVMe PCIe 4.0/3.0 x4 and PCIe 3.0 x2 M.2 connectors onboard, GIGABYTE Motherboards bring users to experience NVMe mode or SATA mode connectivity for M.2 SSD devices. Delivering up to 64 Gb/s data transfer speed, the dual M.2 connectors design provides an ideal storage solution while also supporting in RAID modes.

Exclusive Realtek 8118 Gaming LAN

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.

HDMI 2.1 for 4K / 60P / 21:9 / HDCP 2.3 Support

HDMI 2.1, which is backwards compatible with HDMI 2.0/ 1.4 and offering 48 Gb/s of bandwidth – twice times more than previous generation. This unlocks the potential for users to transfer multiple video streams, as well as a native cinematic 21:9 ratio (which most movies are shot in), Full HDR and HDCP 2.3 support, to offer the best visual experience for viewers.

COOLING

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.

Intelligent Fan Control Design

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.

LIGHTING

RGB FUSION 2.0

With B550 Motherboards, RGB Fusion 2.0 is even better with Addressable LEDs. RGB Fusion 2.0 offers users the option to control onboard RGB and external RGB / Addressable LED light strips for their PC build. Already feature filled with colors and patterns, RGB Fusion 2.0 are now upgraded to improve the Addressable LED support. With external Addressable LED strips, where each LED is digitally addressable that users can experience even more patterns, styles, and illuminations.

With B550 Motherboards support the external 5V Addressable LED lighting strips and up to 300 LED lights. RGB Fusion 2.0 with Addressable LEDs comes with new patterns and various speed settings with more to come.

With an integrated intuitive user interface, the RGB Fusion 2.0 provides you a better solution for customizing the lighting effects across all supported devices. From motherboards, graphics cards to the peripheral products, you can personalize your gaming rig with your own style and show off your build by sharing the profiles. In addition, the new gaming mode makes the lighting effects interactive with selected games to bring you the most immersive gaming experience.

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.

AUDIO

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.

ULTRA DURABLE

Q-Flash Plus

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!

Solid Pin Power Connectors

B550 motherboards feature solid plated ATX 12V 8pin power connectors for offering stable power supply while CPU overloading.

Solid Pin Power connector advantages

- Larger contact area for electricity
- More metal quantity to sustain higher power and generated heat
- Ultra durable and longer lifespan

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.

GIGABYTE EXCELLENCE

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.

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!

Zusammenfassung

PERFORMANCE

GIGABYTE UD series motherboards use a 5+3 phases pure digital PWM + Low RDS(on) MOSFETs design to support the 3rd Gen AMD Ryzen CPUs by offering incredible precision in delivering power to the motherboard's most power-hungry and energy-sensitive components as well as delivering enhanced system performance and ultimate hardware scalability.

Benefits of Low RDS(on) MOSFETs

- Optimized gate charge to minimize switching losses.
- Lower temperature, smaller size, better thermal characteristics.

CONNECTIVITY

Dual NVMe PCIe 4.0*/3.0 M.2 Connectors

With NVMe PCIe 4.0/3.0 x4 and PCIe 3.0 x2 M.2 connectors onboard, GIGABYTE Motherboards bring users to experience NVMe mode or SATA mode connectivity for M.2 SSD devices. Delivering up to 64 Gb/s data transfer speed, the dual M.2 connectors design provides an ideal storage solution while also supporting in RAID modes.

Exclusive Realtek 8118 Gaming LAN

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.

HDMI 2.1 for 4K / 60P / 21:9 / HDCP 2.3 Support

HDMI 2.1, which is backwards compatible with HDMI 2.0/ 1.4 and offering 48 Gb/s of bandwidth – twice times more than previous generation. This unlocks the potential for users to transfer multiple video streams, as well as a native cinematic 21:9 ratio (which most movies are shot in), Full HDR and HDCP 2.3 support, to offer the best visual experience for viewers.

COOLING

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.

Intelligent Fan Control Design

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.

LIGHTING

RGB FUSION 2.0

With B550 Motherboards, RGB Fusion 2.0 is even better with Addressable LEDs. RGB Fusion 2.0 offers users the option to control onboard RGB and external RGB / Addressable LED light strips for their PC build. Already feature filled with colors and patterns, RGB Fusion 2.0 are now upgraded to improve the Addressable LED support. With external Addressable LED strips, where each LED is digitally addressable that users can experience even more patterns, styles, and illuminations.

With B550 Motherboards support the external 5V Addressable LED lighting strips and up to 300 LED lights. RGB Fusion 2.0 with Addressable LEDs comes with new patterns and various speed settings with more to come.

With an integrated intuitive user interface, the RGB Fusion 2.0 provides you a better solution for customizing the lighting effects across all supported devices. From motherboards, graphics cards to the peripheral products, you can personalize your gaming rig with your own style and show off your build by sharing the profiles. In addition, the new gaming mode makes the lighting effects interactive with selected games to bring you the most immersive gaming experience.

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.

AUDIO

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.

ULTRA DURABLE

Q-Flash Plus

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!

Solid Pin Power Connectors

B550 motherboards feature solid plated ATX 12V 8pin power connectors for offering stable power supply while CPU overloading.

Solid Pin Power connector advantages

- Larger contact area for electricity
- More metal quantity to sustain higher power and generated heat
- Ultra durable and longer lifespan

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.

GIGABYTE EXCELLENCE

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.

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!

Gigabyte B550M DS3H, AMD, Socket AM4, 3rd Generation AMD Ryzen™ 3, 3rd Generation AMD Ryzen 5, 3rd Generation AMD Ryzen™ 7, 3rd..., DDR4-SDRAM, 128 GB, DIMM

Gigabyte B550M DS3H. Processor manufacturer: AMD, Processor socket: Socket AM4, Compatible processor series: 3rd Generation AMD Ryzen™ 3, 3rd Generation AMD Ryzen 5, 3rd Generation AMD Ryzen™ 7, 3rd.... Supported memory types: DDR4-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Maximum graphics card memory: 16000 MB, Maximum resolution: 4096 x 2160 pixels. Ethernet interface type: Gigabit Ethernet

Merkmale

		Weight & dimensions	
Logistics data		Width	244 mm
Harmonized System (HS) code		Depth	244 mm
84733020		Height	65 mm
Other features		Processor	
Weight		Processor manufacturer	AMD
630 g		Processor socket	Socket AM4
Expansion slots		Compatible processor series	3rd Generation AMD Ryzen™ 3, 3rd Generation AMD Ryzen 5, 3rd Generation AMD Ryzen™ 7, 3rd Generation AMD Ryzen™ 9
PCI Express x1 (Gen 3.x) slots	1	Maximum number of SMP processors	1
PCI Express x16 slots	2		

Number of M.2 (M) slots	2
-------------------------	---

Graphics

Maximum graphics card memory	16000 MB
Maximum resolution	4096 x 2160 pixels
HDCP	Y

Network

Ethernet LAN	Y
Ethernet interface type	Gigabit Ethernet
Wi-Fi	N

Packaging content

Cables included	SATA
Drivers included	Y
Bundled software	Norton Internet Security (OEM) Realtek 8118 Gaming LAN Bandwidth Control Utility

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces	SATA III
RAID levels	0, 1, 10

BIOS

BIOS type	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	Y
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Rear panel I/O ports

USB 2.0 ports quantity	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-4 A ports quantity	
Ethernet LAN (RJ-45) ports	1
PS/2 ports quantity	1
HDMI ports quantity	1
HDMI version	2.1
DVI-D ports quantity	1

Features

Motherboard chipset	AMD B550
Audio chip	Realtek ALC887
Audio output channels	7.1 channels
PC health monitoring	Fan, Temperature, Voltage
Component for	PC
Motherboard form factor	micro ATX
Motherboard chipset family	AMD
Windows operating systems supported	Windows 10 x64

Memory

Supported memory types	DDR4-SDRAM
Number of memory slots	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC	Y
Non-ECC	Y
Supported memory clock speeds	2133,2400,2667,2933,3200,3333,3600,4000,4400,4600,4733 MHz
Maximum internal memory	128 GB
Unbuffered memory	Y

Internal I/O

USB 2.0 connectors	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors	1
Number of SATA III connectors	4
Front panel audio connector	Y
Front panel connector	Y
ATX Power connector (24-pin)	Y
CPU fan connector	Y
Number of chassis fan connectors	2
TPM connector	Y
Serial port headers	1

12V power connector	Y
RGB LED pin header	Y

Preisänderungen und Irrtümer vorbehalten. Alle Produkte solange der Vorrat reicht.