ComX Computers
Product Specification Sheet

MB-GX570SAE+W

Gigabyte X570S Aorus Elite AMD X570 Chipset AMD Ryzen AM4 Socket ATX Motherboard with WiFi

Product Overview

Gigabyte X570S Aorus Elite Wifi: AMD AM4 mb - with 12 2 phase digital VRM, pre-mounted I/O shield with thermal armor RGB Fusion 2.0 with on-board RGB display (multi zones), Addressable LED Strip Support, on-board Q-Flash buttons, 2x copper PCBs



Specifications

Overview:

GIGABYTE X570S motherboards feature upgraded power solution, passive and silent thermal design, and PCIe 4.0 components to keep your gaming system up to fast and powerful, even under heavy workloads.

Features:

UNPARALLELED PERFORMANCE
To unleash the full potential of the latest AMD Ryzen™ 5000 series processors, the motherboard requires the best CPU power, memory and IO design. With the best quality components and GIGABYTE R&D design capability, X570S AORUS Elite is a true beast among motherboards.

Twin Power Design
GIGABYTE X570S Motherboards are equipped with best in class power solution to release the full potential of the latest AMD Ryzen™ 5000 Series CPUs. The VRM power design includes MOSFETs which Vcore and SOC accompanied by digital PWM, premium chokes and high quality capacitors to offer extraordinary stability and precision to the high performance CPU. In addition, Six-layered PCB and comprehensive thermal solution allows enthusiasts to enjoy the extreme overclocking performance without compromise.

Memory Layout - Daisy Chain Design
With the optimized daisy-chain routing, GIGABYTE X570S motherboards provide a proven speed of up to DDR4-5400 MHz with high density memory modules*. Optimized daisy-chained routing eliminates the stub effect, pushes the one DIMM per channel in dual channel interleaving mode to hit higher memory frequencies, and provides professional gamers a denser and faster system memory experience.

Support for DDR4 XMP Up to 5400MHz and Beyond*
AORUS is offering a tested and proven platform that ensures proper compatibility with profiles up to 5400MHz and beyond. All

users need to do to attain this performance boost is to ensure that their memory module is XMP capable and that the XMP function is activated and enabled on their AORUS otherboard.

Single 32GB Support
With populated 4 DIMMs per channel on GIGABYTE X570 motherboards, the maximum memory capacity support is 128GB. For users who always run out of memory capacity, they are able to enjoy more bandwidth now for memory-intensive application such as rendering and video editing.

3 x PCIe 4.0 M.2 Slot
M.2 PCIe 4.0 x4 slot with lower impedance.

PCIe 4.0 Slot
Reinforced PCIe 4.0 x 16.

PCIe 4.0 Ready PCB
PCIe 4.0 Ready Mid-Loss PCB.

Triple PCIe 4.0/3.0 x4 M.2 Connectors with Thermal Guard
AORUS Gaming Motherboards are focused on delivering M.2 technology to enthusiasts who want to maximize their Systems' potential.

ADVANCED THERMAL SOLUTION
X570S AORUS ELITE AX uses high performance Full Covered thermal design with high coverage MOSFET Heatsinks and thick thermal pad, providing ultimate MOSFET cooling performance for enthusiasts, overclockers and gamers.

Fully Covered Thermal Design
High coverage MOSFET and integrated molding Heatsinks to improve thermal efficiency with better airflow and heat exchange.

5 W/mK Thermal Conductivity Pad
By using 1.5mm thicker 5 W/mK thermal conductivity pads, it can transfer 2.7x more heat compared to traditional thermal pads in the same time.

3X M.2 Thermal Guards
Built-in M.2 heatsinks prevent high-speed, large capacity PCIe 4.0/3.0 SSDs from throttling due to overheating.

2X Large Surface
Increased surface area up to 2X larger compared to traditional heatsinks. It improves heat dissipation from the MOSFETs.

Real One-piece Build
TMOS is a TRUE single piece heatsink. Its one-piece design and larger surface drastically improve the cooling performance against competitors' multi-piece design.

Multi-Cut Design
TMOS features several channels and inlets on the heatsink. This design allows for the air flow to go through which leads to a great improvement of the heat transfer performance.

GIGABYTE Ultra-Efficient M.2 Thermal Guard
With durability in mind, GIGABYTE provides a thermal solution for M.2 SSD devices. The M.2 Thermal Guard prevents throttling and bottlenecks from high speed M.2 SSDs as it helps to dissipate heat before it becomes an issue.

Smart Fan 6

Smart Fan 6 contains several unique cooling features that ensure gaming PC maintain its performance while staying cool and quiet. Multiple fan headers can support PWM/DC fan and pump, and users can easily define each fan curve based on different temperature sensors across the board via intuitive user interface.

High Current Support
Each fan headers support PWM and DC fan and Water cooling Pump , and up to 24W (12V x 2A) with Over-Current Protection

Precision Control
Up to 6 temperature/fan speed control points for precise fan curve

Dual Curve Mode
Slope/Stair dual mode for different user scenario

Fan Stop
Fan can stop completely below users' specified temperature point

Improve fan curve UI
We increase control points from 5 to 7 and larger fan speed graph for precise and easier fan curve control.

Slope/Stair dual graph mode
Fan curve can be quickly switch with Slope and Stair modes for different user scenario. Slope is traditional and intuitive linear fan speed curve. With newly added Stair non-linear mode, fan keeps at same speed between specified temperature interval.

Manual Input
For advanced users, we provide fan speed manual input for more precise control.

EZ Tuning
Use can place 4 EZ Tuning points at rough temperature/fan speed, and Smart Fan 6 can quickly generate a fan curve.

Fan curve profile
Fan curve profile can be saved in BIOS ROM, profile will be kept after updating BIOS.

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.

NEXT GENERATION CONNECTIVITY
A high-end product needs to be future-proof so your system stays up-to-date with the latest technology. X570S AORUS ELITE AX provides all next generation network, storage, and connectivity to keep you up to speed.

2X Faster than ever

- Adoption of 2.5G LAN provide up to 2.5 GbE network connectivity, with at least 2 times faster transfer speeds compared to general 1GbE networking, perfectly designed for gamers with ultimate online gaming experience.
- Support Multi-Gig(10/100/1000/2500Mbps) RJ-45 Ethernet

AMD WiFi 6E 802.11ax BT 5.2 Module
AMD Wireless solution 802.11ax WIFI 6E with new dedicated 6GHz band, enables gigabit wireless performance and provides smooth video streaming, better gaming experience, few dropped connections and speeds up to 1.2Gbps*. Moreover, Bluetooth 5.2 provides 4X range over BT 4.2 and with faster transmission.

Benefit of WiFi 6E

- Dedicated spectrum in 6GHz band for less interference

- 4X better network capacity, no traffic jams especially in those dense area with lots of devices
- Network efficiency increase for better user experience

WIFI 6E Advantage
Spectrum congestion is huge problem in current WIFI environment nowadays because too many devices all use existing 2.4GHz and 5GHz spectrum, and it cause unreliable connection and slower speed. WIFI 6E is extended standard to WIFI 6, and it use dedicated 6GHz band that it provides not only brand new frequency to transfer data, but also spacious spectrum for future more devices. With WIFI 6E, users can enjoy faster connection and stronger signal than before.

Connecting the Future - USB 3.2 Gen 2x2 Type-C®
Featuring the USB 3.2 Gen 2x2 design which is doubled the performance than previous generation of USB 3.2 Gen 2. It works up to 20Gbps ultra-fast data transfer while connecting to USB 3.2 compliant peripherals. Through the USB Type-C® connector, users can enjoy the flexibility of reversible connection to access and store massive amounts of data rapidly.

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.

Hi-Res Audio
Hi-Res Audio certified, meaning that the product is capable of reproducing frequencies up to 40kHz or above which ensures user with the best audio quality at all times.

Realtek High-End HD Audio Codec
ALC1220 120dB(A) SNR HD Audio with Smart Headphone Amp automatically detects impedance of your head-worn audio device, preventing issues such as low volume and distortion. With the new VB series audio controller, stream your voice to the world vibrantly with both front/rear microphone SNR up to 110/114dB(A).

DEFINITIVE AESTHETICS
X570S AORUS ELITE AX features RGB FUSION 2.0 to offer lighting effected options and customized settings with outstanding aesthetics, and able to let enthusiasts building a stylish and unique gaming PC.

Multi-Zone Light Show Design
Now offering more LED customizations than ever, users can truly adapt their PC to represent their lifestyle. With full RGB support and a redesigned RGB Fusion 2.0 application, the user has complete control over the LEDs which surround the motherboard.

RGB Fusion 2.0
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.

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.

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.

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.

ULTRA DURABLE
GIGABYTE is reputable for its product durability and high quality manufacturing process. Needless to say, we use the best components we can find for the GIGABYTE motherboard and reinforce every slot to make each of them solid and durable.

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!

Industry Leading Ultra Durable™ PCIe Armor
The innovative one piece stainless steel shielding design from GIGABYTE reinforces the PCIe connectors to provide the extra strength required to support heavy graphics cards.

Solid Pin Power Connectors
AORUS motherboards feature solid plated ATX 24pin & ATX 12V 8pin power connectors to offer a stable power supply during 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

Specifications:

© 2021 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-GX570SAE+W
CPU	1. AMD Socket AM4, support for: AMD Ryzen 5000 Series/ Ryzen 5000 G-Series/ AMD Ryzen 4000 G-Series/ AMD Ryzen 3000 Series/ AMD Ryzen 3000 G-Series/ AMD Ryzen 2000 Series/ AMD Ryzen 2000 G-Series Processors
Chipset	1. AMD X570

Memory	1. 4 x DDR4 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory
	2. Dual channel memory architecture
	3. Support for DDR4 5400(O.C.) / 5300(O.C.) / 5200(O.C.) / 5100(O.C.) / 4800(O.C.) / 4600(O.C.) / 4400(O.C.) / 4266(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3733(O.C.) / 3600(O.C.) / 3466(O.C) / 3400(O.C.) / 3200(O.C.) / 2933 / 2667 / 2400 / 2133 MHz memory modules
	4. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules
	* ECC memory (ECC mode) support varies by CPU
	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 HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version, HDCP 2.3, and HDR.
	Maximum shared memory of 16 GB
Audio	1. Realtek ALC1220-VB codec
	* The back panel line out jack supports DSD audio.
	2. High Definition Audio
	3. 2/4/5.1/7.1-channel
	4. Support for S/PDIF Out
LAN	1. Realtek 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)
Wireless Communication module	AMD Wi-Fi 6E RZ608 (MT7921K)
	1. WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands
	2. BLUETOOTH 5.2
	3. Support for 11ax 80MHz wireless standard and up to 1.2 Gbps data rate
	(Actual data rate may vary depending on environment and equipment.)

Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	1. AMD Ryzen 5000 Series/3000 Series Processors support PCIe 4.0 x16 mode
	2. AMD Ryzen 5000 G-Series/4000 G-Series/2000 Series Processors support PCIe 3.0 x16 mode
	3. AMD Ryzen 3000 G-Series/2000 G-Series Processors support PCIe 3.0 x8 mode
	* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	1 x PCI Express x16 slot (PCIEX4), integrated in the Chipset:
	1. Supporting PCIe 4.0(Note)/3.0 x4 mode
	1 x PCI Express x16 slot (PCIEX2), integrated in the Chipset:
	1. Supporting PCIe 4.0(Note)/3.0 x2 mode
	* The PCIEX4 slot shares bandwidth with the PCIEX2 slot. When the PCIEX2 slot is populated, the PCIEX4 slot operates at up to x2 mode.
	(Note) For AMD Ryzen 5000 Series Processors/AMD Ryzen 3000 Series Processors only.
Multi-Graphics Technology	1. Support for AMD Quad-GPU CrossFire and 2-Way AMD CrossFire technologies
	(Note) For AMD Ryzen 5000 Series/5000 G-Series/4000 G-Series/3000 Series/2000 Series Processors only
	Storage Interface
	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2260/2280/22110 SSDs:
	1. AMD Ryzen 5000 Series/3000 Series Processors support SATA and PCIe 4.0 x4/x2 SSDs
	2. AMD Ryzen 5000 G-Series/4000 G-Series/3000 G-Series/2000 Series/2000 G-Series Processors support SATA and PCIe 3.0 x4/x2 SSDs
	2 x M.2 connectors (M2B_SB/M2C_SB), integrated in the Chipset, supporting Socket 3, M key, type 2260/2280/22110 SSDs:
	1. Supporting SATA and PCIe 4.0(Note)/3.0 x4/x2 SSDs
	6 x SATA 6Gb/s connectors, integrated in the Chipset:
	1. 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.
	(Note) For AMD Ryzen 5000 Series Processors/AMD Ryzen 3000 Series Processors only.

USB	CPU:
	1. 4 x USB 3.2 Gen 1 ports on the back panel
	Chipset ASMedia USB 3.2 Gen 2x2 Controller:
	1. 1 x USB Type-C port on the back panel, with USB 3.2 Gen 2x2 support
	Chipset:
	1. 1 x USB Type-C port with USB 3.2 Gen 2 support, available through the internal USB header
	2. 3 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
	3. 4 x USB 3.2 Gen 1 ports available through the internal USB headers
	Chipset 2 USB 2.0 Hubs:
	1. 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers)
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 water cooling CPU fan header
	5. 3 x system fan headers
	6. 1 x system fan/water cooling pump header
	7. 2 x addressable LED strip headers
	8. 2 x RGB LED strip headers
	9. 1 x CPU cooler LED strip/RGB LED strip header
	10. 3 x M.2 Socket 3 connectors
	11. 6 x SATA 6Gb/s connectors
	12. 1 x front panel header
	13. 1 x front panel audio header
	14. 1 x USB Type-C header, with USB 3.2 Gen 2 support
	15. 2 x USB 3.2 Gen 1 headers
	16. 2 x USB 2.0/1.1 headers
	17. 1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)
	18. 1 x Thunderbolt add-in card connector
	19. 1 x Clear CMOS jumper
	&#-246;All fan headers are subject to support AIO_Pump, Pump and high performance fan with the capability of delivering up to 2A/12V @ 24W.

Back Panel Connectors	1. 4 x USB 2.0/1.1 ports
	2. 2 x SMA antenna connectors (2T2R)
	3. 1 x HDMI port
	4. 4 x USB 3.2 Gen 1 ports
	5. 1 x Q-Flash Plus button
	6. 1 x USB Type-C port, with USB 3.2 Gen 2x2 support
	7. 3 x USB 3.2 Gen 2 Type-A ports (red)
	8. 1 x RJ-45 port
	9. 1 x optical S/PDIF Out connector
	10. 5 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. Water cooling flow rate detection
	5. Fan fail warning
	6. Fan speed control
	* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.
BIOS	1. 1 x 256 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
	EasyTune
	Fast Boot
	Game Boost
	ON/OFF Charge
	RGB Fusion
	Smart Backup
	System Information Viewer
	2. Support for Q-Flash Plus
	3. Support for Q-Flash
	4. Support for Xpress Install

Bundled Software	1. Norton Internet Security (OEM version)
	2. Realtek 8125 Gaming LAN Bandwidth Control Utility
Operating System	1. Support for Windows 10 64-bit
Form Factor	1. ATX Form Factor; 30.5cm x 24.4cm

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-GX570SAE-W-Gigabyte-X570S-Aorus-Elite-AMD-X570-Chipset-AMD-Ryzen-AM4-Socket-ATX-p-261079.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: 2026-11-21 02:21:28.

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.