ComX Computers
Product Specification Sheet

MB-GX570AE+W

Gigabyte X570 Aorus Elite AMD X570 Chipset Socket Ryzen AM4 Motherboard

Product Overview

Gigabyte X570 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 design, MoSFET heatsinks SmartFan5 with 6x temperature sensors + 4x hybrid fan headers, solid pin power connectors (ATX 24+8pin), PCIe armor with stainless steel shielding+double locking bracket - AMD X570 chipset, 4x dual channel DDR4-4400(O.C)/3200 (ECC + non-ECC) with XMP support up to 128Gb, 6x SATA6G + dual Gen4x4 M.2/NGFF with thermal guards (PCIe or SATA) with raid 0/1//0+1/5/10, on-board display with HDMi output (depends on CPU) + Realtek ALC1220-VB 7.1 audio (with WiMA+Nichicon audio capacitors + optical s/pdif out) + Intel 211AT gigabit LAN, Intel 802.11AC dual band 433 Mbps WiFi + Bluetooth (2.4Gbps); 2x PCi-Ex1, 2x pci-e 4.0 (16x+4x) for Quad-GPU CrossfireX (no SLi), with 2x USB3.2 type-A (Gen2 10GBPs) + 4x USB3.0 + 4x USB2.0, bundled Norton internet security - ATX



Specifications

Features:

Dominant in Darkness
In the dark, starless night, the falcon strikes fear into the heart of its prey. Even with minimal visibility, the falcon pinpoints its prey and patiently anticipates the perfect moment to swoop in for the kill. The falcon with its laser sharp gaze dominates the darkness of night in the same manner that AORUS Core Lighting illuminates the vast AORUS ecosystem.

GET READY FOR AMD RYZEN™ 3000-SERIES
GIGABYTE X570 motherboards based on the AMD X570 Chipset provide full support for 3rd Gen AMD Ryzen™ Processors. The all-new design is a testament to GIGABYTE's dedication to design quality. GIGABYTE X570 motherboards offer a rich list of features such as support for PCIe 4.0 and USB Type-C™ interfaces on select boards, refined audio, high speed of Ethernet and latest standard of WIFI design, to fulfill users' performance, audio, and data transfer needs. The new, advanced power and thermal design enables users to unleash the performance on AMD Ryzen™ 3000-series Processors, making the GIGABYTE X570 motherboards perfect for users looking to build the best AMD platform gaming system.

AMD StoreMI Technology
GIGABYTE X570 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

Ultimate Power Design
To unleash the full potential of the 3rd Generation of AMD Ryzen™ CPU, the motherboard requires the best CPU power design. With the best quality components and GIGABYTE R&D design capability, the X570 AORUS is a true beast among motherboards.

12*+2 Phases Digital Power Design
X570 AORUS ELITE WIFI motherboard uses an 12*+2 phases digital CPU power design which includes both digital PWM Controller and DrMOS. These 100% digital controller offer incredible precision in delivering power to the motherboard's most power-hungry and energy-sensitive components, allowing enthusiasts to get the absolute maximum performance from the new AMD Ryzen 3000 series processors.

2x Copper PCB
GIGABYTE's exclusive 2X copper PCIe 4.0 Ready PCBs design provides sufficient power trace paths between components to handle greater than normal power loads and to remove heat from the critical CPU power delivery area. This is essential to ensure the motherboard is able to handle the increased power loading that is necessary when overclocking.

Smart Fan
Provides 3 different operating modes to minimize noise and extend the fan's longevity. Silent, Balanced and Performance modes, choose the mode that suits you the best in any situation.

High Durability
X570 motherboards adopt a high quality ball bearing fan which guarantees 60,000* working hours.

Full PCIe 4.0 Design
X570 AORUS pushes the envelope once again by featuring Full PCIe 4.0 Design, including PCIe 4.0 slots, PCIe 4.0 M.2 connectors and delivering highly optimized performance and flexibility demanded for power users and extreme gaming enthusiasts.

PCI 4.0 Hardware
X570 AORUS Series Motherboards feature built-in PCIe 4.0 slots, delivering superior bandwidth compared to that from previous generation technology. Performance of Graphics cards and PCIe NVMe AIC SSDs will not be limited by insufficient bandwidth. PCIe 4.0 slots have higher slot signal stability and lower impedance, maximizing PCIe bandwidth while also being backwards compatible with PCIe 3.0.

Dual PCIe 4.0 M.2 Connectors with One Thermal Guard
AORUS Gaming Motherboards are focused on delivering M.2 technology to enthusiasts who want to maximize their systems' potential.

Extreme Performance with PCIe 4.0 x4 NVMe PCIe SSDs
X570 AORUS motherboards offer the industry's best compatibility in terms of NVMe storage for users who demand high capacity and seek the best performance. AORUS' unique design can be configured in RAID for record speeds of up to 9534 MB/s (Sequential Read), making AORUS the obvious choice for the ultimate PC.

GIGABYTE Ultra-Efficient M.2 Thermal Guard
For upcoming ultra fast PCIe 4.0 SSDs, compromised performance is not acceptable. Well-managed thermal performance is particularly important for high-performance Gen 4 NVMe SSDs. GIGABYTE provides improved thermal solutions for M.2 SSD

devices. The M.2 Thermal Guard prevents throttling and bottlenecks on high speed M.2 SSDs as it helps to dissipate heat before it becomes an issue.

Support for DDR4 XMP Up to 4000MHz and Beyond*
AORUS is offering a tested and proven platform that ensures proper compatibility with profiles up to 4000MHz 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 motherboard.

Broad DDR4 Compatibility with Support List of 1000+ DDR4 Validated!
AORUS partners very closely with memory vendors from around the world to ensure that modules offered by popular memory brands are compatible with AORUS Motherboards. AORUS has verified over 1000+ different modules to ensure performance in a AORUS built system.

Next Generation Connectivity
A high-end product needs to be future-proof so your system stays up-to-date with the latest technology. X570 AORUS motherboards provide all next generation network, storage to keep you up to speed.

Faster and Better Coverage with Intel Dual Band 802.11ac WIFI + BT 4.2 Module
The onboard 802.11ac WIFI module from Intel® supports Dual Band and up to 433 Mbps, 3x faster WIFI speed than 802.11n and also support BLUETOOTH 4.2.

Intel® GbE LAN with cFosSpeed Internet Accelerator Networking
Intel® GbE 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.

USB Type-C™ Front Panel Connector
Equipped with next generation connectivity AORUS Gaming Motherboards already support the chassis of the future. The onboard USB Type-C™ header for USB 3.2 Gen2 makes access convenient when connecting a USB 3.2 Gen2 drive or charging your new mobile device.

Native USB 3.2 Gen2
AMD's native USB 3.2 Gen2 provides USB 3.2 Gen2 ports with speeds up to 10Gbps. With twice the bandwidth compared to its previous generation as well as backwards compatibility with USB 2.0 and USB 3.2 Gen1, the much improved USB 3.2 Gen2 protocol is available over the new reversible USB Type-C™ and the traditional USB Type-A connector for better compatibility over a wider range of devices.

HDMI 2.0 for 4K / 60P / 21:9 / HDCP 2.2 Support
HDMI 2.0, which is backwards compatible with HDMI 1.4, offers 18 Gb/s of bandwidth - nearly twice that of the 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), offering the best visual experience for viewers.

RGB Fusion 2.0
With AORUS 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. Already feature filled with colors and patterns, RGB Fusion 2.0 on X570 Series AORUS Motherboards are now upgraded with Addressable LED support. With external Addressable LED strips*, where each LED is digitally addressable, users can experience even more patterns, styles, and illuminations. AORUS Motherboards will support 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.

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 Ready
With a dazzling array of products supported, RGB Fusion 2.0 is the software that brings it all together, letting your accessories synchronize to the same beat. Customize all your LEDs how you like - have them match, dazzle and impress. Learn more about RGB Fusion 2.0

RGB Fusion 2.0 Software
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.

High-End WIMA & Audio Capacitors
The AORUS motherboards boast a combination of Hi-Fi grade WIMA FKP2 capacitors and high-end Chemicon audio capacitors. While the high-end audio capacitors are suited for high-grade audio equipment, using state of the art technology to provide rich sound in the bass and clearer high frequencies, the WIMA FKP2 capacitors are being used widely in premium grade Hi-Fi systems. The addition of this to the exclusive AOURS AMP-UP Audio technology makes for the ideal onboard sound solution for the most demanding audiophiles.

Audio Noise Guard
AORUS motherboards feature an audio noise guard that essentially separates the board's sensitive analog audio components from potential noise pollution at the PCB level. LED trace path lighting Illuminates to show the separation of the PCB layers.

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, 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.

Q-Flash Plus
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
X570 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

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.

Easy to Install "G Connector" Design
The tiny cables of the front panel connectors can be hard to manipulate as space is restricted and indicators are tiny. With the G Connector, you can connect all the FP cables at once, simplifying the process of building your next PC and saving you frustration.

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!

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-GX570AE-W-Gigabyte-X570-Aorus-Elite-AMD-X570-Chipset-Socket-Ryzen-AM4-Motherboard-p-244060.php

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