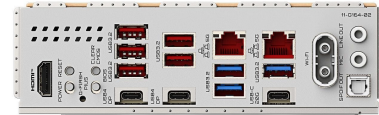


GA-X870E-AERO-X3D-WOOD

Gigabyte X870E AERO X3D WOOD X870E Chipset AMD Ryzen AM5 Socket ATX Motherboard



Specifications

About this product

The Gigabyte X870E AERO X3D WOOD motherboard is an ATX motherboard designed for AMD Ryzen AM5 CPUs. Featuring 4 x DDR5 DIMM slots supporting up to 256 GB of high-speed memory and advanced connectivity options, it delivers premium performance for gaming and creative applications. Buy now from our website for quick delivery in South Africa.

Overview Summary

Product:Gigabyte X870E AERO X3D WOOD ATX Motherboard

The X870E AERO X3D WOOD motherboard is engineered for high-performance computing with AMD Ryzen AM5 processors. It offers 4 x DDR5 DIMM sockets capable of handling up to 256 GB of system memory, supporting DDR5 speeds from 4800 MT/s up to 9000 MT/s overclocked. This motherboard ensures reliable power delivery with 1 x 24-pin ATX main power connector and 2 x 8-pin 12V connectors, making it ideal for gamers and creators seeking stable performance.

Equipped with multiple headers for fans, RGB lighting, and cooling pumps, the motherboard also features extensive storage options, including 4 x M.2 slots and 4 x SATA 6Gb/s connectors. Connectivity is enhanced with USB4, USB 3.2 Gen 2x2, HDMI, RJ-45, and wireless antenna support. Designed for both gaming rigs and content creation systems, this motherboard balances speed, stability, and aesthetic appeal.

Performance tier:High-end

Uses:Gaming, Content creation, Video editing, High-performance computing, Workstation builds

Description

The Gigabyte X870E AERO X3D WOOD motherboard is designed with both performance and aesthetics in mind. Its ATX form factor accommodates the latest AMD Ryzen AM5 processors while supporting massive DDR5 memory configurations up to 256 GB. Multiple M.2 slots and SATA connectors provide flexible storage options, while high-speed USB ports and USB4 support ensure fast data transfer. The motherboard also features multiple fan and cooling headers, RGB lighting controls, and dedicated buttons for power, reset, and CMOS clearing, making it a versatile choice for gamers, content creators, and professionals building high-performance PCs.

Features

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Key features of the Gigabyte X870E AERO X3D WOOD motherboard:

- Supports AMD Ryzen AM5 CPUs with AM5 socket
- 4 x DDR5 DIMM slots up to 256 GB, supporting overclocked speeds up to DDR5 9000 MT/s
- Advanced power delivery: 1 x 24-pin ATX main connector, 2 x 8-pin 12V connectors
- Multiple cooling headers: CPU fan, system fans, water pump support
- RGB lighting headers: 3 x addressable Gen2 and 1 x RGB LED strip header
- Storage options: 4 x M.2 slots, 4 x SATA 6Gb/s connectors
- High-speed connectivity: USB4, USB 3.2 Gen 2x2, HDMI, multiple USB Type-A ports
- Networking: Dual RJ-45 ports and 2T2R wireless antenna support
- Convenient front panel and audio headers
- ATX form factor with premium design and wood-inspired aesthetics

Raw Texture Reveal Timeless Elegance

Inspired by the Zain aesthetic of embracing imperfection, AERO WOOD recognizes beauty in the natural transformations of time and decay, embracing their quiet presence as a form of deep aesthetic appreciation.

Comprehensive Thermal

Advanced full-metal thermal design and durable heatsinks to keep your system cool and efficient.

M.2 Thermal Guard L

with M.2 Thermal Guard Backplate

Engineered for maximum cooling performance - high-efficiency heat dissipation & a flexible baseplate for M.2 SSD.

To prevent overheating, high thermal conductivity pads are typically added. The M.2 EZ Flex was introduced to solve this issue by improving the contact between the SSD and the heatsink. M.2 EZ-Flex offers a flexible base that improves contact between the heatsink & SSD, enhancing thermal performance.

PCB Thermal Plate

Exclusive full-coverage metal backplate design.

Smart Fan 6

Superior cooling performance and whisper-quiet operation for your gaming rig.

High Current Support

- Supports both PWM and DC fans, plus water cooling pumps
- Up to 24W (12V x 2A) capacity per fan header
- Built-in over-current protection

Precision Control

- Multiple temperature and fan speed points
- Customizable fan curves for optimal performance

Dual Curve Mode

- Choose between slope and stair modes
- Tailor cooling to your specific needs and preferences

Fan Stop Technology

- Fans can be completely turned off at low temperatures
- Ensures silent operation during light loads

Enhance Fan Curve UI

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- 7 adjustable control points
- Expanded speed graph for precise adjustments

Slope/Stair Dual Graph Mode

- Slope mode: Smooth fan speed curve
- Stair mode: Steady speeds within temperature ranges
- Easy switching between modes

Manual Input

- Fine-tune fan speeds for optimal performance
- Precise control for enthusiasts

EZ Tuning

- Quick setup with 4 temperature and fan speed points
- Automatic optimization of fan curve

Fan Curve Profile

- Save personalized settings to BIOS ROM
- Maintain custom settings through BIOS updates

X3D Turbo Mode 2.0

X3D Turbo Mode 2.0 delivers enhanced gaming and multitasking performance over the first generation. Built-in AI model and hardware circuits dynamically optimize X3D processor parameters in real-time, significantly boosting Ryzen(TM) X3D performance.

Specialized Hardware Processing

Dedicated hardware block for real-time performance tuning

Dynamic OC Engine Model

Trained on vast X3D processor datasets

AORUS AI SNATCH

Unleash Ultimate Performance with One-Click Activation.

Auto CPU & DDR5 Memory Boost

With just a single click, unleash the full potential of CPU & DDR5 memory, instantly boosting your gaming and work efficiency.

One-Click Acceleration:

- Enhance CPU & DDR5 speeds with a single click.
- Real time Analyze
- OC accuracy UP
- EZ to Pro

Fast AI Performance

Accelerate AI processing for greater performance

Up to 8% AI Performance*

- Accelerated AI decision-making
- Boosted reinforcement learning
- Streamlined language processing

Boost CPU & Memory Performance

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Raise system speed and performance.

Up to 9% CPU & Memory Performance Boost

- Tailored-overclocking for your CPU and memory
- Faster data transfer and application loading
- Improved multitasking performance
- Optimized overall system performance

Maximize performance in a snap

Enable users to easily become overclocking experts through a simple interface.

Smart & Safe overclocking

Protect your motherboard through multiple over-temperature and over-current safeguards.

- Over Temperature Protection
- Over Current Protection
- Over Voltage Protection
- Over Power Protection
- Under Voltage Protection
- Short Circuit Protection

Enhance Up to 9% CP/Per Watt*

With faster computations, it also means reduced power consumption, making it more environmentally friendly and energy-efficient, continuously contributing to the well-being of our planet.

AI-Driven PCB Design

Redefining PCB Design with AI

AI-Driven PCB Technology -Redefining PCB Design with Artificial Intelligence

AI-Driven PCB Technology employs AI algorithms to optimize vias, routing and stackups. It ensures peak performance and signal integrity across single and cross-layer throughout the design process.

AI-ViaFusion Technology

Optimized vias & pads for signal integrity

AI-Trace Technology

Smart routing for peak performance

AI-Layer Technology

Tailored stackups for enhanced functionality

Key Features:

- AI-Generated Design Recipes
- AI-Driven Simulation
- AI-Powered Signal Verification
- Single and cross-layer signal optimization

AI-ViaFusion(TM) Technology - AI-Powered Excellence in Signal Integrity

Reduction in Signal Reflection Up to 28.2%. AI-ViaFusion, an AI-assisted via optimization technology, determines optimal via and pad sizes across PCB areas. This technology enhances cross-layer signal integrity and transmission efficiency, outperforming traditional design methods.

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Best-in-class Signal Quality

- Superior signal transmission efficiency
- Dramatically reduced signal reflection
- Elevated signal quality and reliability
- Enhanced cross-layer PCB signal performance

AI-ViaFusion Technology - AI-Engineered Via Design Formula

AI-ViaFusion is a proprietary AI-generated hybrid via structure design. This PCB technology, validated through AI simulations and testing, aims to enhance high-speed signal transmission.

Optimized Via Design

Varied via sizes for optimized signal and power paths

Driven Pad Optimization

Custom pad sizes for performance and production balance

Precision Impedance Matching

Via & pad sizes selected for optimal signal impedance

Minimized Insertion Loss

Optimized vias reduce signal loss

Enhanced Return Loss

Precision impedance matching reduces reflections

Optimized Eye Diagram

Wider eye opening improves signal integrity

AI-ViaFusion Technology - AI-Driven Revolution in PCB Design

Vias (Vertical Interconnect Access) are critical for multi-layer PCB connectivity. Via size significantly impacts signal integrity, affecting capacitance, reflections, and crosstalk.

Strategic Via Sizing

Optimized for varied signals across PCB

Enhanced Impedance Matching

Precise control via machine learning

Space Optimization

Maximized layout efficiency with signal integrity

AI-Trace Technology-Revolutionizing PCB Routing with AI

AI-Trace Technology transforms PCB design by leveraging AI to optimize trace routing, resulting in enhanced performance and signal integrity.

Fiber Weave Effect Mitigation

Optimized signal synchronization

Shielded Memory Routing

Optimized signal shielding and precision

Impedance-Optimized Topology

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Refined traces with minimal resistance

Isolated Memory Routing

Optimized trace layout and layer separation

Daisy-Chained Routing

Innovative design eliminates signal bottlenecks

Mitigating Fiber Weave Effect with AI-Trace Technology

Fiber Weave Effect in high-speed PCBs stems from varying dielectric constants of epoxy resin and glass fibers, this causes varying signal propagation speeds, leading to signal integrity issues such as crosstalk and jitter. AI-Trace Technology implements innovative routing angles to mitigate this effect.

Benefits of Mitigation:

- Reduces signal distortion
- Improves transmission reliability
- Supports higher data rates
- Enhances overall system stability

AI-Layer Technology -Next-Generation Multi-Layer PCB Design

AI-Layer Technology creates innovative layer materials for multi-layer PCBs, delivering unparalleled performance.

Core Innovation:

AI-Optimized Layer Customized Design

- AI-optimized layer design
- Unique material for each layer
- AI-verified signal integrity
- Tailored PCB for peak performance

Key Features:

- AI-optimized PCB layer and design material
- Server-Grade Low Loss PCB*
- Enhanced 2X Copper Technology

HyperTune BIOS

AI-Driven Advanced BIOS Optimization Technology

HyperTune BIOS - AI-Driven Advanced BIOS Optimization Technology

- BIOS Efficiency Boost Up to 95%+
- HyperTune BIOS uses AI to optimize signals. The 800 series implements this for peak efficiency, enabling significant memory clock speed boosts and enhanced overall performance.

AI-Enhanced Performance Optimization

- Adaptive signal strength tuning
- AI tuning accuracy exceeds 95%
- Continuous learning advances performance limits

Infinite Memory Performance

AERO WOOD series gaming motherboards boost DDR5 memory performance and offer top-notch compatibility using various advanced methods.

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Shielded Memory Routing

Advanced shielding inside the PCB keeps your memory signals clean and interference-free.

Daisy-Chained Routing

Innovative design removes signal bottlenecks, allowing for blazing-fast memory speeds and a superior gaming setup.

8-layer Server-grade PCB

Top-of-the-line server-grade PCB material minimizes signal loss, providing ultra-fast DDR5 data transmission.

Enhanced PCB Design for Superior Gameplay

Serving as the cornerstone of the motherboard, the PCB holds a fundamental and vital influence on system performance.

PCB Back drilling Technology

- Reduces signal reflections
- Improves timing accuracy
- Enhances system performance

8L Server-grade PCB

Facilitates condensed integration, ensuring signal fidelity, power consistency, and diminished EMI for premium performance systems.

2X Copper Enhancement

Optimizes system efficiency through enhanced thermal management, improved power delivery, and comprehensive overclocking capabilities.

56% Lower Dissipation Factor

Our cutting-edge technology enhances signal integrity in high-frequency circuits, establishing new level in high-speed electronic engineering.

Steady Power

AERO WOOD Series with steady power keeps your operation smooth.

Digital Twin VRM Design

Delivers consistent, high-powered performance to elevate your overclocking to the next level.

16 VCORE Phases DrMOS 60A

Unlock the full power of your multi-core CPU for unmatched performance.

2 SOC Phases DrMOS 60A

Optimized for integrated GPU performance and memory management within the CPU.

2 MISC Phases DrMOS 60A

Deliver reliable power to your CPU-connected PCIe lanes for uninterrupted performance.

Hassle-free Assembly

Our cutting-edge motherboard is designed for the ultimate DIY experience

DriverBIOS

There is no need to download or install additional drivers to enable wireless networking after Windows installation is complete. Moreover, the capacity is 2 times larger than 32MB BIOS.

Multi-key

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A flexible control key for reset with BIOS-level reconfiguration options for diverse usage scenarios.

RGB Switch

Disable all light displays on the motherboard.

Direct-To-BIOS

Access the BIOS settings directly without keyboard inputs.

Safe Mode

Access BIOS safe mode to modify select settings while preserving other configurations.

Optimal DRAM Installation Indicator

The DRAM Indicator LED will turn on when a module is installed into a non-recommended slot.

Q-FLASH Auto Scan

The new Auto Scan function features when using USB flashdrive during Q-Flash, the BIOS file will be auto scanned instead of searching manually.

Q-FLASH PLUS

Effortlessly upgrade your BIOS without the need to install CPU, RAM, or GPU.

Future Connectivity

Enable the ultimate connection experience with blazing data-transfer speeds through the next generation network, storage, and Wi-Fi connectivity.

Dual 40Gbps USB4 with DP-Alt

The dual latest USB4 Type-C ports provide blistering fast and reliable transfer speed up to 40 Gbps of each. Featuring extensive comparability, efficient charging of PD 65W, and ultra-HD displayport connectivity, USB4 is beneficial to video editing, large file transfers, and data-intensive tasks.

Dual 5G LAN

The Dual 5G LAN design deliver blisteringly fast transfer speeds to ensure the most stable transmission environment when the system is performing cloud computing or providing external computing services.

Wi-Fi 7 brings you the Ultimate VR experience

Wi-Fi 7 transforms the VR landscape with its exceptional bandwidth and minimal latency, delivering an unparalleled, seamless immersive VR experience.

320 MHz channels

Wi-Fi 7 introduces support for expansive 320 MHz channels, dramatically increasing bandwidth for unprecedented data transfer speeds.

4K-QAM

Leveraging 4K-QAM technology, Wi-Fi 7 elevates data throughput, enabling lightning-fast file transfers and buffer-free streaming.

Multi-link Operation

Wi-Fi 7's MLO (Multi-Link Operation) technology allows strategic bandwidth allocation - dedicating 2.4GHz for streaming and 5/6GHz for gaming, resulting in a superior and interruption-free network experience.

Deterministic low latency

With its deterministic low latency, Wi-Fi 7 minimizes delays, making it the best choice for time-sensitive applications such as

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video conferencing and competitive online gaming.

Directional Ultra-high Gain Antenna

Boost your signal strength with GIGABYTE's Ultra-high gain Antenna, featuring smart antenna technology for optimized Wi-Fi signal transmission.

Audiophile Grade Capacitors

Premium Grade Audio capacitors ensure consistent power delivery, recreating a professional studio-quality sound experience.

True High-Fidelity Music

Dive into enveloping surround sound and enjoy DSD audio playback with the Realtek Codec.

Born from Ultra Durable(TM)

Technology embodies our commitment to excellence, providing gamers with a platform that's not only powerful but also built for longevity and reliability. AERO WOOD series motherboards are engineered to endure and excel.

PCIe UD Slot X

The latest PCIe UD Slot X offers unparalleled robustness, delivering superior protection for your graphics card.

10X load-bearing capacity

integrated, single-piece design anchored to a exclusive backplate

Inner Lining Rubber Strip

Safeguards your graphics card's PCB against potential damage

Zinc Alloy

Provides effective EMI shielding for high-frequency signals

UD Power Connector

Our innovative UD Power Connector design enhances power conductivity and thermal dissipation.

Solid Pins

Delivers superior conductivity and signal transmission and reduces metal wear from repeated connections.

Collaborative Excellence in Computing

GIGABYTE motherboards showcases our devotion to BIOS improvement. Through synergy with our user community, we democratize next-level computing power.

UC BIOS

Restructured with user-centered and intuitive performance adjustment mechanisms.

Refined BIOS Interface

GIGABYTE User-Centred (UC) BIOS elevates the interface, delivering an optimized experience through an easy-to-navigate layout and attractive design for optimal usability.

Multi-Theme

Now users can choose different BIOS themes with one simple click It not only delivers an immersive user experience but also offers a brand new user-friendly theme: Grayscale.

One click to screenshot

Just one click to take a screenshot directly.

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Quick Access Function

GIGABYTE UC BIOS' Quick Access function selects brings several key options from Advanced Mode directly into Easy Mode, enabling swift adjustments without extensive navigation.

Click to go BIOS path

Return to the main page with one click, no need to press arrow keys or ESC anymore.

BIOS Quick Search Feature

No more getting lost in BIOS! Intelligent search capabilities with intuitive interface design, eliminating complex BIOS navigation and delivering a revolutionized user experience.

Smart 80 Port

POST Diagnostics meets Real-Time Thermal Monitoring. Monitor critical CPU/SYS/VRM temperatures instantly during boot sequence, advanced thermal insights before Windows even loads.

AIO Fan Control

Enable non-windows users to adjust AIO fan speed in the BIOS before entering the OS.

GIGABYTE Control Center

A unified software platform encompassing multiple GIGABYTE product.

RGB Fusion

Personalize the RGB illumination on your motherboard and connected peripherals.

Spotlight your flair

Liberate your imagination using GCC's versatile illumination options for your motherboard. Tailor your setup with eye-catching displays that mirror your unique personality and preferences.

Varnish your shine

Programmable RGB LED connectors enable precise control over individual LEDs (for ARGB GEN2 devices), seamlessly managed through the GCC.

AORUS & HWiNFO Co-branded OSD

AORUS and HWiNFO co-branded OSD(On-Screen Display) can display values as text or graphs in an overlay or independent window, also in full-screen applications and games, with no need for additional software installation.

Default AORUS skin

When using HWiNFO on a GIGABYTE motherboard, a custom AORUS-themed interface automatically activates, offering light and dark options. This AORUS Skin can be manually applied to non-GIGABYTE boards as well.

Memory Timings Monitor

Thanks to the collaborative efforts of GIGABYTE and HWiNFO experts, this sophisticated monitoring tool now provides unprecedented detail in memory timing readouts. This empowers users to closely track memory performance and gather crucial insights.

Detailed BIOS information

GIGABYTE motherboard users can now access comprehensive BIOS details in real-time through HWiNFO. This includes toggle and tweaker statuses, as well as BIOS versions. No need for system reboots to check BIOS info. anymore.

What's in the Box

- Gigabyte X870E AERO X3D WOOD motherboard

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- User manual and installation guide
- 1 x I/O shield
- SATA cables
- 2 x Wi-Fi antennae
- Support CD with drivers and utilities

Specifications

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Specifications	
Product Code	GA-X870E-AERO-X3D-WOOD
CPU	AMD Socket AM5, support for:
	AMD Ryzen 9000 Series Processors/
	AMD Ryzen 8000 Series Processors/
	AMD Ryzen 7000 Series Processors
	(Go to GIGABYTE's website for the latest CPU support list.)
Chipset	AMD X870E
Memory	Support for DDR5 9000(O.C) /8800(O.C) /8600(O.C) /8400(O.C) / 8000(O.C) / 7800(O.C) / 7600(O.C) / 7800(O.C) / 7600(O.C.) / 7200(O.C.) / 7000(O.C.) / 6800(O.C.) / 6600(O.C.) / 6400(O.C) / 6200(O.C) / 6000(O.C) / 5600(O.C) / 5200 / 4800 / 4400 MT/s memory modules.
	Support for DDR5 5200/4800 MT/s memory modules
	4 x DDR5 DIMM sockets supporting up to 256 GB (64 GB single DIMM capacity) of system memory
	Dual channel memory architecture
	Support for non-ECC Un-buffered DIMM memory modules
	Support for AMD EXtended Profiles for Overclocking (AMD EXPO) and Extreme Memory Profile (XMP) memory modules
	(The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules.)

Onboard Graphics	Integrated Graphics Processor with AMD Radeon Graphics support+ASMedia USB4 Controller:
	- 2 x USB4 USB Type-C ports, supporting USB4 and DisplayPort video outputs and a maximum resolution of 3840x2160@240 Hz
	* Support for DisplayPort 1.4 version and HDR.
	Integrated Graphics Processor with AMD Radeon Graphics support:
	- 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version, HDCP 2.3, and HDR.
	** Support for native HDMI 2.1 TMDS compatible ports.
	- 1 x front HDMI port, supporting a maximum resolution of 1920x1080@30 Hz
	* Support for HDMI 1.4 version.
	(Graphics specifications may vary depending on CPU support.)
Audio	Realtek ALC1220 CODEC
	* The back panel line out jack supports DSD audio.
	High Definition Audio
	2/4/5.1/7.1-channel
	* You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings.
	Support for S/PDIF Out
LAN	2 x Realtek 5GbE LAN chips (5 Gbps/2.5 Gbps/1 Gbps/100 Mbps)
Wireless Communication module	MediaTek Wi-Fi 7 MT7927, RZ738
	- 802.11a, b, g, n, ac, ax, be, supporting 2.4/5/6 GHz carrier frequency bands
	- BLUETOOTH 5.4
	- Support for 11be 320MHz wireless standard
	(Actual data rate may vary depending on environment and equipment.)
	* Wi-Fi 7 features require Windows 11 SV3 to function properly. (There is no support driver for Windows 10.)
	** Wi-Fi 7 channels on 6 GHz band availability depends on individual country's regulations.
	*Bluetooth version may change with updates. See the Wi-Fi chip vendor's website for details.

Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	AMD Ryzen 9000/7000 Series Processors support PCIe 5.0 x16 mode
	AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x8 mode
	AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4 mode
	* The PCIEX8 slot shares bandwidth with the PCIEX16 slot. When the PCIEX8 slot is populated, the PCIEX16 slot operates at up to x8 mode.
	* The PCIEX16 and PCIEX8 slots can only support a graphics card or an NVMe SSD. If only one graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	1 x PCI Express x16 slot (PCIEX8), integrated in the CPU:
	AMD Ryzen 9000/7000 Series Processors support PCIe 5.0 x8 mode
	* The PCIEX8 slot becomes unavailable when an AMD Ryzen 8000 Series-Phoenix 1/Phoenix 2 processor is used.
	Chipset:
	- 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4)
Storage Interface	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2580/2280 SSDs:
	AMD Ryzen 9000/7000 Series Processors support PCIe 5.0 x4/x2 SSDs
	AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x4/x2 SSDs
	AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4/x2 SSDs
	1 x M.2 connector (M2B_CPU), integrated in the CPU, supporting Socket 3, M key, type 22110/2280 SSDs:
	AMD Ryzen 9000/7000 Series Processors support PCIe 5.0 x4/x2 SSDs
	* The M2B_CPU connector shares bandwidth with the ASMedia USB4 controller. When a device is installed in the M2B_CPU connector, both the M2B_CPU connector
	and the USB4 port supported by the ASMedia USB4 controller operate at up to x2 bandwidth. When using an AMD Ryzen 8000 Series-Phoenix 1 or Phoenix 2
	processor, the USB4 port supported by the ASMedia USB4 controller operates at up to x2 bandwidth, and the M2B_CPU connector becomes unavailable.
	2 x M.2 connectors (M2C_SB, M2D_SB), integrated in the Chipset, supporting Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSDs
	4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices
	* RAID 5 is only available on AMD Ryzen 9000 Series Processors.
	RAID 0, RAID 1, and RAID 10 support for SATA storage devices

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USB	CPU+ASMedia USB4 controller:
	- 2 x USB4 USB Type-C ports on the back panel
	CPU:
	- 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel
	Chipset+USB 3.2 Gen 1 Hub:
	- 4 x USB 3.2 Gen 1 ports available through the internal USB headers
	Chipset:
	- 2 x USB Type-C ports, with USB 3.2 Gen 2x2 support (1 port on the back panel, 1 port available through the internal USB header)
	- 4 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
	- 3 x USB 3.2 Gen 1 ports on the back panel
	- 4 x USB 2.0/1.1 ports available through the internal USB headers
Internal I/O Connectors	1 x 24-pin ATX main power connector
	2 x 8-pin ATX 12V power connectors
	1 x CPU fan header
	1 x CPU fan/water cooling pump header
	4 x system fan headers
	2 x system fan/water cooling pump headers
	3 x addressable RGB Gen2 LED strip headers
	1 x RGB LED strip header
	4 x M.2 Socket 3 connectors
	4 x SATA 6Gb/s connectors
	1 x front panel header
	1 x front panel audio header
	1 x USB Type-C header, with USB 3.2 Gen 2x2 support
	2 x USB 3.2 Gen 1 headers
	2 x USB 2.0/1.1 headers
	1 x noise detection header
	1 x Trusted Platform Module header (For the GC-TPM2.0 SPI V2 module only)
	1 x HDMI port (Note)
	1 x reset jumper
	1 x Clear CMOS jumper
	2 x temperature sensor headers
	(Note) Actual support may vary by CPU.

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Back Panel Connectors	1 x Q-Flash Plus button
	1 x Clear CMOS button
	1 x power button
	1 x reset button
	1 x HDMI port (Note)
	2 x USB4 USB Type-C ports (DisplayPorts (Note))
	1 x USB Type-C port, with USB 3.2 Gen 2x2 support
	5 x USB 3.2 Gen 2 Type-A ports (red)
	3 x USB 3.2 Gen 1 ports
	2 x RJ-45 ports
	2 x antenna connectors (2T2R)
	2 x audio jacks
	1 x optical S/PDIF Out connector
	(Note) Actual support may vary by CPU.
I/O Controller	iTE I/O Controller Chip
H/W Monitoring	Voltage detection
	Temperature detection
	Fan speed detection
	Water cooling flow rate detection
	Fan fail warning
	Fan speed control
	* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.
	Noise detection
BIOS	1 x 256 Mbit flash
	Use of licensed AMI UEFI BIOS
	PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
Unique Features	Support for GIGABYTE Control Center (GCC)
	* Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.
	Support for Q-Flash
	Support for Q-Flash Plus
	Support for Smart Backup
Bundled Software	Norton Internet Security (OEM version)
Operating System	Support for Windows 11 64-bit
Form Factor	ATX Form Factor; 30.5cm x 24.4cm

FAQ

Does the X870E AERO X3D WOOD support all AMD AM5 processors?

Yes, this motherboard is compatible with AMD Ryzen processors that use the AM5 socket.

What type of memory does it support?

It supports DDR5 memory modules with speeds from 4800 MT/s up to 9000 MT/s when overclocked, and up to 256 GB total.

How many M.2 drives can I install?

The motherboard has 4 x M.2 Socket 3 connectors, allowing multiple high-speed NVMe SSDs to be installed for storage expansion.

Does it have built-in Wi-Fi and Ethernet?

Yes, it includes 2 x RJ-45 Ethernet ports and supports wireless networking with 2T2R antennas.

Can I connect multiple RGB and cooling devices?

Yes, it features 3 x addressable RGB headers, 1 x RGB LED header, and multiple fan and pump headers for advanced cooling and lighting setups.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/GA-X870E-AERO-X3D-WOOD-Gigabyte-X870E-AERO-X3D-WOOD-Buy-p-336001.php>

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