

Gigabyte B550 AORUS ELITE AX V2 motherboard

Artikel

120435

Herstellernummer

B550 AORUS ELITE AX V2

EAN

4719331809904

Gigabyte



DESIGN CONCEPT 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.

AMD StoreMI Technology

GIGABYTE B550 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.

ULTIMATE POWER DESIGN

To fully support the latest 3rd Gen AMD Ryzen™ processors, B550 AORUS motherboards equip with the ultimate power solution which is power balanced, digital and multiple phases. After countless experiments and testing, GIGABYTE presents the unbeatable B550 AORUS motherboards for enthusiast. No Compromise and never stop to achieve higher.

UNPARALLELED PERFORMANCE

GIGABYTE realize that customer won't stop chasing a better computing performance. We take care of it and implement on products. Protective and optimized memory trace enhance the performance. Faster read and write are needed to save time and improve efficiency. We offer plenty of M.2 storage with thermal guards to ensure unthrottled read and write. In advance, adopting PCIe 4.0 ready components get the B550 motherboards easier to upgrade.

Memory Layout - Daisy Chain Design

With the optimized daisy-chain routing, the B550 motherboard provides a proven speed of DDR4-4000MHz and beyond 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, providing professional gamers a denser and faster system memory experience.

PCIe 4.0 Slot

PCIe 4.0 x16 slot with faster bandwidth and lower impedance.

Dual NVMe M.2 PCIe SSDs in RAID 0 Support

Performance with PCIe 4.0 x4 + PCIe 3.0 x4 NVMe PCIe SSDs

B550 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 6560 MB/s (Sequential Read), making AORUS the obvious choice for the ultimate PC.

ADVANCED THERMAL SOLUTION

Unthrottled performance is guaranteed by the advanced thermal solution which including Enlarged Heatsinks, High Quality Thermal Conductivity Pads and Thermal Guards. B550 motherboards are cool on MOSFETs and M.2 SSDs even on full loading. It provides lower temperatures for enthusiasts, overclockers and professional gamers.

NEXT GENERATION CONNECTIVITY

A high-end product needs to be future-proof so your system stays up-to-date with the latest technology. B550 AORUS motherboards provide all next generation network, storage, and WIFI connectivity to keep you up to speed.

2.5GbE LAN Onboard

2X Faster than ever

Adoption of 2.5G LAN provide up to 2.5 GbE network connectivity, with at least two times faster transfer speeds as compared to general 1GbE networking. It's perfectly suit for gamers and streamer with ultimate and smooth online experience. It also backward compatible with Multi-Gig (10/100/1000/2500Mbps)of RJ-45 ethernet.

New Introduce Intel® WiFi 6 802.11ax + BT 5 Module

Intel Wireless solution supports 802.11ax, enables gigabit wireless performance, provides smooth video streaming, better gaming experience, few dropped connections and speeds up to 2.4Gbps*. Moreover, Bluetooth 5 provides 4X range over BT 4.2 and with faster transmission.

AORUS Antenna Supports Dual Band with Better WIFI Signal

- All new antenna supported dual band 802.11ax/ac 2.4GHz & 5GHz.
- better signal strength compared to traditional antenna design
- AORUS Antenna with smart antenna function for the best WIFI signal transmitting
- Multiple angle tilt and magnetic base for the best signal strength direction and location

HI-FI AUDIO SYSTEM

For enthusiasts, sound quality is just as essential to the gaming experience. B550 motherboards are equipped with high quality audio components such as Hi-Fi grade WIMA FKP2 capacitors and Nichicon Fine Gold capacitors to provide a superb audio experience. The exclusive AORUS AMP-UP Audio technology makes for the ideal onboard sound solution for the most demanding audiophiles.

High-End WIMA & Audio Capacitors

The AORUS motherboards boast a combination of Hi-Fi grade WIMA FKP2 capacitors and high-end 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 AORUS 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.

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B550 motherboards feature RGB FUSION 2.0 and offer the option to control onboard, external light strips, and/or AORUS devices with RGB/ Addressable RGB LEDs to make your PC unique and stylish.

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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.

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.

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ULTRA DURABLE

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Ultra Durable™ PCIe Armor

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

B550 AORUS motherboards feature solid plated ATX 24pin & ATX 12V 8pin power connectors to offer a stable power supply during CPU overloading.

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!

GIGABYTE BIOS & APP CENTER

Good software goes hand in hand with perfect hardware. B550 motherboards bundled several useful and intuitive software to help users to control every aspect of motherboard.

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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.

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GIGABYTE APP CENTER is a useful portal of all GIGABYTE MB utilities and drivers, you can choose any utility you want to install from APP CENTER and keep updated with the 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.

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Zusammenfassung

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Gigabyte B550 AORUS ELITE AX V2, 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 B550 AORUS ELITE AX V2. 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: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Ethernet interface type: 2.5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet, Top Wi-Fi standard: Wi-Fi 6 (802.11ax), Wi-Fi standards: 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax). Component for: PC, Motherboard form factor: ATX, Motherboard chipset family: AMD

Merkmale

Graphics

Parallel processing technology support	Not supported
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Logistics data

Harmonized System (HS) code	84733020
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Other features

Weight	1.12 kg
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Processor

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 Generation AMD Ryzen™ 9

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

Network

Ethernet LAN	Y
Ethernet interface type	2.5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet
Wi-Fi	Y
Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
WLAN controller model	Intel Wi-Fi 6 AX200
Bluetooth	Y
Bluetooth version	5.0

Features

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces	M.2, SATA III
RAID levels	0, 1, 10

Weight & dimensions

Width	305 mm
Depth	244 mm
Height	80 mm

Expansion slots

PCI Express x1 (Gen 3.x) slots	1
PCI Express x16 slots	2
PCI Express x16 (Gen 4.x) slots	1
Number of M.2 (M) slots	2

Motherboard chipset	AMD B550
Audio chip	Realtek ALC1200
Audio output channels	7.1 channels
PC health monitoring	CPU, Fan, Temperature, Voltage
Component for	PC
Motherboard form factor	ATX
Motherboard chipset family	AMD
Power source type	ATX
Supported processor sockets (cooler)	Socket AM4
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
Supported memory module capacities	8GB, 16GB, 32GB
Unbuffered memory	Y

Rear panel I/O ports

USB 2.0 ports quantity	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-3 A ports quantity	
USB 3.2 Gen 2 (3.1 Gen 2) Type-2 A ports quantity	
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity	1
DisplayPorts quantity	1
Headphone outputs	1
Microphone in	Y
S/PDIF out port	Y
WiFi-AP antenna jack	2

Internal I/O

USB 2.0 connectors	2
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	3
TPM connector	Y
12V power connector	Y
RGB LED pin header	Y