

A620MH AURORA Motherboard



- Socket AM5 support AMD Ryzen™ 7000 / 8000 / 9000 series Processors
- AMD A620A single chip architecture
- Supports 2-DIMM DDR5 up to 128 GB Memory
- Supports Realtek Gigabit LAN
- Supports Front USB 3.2 Gen1
- Supports PCIe 4.0 M.2 (64Gb/s)
- Supports HDMI® 4K resolution

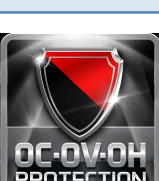
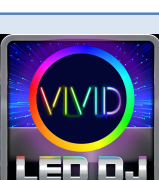
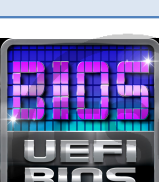
Specification

CPU SUPPORT	Socket AM5 support AMD Ryzen™ 7000 / 8000 / 9000 series Processors Support for future AMD Ryzen processors with BIOS update * Please refer to www.biostar.com.tw for CPU support list.
MEMORY	AMD Ryzen 7000 / 8000 / 9000 Series Processors: Supports Dual Channel DDR5 - 5600+(OC) MT/s, Non-ECC, Un-buffered Memory 2 x DDR5 DIMM Memory Slot, Max. Supports up to 128 GB Memory Support Intel Extreme Memory Profile (XMP) memory modules and AMD EXTENDED Profiles for Overclocking (EXPO) memory modules * Please refer to www.biostar.com.tw for Memory support list.
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	Total support 1 x M.2 Socket and 4 x SATA (6Gb/s) ports AMD Ryzen 7000 / 8000 / 9000 Series Processors 1 x M.2 (Key M) Socket (M2M_CPU) : Supports M.2 Type 2242/ 2260/ 2280 SSD module Supports PCIe 4.0 x4 (64Gb/s) - NVMe SSD AMD A620A Chipset 4 x SATA III Connector (6Gb/s) : Supports AHCI & RAID 0, 1, 10
LAN	Realtek RTL8111H 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability
AUDIO CODEC	Realtek ALC897 7.1 Channels, High Definition Audio, Hi-Fi
USB	6 x USB 3.2 Gen1 port (4 on rear I/Os and 2 via internal headers) 6 x USB 2.0 port (2 on rear I/Os and 4 via internal headers)
EXPANSION SLOT	AMD Ryzen 7000 / 8000 / 9000 Series Processors 1 x PCIe 4.0 x16 Slot (x16 or x8/x8 mode) AMD A620A Chipset 2 x PCIe 3.0 x1 Slot

REAR I/O	1 x SMART BIOS update Button 1 x HDMI® Port 1 x VGA Port 4 x USB 3.2 (Gen1) Type-A Port 2 x USB 2.0 Type-A Port 1 x Gigabit LAN port 3 x Audio Jack
INTERNAL I/O	4 x SATA III Connector (6Gb/s) 1 x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports) 2 x USB 2.0 Header (each header supports 2 USB 2.0 ports) 1 x 8-Pin Power Connector 1 x 24-Pin Power Connector 1 x CPU Fan Connector 1 x CPU water cooling connector (CPU_OPT) 1 x System Fan Connector 1 x Front Panel Header 1 x Front Audio Header 1 x Speaker Header 1 x Clear CMOS Header 1 x COM Port Header 1 x TPM Header 2 x LED Header (5V) 1 x LED Header (12V)
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU Fan Control CPU/DDR Voltage Monitoring
DIMENSION	Micro ATX Form Factor Dimension: 22.1cm x 23.5cm (W x L)
OS SUPPORT	Supports Windows 10(64bit)/ 11(64bit) ※Biostar reserves the right to add or remove support for any OS with or without notice.
BUNDLE SOFTWARE	BullGuard
ACCESSORIES	2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide 1 x M.2 Anchor

OVERVIEW	
	AMD A620A chipset AMD A620A chipset provides a simple, stable platform and more than enough connectivity and bandwidth options to satisfy both demanding home users and media aficionados.
	HD Audio Provides high quality sound with minimal loss of audio fidelity.

	Hi-Fi Ground BIOSTAR Hi-Fi Ground (Golden Line) is noise-blocking multi-layer PCB design to isolates analog audio signals from digital sources. Unique PCB layout is ideal for exceptional clarity and high fidelity sound.
	Hi-Fi AMP The built-in amplifier can drive major high-end headphones with over 100dB loads and offer wide band-width, low noise, high slew rate and low distortion audio source from front panel I/O. Gaming enthusiasts can enjoy a fuller range of dynamic sound with crisper details and less distortion.
	Smart Ear Smart EAR is a windows-based audio utility which allows you to easily adjust system volume. With its user-friendly GUI, you can also increase or decrease impedance setting (Low/High Gain) to optimize your headphone performance. You can easily enjoy high-quality and awesome sound.
	HDMI® 4K2K The new 4K2K resolution enables high-definition image display with four times the resolution of full HD, 4K2K display is faithfully express bright, highly detailed content that fills the entire screen with lifelike images. Connectivity with PCs via a single HDMI® cable for displaying 4K2K data.
	DX12 DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.
	SATAIII 6Gbps SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.
	DDR5 DDR5 provides 50% higher bandwidth than DDR4, the frequency can be up to 6000+(OC)MHz, and can boasts the largest memory capacity available. It also supports dual channels and has lower power consumption, which can provide better performance and experience for overclockers.
	PCIe 4.0 PCIe 4.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 16GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 3.0, while preserving compatibility with software and mechanical interfaces.
	PCIe 4.0 M.2 PCIe 4.0 M.2 delivers the highest bandwidth and lower latency. It is 2 times faster compared with PCIe 3.0 M.2 .

	USB 3.2 Gen1 Type-A USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.
	S-Hyper PWM The S-Hyper PWM has DCR current sensing architecture and lossless characteristic, offering excellent precision in delivering stable power with 100% fixed voltage to ensure that critical components of the motherboard are under protected with the maximum performance and reliability.
	Super Durable Solid Caps The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.
	Iron Slot Protection The exclusive Iron Slot Protection can reinforce PCI-E x16 slots to handle heavier graphics cards, prevent bending, and extend longevity of the slot, making the new-gen RACING Series much more robust.
	Moistureproof PCB The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moistureproof PCB meets high density and high reliability requirements for moisture proof.
	ESD Protection ESD (Electrostatic Discharge) is the major factor to destroy the PC by electrical overstress (EOS) condition. ESD occurred by PC users when touch any devices connect to a PC, which may result in damage to the motherboard or parts. ESD protection is designed to protect the motherboard and equipment from damage by EOS.
	OC / OV / OH Protection OC / OV / OH Protection design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect your system.
	VIVID LED DJ New VIVID LED DJ with more customizability and options to control multiple RGB/ARGB LED lighting zones independently. Users can control color, speed and brightness for different modes at ease.
	UEFI BIOS Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.

	BIO-Flasher BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.
	A.I FAN With A.I FAN users can ensure that their gaming PC can maintain its performance while staying cool. According to different cooling needs and usage scenarios, users can control speed modes. Allows users to have more customizability of fan modes and automatically detects different temperatures to make fan operate at defined speed for optimal cooling performance.
	LED ROCK ZONE LED ROCK ZONE comes with the RGB 12V LED header and Digital 5V LED header which offer more colorful lighting options to DIY lovers. Adjusting the color of LED and changing system colors by VIVID LED DJ will make you fully enjoy the process of PC modding developing your personal style.
	CPU OPT BIOSTAR offers one more fan header which is called CPU OPT. Users can use it to connect any kind of water coolers for a liquid cooling system. Keep your computer stable and enjoy your machine at the utmost potential.
	BIOSTAR RGB SYNC BIOSOTAR RGB SYNC is designed to create your personalized lighting effects. Let all the RGB peripherals and components sync together.
	Debug LED Debug LED helps you identify any issues going with your board or hardware. When error occurs, the corresponding LED lights will inform you on the status of your board or hardware to shorten the test time effectively.
	A.I TP Control A.I TP Control is designed for overclockers. It provides a user-friendly BIOS environment that overclockers can adjust the temperature setting to keep your PC safe and enjoy extreme overclocking performance.
	Smart Update Biostar Smart Update is a utility that can help users run online update. It can download the drivers for your motherboard from Biostar official website and install them automatically.
	SMART BIOS UPDATE The easiest way to update the BIOS is provided. Connect the USB driver to the SMART BIOS USB port to update.



HDMI®

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*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!



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