

# A620M-HDV/M.2+



A620



## PRODUCT BRIEF :

- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors
- 6+1+1 Power Phase, Dr.MOS
- Supports DDR5 6400+ MHz (OC)
- 1 PCIe 4.0 x16, 2 PCIe 3.0 x1, 1 M.2 Key E for WiFi
- Integrated AMD RDNA™ 2 Graphics \*1
- Graphics Output Options: HDMI, DisplayPort
- Realtek ALC897 7.1 CH HD Audio Codec, Nahimic Audio
- 4 SATA3, 2 Hyper M.2 (PCIe Gen4x4)
- 6 USB 3.2 Gen1 (3 Rear, 1 Rear Type-C, 2 Front)
- Realtek Gigabit LAN
- Supports ASRock Auto Driver Installer, BIOS Flashback

\*1 Actual support may vary by CPU

### I/O OVERVIEW



### 6 + 1 + 1 Power Phase Design + Dr. MOS

Vcore with Dr.MOS design, delivering smoother and neater power to the CPU.



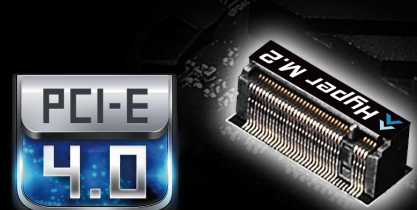
### USB 3.2 Gen1 Type-C

The USB 3.2 Gen1 Type-C provides a blazing fast data transfer interface with reversible USB Type-C design that fits the connector either way.



### Hyper M.2 For SSD

Supports the next generation PCI Express 4.0 M.2 SSDs, it is capable of perform twice the speed compared to previous 3<sup>rd</sup> generation.



### Auto Driver Installer

The LAN driver has already prepacked in BIOS ROM, simply follow the instructions and install all necessary drivers automatically.



### M.2 (KEY E) For WiFi

Besides the onboard LAN port, users may also choose wireless connections by M.2 (Key E) slot.



\*WiFi Module is not included.

### Nahimic Audio

Optimized to who is looking for an outstanding sound experience in high definition.



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## Detail Specification

<b>Platform</b>	- Micro ATX Form Factor: 9.6-in x 8.9-in, 24.4 cm x 22.6 cm	<b>Rear Panel I/O</b>	- 2 x Antenna Mounting Points - 1 x HDMI Port - 1 x DisplayPort 1.4 - 1 x USB 3.2 Gen1 Type-C Port - 3 x USB 3.2 Gen1 Type-A Ports - 2 x USB 2.0 Ports - 1 x RJ-45 LAN Port - 1 x BIOS Flashback Button - HD Audio Jacks: Line in / Front Speaker / Microphone
<b>Unique Feature</b>	Superb Productivity - Dual Channel DDR5 Rock-Solid Durability - 6+1+1 Power Phase, 50A Dr.MOS for VCore EZ Update - BIOS Flashback Button - ASRock Auto Driver Installer EZ Troubleshooter - ASRock Post Status Checker	<b>Storage</b>	CPU: - 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode* - 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode*  Chipset: - 4 x SATA3 6.0 Gb/s Connectors  * Supports NVMe SSD as boot disks
<b>CPU</b>	- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors	<b>RAID</b>	- Supports RAID 0, RAID 1 and RAID 10 for SATA storage devices - Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices* * Requires additional M.2 NVMe expansion cards to support RAID 10
<b>Chipset</b>	- AMD A620	<b>Connector</b>	- 1 x SPI TPM Header - 1 x Power LED and Speaker Header - 1 x CPU Fan Connector (4-pin)* - 3 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)** - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector - 1 x Front Panel Audio Connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) - 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) * CPU_FAN1 supports the fan power up to 1A (12W). ** CHA_FAN1~3/WP support the fan power up to 2A (24W). ** CHA_FAN1~3/WP can auto detect if 3-pin or 4-pin fan is in use.
<b>Memory</b>	- Dual Channel DDR5 Memory Technology - 2 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 6400+(OC)* - Max. capacity of system memory: 64GB - Supports Extreme Memory Profile (XMP) and EXTended Profiles for Overclocking (EXPO) memory modules * Please refer to Memory Support List on ASRock's website for more information. ( <a href="http://www.asrock.com/">http://www.asrock.com/</a> )	<b>BIOS Feature</b>	- 256Mb AMI UEFI Legal BIOS with GUI support
<b>Expansion Slot</b>	CPU: - 1 x PCIe 4.0 x16 Slot (PCIe1), supports x16 mode* Chipset: - 2 x PCIe 3.0 x1 Slots (PCIe2 and PCIe3)* - 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module  * Supports NVMe SSD as boot disks - 15μ Gold Contact in VGA PCIe Slot (PCIe1)	<b>Software and UEFI</b>	Software - ASRock Motherboard Utility (A-Tuning) - ASRock XFast LAN * These utilities can be downloaded from ASRock Live Update & APP Shop.  UEFI - ASRock Full HD UEFI - ASRock Auto Driver Installer - ASRock Instant Flash
<b>Graphics</b>	Integrated AMD RDNA™ 2 graphics (Actual support may vary by CPU) - 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz - 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 4K 120Hz	<b>OS</b>	- Microsoft® Windows® 10 64-bit / 11 64-bit
<b>Audio</b>	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec) - Nahimic Audio	<b>Certifications</b>	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
<b>LAN</b>	- Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111H	<b>Accessories</b>	- 1 x User Manual - 1 x I/O Shield - 2 x SATA Data Cables - 3 x Screws for M.2 Sockets
<b>USB</b>	- 1 x USB 3.2 Gen1 Type-C (Rear) - 5 x USB 3.2 Gen1 Type-A (3 Rear, 2 Front) - 6 x USB 2.0 (2 Rear, 4 Front) * All USB ports support ESD Protection		