![ASRock]

A620M-HDV/M.2

AMD SOCKET AM5 | A620 | AMD RYZEN | DDR5 | HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

PRODUCT BRIEF :

· Supports AMD Socket AM5 Ryzen™ 7000 Series Processors
· 4+1+1 Power Phase, Dr.MOS
· Supports DDR5 5600+ 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

· 2 SATA3, 1 Hyper M.2 (PCIe Gen4x4) , 1 M.2 (PCIe Gen3x2)
· 5 USB 3.2 Gen1 (2 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

Dr. MOS
Intelligently delivering higher current and driving up to 50A continuous current for each phase, thus providing improved thermal result and superior performance.
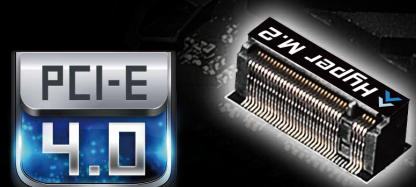
USB 3.2 Gen1 Type-C
The USB 3.2 Gen1 Type-C provides a blazing fast data transfer interface with reversible USB Type-C design that fits the connector either way.

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 3rd 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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ASRock®

Detail Specification

Platform	- Micro ATX Form Factor: 9.6-in x 8.9-in, 24.4 cm x 22.6 cm - 2oz Copper PCB	**Rear Panel I/O**	- 2 x Antenna Mounting Points - 1 x HDMI Port - 1 x DisplayPort 1.4 - 1 x USB 3.2 Gen1 Type-C Port - 2 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

Unique Feature	Superb Productivity
	    - Dual Channel DDR5
	Rock-Solid Durability
	    - 4+1+1 Power Phase, 50A Dr.MOS for VCore
	EZ Update
	    - BIOS Flashback Button
	    - ASRock Auto Driver Installer
	EZ Troubleshooter
	    - ASRock Post Status Checker		

		Storage	CPU: - 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode* Chipset: - 1 x M.2 Socket (M2_2, Key M), supports type 2260/2280 SATA3 6.0 Gb/s & PCIe Gen3x2 (16 Gb/s) modes* - 2 x SATA3 6.0 Gb/s Connectors * Supports NVMe SSD as boot disks
CPU	- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors		
Chipset	- AMD A620		
Memory	- Dual Channel DDR5 Memory Technology - 2 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 5600+(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. (http://www.asrock.com/)	**RAID**	- Supports RAID 0 and RAID 1 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
		Connector	- 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.
Expansion Slot	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)		
Graphics	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	**BIOS Feature**	- 256Mb AMI UEFI Legal BIOS with GUI support
		Software and UEFI	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
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec) - Nahimic Audio		
LAN	- Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111H		
		OS	- Microsoft® Windows® 10 64-bit / 11 64-bit
USB	- 1 x USB 3.2 Gen1 Type-C (Rear) - 4 x USB 3.2 Gen1 Type-A (2 Rear, 2 Front) - 6 x USB 2.0 (2 Rear, 4 Front) * All USB ports support ESD Protection	**Certifications**	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
		Accessories	- 1 x User Manual - 1 x I/O Shield - 2 x SATA Data Cables - 3 x Screws for M.2 Sockets