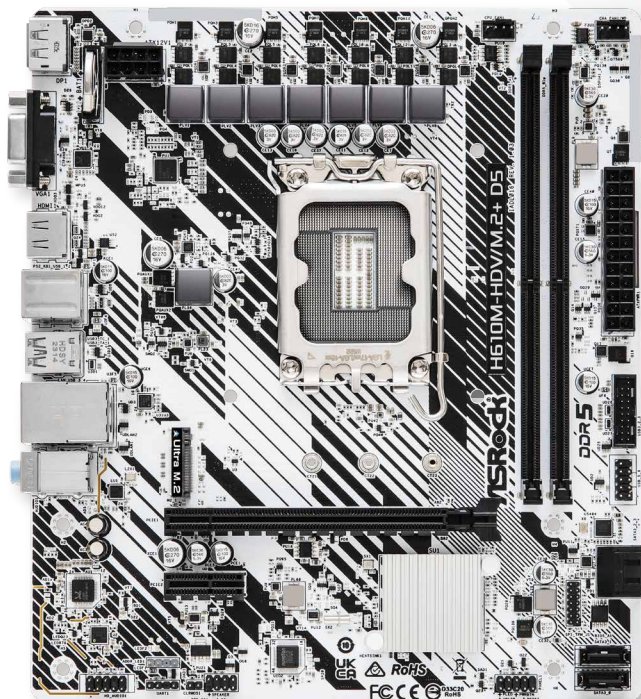




H610M-HDV/M.2+ D5



PRODUCT BRIEF :

- Supports 14th, 13th & 12th Gen Intel® Core™ Processors (LGA1700)
- 6+1+1 Power Phase
- Supports DDR5 5600MHz*
- 1 PCIe 4.0 x16, 1 PCIe 3.0 x1
- Graphics Output Options: HDMI, DisplayPort, D-Sub
- Realtek ALC897 7.1 CH HD Audio Codec
- 4 SATA3, 1 Ultra M.2 (PCIe Gen3 x4)
- 1 USB 3.2 Gen1 Type-C (Rear), 3 USB 3.2 Gen1 Type-A (1 Rear, 2 Front), 6 USB 2.0 (4 Rear, 2 Front)
- Realtek Gigabit LAN
- Supports ASRock Auto Driver Installer

* Actual support may vary by CPU generation.

I/O OVERVIEW



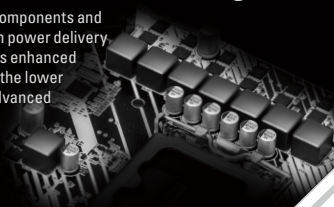
Ultra M.2 For SSD

The PCIe Gen3 x4 Ultra M.2 slot that delivers up to 32Gb/s transfer speed.



6+1+1 Power Phase Design

Featuring sturdy components and completely smooth power delivery to the CPU. It offers enhanced performance with the lower temperature for advanced gamers as well.



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.



3 Graphics Outputs

Complete with all three types of most used connectors! Packed with a D-Sub + DisplayPort + HDMI combo.



Polychrome RGB

The RGB led header allows user to create unique PC style easily.



Auto Driver Installer

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



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Detail Specification

Platform	- Micro ATX Form Factor: 8.66-in x 7.6-in, 22.0 cm x 19.3 cm	Rear Panel I/O	- 1 x PS/2 Mouse/Keyboard Port - 1 x D-Sub Port - 1 x HDMI Port - 1 x DisplayPort 1.4 - 1 x USB 3.2 Gen1 Type-C Port - 1 x USB 3.2 Gen1 Type-A Port - 4 x USB 2.0 Ports - 1 x RJ-45 LAN Port - HD Audio Jacks: Line in / Front Speaker / Microphone
Unique Feature	Superb Productivity - Dual Channel DDR5 Rock-Solid Durability - 6+1 Power Phase EZ Update - ASRock Auto Driver Installer	Storage	Chipset: - 1 x Ultra M.2 Socket (M2_1, Key M), supports type 2242/2260/2280 PCIe Gen3x4 (32 Gb/s) mode* - 4 x SATA3 6.0 Gb/s Connectors * Supports NVMe SSD as boot disks
CPU	- Supports 14 th , 13 th & 12 th Gen Intel® Core™ Processors (LGA1700) - Supports Intel® Hybrid Technology - Supports Intel® Turbo Boost Max 3.0 Technology	Connector	- 1 x SPI TPM Header - 1 x Chassis Intrusion and Speaker Header - 1 x Addressable LED Header* - 1 x CPU Fan Connector (4-pin)** - 1 x Chassis/Water Pump Fan Connector (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 - 1 x USB 2.0 Header (Supports 2 USB 2.0 ports) - 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) * Support in total up to 5V/3A, 15W LED Strip ** CPU_FAN1 supports the fan power up to 1A (12W). *** CHA_FAN1/WP supports the fan power up to 2A (24W). *** CHA_FAN1/WP can auto detect if 3-pin or 4-pin fan is in use.
Chipset	- Intel® H610	BIOS Feature	- 128Mb AMI UEFI Legal BIOS with GUI support
Memory	- Dual Channel DDR5 Memory Technology - 2 x DDR5 DIMM Slots - 13 th Gen Intel® Core™ Processors support DDR5 non-ECC, un-buffered memory up to 5600* - 12 th Gen Intel® Core™ Processors support DDR5 non-ECC, un-buffered memory up to 4800* - Max. capacity of system memory: 96GB - Supports Intel® Extreme Memory Profile (XMP) 3.0 * Actual support may vary by CPU * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)	Software and UEFI	Software - ASRock Motherboard Utility (A-Tuning) - ASRock XFast LAN - ASRock Polychrome SYNC * These utilities can be downloaded from ASRock Live Update & APP Shop. UEFI - ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Auto Driver Installer - ASRock Instant Flash
Expansion Slot	CPU: - 1 x PCIe 4.0 x16 Slot (PCIe1), supports x16 mode* Chipset: - 1 x PCIe 3.0 x1 Slot (PCIe2)* * Supports NVMe SSD as boot disks	OS	- Microsoft® Windows® 10 64-bit / 11 64-bit
Graphics	* Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Intel® X® Graphics Architecture (Gen 12) - 1 x HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K 60Hz - 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz - 1 x D-Sub, supports max. resolution up to Full HD (1920x1080) 60Hz	Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)	Accessories	- 1 x User Manual - 1 x I/O Shield - 2 x SATA Data Cables - 1 x Screw for M.2 Socket
LAN	- Gigabit LAN 10/100/1000 Mb/s - Realtek 8111H		
USB	- 1 x USB 3.2 Gen1 Type-C (Rear) - 3 x USB 3.2 Gen1 Type-A (1 Rear, 2 Front) - 6 x USB 2.0 (4 Rear, 2 Front) * All USB ports support ESD Protection		