

ASRock®

H610M-HDV/ M.2 D5 Gen5



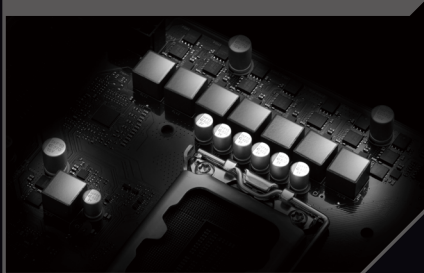
PRODUCT BRIEF :

- Supports 14th, 13th & 12th Gen Intel® Core™ Processors (LGA1700)
- 6+1+1 Power Phase
- 2 x DDR5 DIMMs
- Supports Dual Channel, up to 5600
- 1 PCIe 5.0 x16, 1 PCIe 3.0 x1
- Graphics Output Options: 1 HDMI, 1 DisplayPort, 1 D-Sub
- Realtek ALC897 7.1 CH HD Audio Codec
- 1 Ultra M.2 (PCIe Gen3 x4)
- 4 SATA3
- 4 USB 3.2 Gen1 (2 Rear, 2 Front)
- 6 USB 2.0 (4 Rear, 2 Front)
- Realtek Gigabit LAN



I/O OVERVIEW

6+1+1 Power Phase



Ultra M.2 (PCIe Gen3 x4)



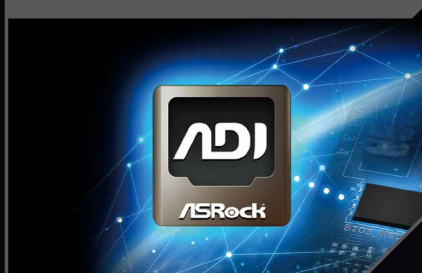
PCIe Gen5 x16 (Reinforced Steel Slot)



3 Graphics Outputs



Auto Driver Installer



Realtek Gigabit LAN



Detail Specification

Platform	<ul style="list-style-type: none"> - Micro ATX Form Factor: 9.6-in x 7.6-in, 24.4 cm x 19.3 cm - Solid Capacitor design 	Rear Panel I/O	<ul style="list-style-type: none"> - 1 x PS/2 Mouse/Keyboard Port - 1 x D-Sub Port - 1 x HDMI Port - 1 x DisplayPort 1.4 - 2 x USB 3.2 Gen1 Ports - 4 x USB 2.0 Ports - 1 x RJ-45 LAN Port - HD Audio Jacks: Line in / Front Speaker / Microphone
Unique Feature	<ul style="list-style-type: none"> Superb Productivity <ul style="list-style-type: none"> - PCIe Gen5 (Graphics) - Dual Channel DDR5 Rock-Solid Durability <ul style="list-style-type: none"> - 6+1+1 Power Phase - ASRock Intel® 4-Layer Memory POOL (Planes on Outer Layers) Technology EZ Update <ul style="list-style-type: none"> - ASRock Auto Driver Installer 	Storage	<p>Chipset:</p> <ul style="list-style-type: none"> - 1 x Ultra M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen3x4 (32 Gb/s) mode* - 4 x SATA3 6.0 Gb/s Connectors <p>* Supports NVMe SSD as boot disks</p>
CPU	<ul style="list-style-type: none"> - Supports 14th, 13th & 12th Gen Intel® Core™ Processors (LGA1700) - Supports Intel® Hybrid Technology - Supports Intel® Turbo Boost Max 3.0 Technology 	Connector	<ul style="list-style-type: none"> - 1 x SPI TPM Header - 1 x Chassis Intrusion and Speaker Header - 1 x CPU Fan Connector (4-pin) (Smart Fan Speed Control)* - 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) <p>* 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.</p>
Chipset	<ul style="list-style-type: none"> - Intel® H610 	BIOS Feature	<ul style="list-style-type: none"> - 128Mb AMI UEFI Legal BIOS with GUI support
Memory	<ul style="list-style-type: none"> - Dual Channel DDR5 Memory Technology - 2 x DDR5 DIMM Slots - 14th and 13th Gen Intel® Core™ Processors support DDR5 non-ECC, un-buffered memory up to 5600* - 12th Gen Intel® Core™ Processors support DDR5 non-ECC, un-buffered memory up to 4800* - Max. capacity of system memory: 128GB - Supports Intel® Extreme Memory Profile (XMP) 3.0 <p>* Actual support may vary by CPU * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)</p>	Software and UEFI	<p>Software</p> <ul style="list-style-type: none"> - ASRock Motherboard Utility (A-Tuning) <p>* These utilities can be downloaded from ASRock Live Update & APP Shop.</p> <p>UEFI</p> <ul style="list-style-type: none"> - ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Auto Driver Installer - ASRock Instant Flash
Expansion Slot	<p>CPU:</p> <ul style="list-style-type: none"> - 1 x PCIe 5.0 x16 Slot (PCIe1), supports x16 mode* <p>Chipset:</p> <ul style="list-style-type: none"> - 1 x PCIe 3.0 x1 Slot (PCIe2)* <p>* Supports NVMe SSD as boot disks</p>	OS	<ul style="list-style-type: none"> - Microsoft® Windows® 10 64-bit / 11 64-bit
Graphics	<p>* Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.</p> <ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
Audio	<ul style="list-style-type: none"> - 7.1 CH HD Audio (Realtek ALC897 Audio Codec) 	Accessories	<ul style="list-style-type: none"> - 1 x I/O Shield - 2 x SATA Data Cables - 1 x Screw for M.2 Socket
LAN	<ul style="list-style-type: none"> - Gigabit LAN 10/100/1000 Mb/s - Realtek 8111H 		
USB	<p>Chipset:</p> <ul style="list-style-type: none"> - 4 x USB 3.2 Gen1 (2 Rear, 2 Front) - 6 x USB 2.0 (4 Rear, 2 Front) 		