

H810M-P Gen5



PRODUCT BRIEF :

- Supports Intel® Core™ Ultra Processors (Series 2) (LGA1851)
- 6+1+1+1 Power Phase
- 2 x DDR5 DIMMs
- Supports Dual Channel, up to 6400
- 1 PCIe 5.0 x16, 1 PCIe 4.0 x1, 1 M.2 Key E for WiFi
- Graphics Output Options: 1 HDMI, 1 DisplayPort
- Realtek ALC897 7.1 CH HD Audio Codec
- 1 Hyper M.2 (PCIe Gen4x4)
- 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

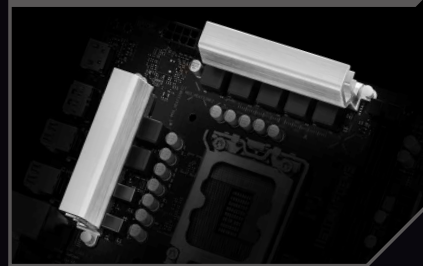
PCIe Gen5 x16 (Reinforced Steel Slot)



Hyper M.2 (PCIe Gen4 x4)



Aluminum VRM Heatsinks



M.2 Key E for WiFi



Polychrome RGB



Better M.2 Socket Location



Detail Specification

Platform	- Micro ATX Form Factor: 9.6-in x 7.6-in, 24.4 cm x 19.3 cm	Rear Panel I/O	- 2 x Antenna Mounting Points - 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	<p>Superb Productivity</p> <ul style="list-style-type: none"> - PCIe Gen5 (Graphics) - Dual Channel DDR5 <p>Rock-Solid Durability</p> <ul style="list-style-type: none"> - 6+1+1+1+1 Power Phase - ASRock Intel® 4-Layer Memory POOL (Planes on Outer Layers) Technology <p>EZ Update</p> <ul style="list-style-type: none"> - ASRock Auto Driver Installer 	Storage	<p>Chipset:</p> <ul style="list-style-type: none"> - 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen4x4 (64 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 Intel® Core™ Ultra Processors (Series 2) (LGA1851) - Supports Intel® Hybrid Technology - Supports Intel® Turbo Boost Max 3.0 Technology - Supports Intel® Thermal Velocity Boost (TVB) - Supports Intel® Adaptive Boost Technology (ABT) - Integrated NPU for dedicated AI acceleration 	Connector	<ul style="list-style-type: none"> - 1 x SPI TPM Header - 1 x Power LED and Speaker Header - 1 x RGB LED Header* - 2 x Addressable LED Headers** - 1 x CPU Fan Connector (4-pin) (Smart Fan Speed Control)*** - 1 x Chassis 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>* Supports in total up to 12V/3A, 36W LED Strip ** Support in total up to 5V/3A, 15W LED Strip *** CPU_FAN1 supports the fan power up to 1A (12W). **** CHA_FAN1 supports the fan power up to 3A (36W). **** CHA_FAN1 can auto detect if 3-pin or 4-pin fan is in use.</p>
Chipset	- Intel® H810	BIOS Feature	- 256Mb AMI UEFI Legal BIOS with GUI support
Memory	<ul style="list-style-type: none"> - Dual Channel DDR5 Memory Technology - 2 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 6400* - Supports Clocked Unbuffered DIMM (CUDIMM) - Max. capacity of system memory: 128GB - Supports Intel® Extreme Memory Profile (XMP) 3.0x <p>* 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) - ASRock Polychrome SYNC <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 4.0 x1 Slot (PCIe2)* - 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module <p>* Supports NVMe SSD as boot disks</p>	OS	- Microsoft® Windows® 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® LPG Graphics Architecture - 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 8K 60Hz / 5K 120Hz 	Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
Audio	- 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 RTL8111H 		
USB	<p>Chipset:</p> <ul style="list-style-type: none"> - 4 x USB 3.2 Gen1 Type-A (2 Rear, 2 Front) - 6 x USB 2.0 (4 Rear, 2 Front) <p>* All USB ports support ESD Protection</p>		