

mITX-H810E (MH810EI)

Mini-ITX with Intel® H810 Chipset, support Intel® Core™ Ultra processors (Series 2), Dual channel DDR5 memory, PCIe, 6 x COM, 8 x USB, 2 x SATA 6Gb/s



Specifications

Form Factor	Mini-ITX 170W x 170D (mm)
CPU	Support Intel® Core™ Ultra processors (Series 2) TDP under 65W
Socket	1 x LGA 1851
Chipset	Intel® H810 Chipset
Memory	2 x DDR5 SO-DIMM/CSO-DIMM sockets, Max. Capacity 128 GB Support Dual channel DDR5 5600/6400 MHz memory modules
Ethernet	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)
Video	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1 port, supporting a maximum resolution of 7680x4320 @60Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz 1 x VGA port, supporting a maximum resolution of 1920x1080 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz (3 independent display outputs)
Audio	Realtek® ALC897
Storage	2 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen 4x16) 1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key

Features

- Mini-ITX form factor
- Support Intel® Core™ Ultra processors (Series 2)
- Intel® H810 Chipset
- Dual Channel DDR5, 2 x SO-DIMMs/CSO-DIMMs
- 1 x 2.5GbE LAN Port
- 1 x GbE LAN Port
- 2 x SATA 6Gb/s Ports
- HDMI, DP, VGA, LVDS for multiple display
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 1 x COM Port (RS-232/422/485)
- 4 x COM Ports (RS-232)

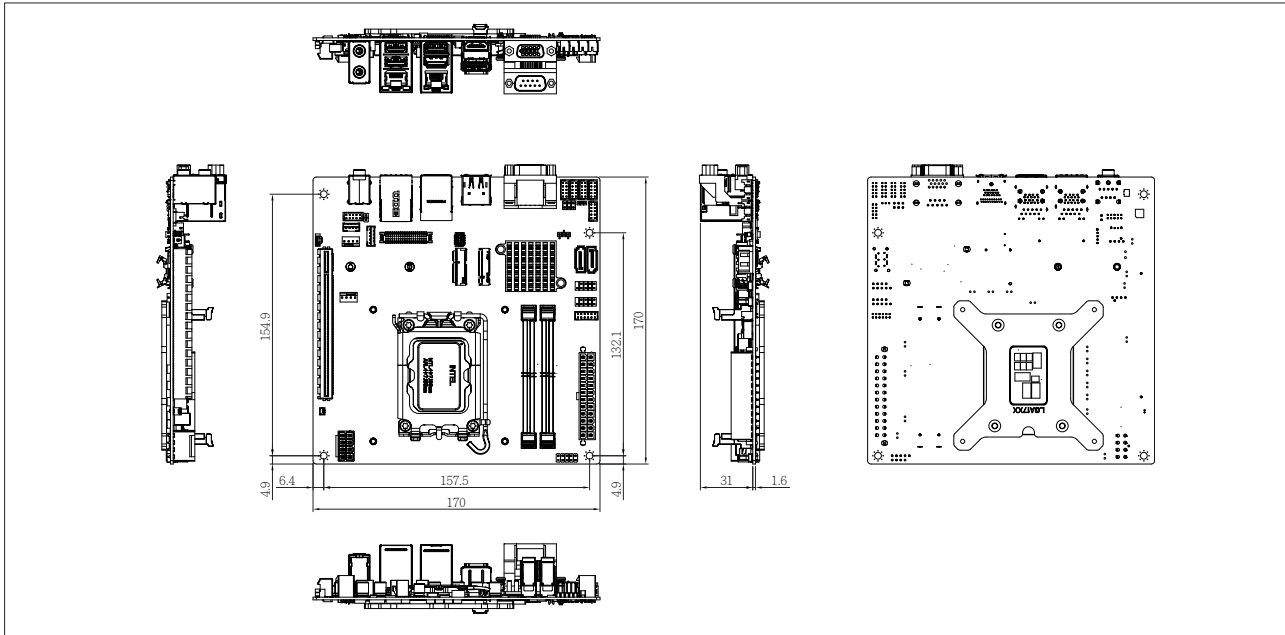
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232/422/485) 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight control header 1 x Clear CMOS jumper 1 x Buzzer header 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display port 1 x VGA 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1
TPM	Onboard TPM 2.0 security chip Infineon SLB9670VQ2.0
OS Compatibility	Windows® 10/11 (x64)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 60°C @ 20-95% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 85°C @ 95% (non-condensing)
Packing Content	Carton size: 465 x 351 x 217 (mm) Packing Capacity: 10pcs Single Box size : 221 x 178 x 65 (mm) Including: IO Shield x 1 (P/N: 12AIO-MH610E-00R) SATA Cable x 1 (P/N: 12CF1-2SAT1B-01R)
Order Information	9MH810EIMR-SI (Box packing)

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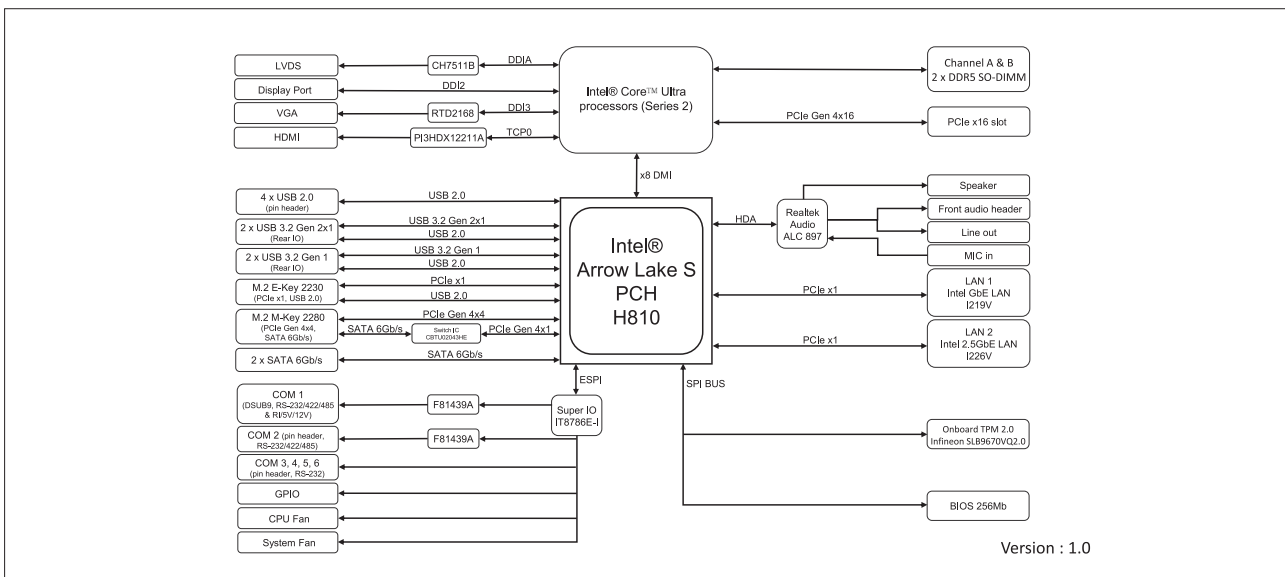
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Dimension (Unit: mm)

2025/09/19



Block Diagram



Optional Kit

Part No.	Description	Quantity
25ST0-037820-Y0R	CPU Cooler	1
12KRH-0A1700-00R	CPU Cooler Backplate	1