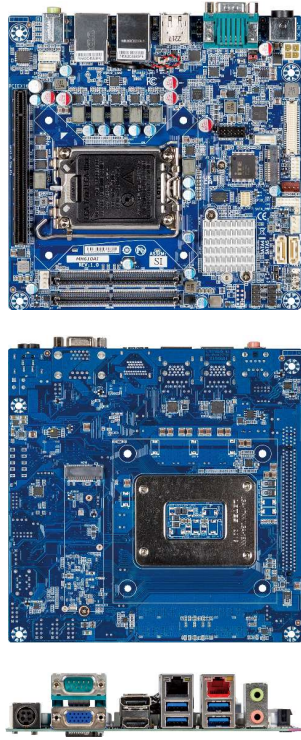


# mITX-H610A (MH610AI)

Mini-ITX with Intel® H610 Chipset, support 13th/12th Generation Intel® Core™ Processors, Dual channel DDR4 memory, PCIe, 2 x COM, 8 x USB, 2 x SATA 6Gb/s



## Specifications

|             |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor | Mini-ITX<br>170W x 170D (mm)                                                                                                                                                                                                                                                                                                                                                |
| CPU         | Support for 13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1700 package<br>TDP under 65W                                                                                                                                                                                                                                         |
| Socket      | 1 x LGA 1700                                                                                                                                                                                                                                                                                                                                                                |
| Chipset     | Intel® H610 Chipset                                                                                                                                                                                                                                                                                                                                                         |
| Memory      | 2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB<br>Support Dual channel DDR4 3200 MHz memory modules                                                                                                                                                                                                                                                                          |
| Ethernet    | 1 x GbE LAN Port (Intel® I219V)<br>1 x 2.5GbE LAN Port (Intel® I226V)                                                                                                                                                                                                                                                                                                       |
| Video       | Integrated Graphics Processor - depends on CPU:<br>1 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz<br>1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz<br>1 x VGA port, supporting a maximum resolution of 1920x1200 @60Hz<br>1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz<br><br>(3 independent display outputs) |
| Audio       | Realtek® Audio Codec                                                                                                                                                                                                                                                                                                                                                        |
| Storage     | 2 x SATA 6Gb/s Ports                                                                                                                                                                                                                                                                                                                                                        |

## Features

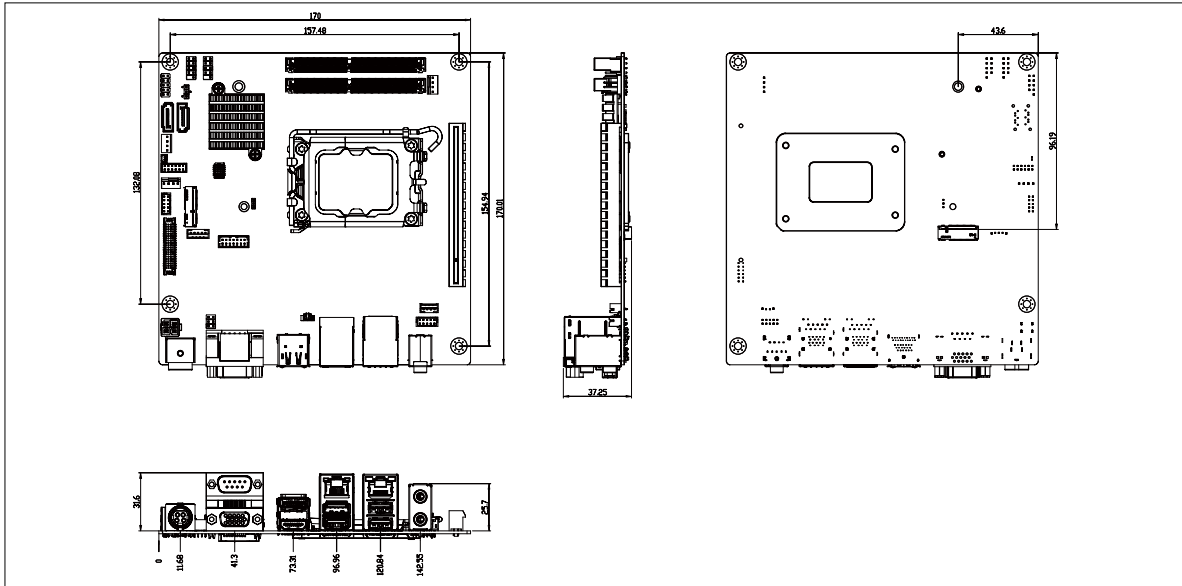
- Mini-ITX form factor
- Support 13th/12th Generation Intel® Core™ Processors
- Intel® H610 Chipset
- Dual Channel DDR4, 2 x SO-DIMMs
- 1 x GbE LAN Port
- 1 x 2.5GbE LAN Port
- 2 x SATA 6Gb/s Ports
- HDMI, Display Port, VGA, LVDS ports for multiple display
- 1 x COM Port (RS-232)
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)

|                      |                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expansion Slots      | 1 x PCIe x16 (Gen4 x16)<br>1 x 2280 M.2 M-Key (PCIe x4)<br>1 x 2230 M.2 E-Key (WiFi/BT)                                                                                                                                                                                                                                                                                                               |
| Internal I/O         | 1 x 4-pin ATX power connector<br>2 x SATA power connectors<br>1 x CPU fan header<br>1 x System fan header<br>1 x Front panel header<br>1 x Front panel audio header<br>1 x 2W Speaker out header<br>4 x USB 2.0 headers<br>1 x COM header (RS-232)<br>1 x GPIO (8 bits) & SMBus header<br>1 x Backlight Control header<br>1 x Clear CMOS jumper<br>1 x Buzzer header<br>1 x AT/ATX mode select jumper |
| Rear I/O             | 2 x Audio Jacks (Line out, Mic in)<br>1 x COM Port (RS-232/422/485 & RI/5V/12V)<br>1 x HDMI<br>1 x Display Port<br>1 x VGA<br>2 x RJ45 LAN Ports<br>4 x USB 3.2 Gen 1<br>1 x DC Jack (+12V/+19V~+24VDC)                                                                                                                                                                                               |
| TPM                  | 1 x TPM header                                                                                                                                                                                                                                                                                                                                                                                        |
| OS Compatibility     | Windows 10/11 (x64)                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating Properties | Operating temperature: 0°C to 60°C<br>Operating humidity: 0-90% (non-condensing)<br>Non-operating temperature: -40°C to 85°C<br>Non-operating humidity: 0%-95% (non-condensing)                                                                                                                                                                                                                       |
| Packing Content      | Carton size: 465 x 351 x 217 (mm)<br>Packing Capacity: 10pcs<br><br>Single Box size: 221 x 178 x 65 (mm)<br><br>Including:<br>IO Shield x 1 (P/N: 12AIO-MQ47EA-10R)<br>SATA power Cable x 1 (P/N: 25CRI-300B01-K1R)                                                                                                                                                                                   |
| Order Information    | 9MH610AIMR-SI (Box packing)                                                                                                                                                                                                                                                                                                                                                                           |

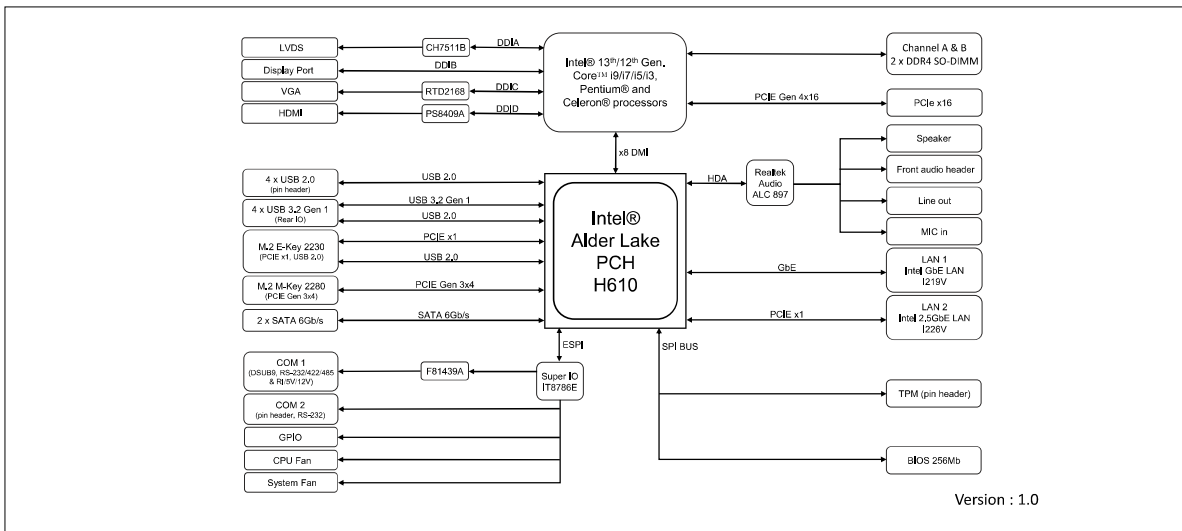
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Dimension (Unit: mm)

2023/04/27



## Block Diagram



Version : 1.0

## Optional Kit

| Part No.         | Description          | Quantity |
|------------------|----------------------|----------|
| 25ST0-037820-Y0R | CPU Cooler           | 1        |
| 12KRH-0A1700-00R | CPU Cooler Backplate | 1        |
| 9CTM010NR-00     | TPM 2.0 module       | 1        |

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