

iTXL-H610C (MH610CT-SI)

Thin Mini-ITX with Intel® H610 Chipset, support 14th/13th/12th Generation Intel® Core™ Processor, Dual Channel DDR5 Memory, 2 x COM, 8 x USB, 2 x SATA 6Gb/s



Features

- Thin Mini-ITX form factor
- Support 14th/13th/12th Generation Intel® Core™ Processors
- Intel® H610 Express chipset
- Dual Channel DDR5, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 2 x SATA 6Gb/s Ports
- HDMI, Display Port, LVDS ports for Multiple Display
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 1 x COM Port (RS-232)
- TPM on board

Specifications

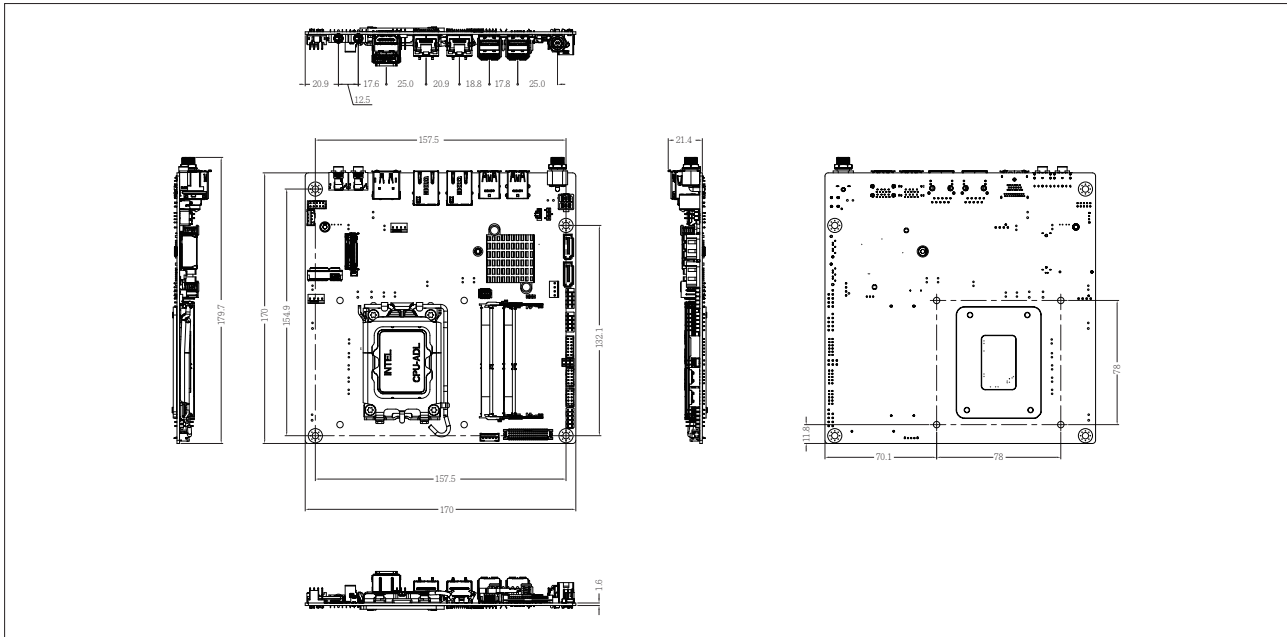
Form Factor	Thin Mini-ITX 170W x 170D (mm)
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3 processors, Pentium® & Celeron® processors in the LGA1700 package TDP under 65W L3 cache varies with CPU
Socket	1 x LGA 1700
Chipset	Intel® H610 Chipset
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual channel DDR5 5600 MHz memory modules
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)
Video	Integrated Graphics Processor - Intel® HD Graphics support: 1 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @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 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key

Internal I/O	1 x 4-pin ATX main power connector 1 x SATA 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 1 x GPIO (8 bits) & SMBus header 4 x USB 2.0 headers 1 x COM header (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Clear CMOS jumper 1 x Backlight Control header 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~24VDC)
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
OS Compatibility	Windows® 11 IoT Enterprise LTSC 2024 (x64) Windows® 10 IoT Enterprise LTSC 2021(21H2) (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: Standard IO Shield x 1 (P/N: 12AIO-MH610A-00R) Low-Profile IO Shield x 1 (P/N: 12AIO-MH610A-10R) SATA Power Cable x 1 (P/N: 25CRI-300B01-K1R)
Order Information	9MH610CTMR-SI (Box Packing)

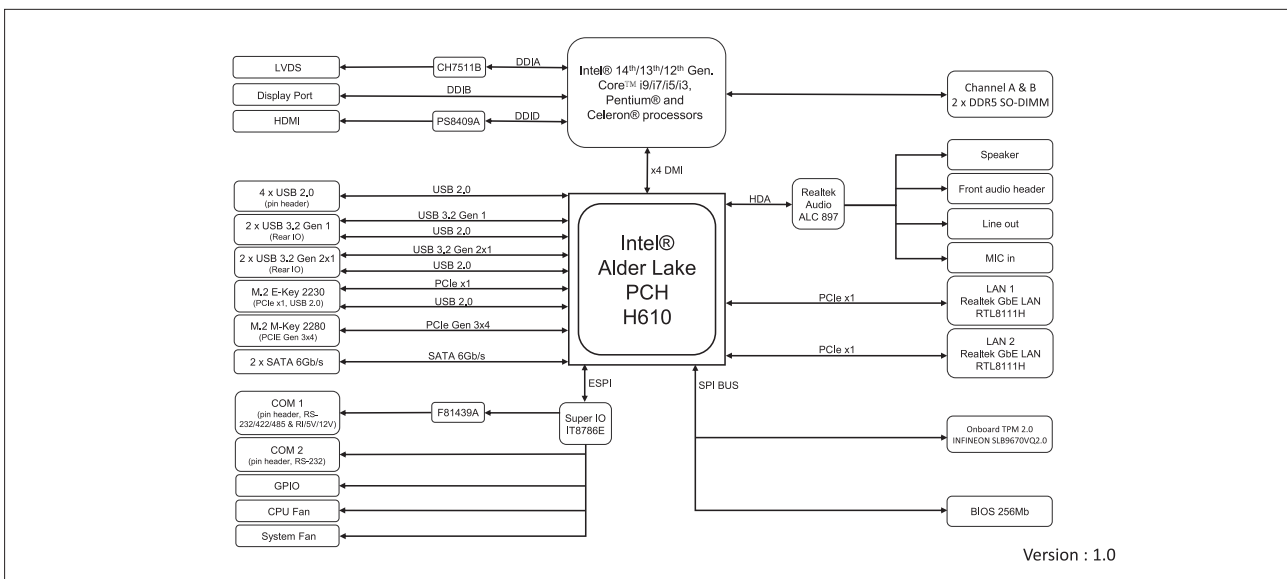
GIGAIPC reserves the right to modify or change technical data without prior notice.

Dimension (Unit: mm)

2026/01/15



Block Diagram



Optional Kit

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

GIGAIPC reserves the right to modify or change technical data without prior notice.