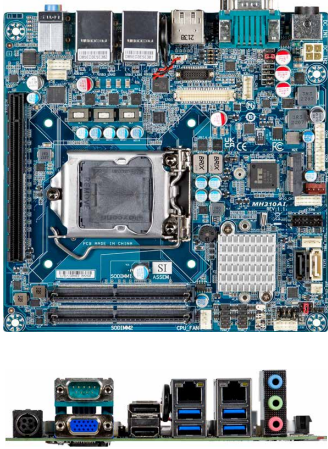


## mITX-H310A (MH310AI)

Mini-ITX with Intel® H310 Chipset, support 9th/8th Generation Intel® Core™ Processors, Dual channel DDR4 memory, PCIe, 4 x COM, 8 x USB, 2 x SATA 6Gb/s



### Specifications

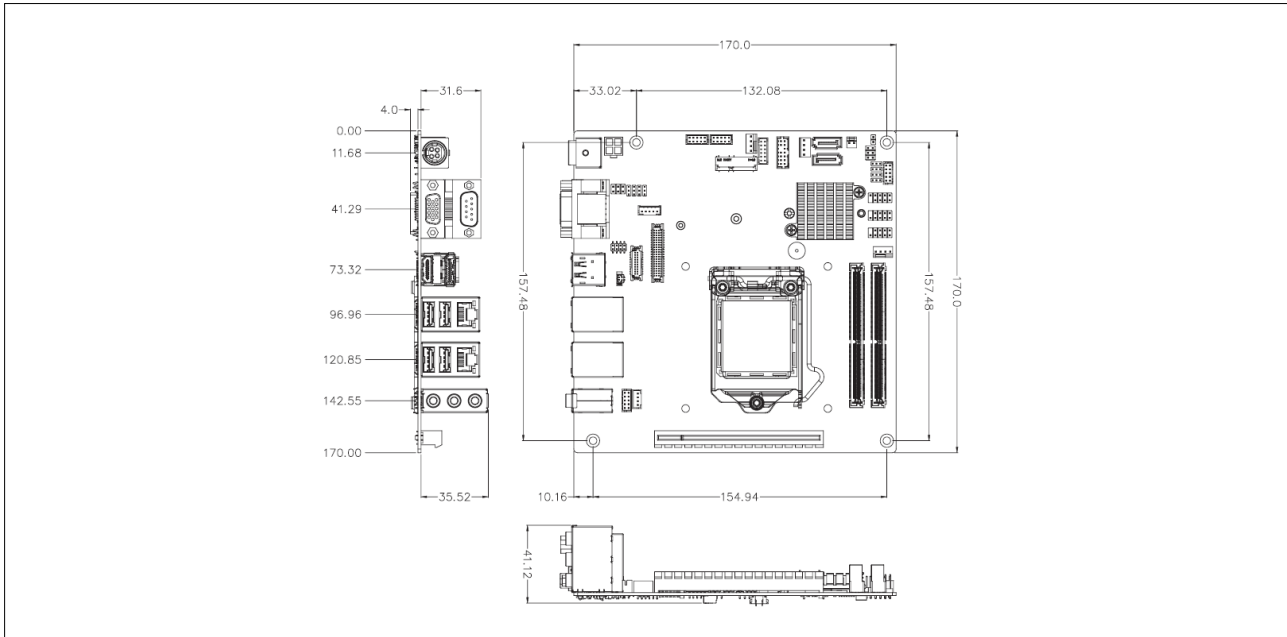
Form Factor	Mini-ITX 170W x 170D (mm)
CPU	Support for 9/8th Generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® processors in the LGA1151 package TDP under 65W L3 cache varies with CPU
Socket	1 x LGA 1151
Chipset	Intel® H310 Express Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Support Dual channel DDR4 2666/2400 MHz memory modules
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Video	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4 port, supporting a maximum resolution of 4096x2160 @30Hz 1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz 1 x VGA port, supporting a maximum resolution of 1920x1200 @60Hz 1 x eDP port, supporting a maximum resolution of 1920x1080 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1080 @60Hz * eDP port is alternative with LVDS port, only one can be worked at the same time  (2 independent display outputs)
Audio	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports
Raid	—
Expansion Slots	1 x PCIe x16 (Gen3 x16) 1 x 2280/2242 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (WiFi/BT)

### Features

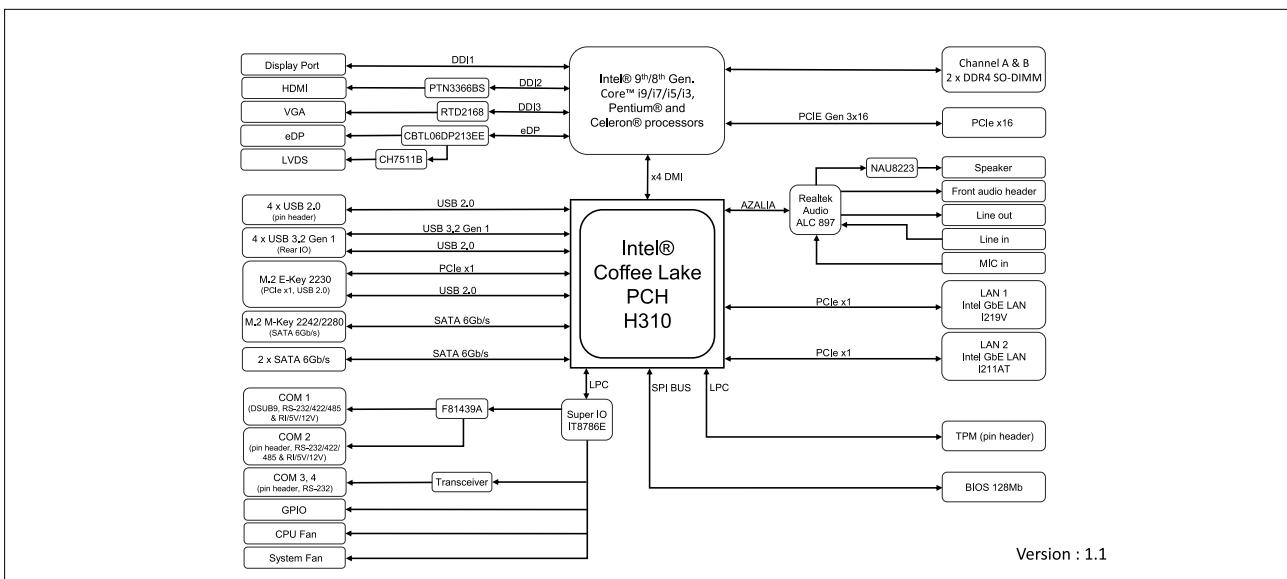
- Mini-ITX form factor
- Support 9th/8th Generation Intel® Core™ Processors
- Intel® H310 Express Chipset
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 2 x SATA 6Gb/s Ports
- HDMI, Display Port, D-Sub, eDP ports for multiple display
- 2 x COM Ports (RS-232/422/485 & RI/5V/12V)
- 2 x COM Ports (RS-232)

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 4 x USB 2.0 headers 2 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8-bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x ATX Control header 1 x AT/ATX mode select jumper
Rear I/O	3 x Audio Jacks (Line in, 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 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V/+24VDC)
TPM	1 x TPM header
OS Compatibility	Windows 10 (x64)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -20°C to 70°C Non-operating humidity: 0%-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 (12AIO-MDH114-00R) SATA power Cable x 1 (25CRI-300B01-K1R) Screw I Head M2.0*L3.5*D5.0 x 1 (P/N: 25KSG-130039-S0R) Screw Stand Off 12L15 x 1 (P/N: 12KSF-F10303-20R) Screw I Head M2x3L x 1 (P/N: 25KSG-130032-S0R)
Order Information	9MH310AIMR-SI (Box Packing)

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



## Block Diagram



## Optional Kit

Part No.	Description	Quantity
25ST0-039520-Y0R	CPU Cooler	1
12KRH-0A1155-30R	CPU Cooler Backplate	1
9CTM000NR-00	TPM 2.0 module	1

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