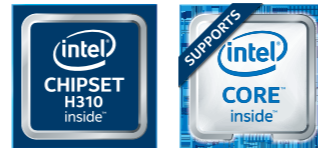


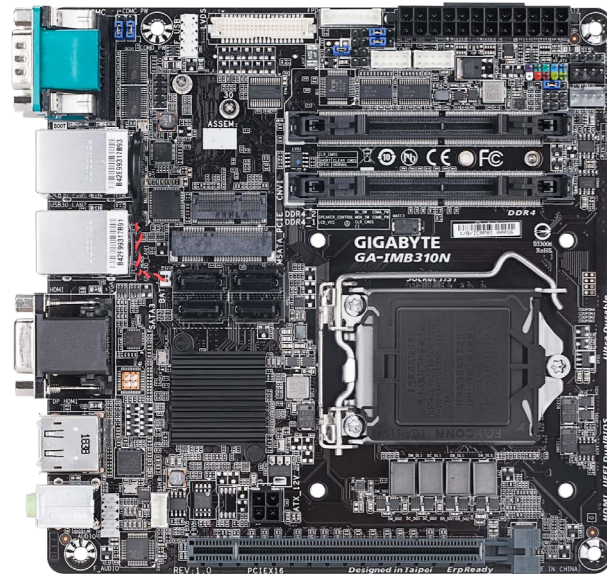
# GIGABYTE™



## GA-IMB310N

### Intel® 8<sup>th</sup>/9<sup>th</sup> Core I Series Embedded Mini ITX MB

Overview



Rear I/O



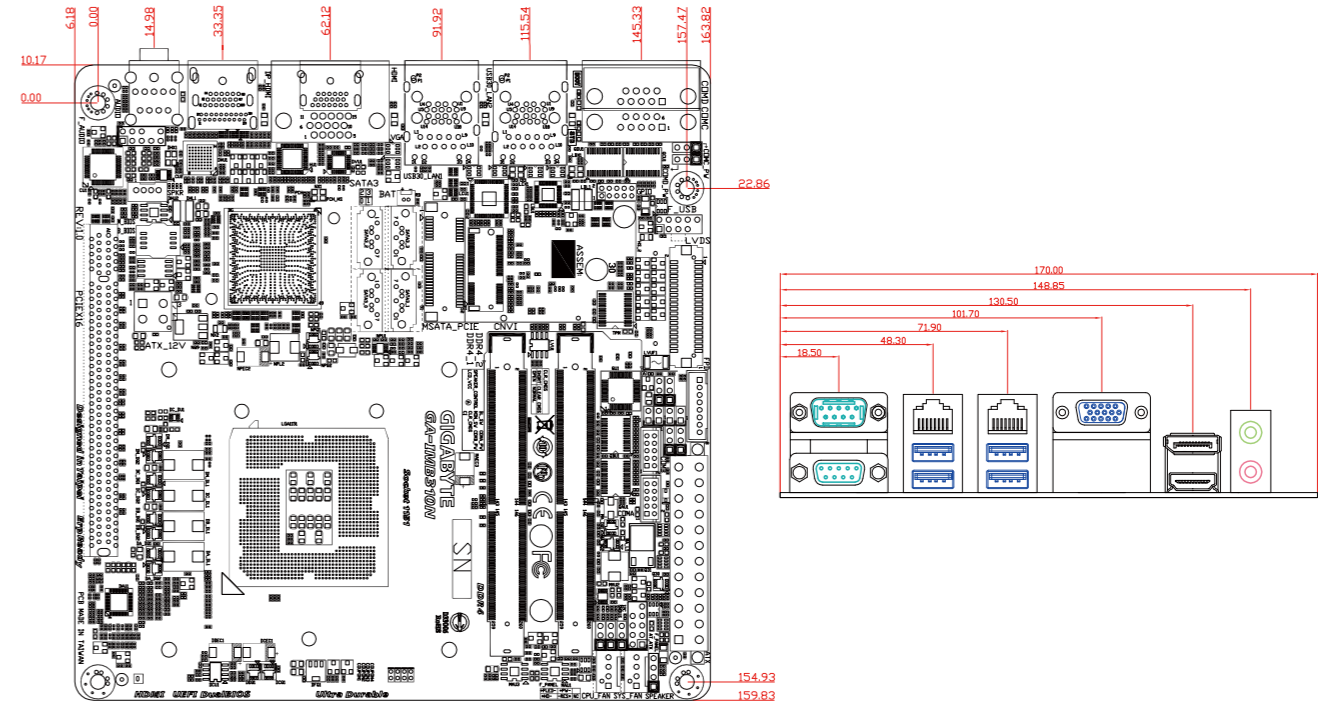
### Product Feature

- Mini ITX Motherboard
- Socket LGA1151 for Intel Core i7/i5/i3/Pentium/Celeron(Coffee lake-S)
- Intel® Gen9.5 Intel® Graphics DX 11/12, OGL4.3/4.4
- Supports Dual Channel DDR4 2133 / 2400MHz, 2 x SO-DIMM, up to 32GB system memory
- 1 x HDMI2.0, 1 x DP Port, 1 x Dual Channel 24-bit LVDS / eDP
- 4 x USB 3.0, 2 x USB 2.0, 4 x SATA3
- 1 x mini-PCIe, 1 x PCIe x16 slot, 1 x M.2 wifi slot, 1 x M.2 SSD
- Gigabit LAN : 2 x Intel Lan
- 1 x TPM Module IC (optional)
- ATX Power Require

### SPEC

Form Factor	Dimensions	Mini-ITX (6.7-in x 6.7-in)/(170 x 170 mm)
Processor System	CPU	Socket LGA1151 for Intel Core i7/i5/i3/Pentium/Celeron (Coffee lake-S support to 65W)
	Chipset	H310
Expansion Slot	PCI	0
	Mini-PCIe	1 x Full size mini-PCIe slot co-lay with mSATA
	PCIe x4 slot	1x PCIe x16 slot
	M.2	1 x M.2 CNVI wifi slot, 1 x M.2 2260/80 Slot for Storage
	SIM	1
Memory	Technology	Dual Channel DDR4 2133/2600 MHz So-DIMM
	Max.	32G
Graphics	Controller	Intel® Gen9.5 Intel® Graphics DX 10*, OGL4.5
	VRAM	Shared Memory
	VGA	Supports max. resolution 1920 x 1200
	LVDS	Yes
	HDMI	HDMI 2.0, max resolution 3840 x 2160@60Hz
	DVI	No
	Display Port	Yes
	Multi Display	Yes (Dual Display)
LAN	Controller	1 x Intel® i211AT, 1 x I219V
SATA	Max DTR	4 x SATA3 (6.0Gb/s)
	VGA	1
Rear I/O	HDMI2.0	1
	Display Port	1
	Ethernet	2
	USB	4 x USB 3.0
	Audio	2 (Mic-in, Line-out)
	Serial	2
	USB	2 x USB 2.0 compliant
Internal Connector	LVDS/Inverter	1
	VGA	0
	Serial	2 x RS-232
	SATA	4 x SATA3 (6.0Gb/s)
	Mini-PCIe	1
	Parallel	0
	Digital I/O	2 in/ 2out
	I2C/SMBUS	1
	SATA PWR Output	0
	Watchdog Timer	Output
Interval		256 segments, 0,1,2...255sec/min
Power Requirements	Input PWR	ATX 4 Pin ATX PWR connector
	Power On	AT/ATX Supported
		AT: Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready
Power consumption	Typical	GT4900T, DDR4 16G, SSD, 2A@ATX
Certification	EMC	CE/FCC
Environment	Operating Temperature	0°C - 60°C

### Mechanism Drawing



### Ordering Information

Model Name	Ordering Information
GA-IMB310N	Socket 1151, HDMI2.0 DP VGA, LVDS, 4 x SATA, Dual LAN, 4 x USB3.0 / 2 x USB2.0, 2 x RS232, 2 x RS232/422/485, Mini PCIe / M.2 Wifi /SSD, PCIe x16, ATX

### Optional Accessories

Part Number	Cable Usage	Description
12CF1-1CM011-01R	COM	1IN1 CB/JST 2*5P/PH2/KIMWELL COM 9MA(PC99)/200mm+SCREW*2
12CF1-2SAT1B-01R	SATA	2IN1 CB/SATA(S)/BLACK/CODE CPU90*180*1/180*180*1/2H*8P/50 CM
24TSE-621PET-01R	Cooler	Low profile CPU cooler

\* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice. \* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration. \* All trademarks and logos are the properties of their respective holders. \* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.