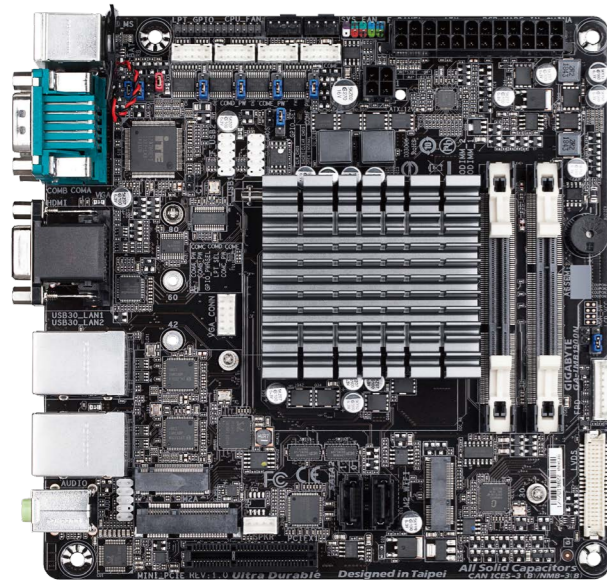


# GIGABYTE™

## GA-IMB1900N

### Intel® Baytrail SoC Embedded Mini ITX MB

Overview



Rear I/O



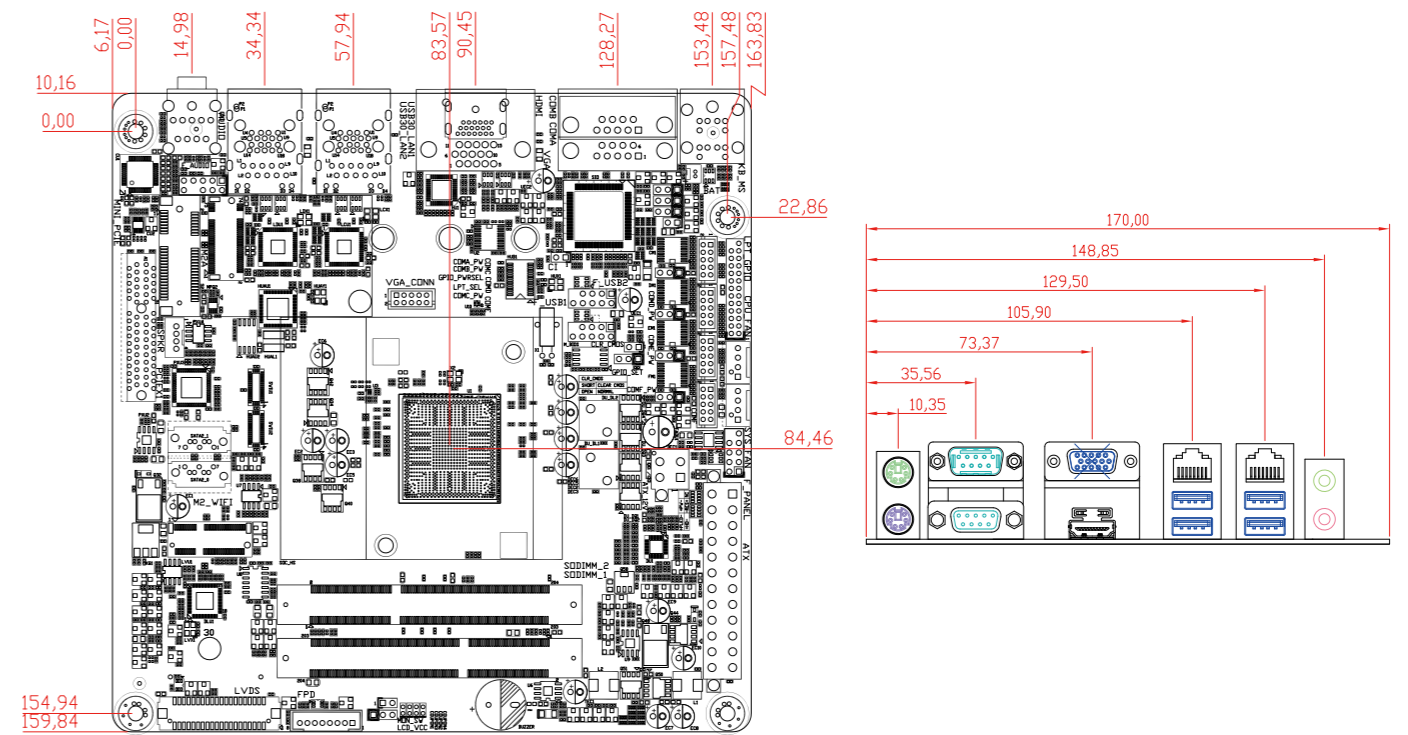
### Product Feature

- Mini ITX
- Intel® Celeron Baytrail SoC Processor
- Integrated Intel® Gen7 Intel Graphics DX 10
- Supports Dual Channel DDR3L 1333MHz, 2 x SO-DIMM, up to 16GB system memory
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA2
- 1 x mini-PCIe, 1 x M.2 SSD, 1 x M.2 Wifi slot
- Gigabit LAN : 2 x Intel i211AT Lan
- 1 x TPM Module IC (Optional)
- ATX Power

### SPEC

Form Factor	PCB Size	Mini-ITX (6.7 x 6.7-in) (170 x 170 mm)
Processor System	CPU	Intel® Celeron Baytrail SoC
		Supports Hyper-Threading Technology
		Default J1900 Quad core 10W processor
Expansion Slot	PCI	0
	Mini-PCIe	1x Full size mini-PCIe slot, co-lay with mSATA
	PCIe	1 x PCIe x1 slot
	M.2	1 x M.2 22/42/60/80 slot for storage 1 x M.2 Wifi slot
Memory	Technology	Dual Channel DDR3L 1066/1333 MHz SDRAM 2 x SO-DIMM
	Max.	16G
Graphics	Controller	Intel® Gen7 Intel Graphics DX 10*, OGL3.2
	VRAM	Shared Memory
	VGA	Supports max. resolution 1920 x 1200
	LVDS	Dual channel 24-bit, max resolution 1920 x 1200@60Hz
	HDMI	Supports HDMI 1.4a, max resolution 1920x1200
	DVI	No
	Display Port	No
Multi Display	Yes (Dual Display)	
LAN	Controller	2 x Intel i211AT Giga LAN
SATA	Max DTR	SATA2 (2.0Gb/s)
	VGA	1
Rear I/O	HDMI	1
	Display Port	0
	Ethernet	1
	USB	4 x USB 3.0
	Audio	2 (Mic-in, Line-out)
	Serial	0
	Internal Connector	USB
	LVDS/Inverter	1
	VGA	1
	Serial	6 x RS-232 (COM1 support RS-232/RS-422/485)
	SATA	1 x SATA3 (6.0Gb/s)
	Mini-PCIe	1 (1 x co-lay with mSATA SSD)
	Parallel	1
	Digital I/O	2 in/2 out
	I2C/SMBUS	0
	SATA PWR Output Con	0
Watchdog Timer	Output	From Super I/O to drag RESETCON#
	Interval	256 segments, 0,1,2...255sec/min
Power Requirements	Input PWR	ATX (4-pin ATX PWR connector )
		AT/ATX Supported
	Power On	AT: Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready
Power consumption	Typical	J1900, DDR3L 16G, SSD ,3A@12V
Certification	EMC	CE/FCC
Environment	Operating Temperature	0°C – 60°C

### Mechanism Drawing



### Ordering Information

Model Name	Ordering Information
GA-IMB1900N	J1900, HDMI VGA, Dual channel 24 bit, SATA mSATA, Dual LAN, 4 x USB3.0, 4 x USB2.0 Mini PCIe, M.2 Wifi, M.2 SSD Slot, PCIe x1, ATX, 0~60 Degree, TPM (Optional), 8 in/8 out DIO

### Optional Accessories

Part Number	Cable Usage	Description
12CF1-1CM011-01R	COM	11IN1 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

\* 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.