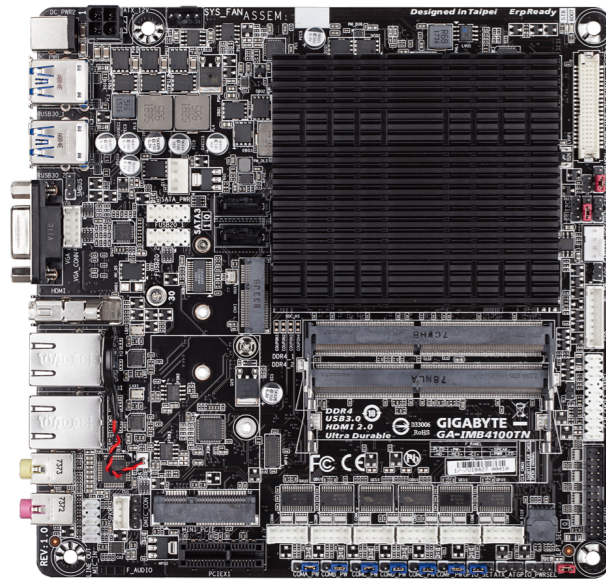


GIGABYTE™

GA-IMB4100TN

Intel® Gemini Lake Embedded Thin Mini ITX MB

Overview



Rear I/O



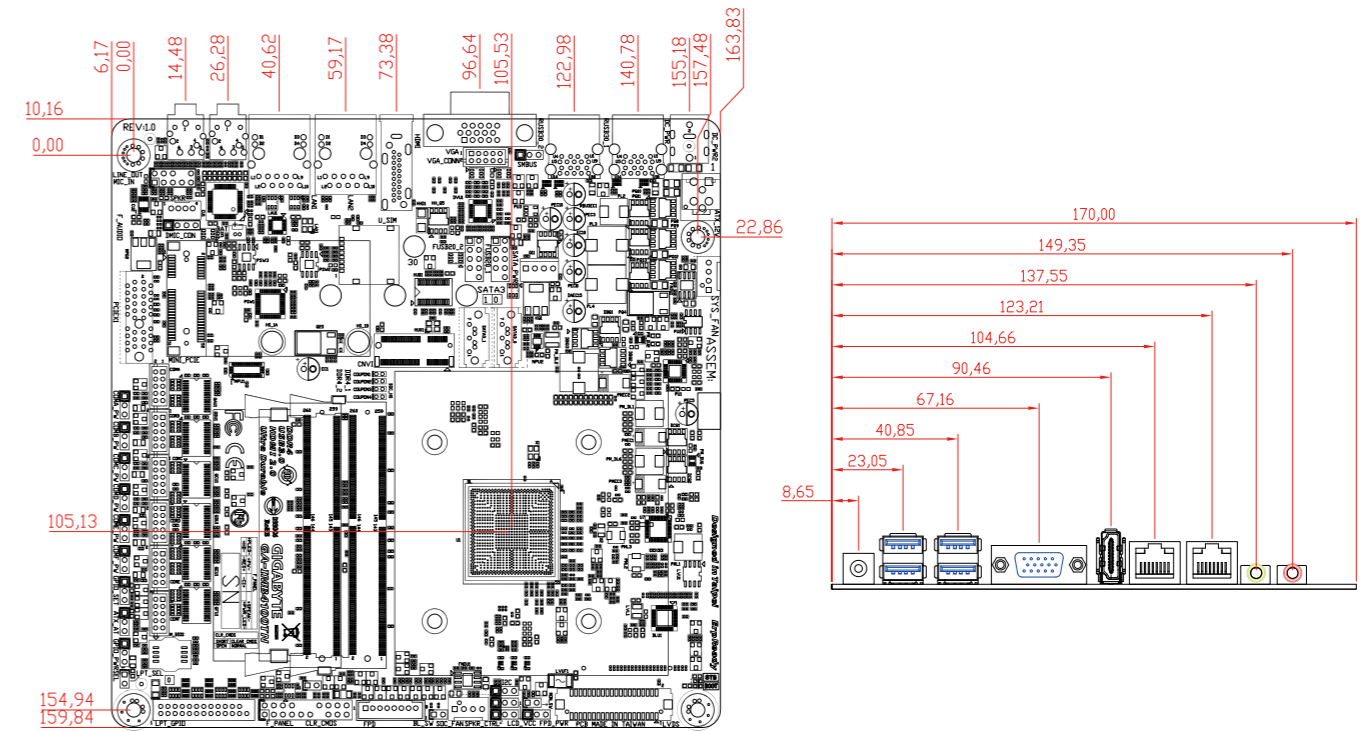
Product Feature

- Thin Mini-ITX Motherboard
- Intel® Celeron Gemini lake SoC N4100 Processor
- Integrated Intel® Gen9 Intel® Graphics DX 11*, OGL3.2
- Supports Dual Channel DDR4 2133 MHz, 2 x SO-DIMM, up to 16GB system memory
- HDMI 2.0, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS/eDP
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA3
- 1 x mini-PCIe, 1 x M.2 wifi, 1 x M.2 SSD
- Gigabit LAN : 2 x Realtek Lan
- 1 x TPM Module IC (optional)
- 12/19~24 VDC in

SPEC

Form Factor	PCB Size	Thin Mini-ITX (6.7 in x 6.7 in)/(170 x 170 mm)
Processor System	CPU	Intel® Gemini Lake SOC
		Supports Hyper-Threading Technology Default N4100 Quad core 6W processor
Expansion Slot	PCI	0
	Mini-PCIe	1 x Full / half size mini-PCIe slot co-lay with mSATA
	PCIe slot	1 x PCIe x1 slot
	M.2	1 x M.2 22/42/60/80 slot for SATA/PCIe storage 1 x M.2 Wifi slot
Memory	Technology	Dual Channel DDR4 2133 MHz SoDIMM
	Max.	2 x SO-DIMM 16G
Graphics	Controller	Intel® Gen9 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	HDMI 2.0, max resolution 3840 x 2160@60Hz
	DVI	No
	Display Port	No
Multi Display	Yes (Triple Display)	
LAN	Controller	2 x Realtek 8111H Giga LAN
SATA	Max DTR	2 x SATA3 (6.0 Gb/s)
	VGA	1
Rear I/O	HDMI2.0	1
	Display Port	0
	Ethernet	2
	USB	4 x USB 3.0
	Audio	2 (Mic-in, Line-out)
	Serial	0
	USB	4 x USB 2.0 compliant
Internal Connector	LVDS/Inverter	1
	VGA	0
	Serial	6 x RS-232 (COM1/2 support RS-232/RS-422/485)
	SATA	2 x SATA3 (6.0Gb/s)
	Mini-PCIe	1 (1 x co-lay with mSATA SSD)
	Parallel	1
	Digital I/O	8 in/8 out (Co-lay with LPT)
I2C/SMBUS	1	
SATA PWR Output	1	
Watchdog Timer	Output	From Super I/O to drag RESETCON#
	Interval	256 segments, 0,1,2...255sec/min
Power Requirements	Input PWR	12V/19-24V DC-in(4-pin ATX PWR connector co-lay with Pheonix 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	N4100, DDR4 16G, SSD ,3A@12V
Certification	EMC	CE/FCC
Environment	Operating Temperature	0°C – 60°C

Mechanism Drawing



Ordering Information

Model Name	Ordering Information
GA-IMB4100TN	N4100, HDMI2.0 VGA, LVDS, 2 x SATA, Dual LAN, 4 x USB3.0, 4 x USB2.0 Mini PCIe, PCIe x1, DC in 12/19~24V, 0~60, TPM (Optional), 8 in/8 out DIO, SIM socket, I2C, SMBUS

Optional Accessories

Part Number	Cable Usage	Description
12CF1-1CM011-01R	COM	1IN1 CB/JST 2*5P/PH2/KIMWELL COM 9MA(PC99)/200mm+SCREW*2
12CF1-1SATPW-01R	SATA Power	1IN1 CB FOR SATA POWER/KIMWELLS4P/15P*2/300mm Y cable
12CF1-2SAT1B-01R	SATA	2IN1 CB/SATA(S)/BLACK/CODE CPU90*180*1/180*180*1/2H*8P/50 CM
12CF1-1VGA07-01R	VGA	1IN1 VGA 15P FEMALE/BLUE KIMWEJST PH2/2*5/WH/200mm+SCREW*2

Chassis Information

Part Number	Usage	Description
24ECS-1TM10A-01R	Chassis	Thin mini ITX chassis Size : 204.6 x 205 x 45 mm



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