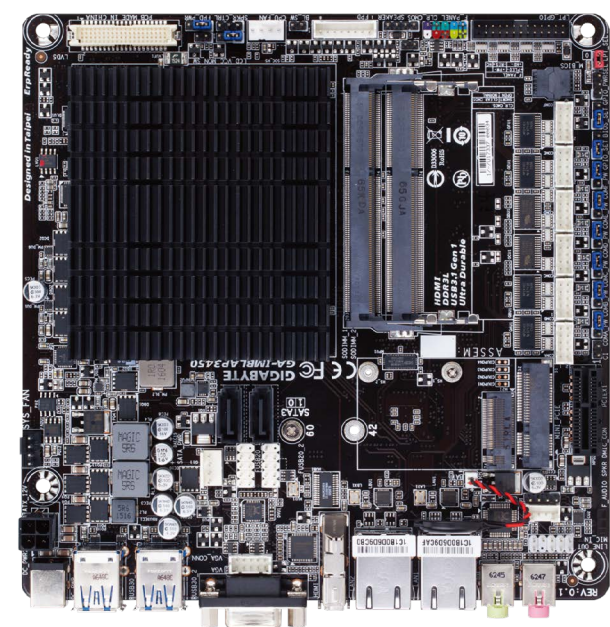


GIGABYTE™

GA-IMBLAP3450
GA-IMBLAP3350

Intel® Apollo Lake Embedded
Thin mini ITX MB

Overview



Rear I/O

Product Feature

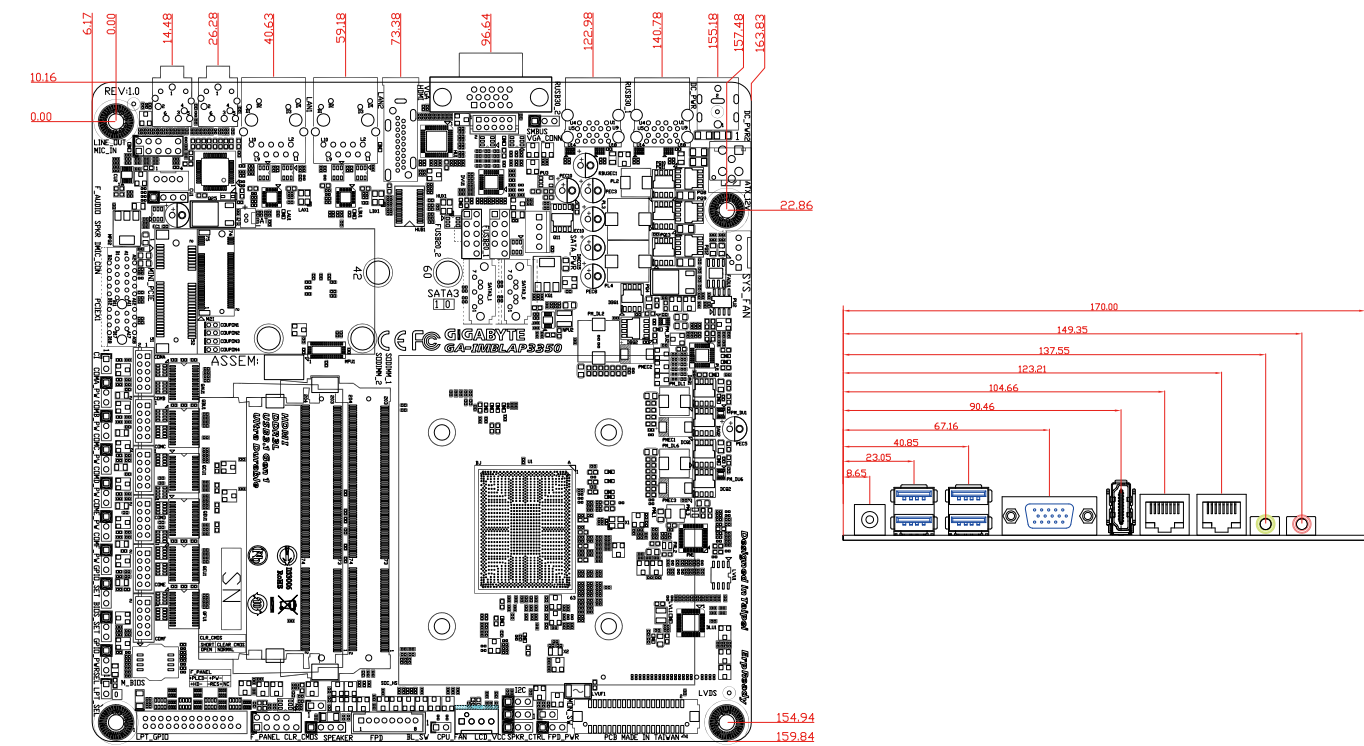
- Thin Mini-ITX Motherboard
- Intel® Celeron Apollo lake SoC Processor
- Integrated Intel® Gen9 Intel Graphics DX 11*, OGL3.2
- Supports Dual Channel DDR3L 1600/1866MHz, 2 x SO-DIMM, up to 16GB system memory
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS/eDP
- 4 xUSB 3.0, 4 x USB 2.0, 2 x SATA3
- 1 x mini-PCIe, 1 x M.2
- Gigabit LAN : 2 x Realtek Lan
- 1 x TPM Module IC(optional)
- 12/19~24V DC-in



SPEC

Form Factor	Dimensions	Thin Mini-ITX (6.7-in x 6.7-in)/(170 x 170 mm)
Processor System	CPU	Intel® Celeron Apollo Lake SoC
	Default	N3350/3450 Dual/Quad core 6W processor
Expansion Slot	Chipset	N3350/3450
	PCI	0
	Mini-PCIe	1x half/Half size mini-PCIe slot, PCIE +USB
	PCIe x1 slot	1x PCIe x1 slot
	M.2	1 x M.2 2242/60 slot for storage
	SIM	0
Memory	Technology	Dual Channel DDR3L 1600/1866 MHz SoDIMM
	Max.	16G
Graphics	Controller	Intel® Gen9 Intel Graphics DX 11/12, OGL3.2
	VGA	Supports max. resolution 1920 x 1200
	LVDS	Dual channel 24-bit co-lay with eDP, max resolution 1920 x 1200@60Hz
	HDMI	Supports HDMI 2.0, max resolution 3840 x 2160
	Display Port	No
	Multi Display	Yes (Triple Display)
LAN	Controller	2 x Realtek RTL8111H
SATA	Max DTR	2 x SATA3 (6.0Gb/s)
Rear I/O	VGA	1
	HDMI	1
	DVI-I/D	0
	Display Port	0
	Ethernet	2
	USB	4 x USB 2.0
	Audio	2 (Mic-in, Line-out)
	Serial	0
Internal Connector	USB	2 x USB 3.0 compliant, 2 x USB2.0
	LVDS/Inverter	1/1
	VGA	1
	Serial	6 RS-232 (COM1/2 support RS-232/RS-422/485)
	Mini-PCIe	1
	Parallel	1
	Digital I/O	8 in/8 out(Co-lay w/lt LPT)
	I2C/SMBUS	1
Watchdog Timer	SATA PWR Output	1
	Output	From Super I/O to drag RESETCON#
Power Requirements	Interval	256 segments, 0,1,2...255sec/min
	Input PWR	12/19-24V DC-In (4-pin ATX PWR connector co-lay with Pheonix connector)
Power consumption	Power On	AT/ATX Supported
	Typical	N3450, 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-IMBLAP3350	N3350 HDMI VGA, Dual channel 24 bit, SATA mSATA, Dual LAN, 4 x USB3.0, 4 x USB2.0
GA-IMBLAP3450	Mini PCIe, PCIe x1, DC in 12/19~24V, 0~60, TPM(Optional), 8 in/8out DIO, SIM socket, I2C,SMBUS

Optional Accessories

Part Number	Cable Usage	Description
12CF1-1CM011-01R	COM	11N1 CB/JST 2*5P/PH2/KIMWELL COM 9MA(PC99)/200mm+SCREW*2
12CF1-1SATPW-01R	SATA Power	11N1 CB FOR SATA POWER/KIMWELLS4P/15P*2/300mm Y cable
12CF1-2SAT1B-01R	SATA	21N1 CB/SATA(S)/BLACK/CODE CPU90*180*1/180*180*1/2H*8P/50 CM
12CF1-1VGA07-01R	VGA	11N1 VGA 15P FEMALE/BLUE KIMWEJST PH2/2*5/WH/200mm+SCREW*2

Chassis Information

Part Number	Usage	Description
24EC5-1TM10A-01R	Chassis	Thin mini ITX chassis Size :204.6 x 205 x 45 mm



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