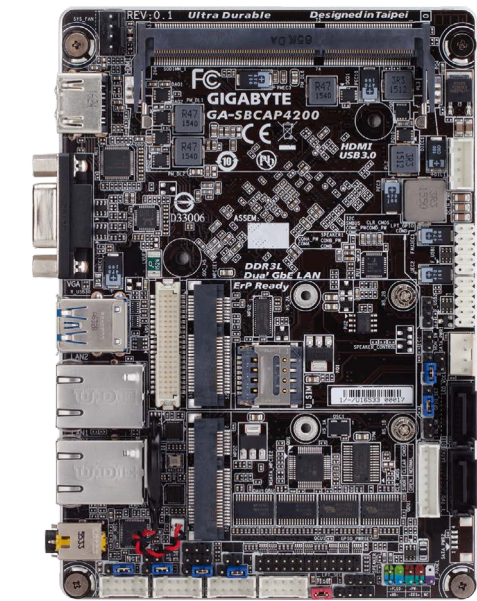


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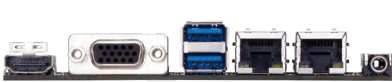
GA-SBCAP3350/
3450/4200

Intel® Apollo lake SoC
Embedded SBC MB

Overview



Rear I/O



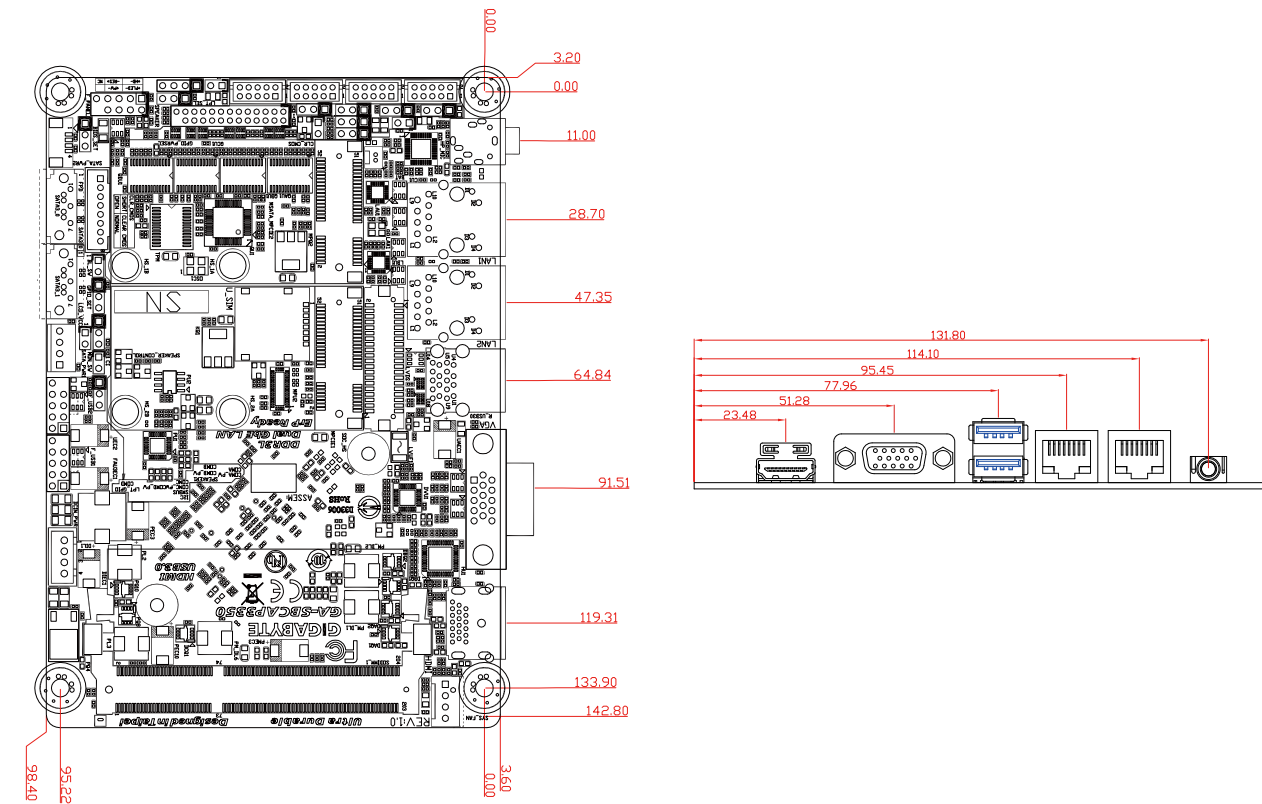
Product Feature

- SBC**
3.5 inch Single board Computer (146 x 102 mm)
- Intel®Celeron N3350 / N3450 / N4200 Apollo lake SoC Processor
 - Integrated Intel® Gen8 Intel Graphics DX 11*, OGL3.2
 - Supports Single Channel DDR3L 1600 / 1866MHz,
 - 1 x SO-DIMM, up to 8GB system memory
 - 1 x VGA, 1 x HDMI, 1 x Dual Channel 24-bit LVDS
 - 2 x USB 3.0, 4 x USB 2.0, 2 x SATA3
 - 2 x mini-PCIe, one co-lay with mSATA
 - Gigabit LAN : 2 x Realtek Lan
 - 1 x TPM2.0 Module IC onboard
 - 9-36 V DC-in

SPEC

Form Factor	PCB Size	SBC (5.74 x 4 inch) (146 x 102 mm)
Processor System	CPU	Intel® Celeron Apollo Lake SoC
		Supports Hyper-Threading Technology
		N3350/3450/4200 Dual /Quad core 6W processor
Expansion Slot	PCI	0
	Mini-PCIe	2 x Full size mini-PCIe slot, One co-lay with mSATA
	PCIe	N/A
	M.2	N/A
Memory	Technology	Single Channel DDR3L 1600 / 1866 MHz SDRAM
	Max.	8G
Graphics	Controller	Intel® Gen8 Intel Graphics DX 11*, OGL3.2
	VRAM	Shared Memory
	VGA	Yes
	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 (Triple Display)
EThernet	Controller	2 x Realtek RTL8111H
SATA	Max DTR	SATA2 (2.0Gb/s)
Rear I/O	VGA	1
	HDMI	1
	Display Port	0
	Ethernet	2
	USB	2
	Audio	1
	Serial	0
Internal Connector	USB	4 x USB 2.0 compliant
	LVDS/Inverter	1
	VGA	0
	Serial	4 x RS-232 (COM1/2 support RS-232/RS-422/485)
	SATA	2 x SATA3 (6.0Gb/s)
	Mini-PCIe	2 (1 x co-lay with mSATA SSD)
	Parallel	0
	Digital I/O	8 in/8 out
Watchdog Timer	Output	From Super I/O to drag RESETCON#
	Interval	256 segments, 0,1,2...255sec/min
		9~36V DC-in 4-pin ATX PWR connector (co-lay with Pheonix connector)
Power Requirements	Input PWR	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	N4200, DDR3L 8G, SSD ,3A@12V
Certification	EMC	CE/FCC
Environment	Operating Temperature	0°C – 60°C

Mechanism Drawing



Ordering Information

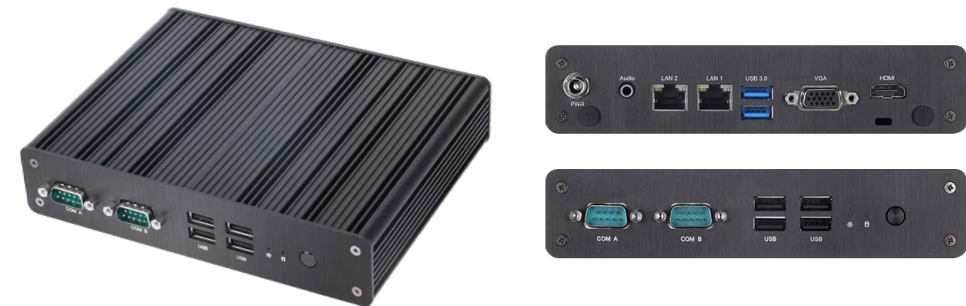
Model Name	Ordering Information
GA-SBCAP3350	N3350/3450/4200, HDMI VGA, Dual channel 24 bit, SATA mSATA, Dual LAN, 2 x USB3.0, 4 x USB2.0
GA-SBCAP3450	Mini PCIe, DC in 9~36V, 0~60, TPM (Optional), 8 in/8out DIO, SIM socket, I2C, SMBUS
GA-SBCAP4200	

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/KIMWELL54P/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

Chassis Information

Part Number	Usage	Description
24EC5-1SB10A-01R	Chassis	SBC chassis Size :174 x 135 x 36.9 mm



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