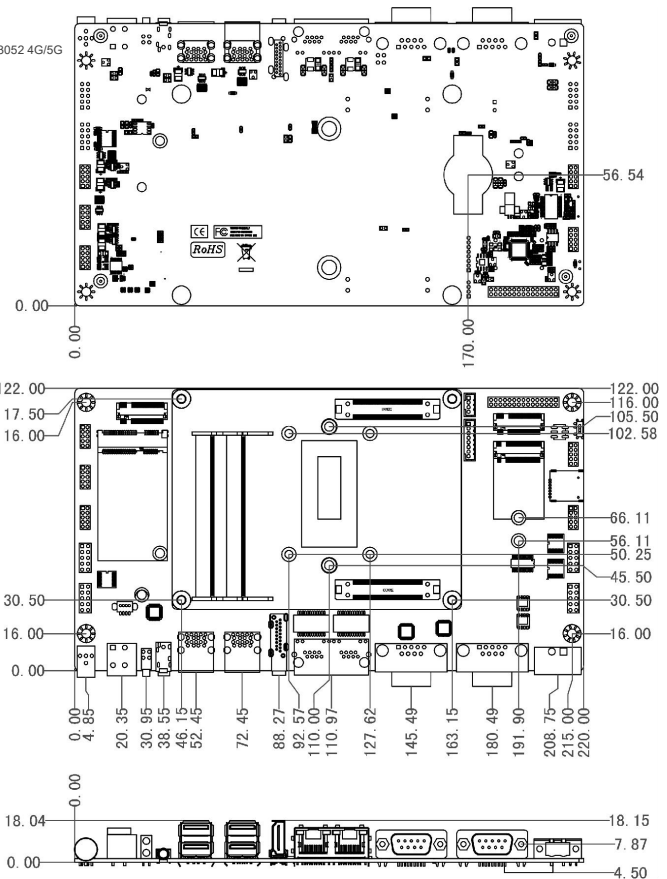
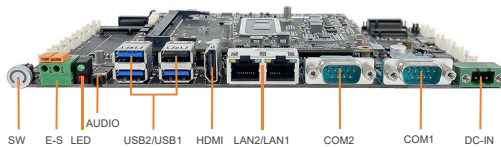
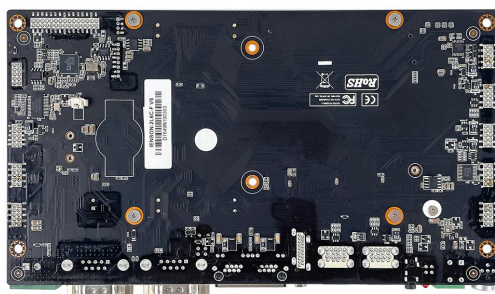
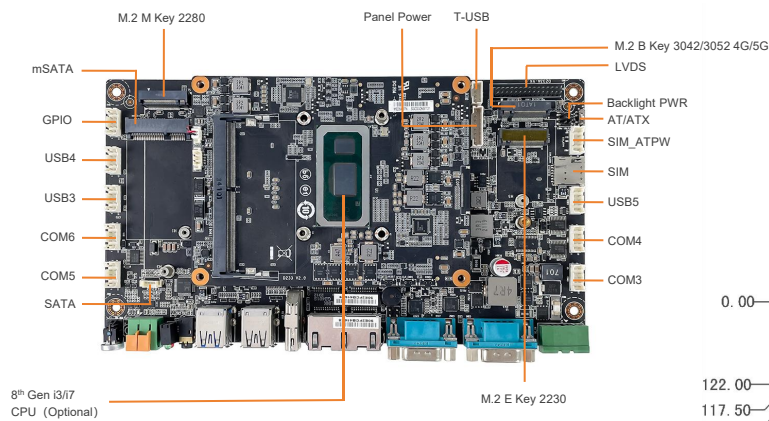


Features

- 8th Gen Intel® Whiskey Lake Core™ i3-8145U / i7-8565U, TDP 15W
- 1 x DDR4 2400MHz SODIMM, MAX 64GB
- 1 x 2.5 SATA HDD, 1 x M.2 2280 SATA SSD
- 1 x M.2.0 (2230, Wifi+BT), 1 x M.2.0 (3042/3052, 4G/5G)
- Supports dual independent display: 1 x HDMI, 1 x LVDS
- 2 x Intel® 226-V 2.5GbE Ethernet, support WoL and PXE
- 6 x COM (2x RS232/RS422/RS485), ESD and Surge Protection
- Support TPM2.0 hardware security
- 9V to 36VDC Wide Range Power Input, Supporting OVP / OCP / RPP

I/O Layout



Specifications

System	CPU	8th Gen Intel® Whiskey Lake Core™ i3-8145U 2.1GHz / i7-8565U 1.8GHz
	L2 Cache	4MB / 8MB
	TDP	15W
	Chipset	Integrated with Intel® SoC
	BIOS	AMI UEFI BIOS
	Watchdog Timer	Software Programmable Supports 1~255 sec. System Reset
	TPM	TPM 2.0
Memory	Technology	Single Channel (Non-ECC) DDR4L 2400MHz, up to 64GB
	Slot	2 x DDR4 SO-DIMM Slot
Storage	SATA	1 x mSATA3.0 Port
	M.2	1 x M.2-2280 M Key SSD Slot
Graphic	Controller	Intel HD Graphics 620
Audio	Codec	Realtek ACL897 Audio controller
Display I/F	Display	1x HDMI, Max Resolution up to 4096x2160@30Hz
		1x LVDS: Dual Channel 18/24-bit, up to 1920x1200
External I / O	Ethernet	1x GbE1: Intel 210-AT 1.0GbE LAN PXE Support
		1x GbE2: Intel 210-AT 1.0GbE LAN PXE Support
	USB	3x USB 3.0 / 1 x USB2.0 Gen1x1 (5Gbps), Type A
	COM	2x COM 1, COM 2 (RS-232 / 422 / 485, Adjustable through BIOS)
	Audio	1x Audio_out & Mic_in
Internal I/O	M.2	1*M.2 (Key-E, 2230, PCIe+USB, Wifi+BT)
		1*M.2 (Key-B, 3042/3052, PCIe/ USB 3.0+USB2.0, 4G/5G)
		1*M.2 (Key-M, 2280, NVMe/ SATA, SSD)
	SIM Socket	1x SIM Socket
	GPIO	1x 8bit GPIO(2*5pin)
	USB	1x T-USB2.0 wafer(1*4pin)
		3x USB2.0 wafer(2*5pin)
	COM	4x RS232 wafer(2*5pin)(COM3/COM4/COM5/COM6)
	Panel Power	1x Panel Power (2*4pin)
	SPK	1x SPK 2W8Ω wafer (1*4pin)
Invertor	1x 12V/5V/3V Selectable	
SIM Slot	1x SIM Socket	
Power	Power Mode	Support AT, ATX Mode
	Power Supply Voltage	DC IN 9~36V
	Power Connector	1x 2-pin Phoenix Terminal Block
	Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) RPP (Reverse Polarity Protection)
Operating System	Windows	Windows10/11 IoT Enterprise
	Linux	Linux
Physical	Dimensions	220mm x 120mm
	Weights	0.5kg
Environment	Operating Temperature	-20°C ~70°C, 10 ~90%(non-cpmdensing)
	Storage Temperature	-40°C ~80°C, 10 ~90%(non-cpmdensing)
	Certification	CE/FCC Class A