

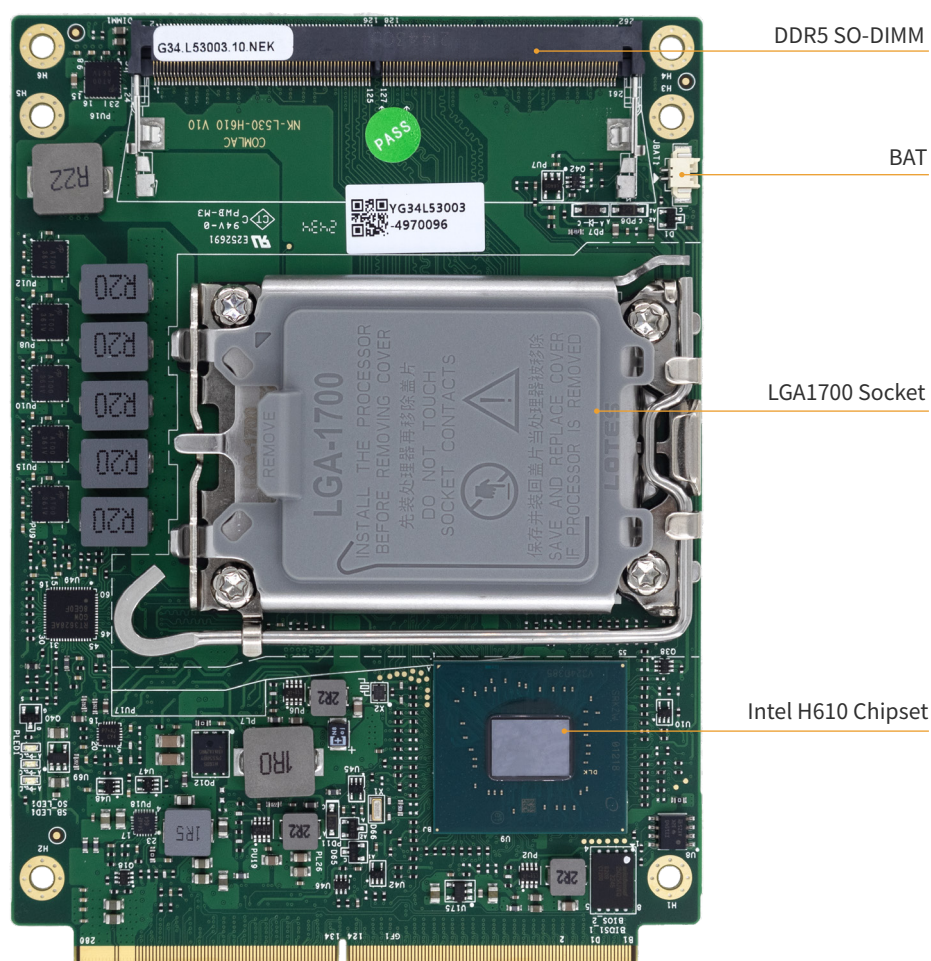
NK-L530-H610

138*100.1 Alder Lake-S/Raptor Lake-S H610 Comlac SBC

01 Feature

- Intel® 12/13/14 th Generation Celeron/Pentium/Core-I series LGA1700 processor,TDP up to 65W
- Support dual channel(Non-ECC) DDR5-4800MHz SO-DIMM slot, up to 64GB
- Support 2 x DDI, 1 x eDP,Tri-display
- Type5 Interface Signals with MXM3.0 Gold Finger

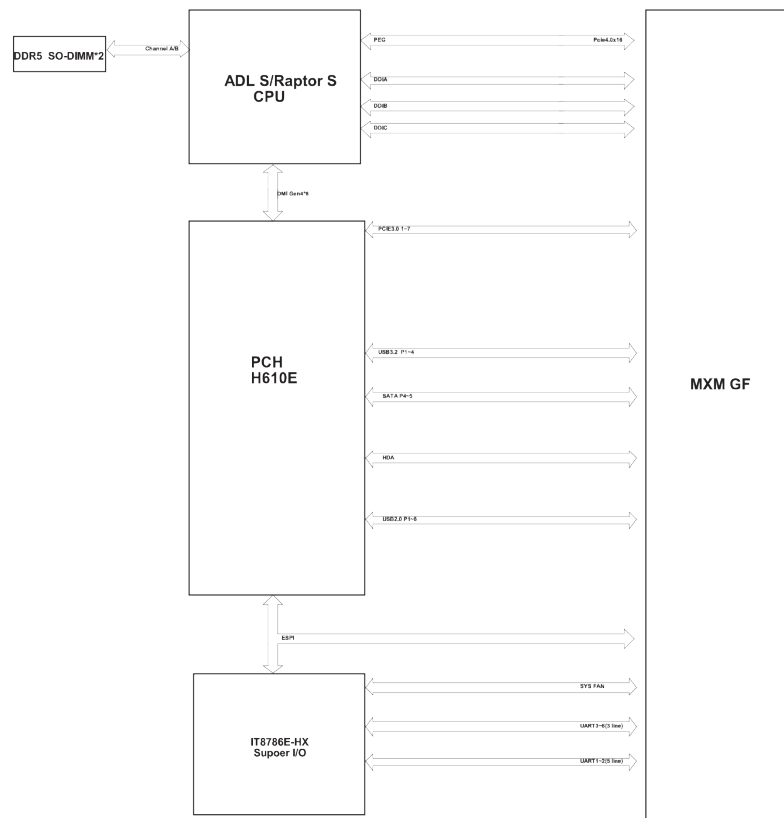
02 I/O Layout



03 Specification

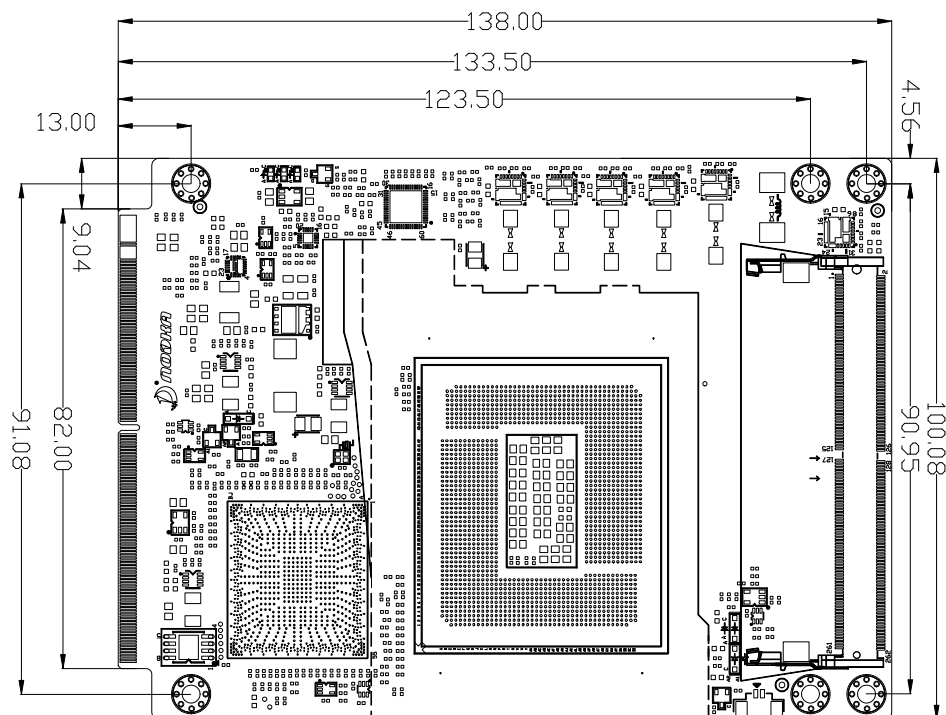
Project		Content
Processor System	CPU	Intel® 12/13/14th Generation Celeron/Pentium/Core-I series processor, TDP up to 65W
	Socket	LGA1700
	Chipset	Intel H610/H610E
	BIOS	AMI 256Mb UEFI BIOS
Memory	Technology	Dual Channel(Non-ECC) DDR5-4800MHz, up to 64GB
	Slot	2 x DDR5 262-pin SO-DIMM slot
Graphic	Controller	Intel® UHD Graphics integrated
Expansion Signals	Display	2 x DDI, 1 x eDP
	Serial Port	2 x UART(5 line), 4 x UART(3 line)
	USB	4 x USB3.0 , 8 x USB2.0
	SATA	2 x SATA 3.0
	PCIe	7 x PCIe X1(1 X4、 2 X1、 1xGBE(Only support Intel i219-V controller))
	PCIe x 16	1 x PCIeX16
	GPIO	1 x 2bit GPIO
	Audio	1 x Intel HDA Audio codec
	Fan	1 x SYS_FAN(signal)
	others	1 x SMBus,1 x Buzzer
Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
Power	Type	12V
	Power Consumption	TBD
OS Support	MS Windows	Windows10/11
	Linux	Linux
Mechanism	Dimensions	(L)138mm x (W)100.1mm
	Gross Weight	0.15kg
Environment	Temperature	Operating: 0°C ~60°C with SSD
		Storage: -40°C ~85°C
	Humidity	5~95% (Non-condensing)
	Vibration	5~500Hz, 3Grms operating

04 Block Diagram



05 Mechanical Drawing

Unit: mm



06 Order Information

Part No.	Model	Description
F34.L53001.00.NEK	NK-L530-H610	Type5,138*100.1mm NK-L530-H610 Comlac SBC, 2x DDR5-4800 SO-DIMM