

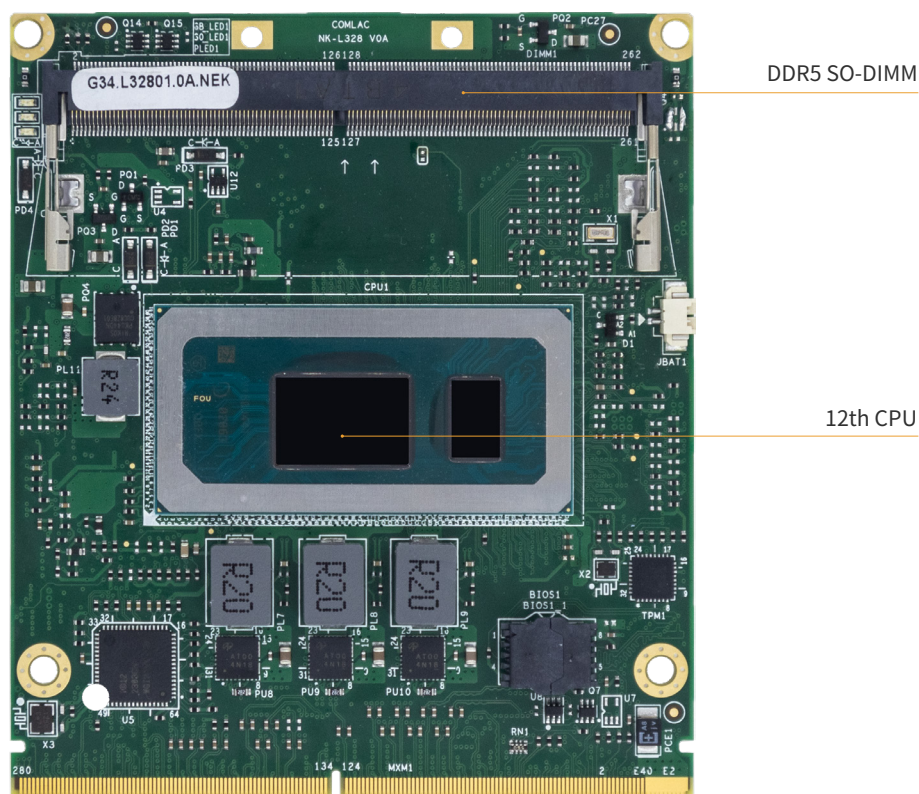
NK-L328

95*82 12th Comlac Board

01 Feature

- 12th Intel® Core™ Processor ,i7-1265UE/i5-1245UE/i3-1215UE,TDP 15W
- Support Signal Channel(Non-ECC) DDR5-4800MHz, up to 64GB
- Support 2 x DDI,1 x eDP,Tri-Display
- Type3 Interface Signals with MXM3.0 Gold Finger

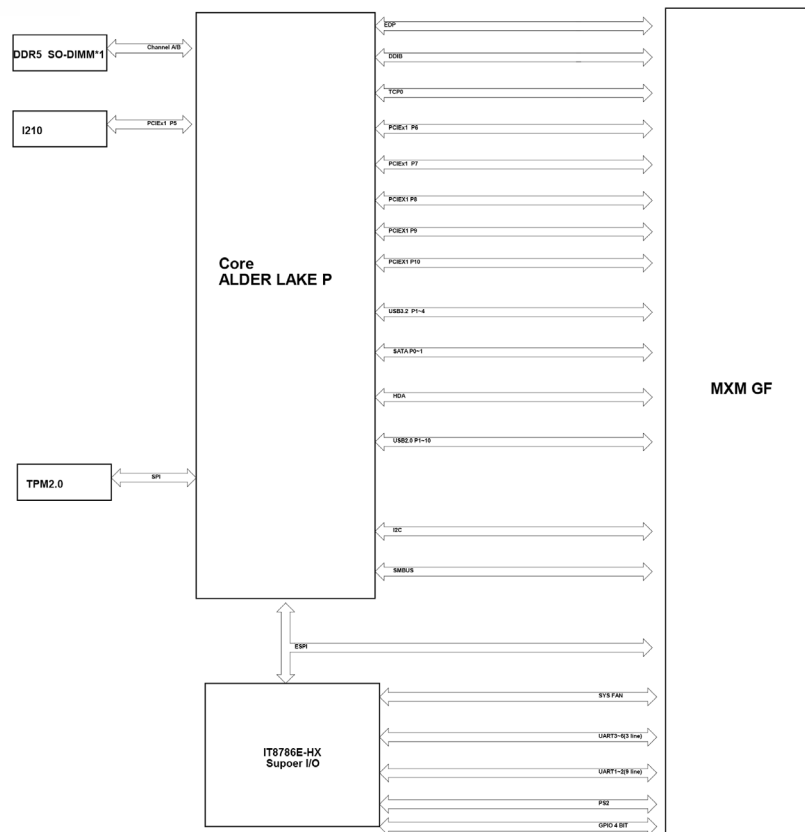
02 I/O Layout



03 Specification

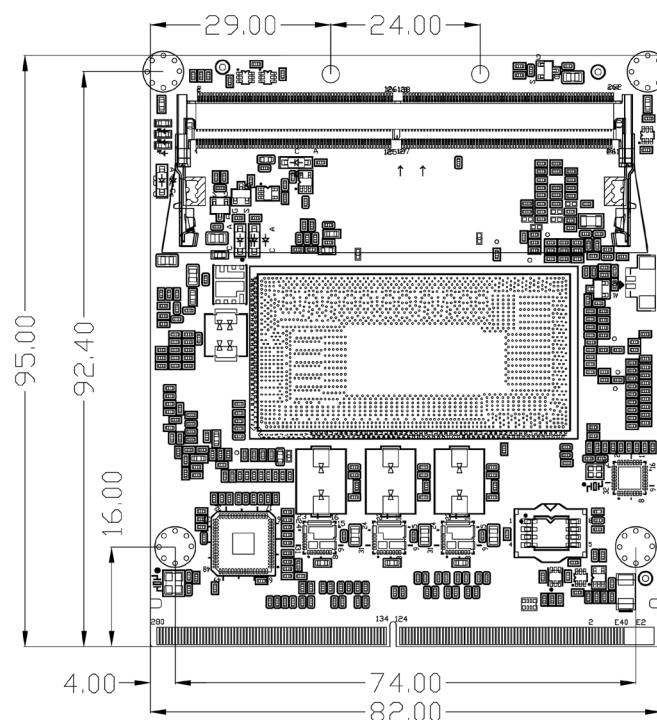
Project		Content
Processor System	CPU	12th Intel® Core™ Processor
		i7-1265UE 10C12T,Base Frequency 1.7GHz up to 4.7GHz,TDP 15W
		i5-1245UE 10C12T,Base Frequency 1.5GHz up to 4.4GHz,TDP 15W
		i3-1215UE 6C8T,Base Frequency 1.2GHz up to 4.4GHz,TDP 15W
	Chipset	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS
Memory	Technology	Signal Channel(Non-ECC) DDR5-4800MHz, up to 64GB
	Slot	1 x DDR5 SO-DIMM slot
Graphic	Controller	Intel® Iris® Xe Graphics
Expansion Signals	Display	1 x DDI , 1 x TCP , 1 x eDP
	Ethernet	Intel I210AT controller
	Serial Port	2 x Uart (9 line) , 4 x Uart (3 line)
	USB	4 x USB3.2 Gen2 10Gbps, 6 x USB2.0
	Audio	1 x Intel HDA Audio codec
	GPIO	1 x 4bit GPIO
	Smart Fan	1 x Smart FAN
	PCIE	5port 5lanes(PCIe x1)
	SATA	2 x SATA 3.0 (6.0Gb/s)
	KB/MS	1 x KB/MS
	other	1 x I2C, 1 x I2S, 1 x Smbus, 1 x Buzzer, 1 x eSPI
Security	TPM	Infineon TPM2.0 supported
Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
Power	Type	5V DC input
	Power Consumption	TBD
O.S Support	MS Windows	Windows10/11
	Linux	Linux
Mechanism	Form Factor	COMLAC Type3 connector pinout
	Dimensions	(L)95mm x (W)82mm
	Gross Weight	TBD
Environment	Temperature	Operating: 0°C ~60°C Storage: -40°C ~85°C
	Humidity	5~90%RH operating, Non-condensing 5~95%RH storage, Non-condensing
	Vibration	5~500Hz, 3Grms operating

04 Block Diagram



05 Mechanical Drawing

Unit: mm



06 Order Information

料号 Part No.	型号 Model	描述 Description
G34.L32801.0A.NEK	NK-L328-1245UE_V0A	COMLAC, Type 3, i5-1245UE, DDR5-4800 SO-DIMM,MAX:64G, W/0 stroage, Standard, support TPM2.0
G34.L32802.0A.NEK	NK-L328-1265UE_V0A	COMLAC, Type 3, i7-1265UE, DDR5-4800 SO-DIMM,MAX:64G, W/0 stroage, Standard, support TPM2.0
G34.L32803.0A.NEK	NK-L328-1215UE_V0A	COMLAC, Type 3, i3-1215UE, DDR5-4800 SO-DIMM,MAX:64G, W/0 stroage, Standard, support TPM2.0