

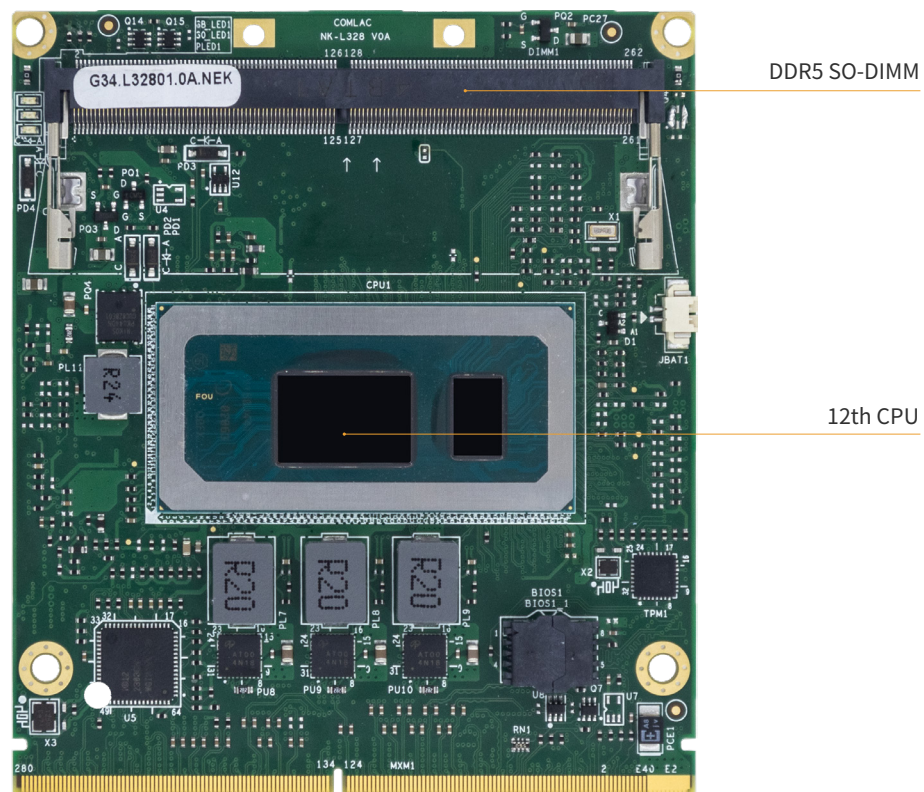
NK-L328

95*82 12th Comlac Board

01 特点 Feature

- 12th Intel® Core™ Processor ,i7-1255U/i7-1265U/i5-1235U/i5-1245U/i3-1215U 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

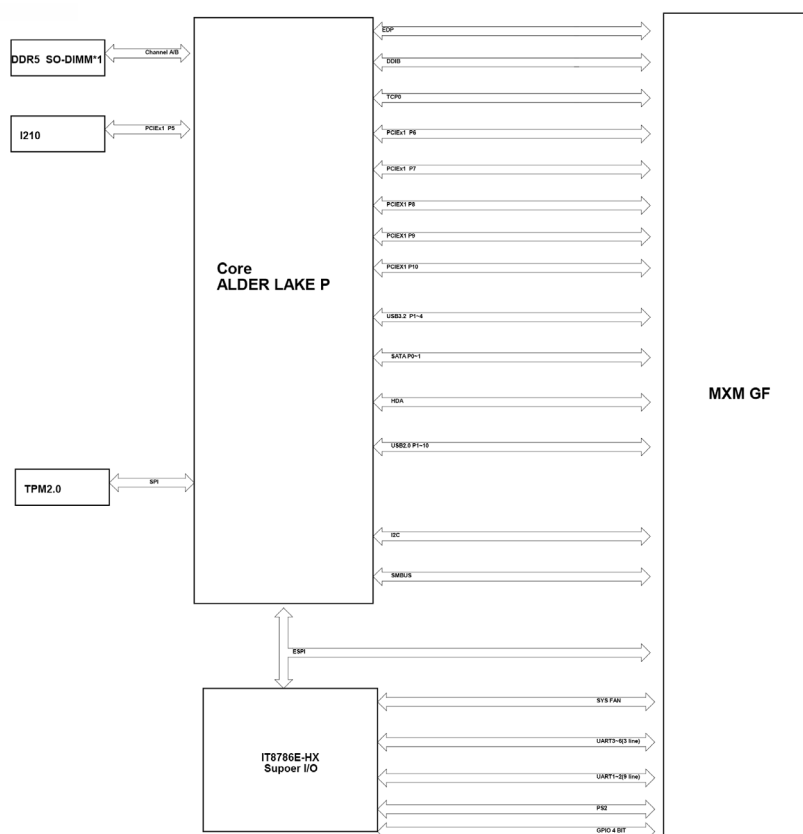
02 I/O Layout



规格 Specification

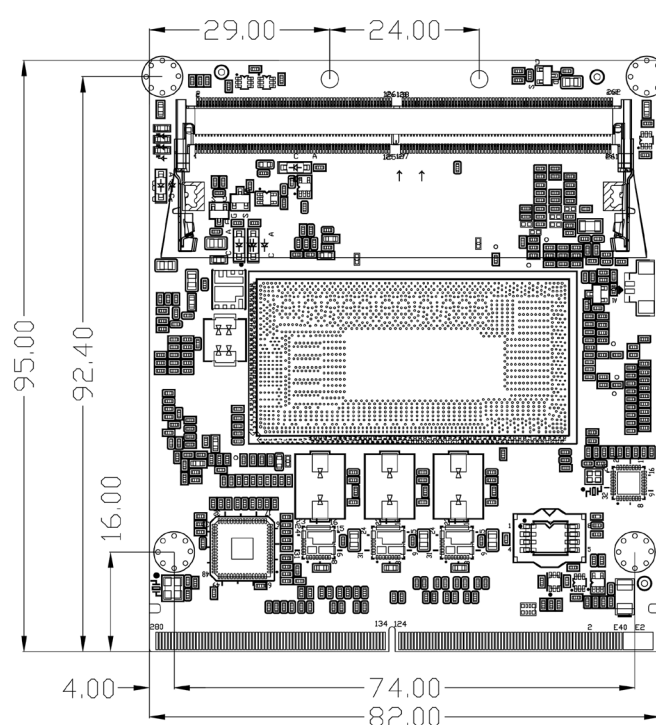
项目	参数
处理器 Processor System	CPU
	12th Intel® Core™ Processor
	i7-1255U, 10C12T, up to 4.7GHz, TDP 15W
	i7-1265U, 10C12T, up to 4.8GHz, TDP 15W
	i5-1235U, 10C12T, up to 4.4GHz, TDP 15W
	i5-1245U, 10C12T, up to 4.4GHz, TDP 15W
	i3-1215U, 6C8T, up to 4.4GHz, TDP 15W
芯片组 Chipset	Intel® SoC integrated
	BIOS
	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology
	Signal Channel(Non-ECC) DDR5-4800MHz, up to 64GB
插槽 Slot	1 x DDR5 SO-DIMM slot
	图形 Graphic
控制器 Controller	Intel® Iris® Xe Graphics
	显示 Display
扩展信号 Expansion Signals	1 x DDI, 1 x TCP, 1 x eDP
	网络 Ethernet
	Intel I210AT controller
	串口 Serial Port
	2 x Uart (9 line) , 4 x Uart (3 line)
	USB
	4 x USB3.2 Gen2 10Gbps, 6 x USB2.0
	音频 Audio
	1 x Intel HDA Audio codec
	GPIO
	1 x 4bit GPIO
	风扇 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
其它	1 x I2C, 1 x I2S, 1 x Smbus, 1 x Buzzer, 1 x eSPI
	安全 Security
TPM	Infineon TPM2.0 supported
	看门狗定时 Watchdog Timer
输出 & 间隔 Output&Interval	System reset, programmable from 1~255 seconds
	电源 Power
类型 Type	5V DC input
	功耗 Power Consumption
TBD	操作系统 O.S Support
	MS Windows
Windows10/11	Linux
	Linux
机械参数 Mechanism	Form Factor
	COMLAC Type3 connector pinout
	尺寸 Dimensions
(L)95mm x (W)82mm	净重 Gross Weight
	TBD
环境 Environment	温度 Temperature
	Operating: 0°C ~60°C Storage: -40°C ~85°C
	湿度 Humidity
5~90%RH operating, Non-condensing 5~95%RH storage, Non-condensing	振动 Vibration
	5~500Hz, 3Grms operating

04 框架图 Block Diagram



05 机构图 Mechanical Drawing

单位 (Unit): mm



06 订购信息 Order Information

料号 Part No.	型号 Model	描述 Description
F34132806.10.NEK	NK-L328-1245U_V10	COMLAC, alder lake U, i5-1245U, DDR5-4800 SODIMM, w/o storage, standard, compose, 单板, 包材
F34.L32807.10.NEK	NK-L328-1215U V10	cOMLAC, alderlake U, i3-1215U, DDR5-4800 SODIMM, w/o storage, standard, compose, 单板, 包材
F34.L32808.10.NEK	NK-L328-1265U_V10	COMLAC, alder lake U, i7-1265U, DDR5-4800 SODIMM, w/o storage, standard, compose, 单板, 包材
F34.132809.10.NEK	NK-L328-1235U_V10	OMLAC, alderlake U, i5-1235U, DDR5-4800 SODIMM, w/o storage, standard, compose, 单板, 包材
F34.L32810.10.NEK	NK-L328-1255U_V10	COMLAC, alder lake U, i7-1255U, DDR5-4800 SODIMM, w/o storage, standard, compose, 单板, 包材