

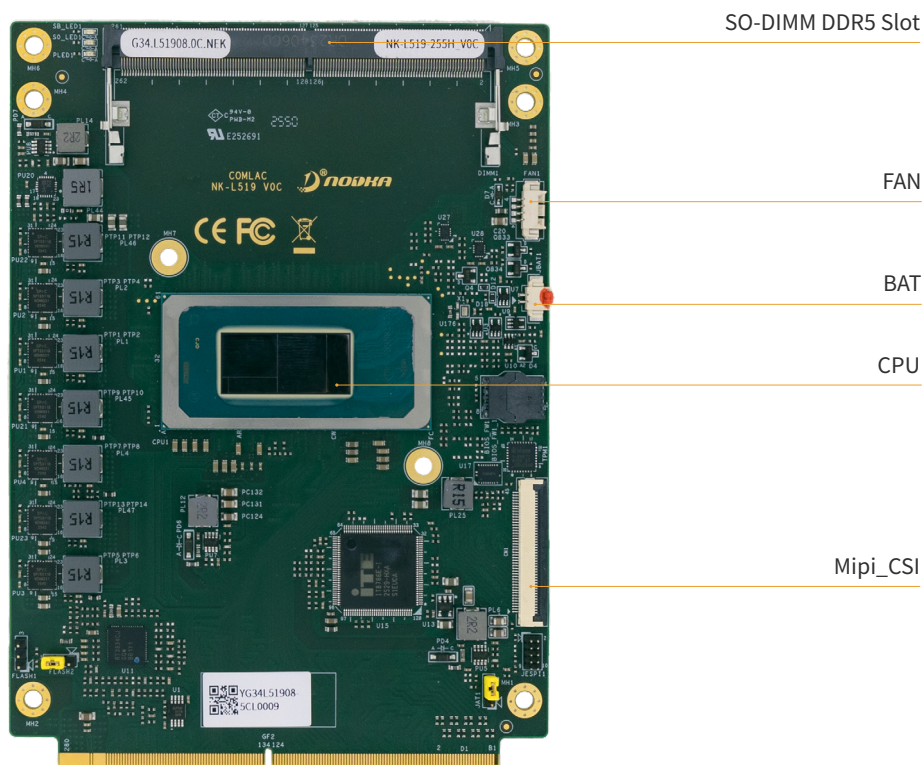
NK-L519

Ultra Processors Meteor Lake-H/Arrow Lake-H Comlac CPU Moudle

01 特点 Feature

- Intel® Core™ Ultra Processors Meteor Lake-H/Arrow Lake-H,TDP 28W Max 45W
- Intel® Core™ Ultra 9 Processor 185H (16C22T, 24M Cache, up to 5.10 GHz, TDP 45W)
- Intel® Core™ Ultra 7 Processor 155H (16C22T, 24M Cache, up to 4.80 GHz, TDP 28W)
- Intel® Core™ Ultra 5 Processor 125H (14C18T, 18M Cache, up to 4.50 GHz, TDP 28W)
- Intel® Core™ Ultra 9 Processor 285H (16C16T, 24M Cache, up to 5.40 GHz, TDP 45W)
- Intel® Core™ Ultra 7 Processor 255H (16C16T, 24M Cache, up to 5.10 GHz, TDP 28W)
- Intel® Core™ Ultra 5 Processor 225H (14C14T, 18M Cache, up to 4.90 GHz, TDP 28W)
- Dual Channel(Non-ECC) SO-DIMM DDR5-5600MHz, up to 96GB
- Support 2 x DDI, 1 x TCP,Tri-display
- Type5 Interface Signals with MXM3.0 Gold Finger

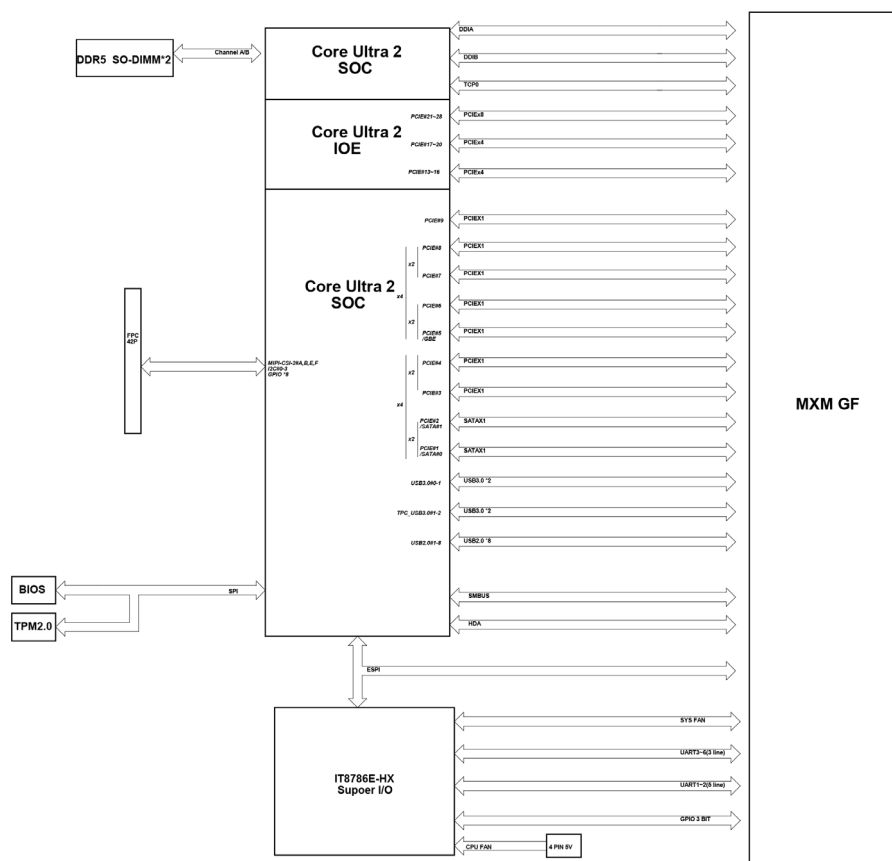
02 Layout



规格 Specification

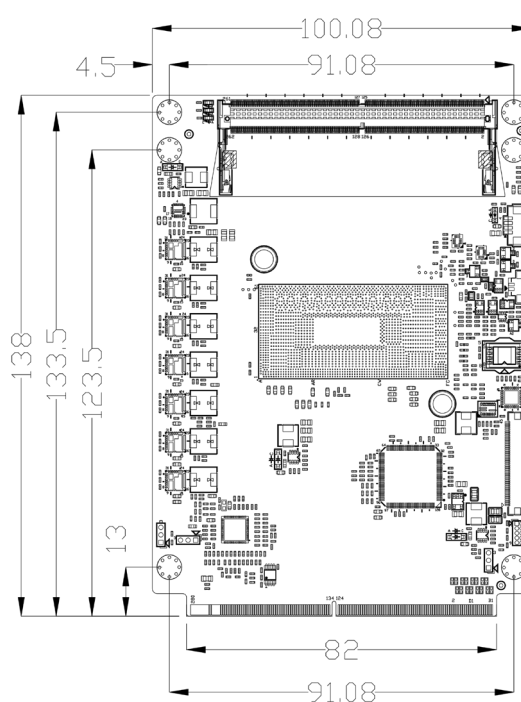
项目	参数
处理器 Processor System	CPU
	Intel® Core™ Ultra Processors Meteor Lake-H/Arrow Lake-H,TDP 28W Max 45W
	Intel® Core™ Ultra 9 Processor 185H (16C22T, 24M Cache, up to 5.10 GHz, TDP 45W)
	Intel® Core™ Ultra 7 Processor 155H (16C22T, 24M Cache, up to 4.80 GHz, TDP 28W)
	Intel® Core™ Ultra 5 Processor 125H (14C18T, 18M Cache, up to 4.50 GHz, TDP 28W)
	Intel® Core™ Ultra 9 Processor 285H (16C16T, 24M Cache, up to 5.40 GHz, TDP 45W)
	Intel® Core™ Ultra 7 Processor 255H (16C16T, 24M Cache, up to 5.10 GHz, TDP 28W)
	芯片组 Chipset
	Intel® SoC integrated
	BIOS
内存 Memory	技术 Technology
	Dual Channel(Non-ECC) DDR5-5600MHz, up to 96GB
	插槽 Slot
	2 x DDR5 SO-DIMM slot
图形 Graphic	控制器 Controller
	Intel® Arc™ Graphics architecture
扩展信号 Expansion Signals	显示 Display
	2 x DDI, 1 x TCP
	串口 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 (6.0Gb/s)
	PCIE
	7port 7lanes(PCle x1)
	PCIE x16
	PCIE X8 GEN3 *1+PCIE X4 GEN3 *2(default NC)
	GPIO
	1 x 3bit GPIO
	音频 Audio
	1 x Intel HDA Audio codec
	风扇 Smart Fan
	1 x Smart_FAN Connector on CPU Moudle (4pin, 5V), 1 x Smart_FAN signal for Carrier board
	Camera MIPI CSI
	4 x MIPI_CSI (1.8V) , by FPC Connector for Carrier Board
	其它
	SMBus, eSPI, Buzzer
安全 Security	TPM
	Infineon TPM2.0 supported
看门狗定时器 Watchdog Timer	输出 & 间隔 Output&Interval
	System reset, programmable from 1~255 seconds
电源 Power	类型 Type
	12V DC input
操作系统 O.S Support	MS Windows
	Windows10/11
机械参数 Mechanism	Linux
	Linux
	Form Factor
	COMLAC Type5 connector pinout
	尺寸 Dimensions
	(L)138mm x (W)100.1mm
	净重 Gross Weight
	0.08Kg
	温度 Temperature
	Operating: 0°C ~60°C
环境 Environment	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
F34.L51904.0C.NEK	NK-L519-255H	COMLAC, Type 5, Ultra 7 255H, 2*DDR5-5600MHz SO-DIMM, W/0 stroage, 标准品, board, support TPM2.0
F34.L51905.0C.NEK	NK-L519-125H	COMLAC, Type 5, Ultra 5 125H, 2*DDR5-5600MHz SO-DIMM, W/0 stroage, 标准品, board, support TPM2.0