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嵌入式工业主板 产品型录

激进的COMLAC模块化电脑专家





成为全球领先的IPC&HMI系统平台制造商

Becoming the Global Leading IPC&HMI System Platform Manufacturer

诺达佳(NODKA)创立于 2001 年，总部位于中国苏州，拥有苏州、昆山和深圳三大研发中心，致力于工业PC和HMI系统平台产品的研发创新、生产制造、销售，兼具OEM/ODM客制化服务能力，满足客户少量、多样化和大批量制造需求，为自动化、量测、通讯等领域的客户提供全方位的产品及解决方案，全国主要城市29个销售办事处，可以为客户提供便捷、高效的技术支持和服务，产品销售至30多个国家，成功服务全球5000+客户并建立长期合作关系。

拥有苏州和安徽2个制造基地，5万多平米生产工厂，建立系统整机组装、SMT/DIP、精密钣金、CNC加工、烤漆和阳极氧化表面处理等全流程智能制造中心，工厂制程与管控皆符合ISO9001、ISO14001认证规范。

卓越的研发实力



专业的服务能力

诺达佳在全国范围内建立了29个销售服务网点，为客户提供高效、专业的技术支持。



- 客户咨询 - 为客户提供专业的产品咨询服务;
- 产品选择 - 根据客户需求,为客户推荐合适的产品;
- 技术支持 - 提供专业的技术指导和维修服务;
- 订单处理 - 高效处理客户的订单需求。

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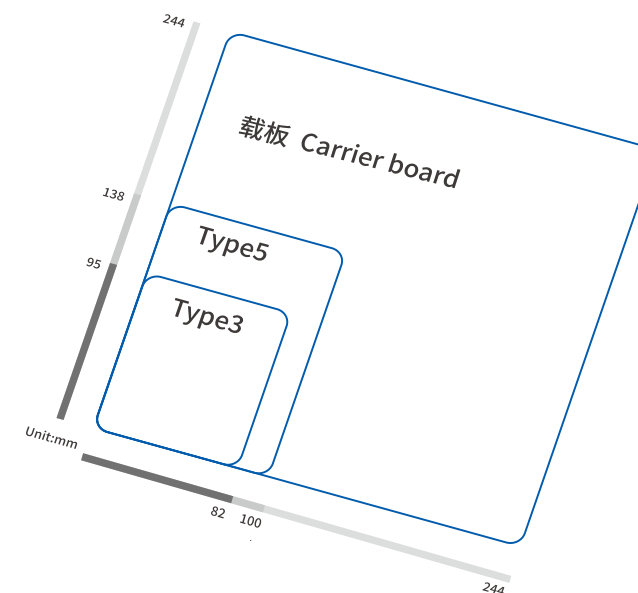
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COMLAC核心模块



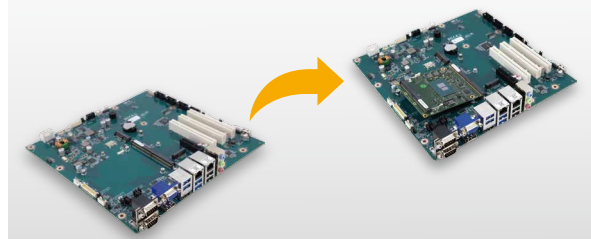
- 通用X86核心组件
- MXM 3.0 高速连接
- 可选Type3/Type5规格
- COMLAC 开发支持

产品快速上市

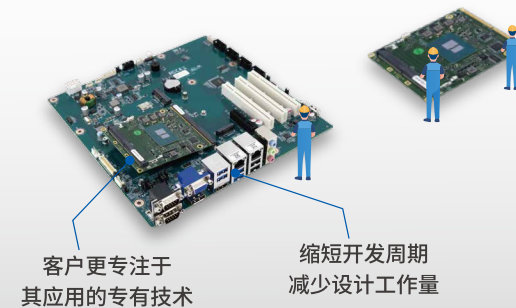


满足弹性需求

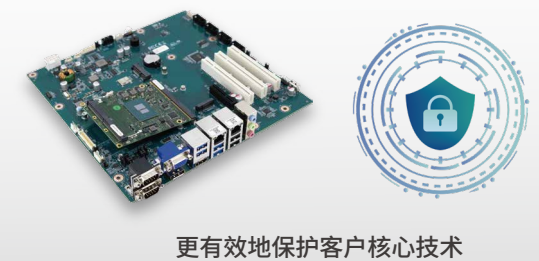
载板设计定制服务



节约开发成本

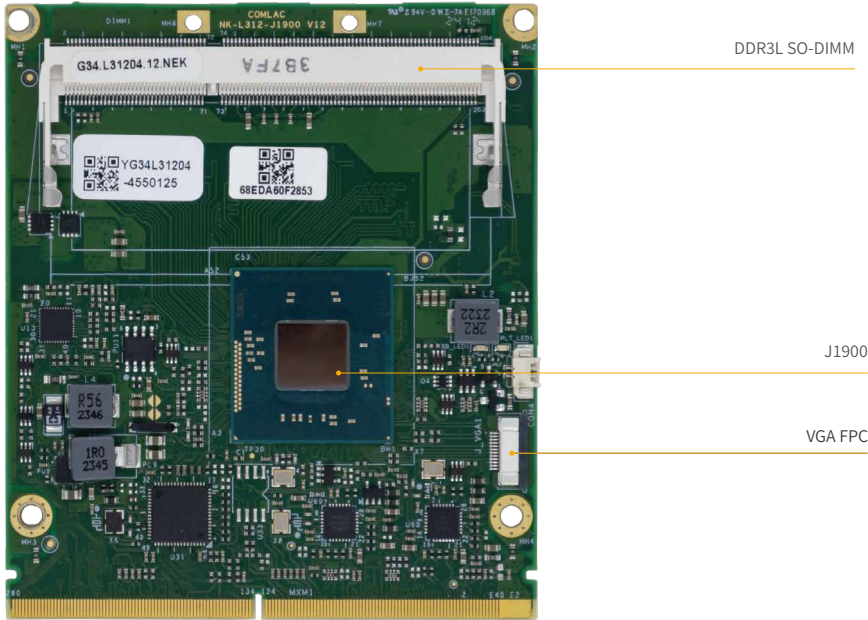


保护核心技术



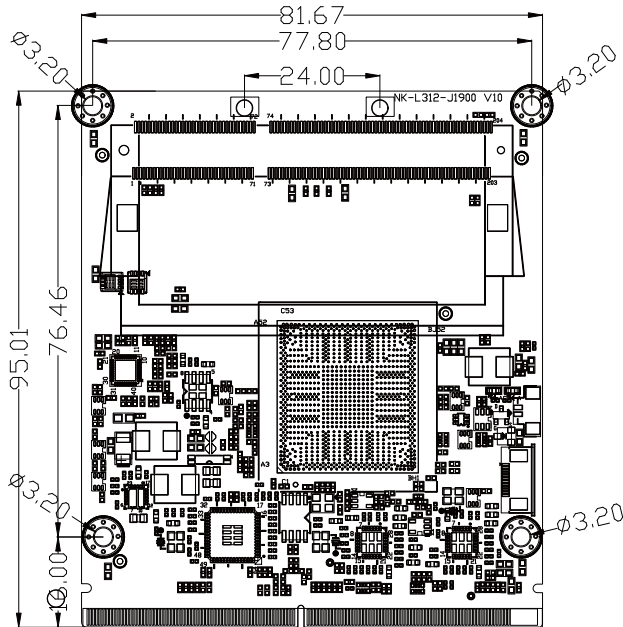
NK-L312-J1900

Intel® Celeron® J1900 processor, Quad-core, base frequency 2.0GHz, TDP 10W



- Intel® Celeron® J1900 processor, Quad-core, base frequency 2.0GHz, TDP 10W
- Support 1 x DDR3L-1333MHz SO-DIMM slot, up to 8GB
- Support 1 x VGA FPC Connector,2 x DDI dual display
- Type3 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

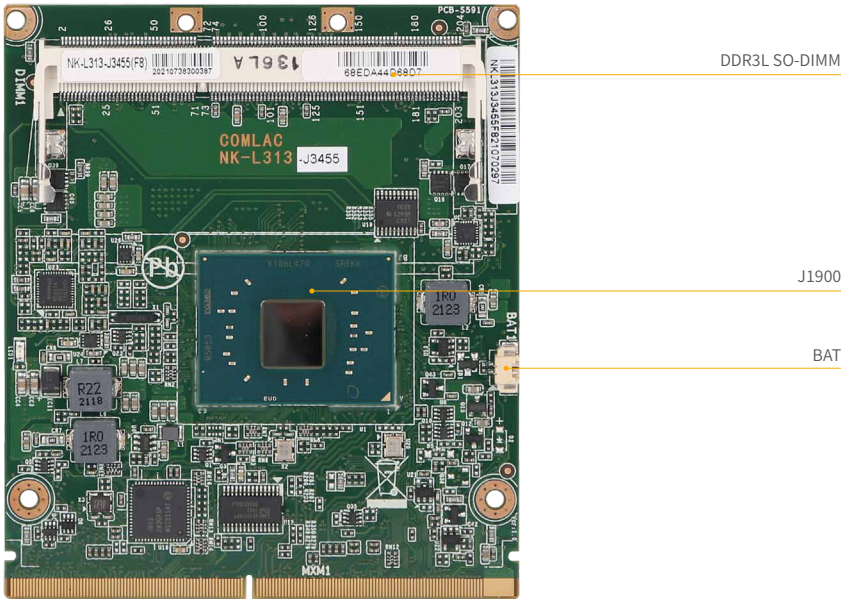


规格 Specification

项目		NK-L312-J1900
处理器 Processor System	CPU	Intel® Celeron® J1900 processor 2.0GHz,TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 64Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR3L-1333MHz, up to 8GB
	插槽 Slot	1 x DDR3L 240-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI,1 x VGA FPC Connector
	串口 Serial Port	2 x Uart(9line),4 x Uart(3line)
	USB	1 x USB 3.0,8 x USB2.0
	SATA	2 x SATA 2.0
	PCIe	3 port 3 lanes (3 X1)
	GPIO	1 x 4bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	网络 Ethernet	Intel i210AT controller
	其他 others	1 x I ² C,1 x SMBus,1 x LPC,1 x Buzzer,1 x KB/MS
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	5V
	Power output	5V
操作系统 OS Support	MS Windows	Windows 7/8/10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)95mm x (W)82mm
	净重 Gross Weight	0.04kg
环境 Environment	温度 Temperature	Operating: 0°C~60°C with SSD;Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

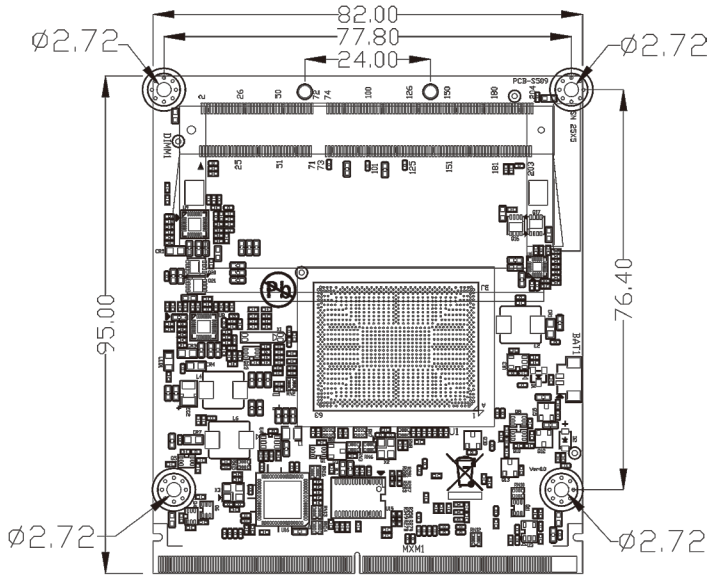
NK-L313-J3455

Intel® Celeron® J3455 processor, Quad-core, base frequency 1.5GHz up to 2.3GHz, TDP 10W



- Intel® Celeron® J3455 processor, Quad-core, base frequency 1.5GHz up to 2.3GHz, TDP 10W
- Support 1x DDR3L-1866MHz SO-DIMM slot, up to 8GB
- Support 2 x DDI, 1 x eDP, Dual-display
- Type3 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

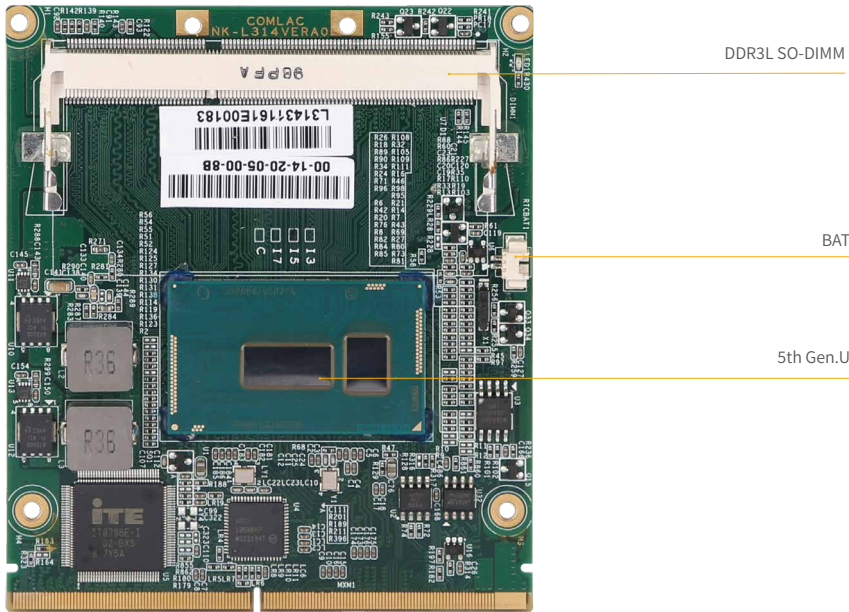


规格 Specification

项目		NK-L313-J3455
处理器 Processor System	CPU	Intel® Celeron® J3455 processor 1.5GHz up to 2.3GHz,TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR3L-1866MHz, up to 8GB
	插槽 Slot	1 x DDR3L 240-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI,1 x eDP
	串口 Serial Port	2 x Uart(9line),4 x Uart(3line)
	USB	2 x USB 3.0,8 x USB2.0
	SATA	2 x SATA 3.0
	PCIe	5 port 5 lanes (1 X2 ,3 X1)
	GPIO	1 x 4bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	网络 Ethernet	Intel i210AT controller
	其他 others	1 x I ² C,1 x SMBus,1 x LPC,1 x Buzzer, 1 x KB/MS
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	5V
操作系统 OS Support	MS Windows	Windows 7/10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)95mm x (W)82mm
	净重 Gross Weight	0.04kg
环境 Environment	温度 Temperature	Operating:0°C~60°C with SSD;Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

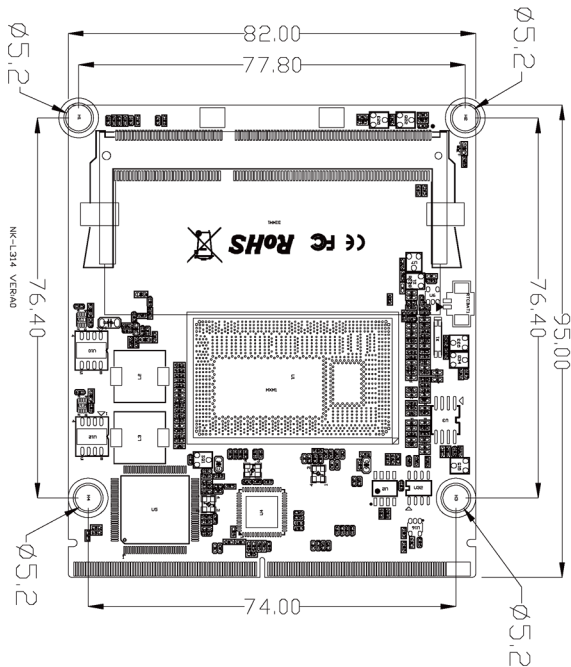
NK-L314-5005U/5300U/5500U

Intel® 5th Gen. U Core Processors, TDP 15W



- Intel® 5th Gen. U Dual Core Processors i3-5005U ,base Frequency 2.0GHz up to 2.9GHz),TDP 15W
- Intel® 5th Gen. U Dual Core Processors i5-5300U ,base Frequency 2.3GHz up to 2.9GHz),TDP 15W
- Intel® 5th Gen. U Dual Core Processors i7-5500U ,base Frequency 2.4GHz up to. 3.0GHz),TDP 15W
- Support 1 x DDR3L-1333/1600MHz SO-DIMM slot, up to 8GB
- Support 1 x eDP,2 x DDI Tri-display
- Type3 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

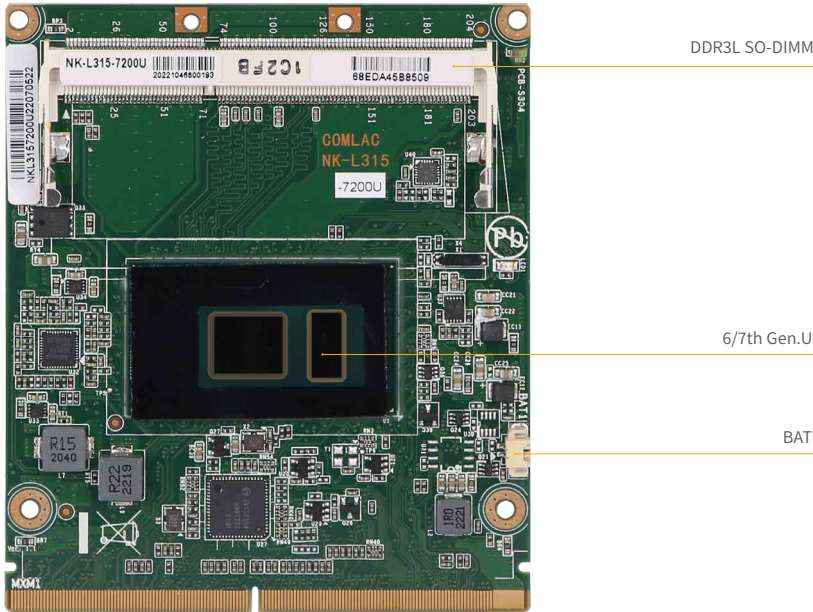


规格 Specification

项目		NK-L314-5005U/5300U/5500U
处理器 Processor System	CPU	Intel® 5th Gen. U Core Processors, TDP 15W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR3L-1333/1600MHz, up to 8GB
	插槽 Slot	1 x DDR3L 240-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI,1 x eDP
	串口 Serial Port	2 x Uart(9line),4 x Uart(3line)
	USB	2 x USB3.0,8 x USB2.0
	SATA	2 x SATA 3.0
	PCIe	5port 8 lanes(1 X4,4 X1)
	GPIO	1 x 4bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	网络 Ethernet	Intel i210AT controller
	其他 others	1 x I ² C,1 x SMBus,1 x LPC,1 x Buzzer, 1 x KB/MS
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	5V
操作系统 OS Support	MS Windows	Windows 7/10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)95mm x (W)82mm
	净重 Gross Weight	0.04kg
环境 Environment	温度 Temperature	Operating: 0°C~60°C with SSD;Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

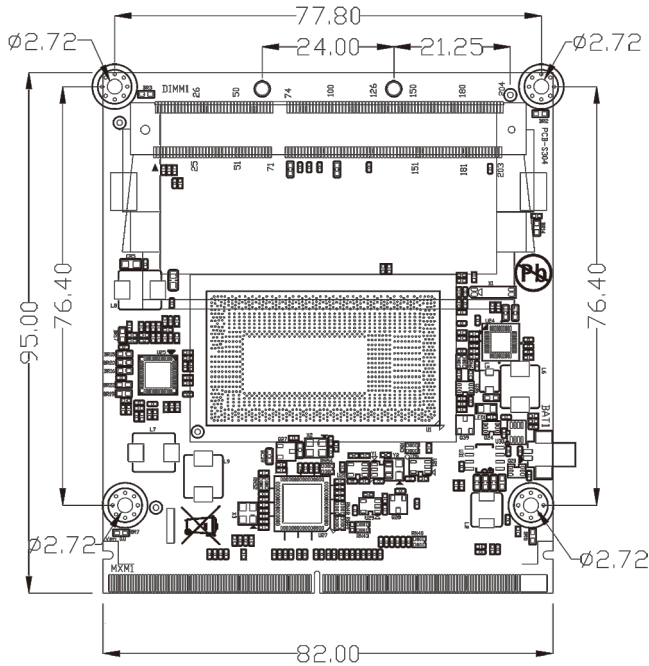
NK-L315-3855U/6200U/7200U/7600U

Intel® 6/7th Gen.U Celeron Core processor, TDP 15W



- Intel® Celeron® 3855U processor, Dual-core, base frequency 1.6GHz , TDP 15W
- Intel® Core™ i5-6200U processor, Dual-core, base frequency 2.3GHz up to 2.8GHz , TDP 15W
- Intel® Core™ i7-7600U processor, Dual-core, base frequency 2.8GHz up to 3.9GHz , TDP 15W
- Intel® Core™ i5-7200U processor, Dual-core, base frequency 2.5tGHz up to 3.1tGHz , TDP 15W
- Support 1 xDDR3L-1600MHz SO-DIMM slot, up to 8GB
- Support 1 xeDP,2 x DDI Tri-display
- Type3 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

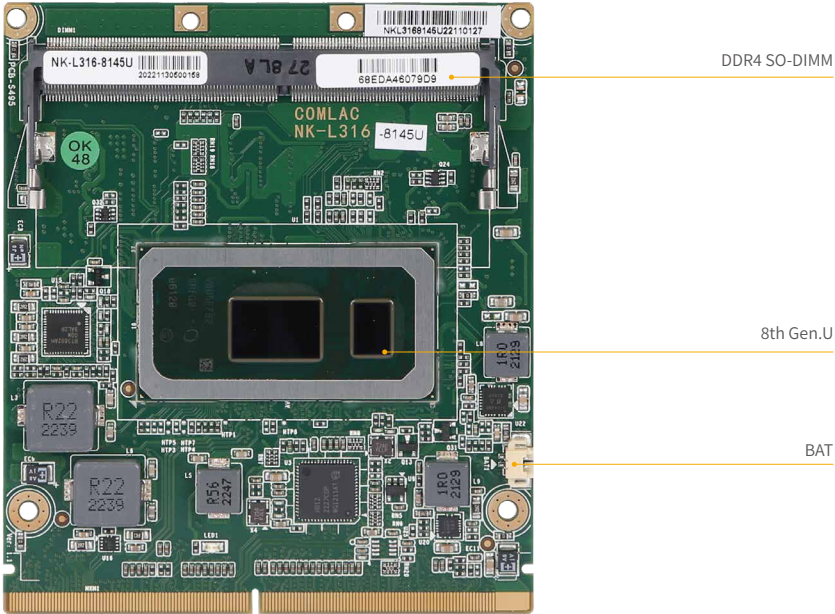


规格 Specification

项目		NK-L315-3855U/6200U/7200U/7600U
处理器 Processor System	CPU	Intel® 6/7th Gen.U Celeron Core processor, TDP 15W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR3L-1600MHz, up to 8GB
	插槽 Slot	1 x DDR3L 240-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI,1 x eDP
	串口 Serial Port	2 x Uart(9line),4 x Uart(3line)
	USB	4 x USB3.0 ,8x USB2.0
	SATA	2 x SATA 3.0
	PCIe	5 port 8 lanes(1 X4,1 X2,2 X1)
	GPIO	1 x 4bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	网络 Ethernet	Intel i210AT controller
	其他 others	1 x I²C,1 x SMbus,1 x LPC,1 x Buzzer,1 x KB/MS
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	5V
操作系统 OS Support	MS Windows	Windows 7(Only support with Intel 6th Gen. CPU),Windows 10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)95mm x (W)82mm
	净重 Gross Weight	0.04kg
环境 Environment	温度 Temperature	Operating:0°C~60°C with SSD; Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

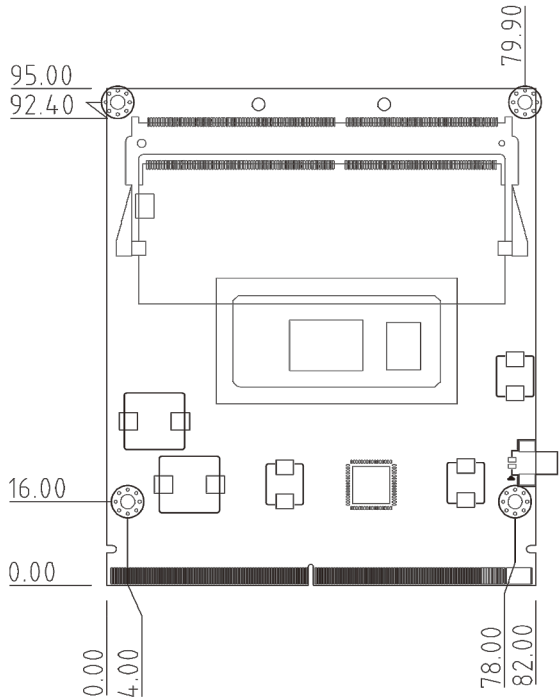
NK-L316-4205U/8145U/8265U

Intel® 8th Gen. U processor, TDP 15W



- Intel® Celeron®. 4205U processor, Dual-core, base frequency 1.8GHz , TDP 15W
- Intel® Core™. i3-8145U processor, Dual-core, base frequency 2.1GHz up to 3.9GHz , TDP 15W
- Intel® Core™. i5-8265Uprocessor, Quad-core, base frequency 1.6GHz up to 3.9GHz , TDP 15W
- Support 1 x DDR4-2400MHz SO-DIMM slot, up to 32GB
- Support 1 XeDP,2 x DDI Tri-display
- Type3 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

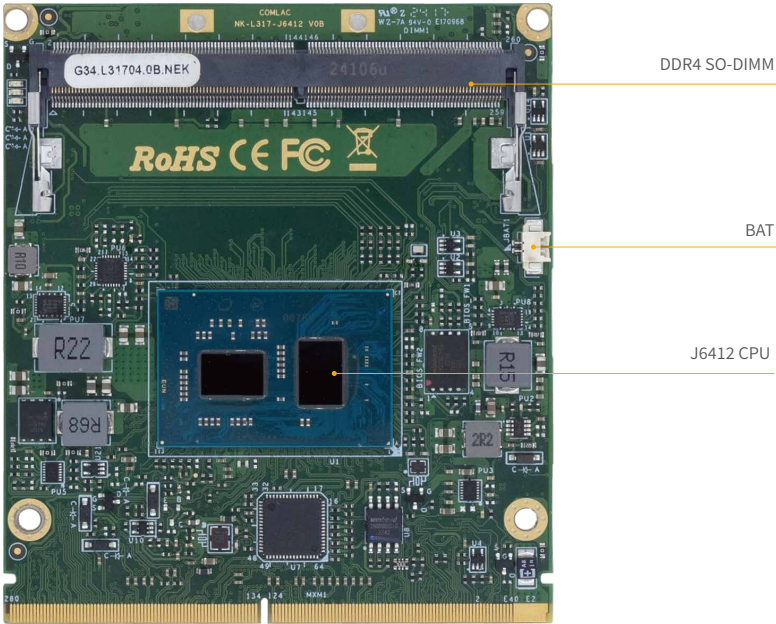


规格 Specification

项目		NK-L316-4205U/8145U/8265U
处理器 Processor System	CPU	Intel® 8th Gen. U processor, TDP 15W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR4-2400MHz, up to 32GB
	插槽 Slot	1 x DDR4 260-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI,1 x eDP
	串口 Serial Port	2 x Uart(9line),4 x Uart(3line)
	USB	4x USB3.0,8x USB2.0
	SATA	2 x SATA 3.0
	PCIe	5 port 8 lanes(1 X4,1 X2,2 X1)
	GPIO	1 x 4bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	网络 Ethernet	Intel i210AT controller
	其他 others	1 x I²C,1 x SMBus,1 x LPC,1 x Buzzer,1 x KB/MS
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	5V
操作系统 OS Support	MS Windows	Windows 10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)95mm x (W)82mm
	净重 Gross Weight	0.05kg
环境 Environment	温度 Temperature	Operating: 0°C~60°C with SSD;Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

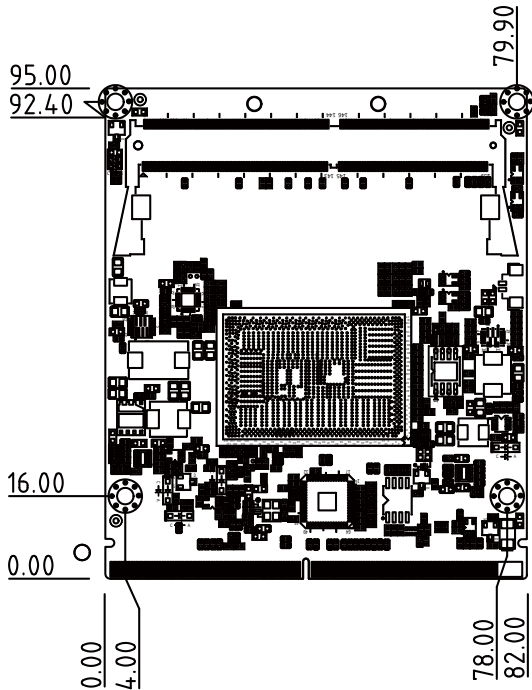
NK-L317-J6412

Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6GHz , TDP 10W



- Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6GHz , TDP 10W
- Support 1 x DDR4-3200MHz SO-DIMM slot, up to 32GB
- Support 2 x DDI,1 x eDP, Tri-Display
- Type3 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

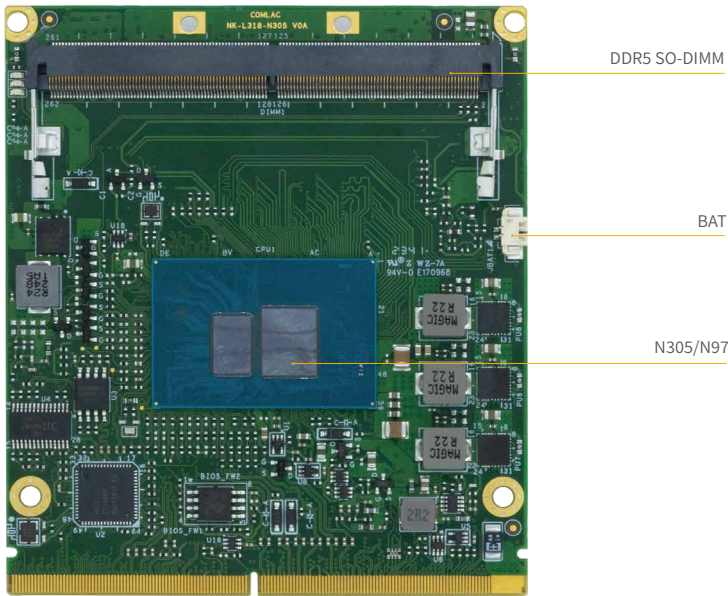


规格 Specification

项目		NK-L317-J6412
处理器 Processor System	CPU	Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6GHz , TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR4-3200MHz, up to 32GB
	插槽 Slot	1 x DDR4 260-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI,1 x eDP
	串口 Serial Port	2 x Uart(9 line),4 x Uart(3 line)
	USB	2 x USB3.0 ,8x USB2.0
	SATA	2 x SATA 3.0
	PCIe	5 port 5lanes(1 X2,3 X1)
	GPIO	1 x 4bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	网络 Ethernet	Intel i210AT controller
	其他 others	1 x eSPI,1 x I ² C,1 x SMBus,1 x Buzzer,1 x KB/MS
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	5V
操作系统 OS Support	MS Windows	Windows 10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)95mm x (W)82mm
	净重 Gross Weight	0.04kg
环境 Environment	温度 Temperature	Operating: 0°C~60°C with SSD;Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

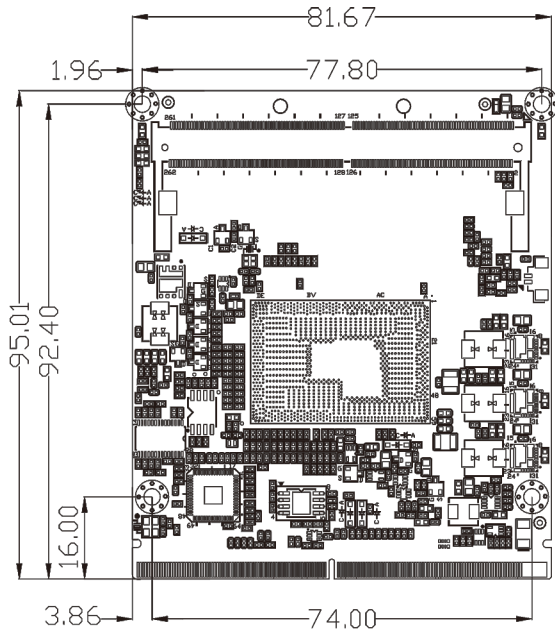
NK-L318-N305/N97

Intel® i3-N305/N97 Alder lake N processor,TDP 15W



- Intel® Core i3-N305 processor, Octa-core, Max frequency 3.8GHz , TDP 15W
- Intel® N-series N97 processor, Quad-core, Max frequency 3.6GHz , TDP 15W
- Support 1 x DDR5-4800MHz SO-DIMM slot, up to 16GB
- Support 2 x DDI,1 x eDP, Tri-Display
- Type3 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

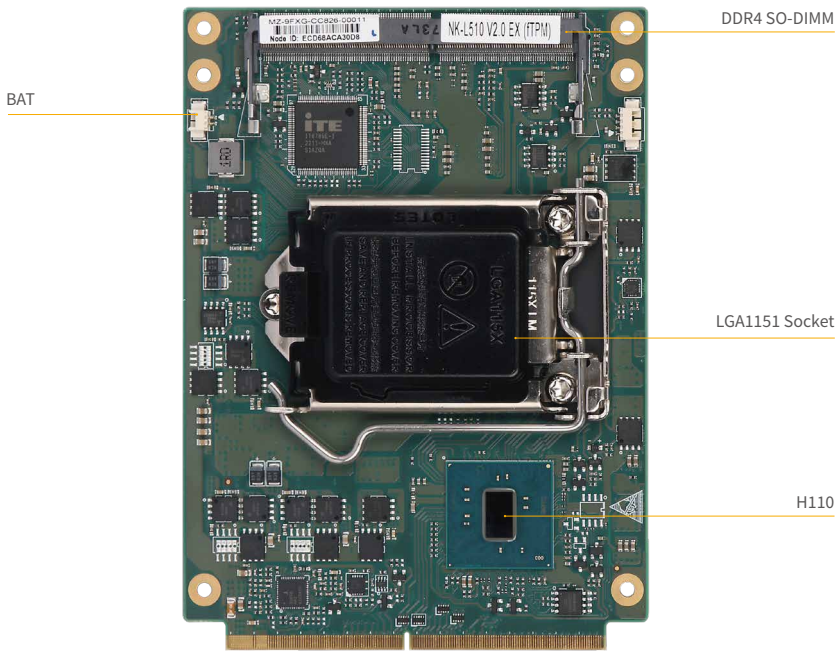


规格 Specification

项目		NK-L318-N305/N97
处理器 Processor System	CPU	Intel® i3-N305/N97 Alder lake N processor, 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 16GB
	插槽 Slot	1 x DDR5 262-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel® UHD Graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI, 1 x eDP
	串口 Serial Port	2 x Uart (9 line) , 4 x Uart (3 line)
	USB	2 x USB3.0 , 8 x USB2.0
	SATA	2 x SATA 3.0
	PCIe	4 port 4 lanes(1 X2, 2 X1)
	GPIO	1 x 4bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart FAN
	网络 Ethernet	Intel I210AT controller
	其他 others	1 x I²C, 1 x Smbus, 1 x Buzzer, 1 x eSPI, 1 x KB/MS
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	5V
操作系统 OS Support	MS Windows	Windows 10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)95mm x (W)82mm
	净重 Gross Weight	0.04kg
环境 Environment	温度 Temperature	Operating: 0°C ~60°C with SSD;Storage: -40°C ~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

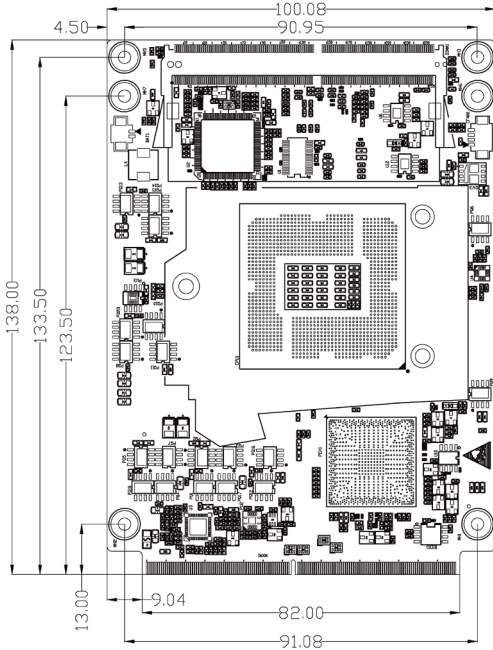
NK-L510-H110

Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series LGA1151 processor,TDP up to 65W



- Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series LGA1151 processor,TDP up to 65W
- Support dual channel(Non-ECC) DDR4--1866/2133/2400/2666MHz SO-DIMM slot, up to 64GB
- Support 2 x DDI, 1 x eDP,Dual-display
- Type5 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

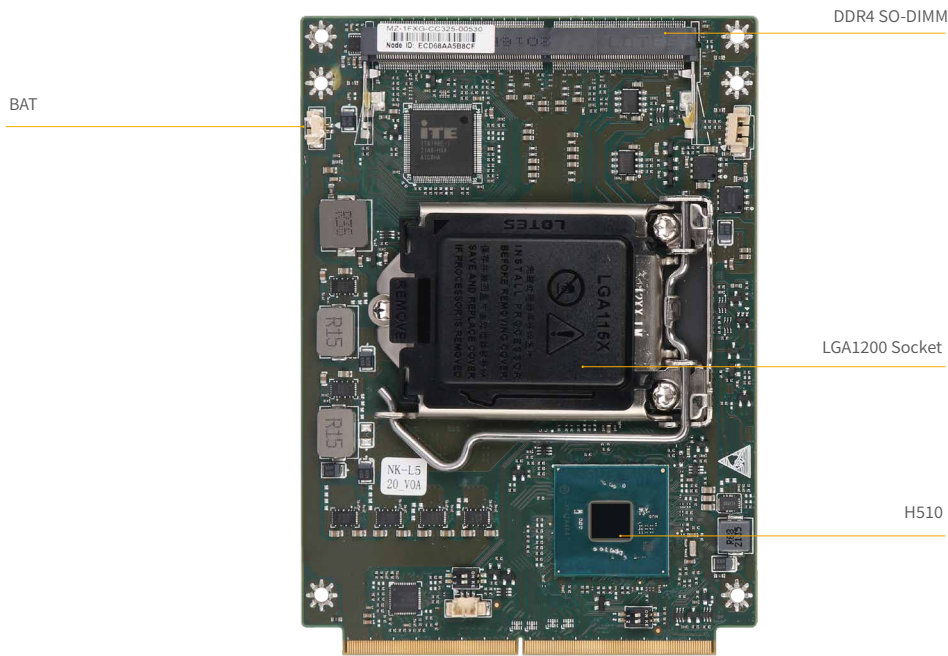


规格 Specification

项目		NK-L510-H110
处理器 Processor System	CPU	Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series LGA1151 processor,TDP up to 65W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4-1866/2133/2400/2666MHz, up to 64GB
	插槽 Slot	2 x DDR4 260-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI, 1 x eDP
	串口 Serial Port	2 x Uart(5line),4 x Uart(3line)
	USB	4 x USB3.0 ,8 x USB2.0
	SATA	2 x SATA 3.0
	PCIe	7 port 7 lanes (1 x4、2 X1、1xGBE (Only support Intel i219-V controller))
	PCIex16	1 x PCIe X16
	GPIO	1 x 2bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	其他 others	1 x I²C,1 x SMBus,1 x LPC,1 x Buzzer
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	12V
操作系统 OS Support	MS Windows	Windows 7 (Only support with Intel 6th Gen. CPU), Windows 10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)138mm x (W)100.1mm
	净重 Gross Weight	0.15kg
环境 Environment	温度 Temperature	Operating: 0°C~60°C with SSD; Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

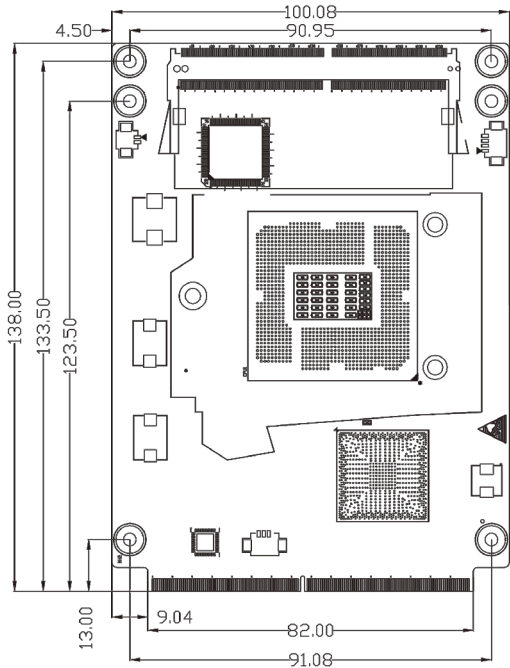
NK-L520-H510

Intel® 10/11 th Generation Celeron/Pentium/Core-I series LGA1200 processor,TDP up to 65W



- Intel® 10/11 th Generation Celeron/Pentium/Core-I series LGA1200 processor,TDP up to 65W
- Support dual channel(Non-ECC) DDR4-3200MHz SO-DIMM slot, up to 64GB
- Support 2 x DDI, 1 x eDP,Dual-display
- Type5 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)

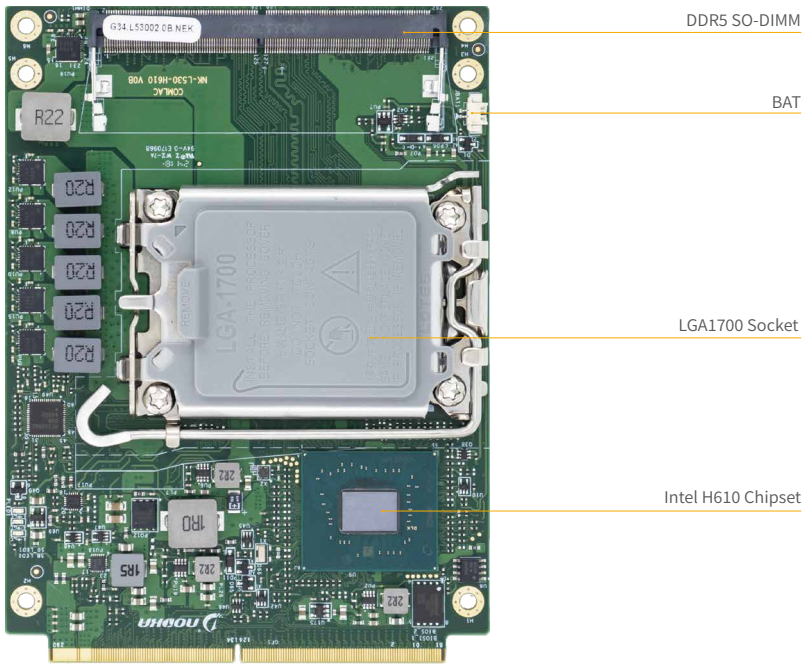


规格 Specification

项目		NK-L520-H510
处理器 Processor System	CPU	Intel® 10/11 th Generation Celeron/Pentium/Core-I series LGA1200 processor,TDP up to 65W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4-3200MHz, up to 64GB
	插槽 Slot	2 x DDR4 260-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Intel HD graphics integrated
扩展信口 Expansion Signals	显示 Display	2 x DDI, 1 x eDP
	串口 Serial Port	2 x Uart(5line),4 x Uart(3line)
	USB	4 x USB3.0,8 x USB2.0
	SATA	2 x SATA 3.0
	PCIe	6 port 6 lanes (1 X4,2 X1)
	PCIex16	1 x PCIe x 16
	GPIO	1 x 2bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	其他 others	1 x I²C,1 x SMBus,1 x LPC,1 x Buzzer
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	12V
操作系统 OS Support	MS Windows	Windows 10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)138mm x (W)100.1mm
	净重 Gross Weight	0.16kg
环境 Environment	温度 Temperature	Operating :0°C~60°C with SSD ;Storage : -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

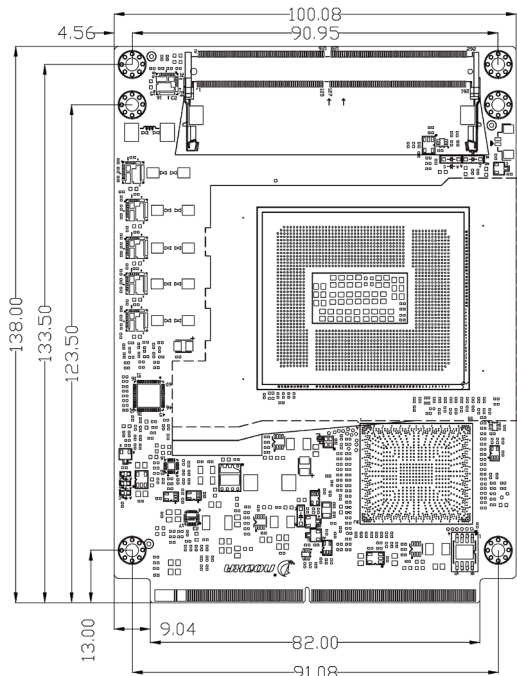
NK-L530-H610

Intel® 12/13 th Generation Celeron/Pentium/Core-I series LGA1700 processor,TDP up to 65W



- Intel® 12/13 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

尺寸图 Size(Unit:mm)

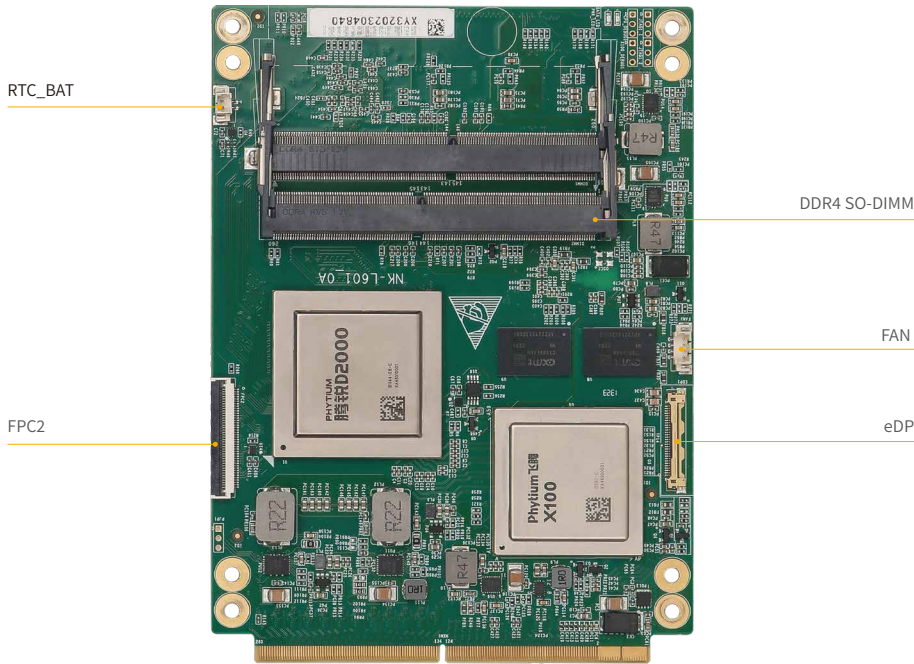


规格 Specification

项目		NK-L530-H610
处理器 Processor System	CPU	Intel® 12/13th Generation Celeron/Pentium/Core-I series processor, TDP up to 65W
	插槽 Socket	LGA1700
	芯片组 Chipset	Intel H610/H610E
内存 Memory	BIOS	AMI 256Mb UEFI BIOS
	技术 Technology	Dual Channel(Non-ECC) DDR5-4800MHz, up to 64GB
图形 Graphic	插槽 Slot	2 x DDR5 262-pin SO-DIMM slot
扩展接口 Expansion Signals	控制器 Controller	Intel® UHD Graphics integrated
	显示 Display	2 x DDI, 1 x eDP
	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
	PCIE	6 port 7 lanes (1 X4,2 X1, 1xGBE (Only support Intel i219-V controller))
	PCIE X16	1 x PCIeX16
	GPIO	1 x 2bit GPIO
	音频 Audio	1 x Intel HDA Audio codec
	Fan	1 x Smart Fan
	其他others	1 x I²C,1 x SMBus,1 x LPC,1 x Buzzer
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	Power input	12V
操作系统 OS Support	MS Windows	Windows10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)138mm x (W)100.1mm
	净重 Gross Weight	0.18kg
环境 Environment	温度 Temperature	Operating: 0°C~60°C with SSD;Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

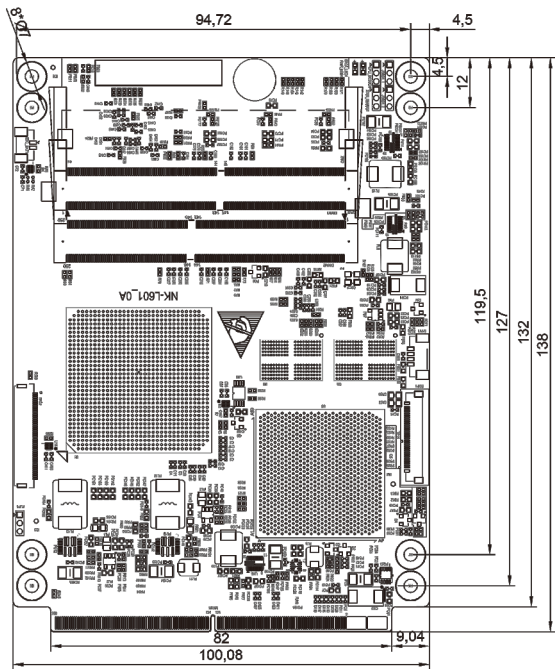
NK-L601-D2000

Phytium D2000 Processor, 8-core, base frequency 2.0GHz up to 2.6GHz , TDP 55W



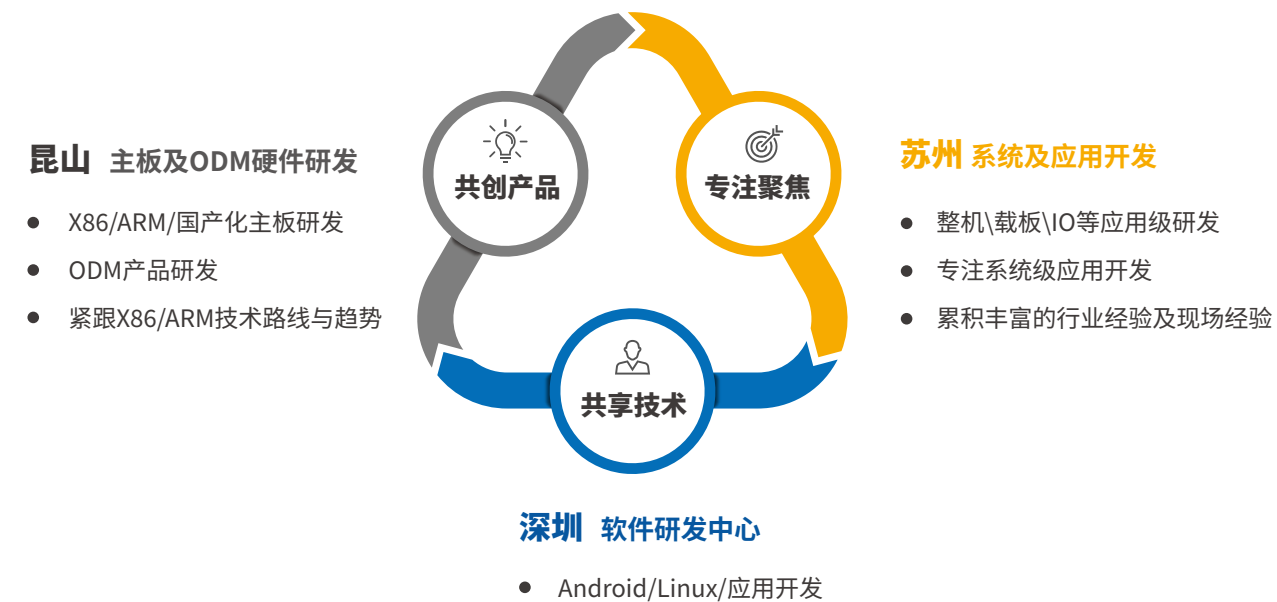
- Phytium D2000 Processor, 8-core, base frequency 2.0GHz up to 2.6GHz , TDP 55W
- Support 2 x DDR4-2666MHz SO-DIMM slot, up to 64GB
- Support 1 x eDP, Can be displayed by extension on the board
- Type6 Interface Signals with MXM3.0 Gold Finger

尺寸图 Size(Unit:mm)



规格 Specification

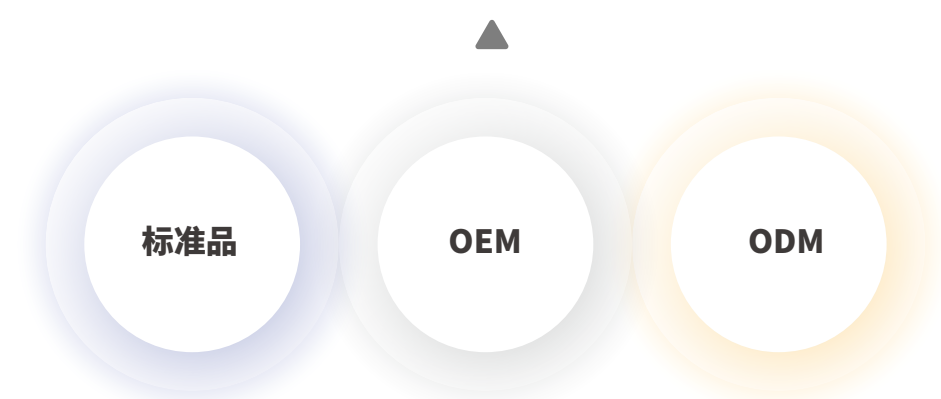
项目		NK-L601-D2000
处理器 Processor System	CPU	Phytium D2000 Processor, 8-core, base frequency 2.0GHz up to 2.6GHz , TDP 55W
	芯片组 Chipset	Phytium X100
	BIOS	UEFI
内存 Memory	技术 Technology	Dual-Channel(Non-ECC/ECC)DDR4-2666MHz,up to 64GB
	插槽 Slot	2 x DDR4 260-pin SO-DIMM slot
图形 Graphic	控制器 Controller	Independent video memory with CXMT 4GB LPDDR4
MXM接口	显示 Display	3 x DDI
	PCIE	1 x PCIe16 or 2*PCIEx8
		1 x PCIe4
		2 x PCIe2
		2 x PCIe1
	SATA	2 x SATA 3.0 (6Gpbs)
	USB	4 x USB3.0 (5Gb/s) 2 x USB2.0 (480Mbps)
	DP	2 x DP
	串口 Serial Port	1 x Uart for debug
	串口 Serial Port	6 x Uart ¹
FPC1 Connect	CAN	2 x CAN
	GPIO	8 x GPIO
	USB	2 x USB2.0
FPC2 Connect	GPIO	12 x GPIO
	HDA	1 x HDA
操作系统 OS Support	Linux	KylinOS, 统信UOS
机械参数Mechanism	尺寸 Dimensions	(L)138mm x(W)100mm
	净重 Gross Weight	0.10kg
环境Environment	温度 Temperature	Operating:-20°C~50°C with industrial environment;-40°C~60°C with wide temperature
		Storage:-25°C~55°C with Industrial;-45°C~65°C with wide temperature
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating



全制程制造优势, 快速响应用户需求, 满足少量多样定制

灵活满足客户贴牌及基于标品小幅定制服务

基于标准品贴牌服务



多样化标准产品

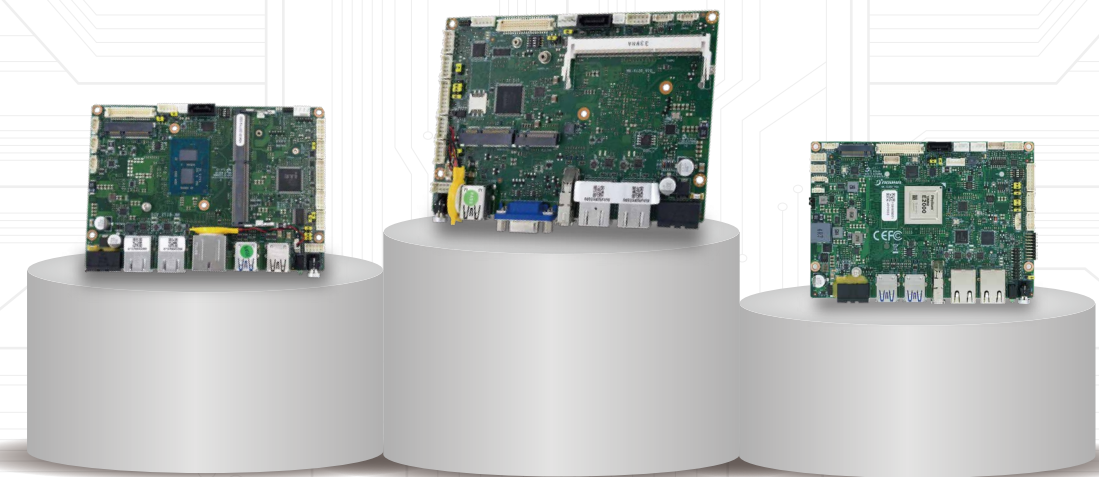
标准3.5/Micro-ATX/ATX工业主板/COMLAC
标准核心模块
质保三年, 即时交付

基于客户需求定制服务

完备的硬件及软件研发能力满足客户多
样化主板及载板定制需求

嵌入式工业主板

3.5寸嵌入式工业主板, 全面覆盖低功耗、国产化CPU平台, 旨在满足不同的垂直市场需求, 专注于自动化、机器人控制、AGV等, 对产品尺寸有较高要求的行业应用。



CPU性能全面覆盖



- 高可靠性、低功耗
- 国产化芯片
- 系统集成设计

可靠设计



- 可选支持-10~60℃宽温工作
- 12-24V宽压DC-IN电源输入
- 优化散热解决方案

客制化与设计整合服务



- 认证测试/方案验证
- 散热解决方案与I/O扩展方案

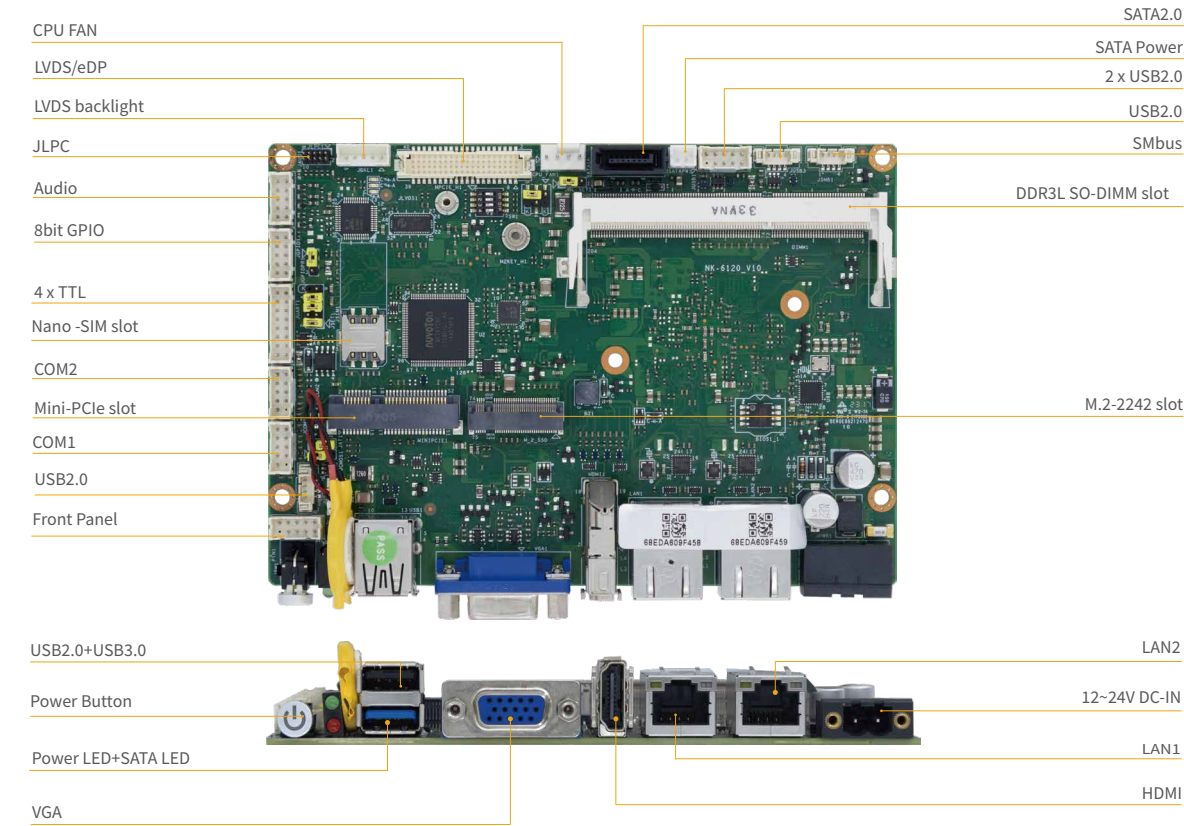
可扩展设计



- 丰富I/O
- 灵活选配各种扩展模块

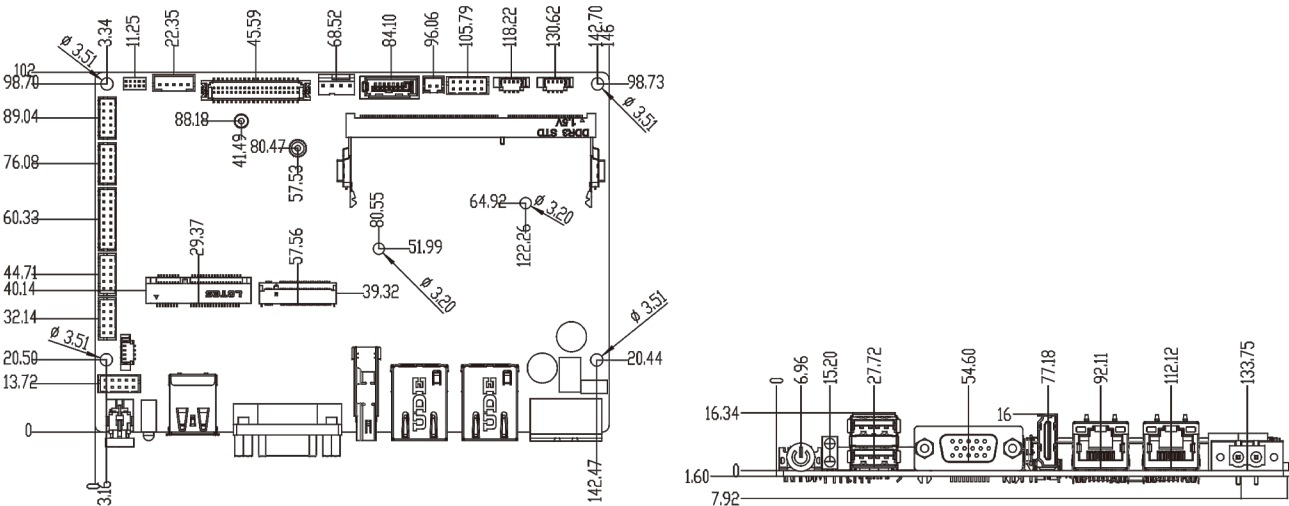
NK-6120

Intel® Celeron® J1900 processor, Quad-core, base frequency 2.0GHz, TDP 10W



- Intel® Celeron® J1900 processor, Quad-core, base frequency 2.0GHz, up to 2.42GHz, TDP 10W
- Support 1x DDR3L-1333MHz SO-DIMM slot, up to 8GB
- Support VGA, HDMI, LVDS/eDP Dual-display
- 2 x Giga-bit Ethernet
- 1 x USB3.0 port, 5 x USB2.0 ports
- 1 x RS232/485, 1 x RS232, 4 x TTL
- 1 x M.2-2242, 1 x Mini-PCle slot with nano-SIM card socket
- 12~24V power input, lockable DC-IN phoenix terminal block

尺寸图 Size(Unit:mm)

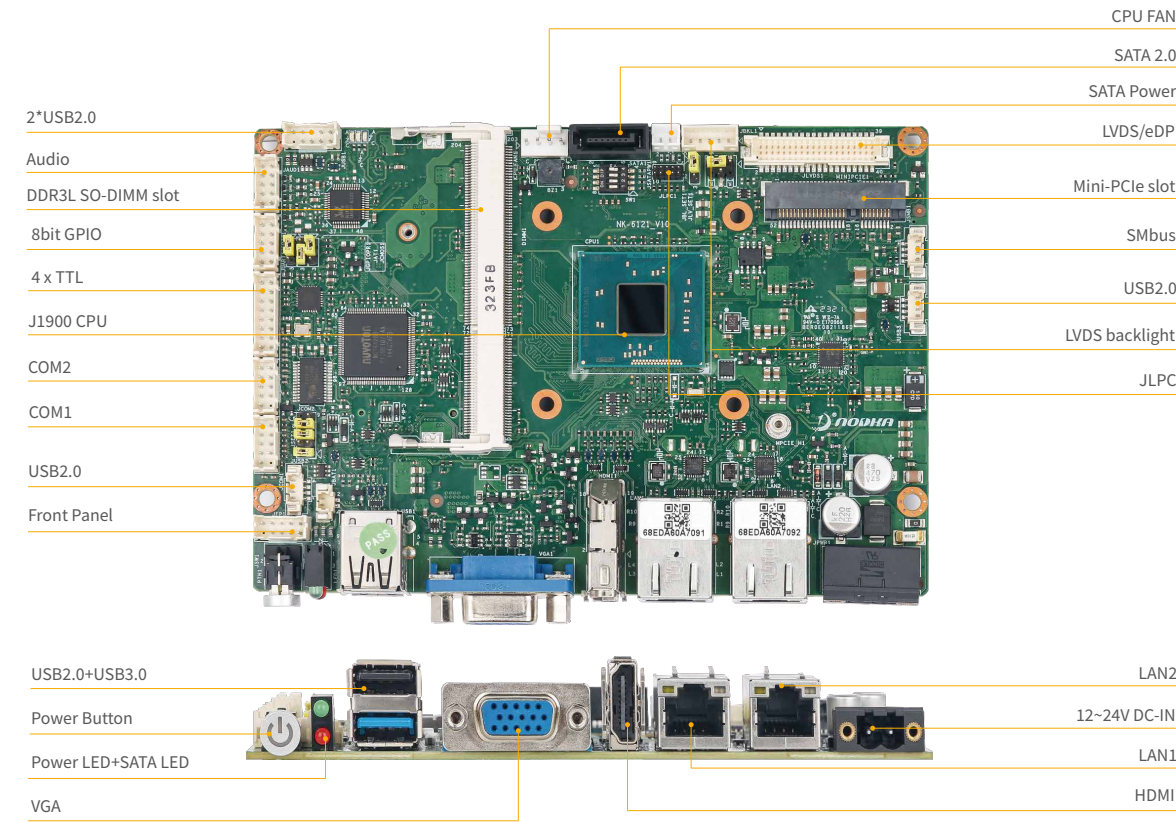


规格 Specification

项目		NK-6120
处理器 Processor System	CPU	Intel® Celeron® J1900 processor 2.0GHz, TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 64Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR3L 1333MHz, up to 8GB
	插槽 Slot	1 x DDR3L 240-pin SO-DIMM slot
存储 Storage	SATA	1 x SATA2.0 port
	M.2	1 x M.2-2242 M Key SSD slot(SATA2.0 Signal)
图形 Graphic	控制器 Controller	Intel HD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC897codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 2560x1600@60Hz; 1 x HDMI, resolution to 1920x1080@60Hz
	网络 Ethernet	2 x GbE(RJ45), Realtek 8111H controller
	USB	1 x USB3.0(5Gbps), 1 x USB2.0(480Mbps)
	开关按钮 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
	指示灯 Indicators	1 x SATA LED(Red), 1 x Power LED(Green)
内部接口 Internal I/O	显示 Display	1 x LVDS, dual channel 18/24bit, resolution up to 1920x1200@60Hz 1 x eDP1.3, max resolution up to 3840x2160@60Hz(share connector with LVDS)
	音频 Audio	1 x Audio wafer(Mic-in/Line-out, 2*5pin)
	USB	2 x USB2.0 wafer(1*4pin), 2 x USB2.0 wafer(1 x 2*5pin)
	串口 Serial Port	1 x RS232/485 wafer(2*5pin), 1 x RS232 wafer(2*5pin),4 x TTL wafer(2*8pin)
	风扇 Fan	1 x Smart Fan wafer(1*4pin)
	Smbus	1 x Smbus wafer(1*4pin)
	LPC	1 x LPC header for debug
	GPIO	1 x 8bit GPIO(2*5pin)
	其他 Others	1 x Front panel wafer(2*5pin)(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	Mini-PCle slot	1 x Mini-PCle slot with Nano-SIM socket (PCle/USB2.0)
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	类型 Type	12~24V DC input, +/-10% tolerance
	接口 Interface	1 x 2-pin phoenix terminal block
	Power Consumption	16.3W (Idle mode), 17.5W(Typical mode)
操作系统 O.S Support	MS Windows	Windows7/10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.14kg
环境 Environment	温度 Temperature	Operating: -10°C~60°C with SSD,Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

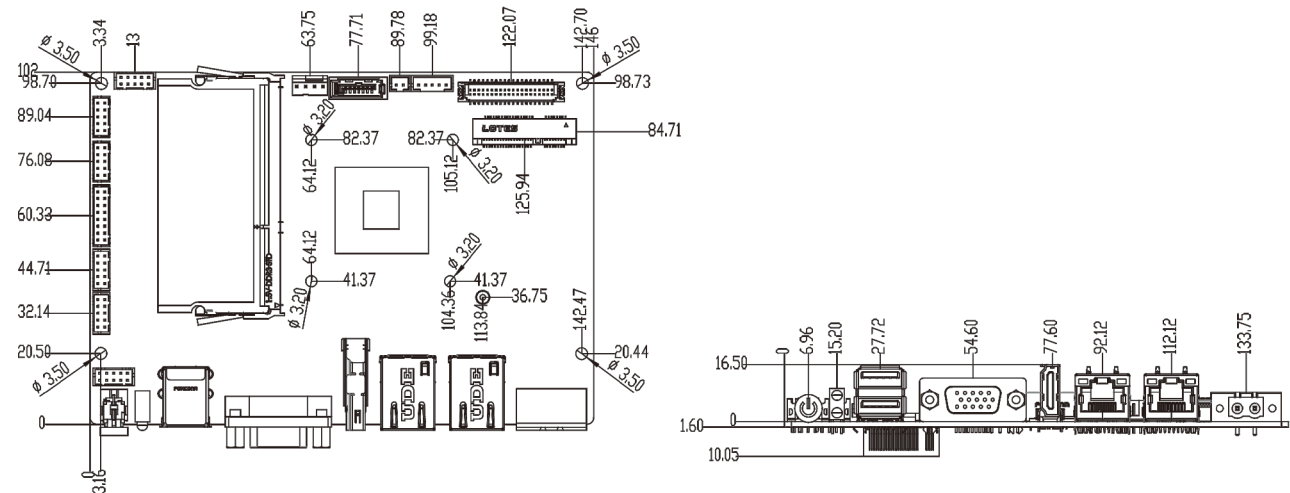
NK-6121

Intel® Celeron® J1900 processor, Quad-core, base frequency 2.0GHz, up to 2.42GHz, TDP 10W



- Intel® Celeron® J1900 processor, Quad-core, base frequency 2.0GHz, up to 2.42GHz, TDP 10W
- Support 1xDDR3L-1333MHz SO-DIMM slot, up to 8GB
- Support VGA, HDMI, LVDS/eDP Dual-display
- 2xGiga-bit Ethernet
- 1xUSB3.0 port, 5xUSB2.0 ports
- 1xRS232/485, 1xRS232, 4xTTL
- 1 x M.2-2242 and 1 x Mini-PCle slot with nano-SIM card socket
- 12~24V power input, lockable DC-IN phoenix terminal block

尺寸图 Size(Unit:mm)

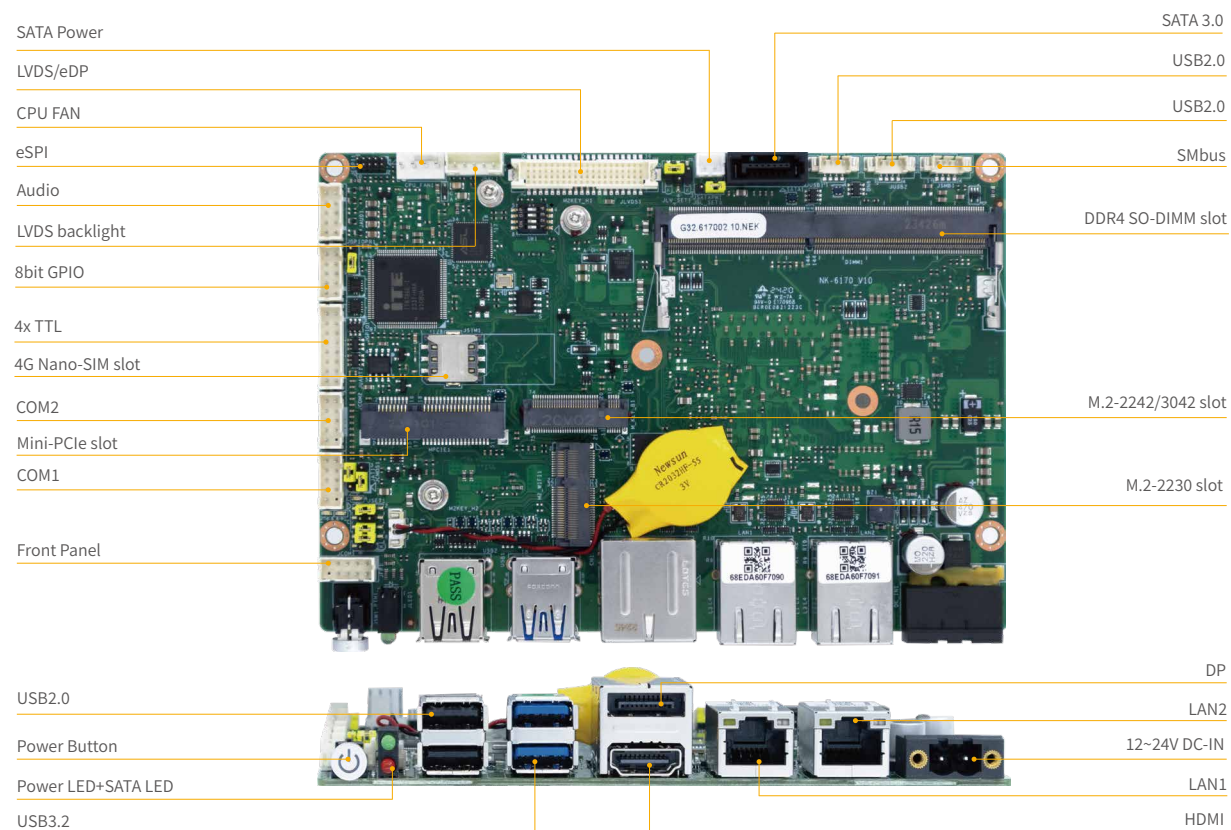


规格 Specification

项目		NK-6121
处理器 Processor System	CPU	Intel® Celeron® J1900 processor, Quad-core, base frequency 2.0GHz, up to 2.42GHz, TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 64Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR3L-1333MHz, up to 8GB
	插槽 Slot	1 x DDR3L SO-DIMM slot
存储 Storage	SATA	1 x SATA2.0 port
	M.2	1 x M.2-2242 M Key SSD slot(SATA2.0)
图形 Graphic	控制器 Controller	Intel HD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC897 codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 2560x1600@60Hz 1 x HDMI, resolution to 1920x1080@60Hz
	网络 Ethernet	2 x GbE(RJ45), Realtek 8111H controller
	USB	1 x USB3.0(5Gbps), 1 x USB2.0(480Mbps)
	开关按键 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
	指示灯 Indicators	1 x SATA LED(Red), 1 x Power LED(Green)
内部接口 Internal I/O	显示 Display	1 x LVDS, dual channel 18/24bit, resolution up to 1920x1200@60Hz 1 x eDP1.3, max resolution up to 3840x2160@60Hz(share connector with LVDS)
	音频 Audio	1 x Audio wafer(Mic-in/Line-out, 2*5pin)
	USB	2 x USB2.0 wafer(1*4pin), 2 x USB2.0 wafer(1 x 2*5pin)
	串口 Serial Port	1 x RS232/RS485 wafer(2*5pin), 1 x RS232 wafer(2*5pin),4 x TTL wafer(2*8pin)
	风扇 Fan	1 x Smart Fan wafer(1*4pin)
	Smbus	1 x Smbus wafer(1*4pin)
	LPC	1 x LPC header for debug
	GPIO	1 x 8bit GPIO(2*5pin)
	其他 Others	1 x Front panel wafer(2*5pin)(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	Mini-PCle slot	1 x Mini-PCle slot with Nano-SIM socket(PCle/USB2.0)
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	类型 Type	12~24V DC input, +/-10% tolerance
	接口 Interface	1 x 2-pin phoenix terminal block
	Power Consumption	16.3W(Idle mode), 17.5W(Typical mode)
操作系统 O.S Support	MS Windows	Windows7/10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.13kg
环境 Environment	温度 Temperature	Operating: -10°C~60°C with SSD; Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz,3Grms operating

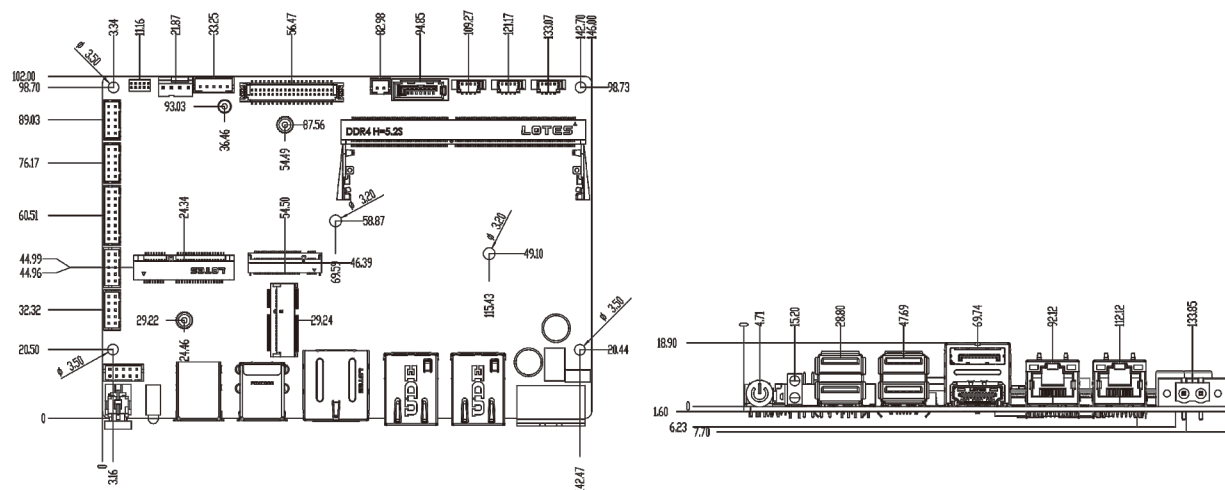
NK-6170

Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6 GHz, TDP 10W



- Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6 GHz, TDP 10W
- Support 1x DDR4-3200MHz SO-DIMM slot, up to 32GB
- Support DP, HDMI, LVDS/eDP Tri-display
- 2 x Giga-bit Ethernet
- 2 x USB3.2ports, 4 x USB2.0 ports
- 1 x RS232/485, 1 x RS232, 4 x TTL
- 1 x M.2-2230, 1 x M.2-2242/3042 and 1 x Mini-PCIe slot with nano-SIM card socket
- 12~24V power input, lockable DC-IN phoenix terminal block

尺寸图 Size(Unit:mm)

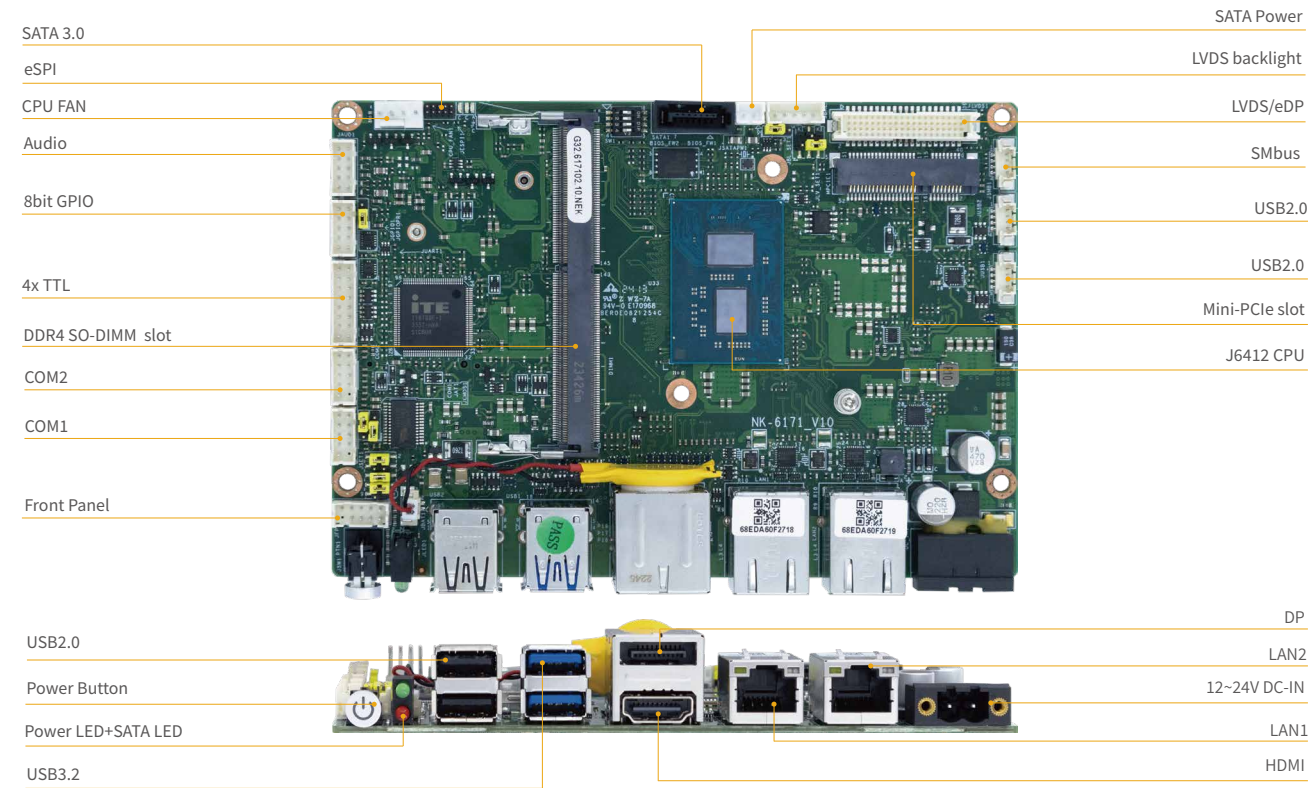


规格 Specification

项目		NK-6170
处理器 Processor System	CPU	Intel® Celeron® J6412 processor (2.0GHz, up to 2.6GHz),TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR4 3200MHz, up to 32GB
	插槽 Slot	1 x DDR4 SO-DIMM slot
存储 Storage	SATA	1 x SATA3.0 port
	M.2	1 x M.2-2242 B Key SSD slot(SATA3.0)
图形 Graphic	控制器 Controller	Intel® UHD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC897 codec
外部接口 Rear I/O	显示 Display	1 x DP1.4, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution to 4096 x 2160@30Hz
	网络 Ethernet	2 x GbE(RJ45), Realtek 8111H controller
	USB	2 x USB3.2(10Gbps), 2 x USB2.0(480Mbps)
	开关按键 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
	指示灯 Indicators	1 x SATA LED(Red), 1 x Power LED(Green)
内部接口 Internal I/O	显示 Display	1 x LVDS, dual channel 18/24bit, resolution up to 1920x1200@60Hz
		1 x eDP1.3, resolution up to 4096x2160@60Hz(share connector with LVDS)
	音频 Audio	1 x Audio wafer(Mic-in/Line-out, 2*5pin)
	USB	2 x USB2.0 wafer(1*4pin)
	串口 Serial Port	1 x RS232/RS485 wafer(2*5pin), 1 x RS232 wafer(2*5pin), 4 x TTL wafer(2*8pin)
	风扇 Fan	1 x Smart Fan wafer(1*4pin)
	SMbus	1 x SMbus wafer(1*4pin)
	eSPI	1 x eSPI header for debug
	GPIO	1 x 8bit GPIO(2*5pin)
	其他 Others	1 x Front panel wafer(2*5pin)(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	M.2 slot	1xM.2-3042BKeyslotwith Nano-SIM socket for 5G module (USB3.0 Signal, share connector with M.2-2242)
		1 x M.2-2230 E key slot for wifi module(PCIe/USB2.0)
	Mini-PCIe slot	1 x Mini-PCIe slot with Nano-SIM socket
安全 Security	TPM	fTPM2.0 supported
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	类型 Type	12~24V DC input, +/-10% tolerance
	接口 Interface	1 x 2-pin phoenix terminal block
	Power Consumption	16.3W(Idle mode), 17.5(Typical mode)
操作系统 O.S Support	MS Windows	Windows10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.14kg
环境 Environment	温度 Temperature	Operating: -10°C~60°C with SSD Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

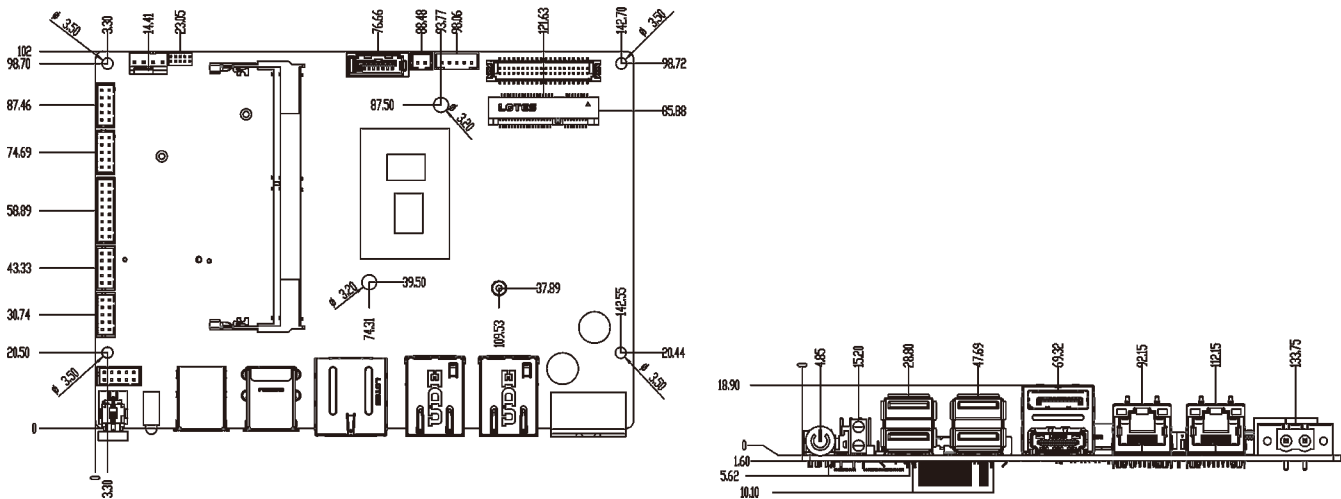
NK-6171

Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz, up to 2.6 GHz, TDP 10W



- Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz, up to 2.6 GHz, TDP 10W
- Support 1x DDR4-3200MHz SO-DIMM slot, up to 32GB
- Support DP, HDMI, LVDS/eDP Tri-display
- 2 x Giga-bit Ethernet
- 2 x USB3.2 ports, 4 x USB2.0 ports
- 1 x RS232/485, 1 x RS232, 4 x TTL
- 1 x M.2-2242, 1 x M.2-2230, 1 x Mini-PCIe slot with nano-SIM card socket
- 12~24V power input, lockable DC-IN phoenix terminal block

尺寸图 Size(Unit:mm)

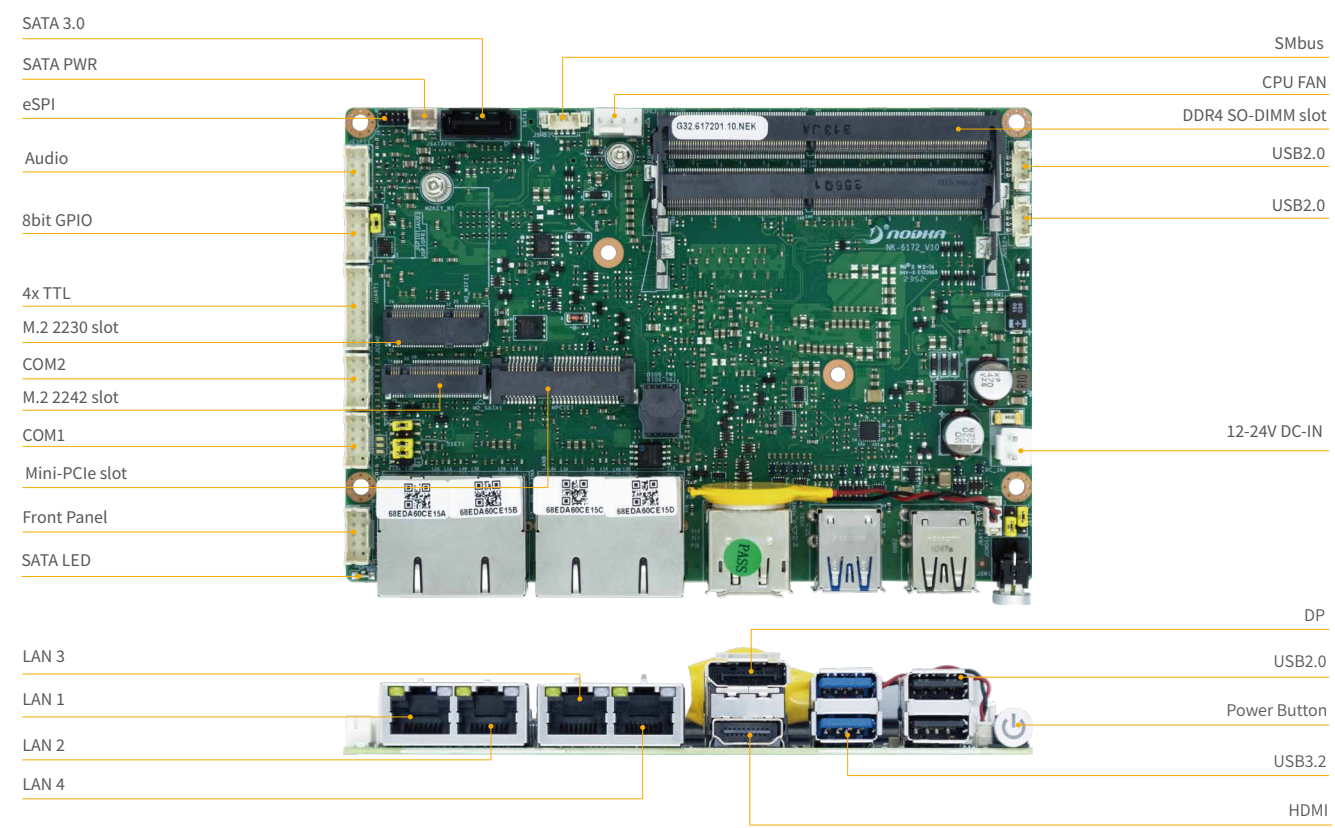


规格 Specification

项目		NK-6171
处理器 Processor System	CPU	Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6GHz, TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR4 3200MHz, up to 32GB
	插槽 Slot	1 x DDR4 SO-DIMM slot
存储 Storage	SATA	1 x SATA3.0 port
	M.2	1 x M.2-2242 M Key SSD slot(SATA3.0)
图形 Graphic	控制器 Controller	Intel® UHD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC897 codec
外部接口 Rear I/O	显示 Display	1 x DP1.4, resolution up to 4096x2160@60Hz 1 x HDMI, resolution to 4096x2160@30Hz
	网络 Ethernet	2 x GbE(RJ45), Realtek 8111H controller
	USB	2 x USB3.2(10Gbps), 2 x USB2.0(480Mbps)
	开关按键 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
	指示灯 Indicators	1 x SATA LED(Red), 1 x Power LED(Green)
内部接口 Internal I/O	显示 Display	1 x LVDS, dual channel 18/24bit, resolution up to 1920x1200@60Hz 1 x eDP1.3, resolution up to 4096x2160@60Hz(share connector with LVDS)
	音频 Audio	1 x Audio wafer(Mic-in/Line-out, 2*5pin)
	USB	2 x USB2.0 wafer(1*4pin)
	串口 Serial Port	1 x RS232/485 wafer(2*5pin), 1 x RS232 wafer(2*5pin), 4 x TTL wafer(2*8pin)
	风扇 Fan	1 x Smart Fan wafer(1*4pin)
	SMbus	1 x SMbus wafer(1*4pin)
	GPIO	1 x 8bit GPIO(2*5pin)
	eSPI	1 x eSPI header for debug
	其他 Others	1 x Front panel wafer(2*5pin)(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	M.2 slot	1 x M.2-2230 E key slot for wifi module(PCIe/USB2.0)
	Mini-PCIe slot	1 x Mini-PCIe slot with Nano-SIM socket(PCIe/USB2.0)
安全 Security	TPM	fTPM2.0 supported
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	类型 Type	12~24V DC input, +/-10% tolerance
	接口 Interface	1 x 2-pin phoenix terminal block
	Power Consumption	16.3W(Idle mode), 17.5W(Typical mode)
操作系统 O.S Support	MS Windows	Windows10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.14kg
环境 Environment	温度 Temperature	Operating: -10°C~60°C with SSD Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

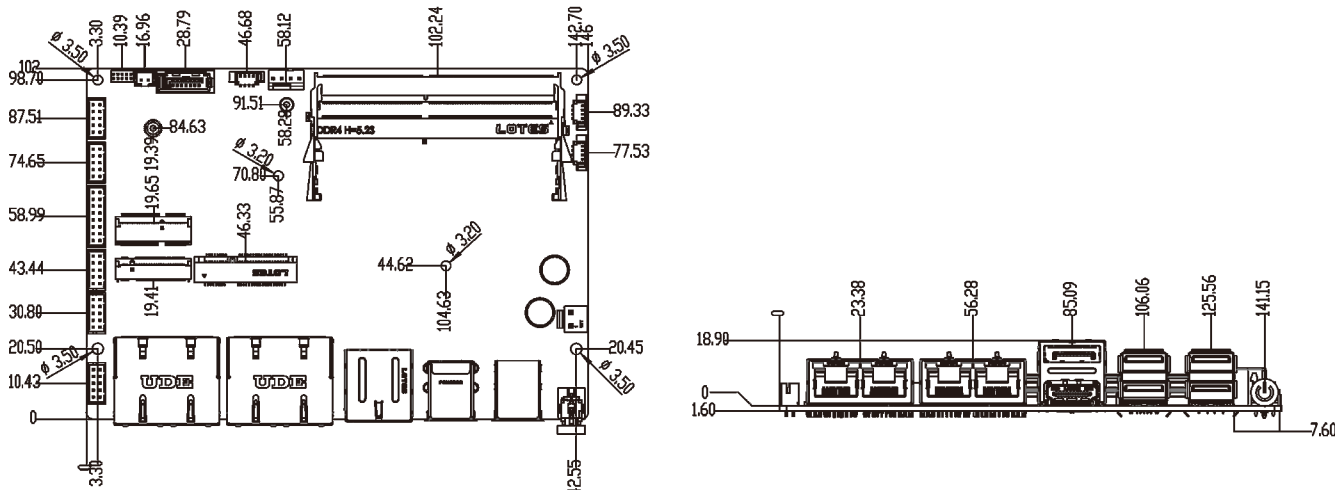
NK-6172

Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6 GHz, TDP 10W



- Intel® Celeron® J6412 processor, Quad-core, base frequency 2.0GHz up to 2.6 GHz, TDP 10W
- Support 2 x DDR4-3200MHz SO-DIMM slot, up to 32GB
- Support DP, HDMI, Dual-display
- 4 x Giga-bit Ethernet
- 2 x USB3.2 ports, 4 x USB2.0 ports
- 1 x RS232/485, 1 x RS232, 4 x TTL
- 1 x M.2-2242,1 x M.2-2230,1 x Mini-PCIe slot with nano-SIM card socket
- 12~24V power input, 1 x 2P VH 型 Pitch=3.96mm

尺寸图 Size(Unit:mm)

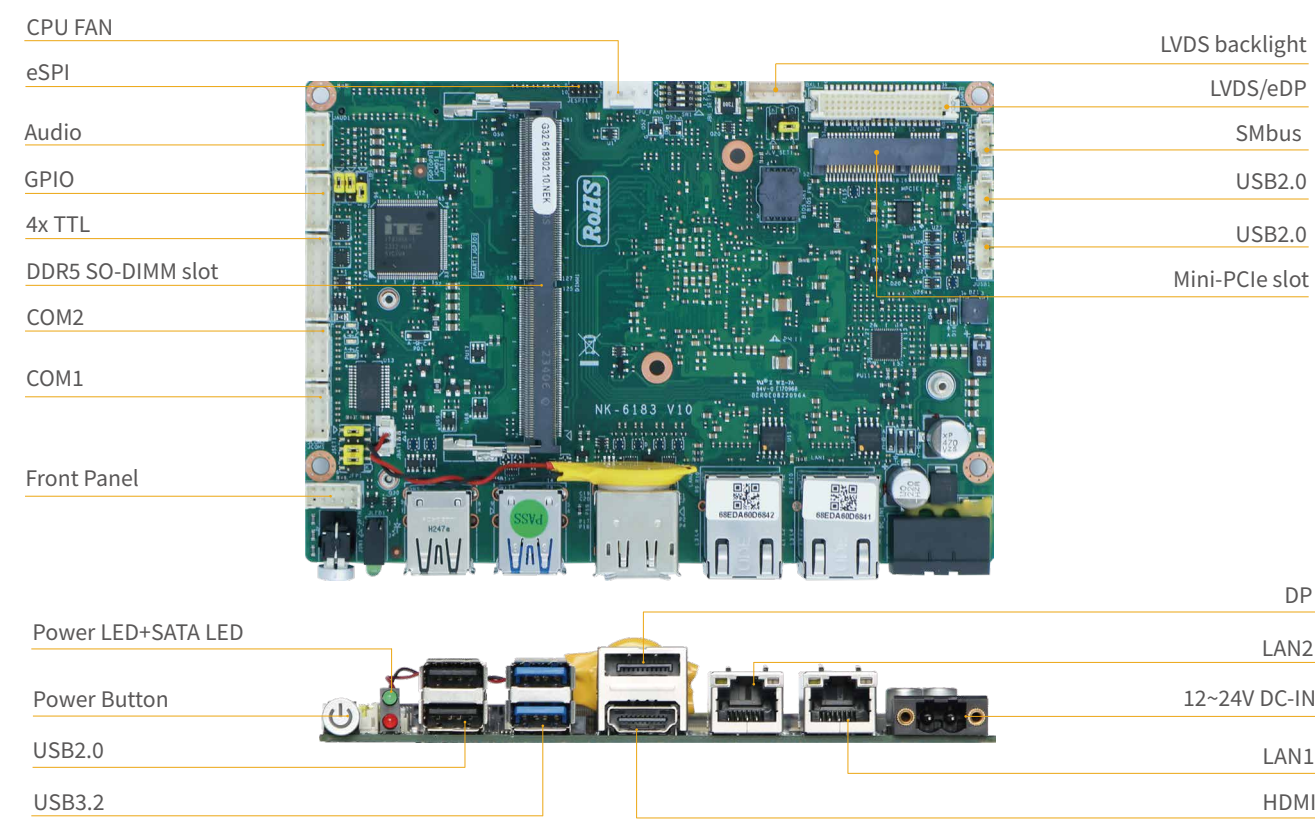


规格 Specification

项目		NK-6172
处理器 Processor System	CPU	Intel® Celeron® J6412 processor (2.0GHz, up to 2.6GHz), TDP 10W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4 3200MHz, up to 32GB
	插槽 Slot	2 x DDR4 SO-DIMM slot
存储 Storage	SATA	1 x SATA3.0 port
	M.2	1 x M.2-2242 M Key SSD slot (SATA3.0)
图形 Graphic	控制器 Controller	Intel® UHD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC897 codec
外部接口 Rear I/O	显示 Display	1 x DP1.4, resolution up to 4096x2160@60Hz 1 x HDMI, resolution to 4096x2160@30Hz
	网络 Ethernet	4 x GbE(RJ45), Intel i210AT controller
	USB	2 x USB3.2(10Gbps), 2 x USB2.0(480bps)
	开关按键 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
	指示灯 Indicators	1 x SATA LED(Green), 1 x Power LED(White)
内部接口 Internal I/O	USB	2 x USB2.0 wafer(1*4pin)
	串口 Serial Port	1 x RS232/485 wafer(2*5pin), 1 x RS232 wafer(2*5pin), 4 x TTL wafer(2*8pin)
	音频 Audio	1 x Audio wafer(Mic-in/Line-out, 2*5pin)
	风扇 Fan	1 x Smart Fan wafer(1*4pin)
	SMbus	1 x SMbus wafer(1*4pin)
	eSPI	1 x eSPI header for debug
	GPIO	1 x 8bit GPIO(2*5pin)
	其他 Others	1 x Front panel wafer(2*5pin)(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	M.2 slot	1 x M.2-2230 E key slot for wifi module(PCIe/USB2.0)
	Mini-PCIe slot	1 x Mini-PCIe slot with Nano-SIM socket(PCIe/USB2.0)
安全 Security	TPM	fTPM2.0 supported
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	类型 Type	12~24V DC input, +/-10% tolerance
	接口 Interface	1 x 2P VH型 Pitch=3.96mm
	Power Consumption	16.3(Idle mode), 17.5(Typical mode)
操作系统 O.S Support	MS Windows	Windows10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.16kg
环境 Environment	温度 Temperature	Operating: -10°C~60°C with SSD Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

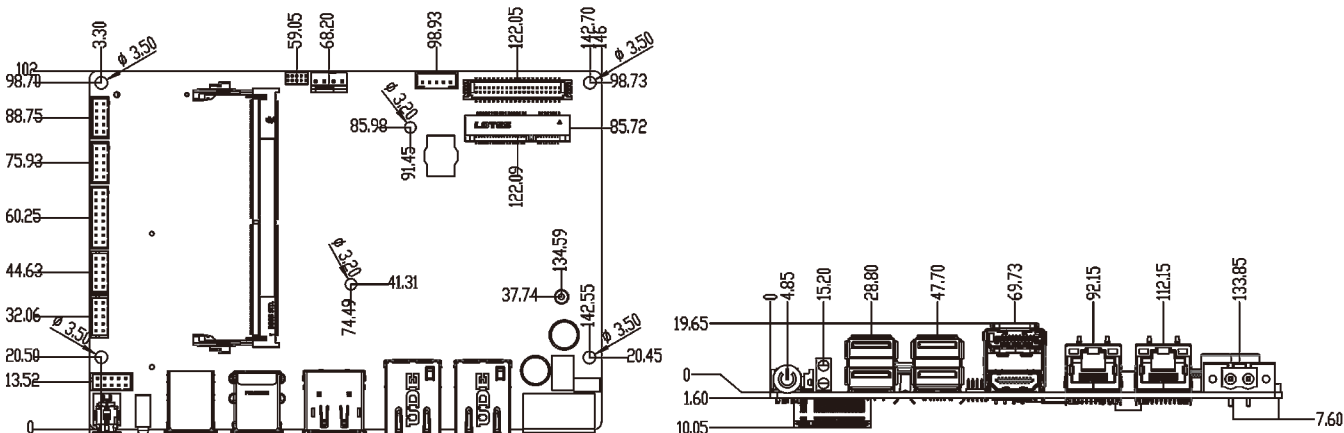
NK-6183

Intel® Core™ i3-N305/N97 processor GHz, up to 3.8GHz,TDP 15W



- Intel® N-series N97, Quad-core, base frequency 2.0GHz up to 3.6GHz,TDP 12W
- Intel® Core™ i3-N305 processor, Octa-core, base frequency 1.8GHz up to 3.8GHz, TDP 15W
- Support 1 x DDR5-4800MHz SO-DIMM slot, up to 16GB
- Support DP, HDMI, LVDS/eDP Tri-display
- 2 x Giga-bit Ethernet
- 2 x USB3.2 ports, 4 x USB2.0 ports
- 1 x RS232/485, 1 x RS232, 4 x TTL
- 1 x M.2-2242/2280(SATA3.0/NVME),1 x Mini-PCle slot with nano-SIM card socket
- 12~24V power input, lockable DC-IN phoenix terminal block

尺寸图 Size(Unit:mm)

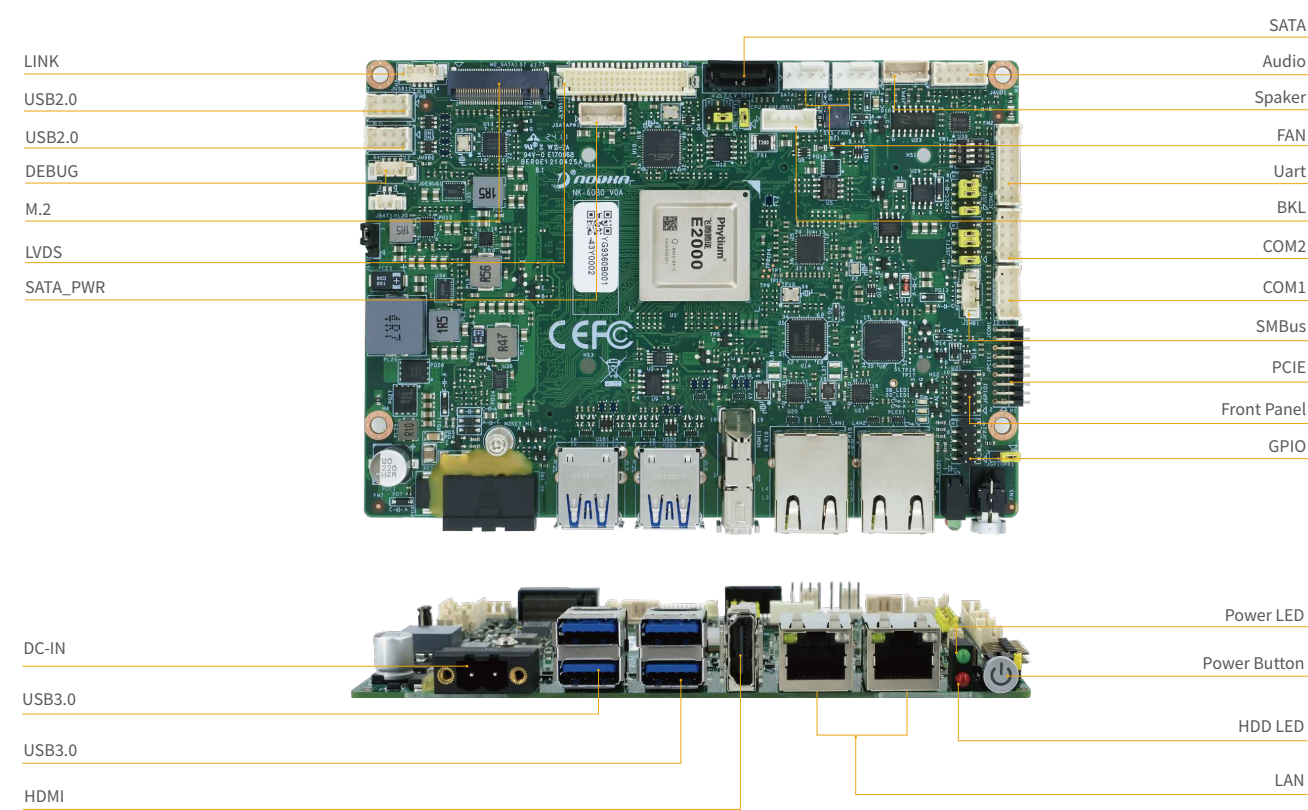


规格 Specification

项目		NK-6183
处理器 Processor System	CPU	Intel® Core™ i3-N305/N97 processor GHz, up to 3.8GHz,TDP 15W
	芯片组 Chipset	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR5-4800MHz, up to 16GB
	插槽 Slot	1 x DDR5 SO-DIMM slot
存储 Storage	M.2	1 x M.2-2242/2280 M Key SSD slot(SATA3.0/NVME)
图形 Graphic	控制器 Controller	Intel® UHD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC897 codec
外部接口 Rear I/O	显示 Display	1 x DP1.4, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution to 4096 x 2160@30Hz
	网络 Ethernet	2 x 2.5GBE, Intel i226-V controller
	USB	2 x USB3.2(10Gbps), 2 x USB2.0(480Mbps)
	开关按钮 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
	指示灯 Indicators	1 x SATA LED(Red),1 x Power LED(Green)
	显示 Display	1 x LVDS, dual channel 18/24bit, resolution up to 1920x1200@60Hz
		1 x eDP1.3, resolution up to 4096x2160@60Hz(share connector with LVDS)
	音频 Audio	1 x Audio wafer(Mic-in/Line-out, 2*5pin)
	USB	2 x USB2.0 wafer(1*4pin)
内部接口 Internal I/O	串口 Serial Port	1 x RS232/485 wafer(2*5pin), 1 x RS232 wafer(2*5pin), 4 x TTL wafer(2*8pin)
	风扇 Fan	1 x Smart Fan wafer(1*4pin)
	SMBus	1 x SMBus wafer(1*4pin)
	GPIO	1 x 8bit GPIO wafer(2*5pin)
	eSPI	1 x eSPI header for debug
	其他 Others	1 x Front panel wafer(2*5pin)(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	Mini-PCle slot	1 x Mini-PCle slot with Nano-SIM socket(PCIe/USB2.0)
安全 Security	TPM	fTPM2.0
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds
电源 Power	类型 Type	12~24V DC input, +/-10% tolerance
	接口 Interface	1 x 2-pin phoenix terminal block
	Power Consumption	TBD
操作系统 O.S Support	MS Windows	Windows10/11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.15kg
环境 Environment	温度 Temperature	Operating: -10°C~60°C with SSD;Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

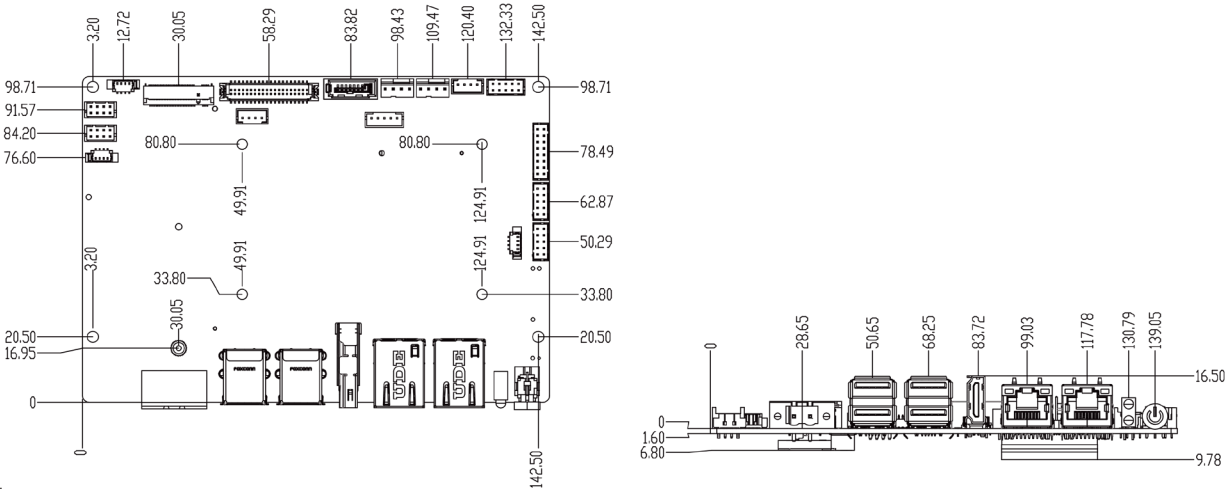
NK-60B0

Phytium E2000Q Processor, 4Core, base frequency 1.8GHz, up to 2.0GHz, TDP 11W



- Phytium E2000Q Processor, 4Core, base frequency 1.8GHz, up to 2.0GHz, TDP 11W
- Support 1 x DDR4-2400MHz SO-DIMM slot, up to 32GB
- Support 1 x HDMI, LVDS/eDP dual-display
- 2 x Giga-bit Ethernet
- 4 x USB3.0 ports, 4 x USB2.0 ports
- 2 x RS232/485, 4 x UART
- 1 x M.2-2280 and 1 x mini PCIe slot with nano-SIM card socket
- 12~24V power input, lockable DC-IN phoenix terminal block

尺寸图 Size(Unit:mm)

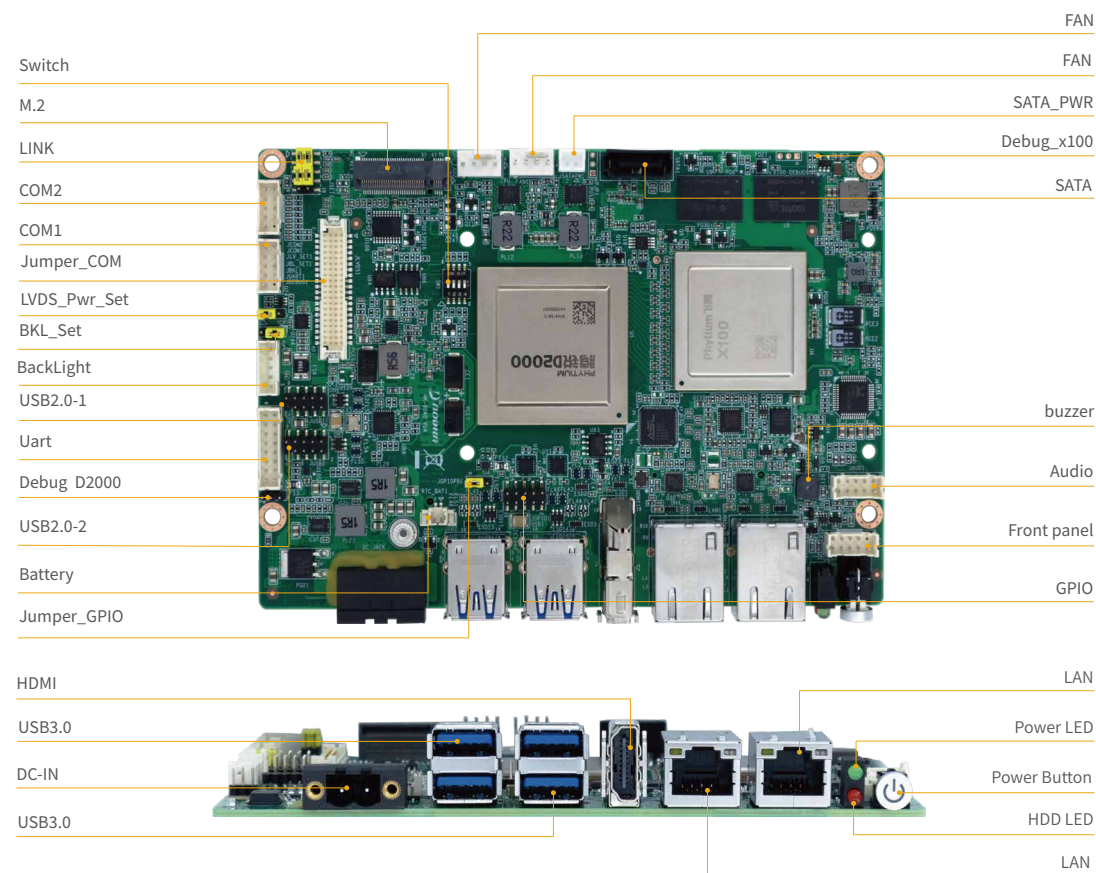


规格 Specification

项目		NK-60B0
Processor System	CPU	Phytium E2000Q 1.8GHz~2.0GHz TDP 11W
Guide	BIOS	Phytium UEFI
内存 Memory	技术 Technology	Single Channel DDR4 2400MHz, up to 32GB
	插槽 Slot	1 x DDR4 260-pin SO-DIMM slot
存储 Storage	SATA	1 x SATA3.0 port
	M.2	1 x M.2-2280 Key-M slot(SATA3.0/NVME)
音频 Audio	编解码器 Codec	顺芯ES8336
	音频功放Speaker	CS85636SA
Rear I/O	显示 Display	1 x HDMI, resolution to 1920x1080@60Hz
	网络 Ethernet	2 x GbE(RJ45), Realtek 8111H controller
	USB	4 x USB3.0(5Gbps)
	开关按键 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
	指示灯 Indicators	1 x SATA LED(Red), 1 x Power LED(Green)
Internal I/O	显示 Display	1 x eDP1.4, resolution up to 1920x1080@60Hz(share connector with LVDS) 1 x LVDS, resolution to 1920x1080@60Hz
	音频 Audio	1 x Speaker wafer (1*4pin-2.0)
	USB	4 x USB2.0 wafer(2*4pin-2.0)
	串口 Serial Port	2 x RS232/485 wafer(2*5pin-2.0), 4 x TTL wafer(2*8pin-2.0)
	风扇 Fan	2 x Smart Fan wafer(1*4pin-2.54)
	JFP1	1 x Power_LED,1 x SATA_LED,1 x Power_switch, 1 x Reset,Wafer(2*5pin-2.0)
	GPIO	8 x GPIO Wafer(2*5pin-2.0)
	MCU	1 x MCU Wafer(1*4pin-1.25)
	Debug	1 x RS232 Debug Wafer(1*4Pin-1.25)
	SMBus	1 x SMBus wafer(1*4pin-1.25)
	PCIE	1 x PCIE3.0*1/USB3.0 Wafer(2*9pin-2.0)
	其他 Others	1 x Front panel wafer(2*5pin-2.0)(Power LED, HDD LED, Power button, Reset button)
扩展接口Expansion Slots	Mini-PCIe slot	1 x Mini-PCIe slot with Nano-SIM socket(PCle/USB2.0)
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255seconds
电源 Power	类型 Type	12~24V DC input, +/-10% tolerance
	接口 Interface	1 x 2pin-5.08 phoenix terminal block/DC-Jack5.2
	Power Consumption	23W
操作系统 O.S Support	Linux	银河麒麟、统信UOS
机械参数 Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.14kg
环境 Environment	温度 Temperature	Operating: 0℃~60℃ with Standard Version; -10℃~70℃ with wide temperature Storage: -40℃~85℃
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

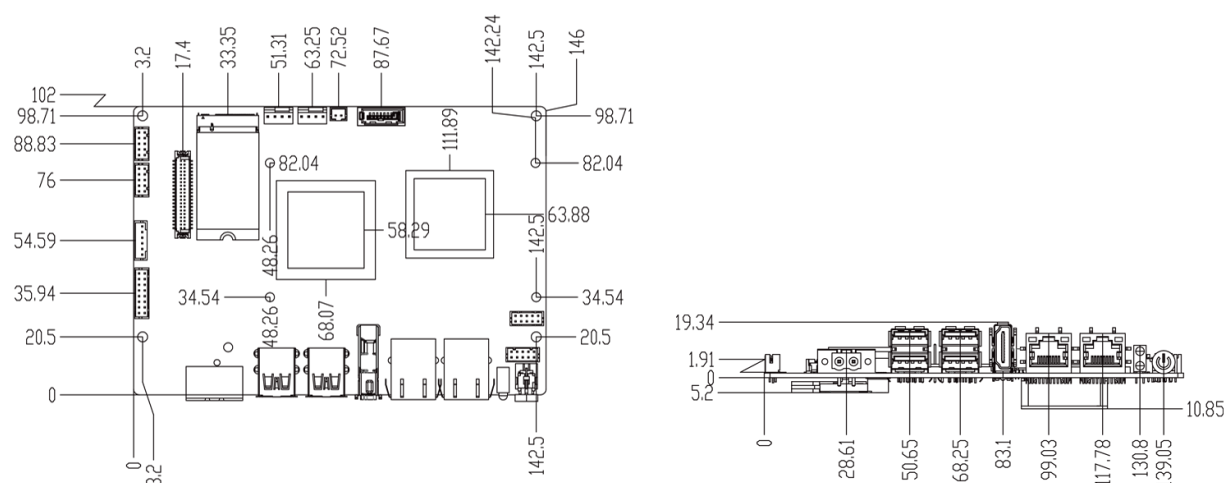
NK-60A0

Phytium D2000 Processor, 8Core, base frequency 2.3GHz, TDP 55W



- Phytium D2000 Processor, 8Core, base frequency 2.3GHz, TDP 55W
- Support 1 x DDR4-2400MHz SO-DIMM slot, up to 32GB
- Support 1 x HDMI, LVDS or eDP dual-display
- 2 x Giga-bit Ethernet
- 4 x USB3.0 ports, 4 x USB2.0 ports
- 2 x RS232/485, 7 x UART
- 1 x M.2-2280 and 1 x mini PCIe slot with nano-SIM card socket
- 12V power input, lockable DC-IN phoenix terminal block

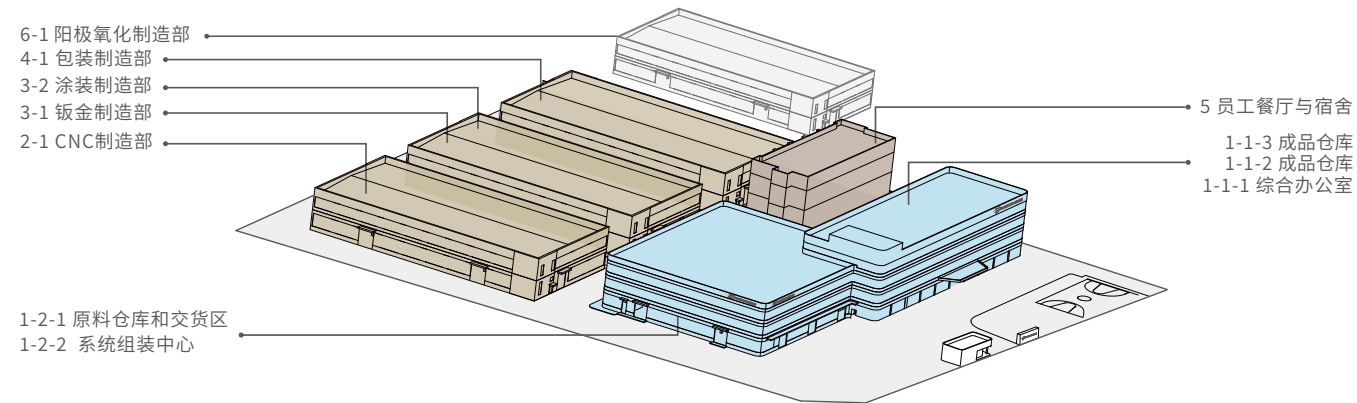
尺寸图 Size(Unit:mm)



规格 Specification

项目		NK-60A0
处理器 Processor System	CPU	PhytiumD2000 2.3GHz TDP 55W
芯片组 Chipset	套片Chipset	Phytium X100
引导Guide	BIOS	Phytium UEFI
内存 Memory	技术 Technology	Single Channel(Non-ECC) DDR4 2400MHz, up to 32GB
	插槽 Slot	1 x DDR4 SO-DIMM slot
存储 Storage	SATA	1 x SATA3.0 port
	M.2	1 x M.2-2280 Key-M slot(SATA3.0/NVME)
外部接口 Rear I/O	显示 Display	1 x HDMI, resolution to 1920x1080@60Hz
	网络 Ethernet	2 x GbE(RJ45), Realtek 8111H controller
	USB	4 x USB3.0(5Gbps)
	开关按键 Button	1 x Power Button(White for power on,Blink for sleep mode,Off for power off)
内部接口 Internal I/O	指示灯 Indicators	1 x SATA LED(Red), 1 x Power LED(Green)
	显示 Display	1 x LVDS, resolution to 1920x1080@60Hz
	音频 Audio	1 x Audio wafer(Mic-in/Line-out, 2*5pin-2.0)
	USB	4 x USB2.0 wafer(2*4pin-2.0)
	串口 Serial Port	2 x RS232/485 wafer(2*5pin-2.0), 7 x TTL wafer(2*8pin-2.0)
	风扇 Fan	2 x Smart Fan wafer(1*4pin-2.54)
	JFP1	1 x Power_LED,1 x SATA_LED,1 x Power_switch, 1 x Reset,Wafer(2*5pin-2.0)
	GPIO	8 x GPIO Wafer(2*5pin-2.0)
	Debug	1 x RS232 Debug pin(1*3Pin-1.25)_D2000
		1 x RS232 Debug pin(1*3Pin-1.25)
扩展接口 Expansion Slots	Mini-PCle slot	1 x Mini-PCle slot with Nano-SIM socket(PCIe/USB2.0)
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255seconds
电源 Power	类型 Type	12DC input, +/-10% tolerance
	接口 Interface	1 x 2pin-5.08 phoenix terminal block/DC-Jack5.2
	Power Consumption	55W
操作系统 O.S Support	Linux	银河麒麟、统信UOS
机械参数Mechanism	尺寸 Dimensions	(L)146mm x (W)102mm
	净重 Gross Weight	0.15kg
环境 Environment	温度 Temperature	Operating:0°C~60°C with Standard Version; -20°C~70°C with wide temperature
		Storage: -40°C~85°C
	湿度 Humidity	5~95% (Non-condensing)
	振动 Vibration	5~500Hz, 3Grms operating

全面自主的制造单元



SMT 制造中心(苏州总部)

涵盖SMT自动贴片线、DIP插件线、三防涂覆线、组装线和AOI检测等车间，具备16道关键制程能力，为各类板卡的打样和量产提供一站式的制造服务。



系统组装中心

1000台+/天的生产能力，具备规模化、柔性化和一站式的生产模式，以满足多样化的生产与交货需求。



表面技术——喷涂&氧化处理

表面处理车间，涵盖喷涂和阳极氧化车间，具备喷涂、丝印、阳极氧化和镭雕等表面处理生产线，为结构件提供全方位和一站式的处理能力。

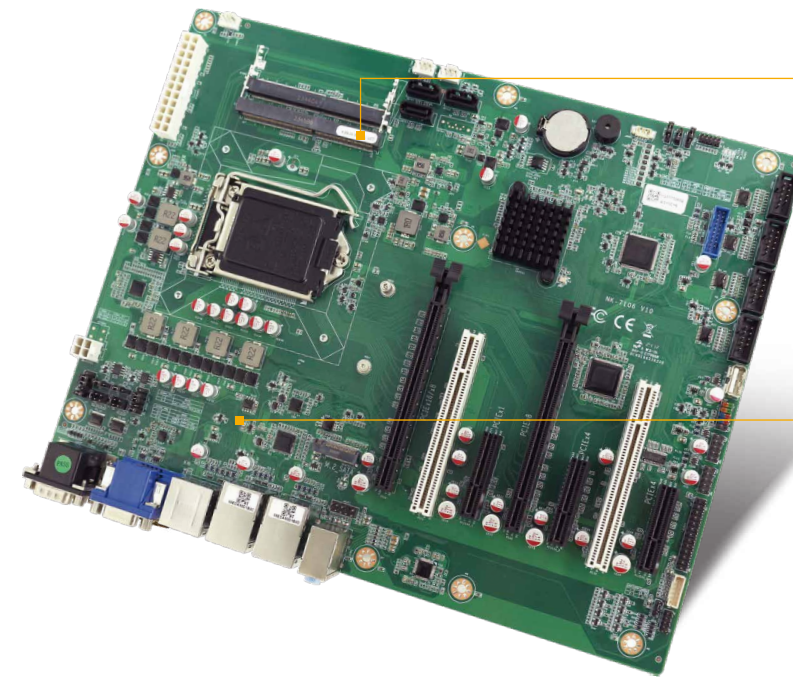


结构件制造——钣金&CNC制造部

结构件制造车间，涵盖钣金制造部和CNC制造部，具备激光切割、冲压、折弯、拉伸、3/4轴加工中心等50台主力加工设备，具备工控机箱、BOX、工业平板和显示器等结构件的全制程制造能力。



ATX/M-ATX工业主板

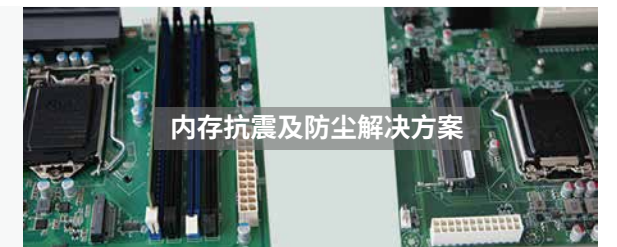


采用笔记本内存

可提供5年质保

主板表面三防涂覆

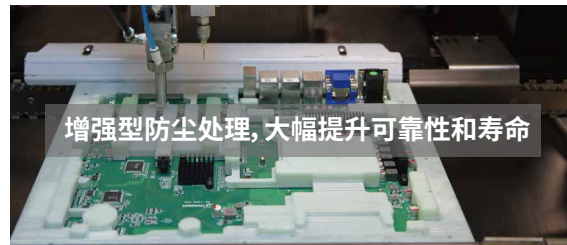
创新设计ATX工业主板应用SODIMM内存，卡扣式插槽杜绝震动/跌落造成的内存松动脱落，卧式安装防止粉尘堆积在内存插槽内，让CPU散热风道更流畅，完美解决多个行业痛点。



内存抗震及防尘解决方案

增强型防尘处理, 大幅提升可靠性和寿命

主板表面采用三防涂覆处理，杜绝导电性、腐蚀性、高湿度粉尘对电路板的侵害，关键连接器设计防落尘密封盖，让工控机在各种复杂工况下长期稳定工作。



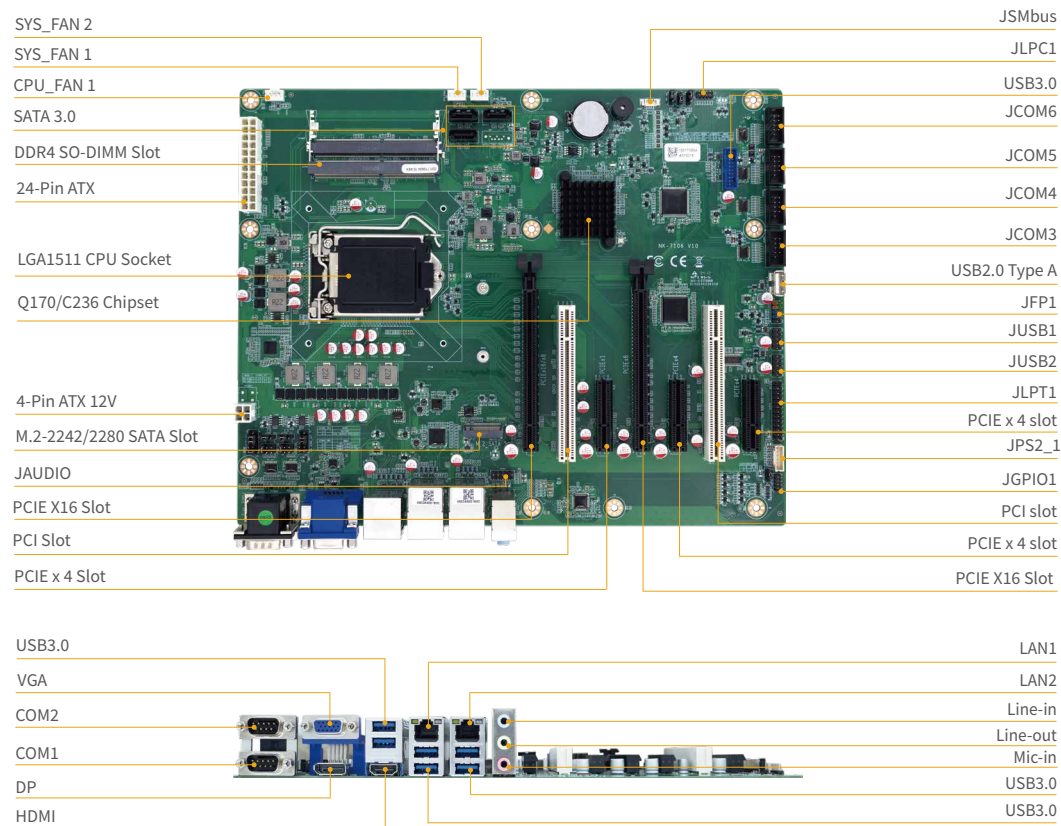
EMC抗干扰设计高于工业三级行业标准，大幅降低因各种复杂电气环境干扰导致的死机、重启、蓝屏、通讯掉包等偶发性故障；公司还配备专业的EMC工程师，可协助客户排查解决现场问题。



增强型EMC抗干扰设计

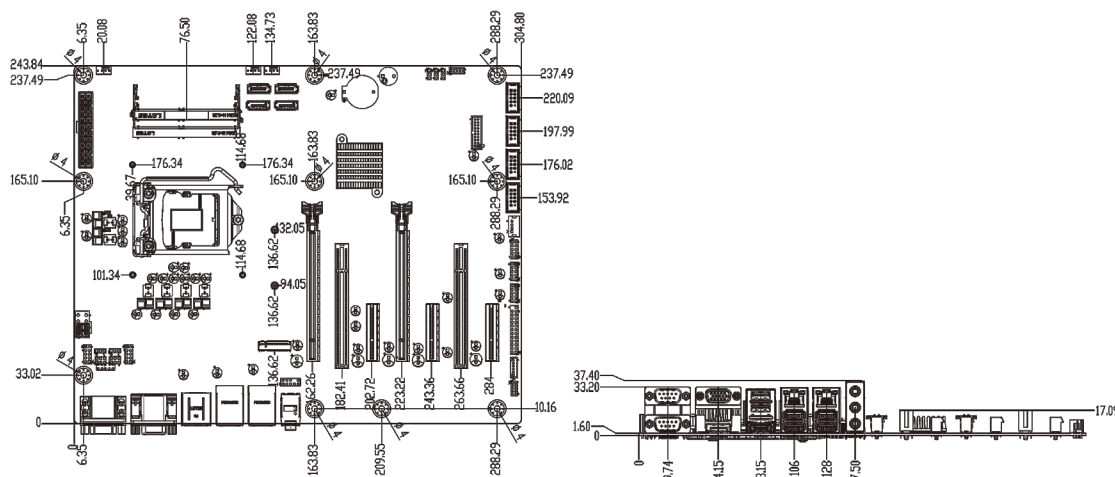
NK-7106

Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series LGA 1151 processor,TDP 95W



- Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series LGA 1151 processor,TDP up to 95W
- Support dual channel(Non-ECC) DDR4-1866/2133/2400/2666MHz SO-DIMM slot , up to 64GB
- Support VGA,HDMI,DP Tri-display
- 2 x Giga-bit Ethernet
- 8 x USB3.0 ports,5 x USB2.0 ports
- 2 x RS232/485, 4 x RS232
- 4 x SATA3.0 support software RAID 0,1,5,10, 1x SATA M.2-2242/2280 Slot
- 2 x PCIEX16(1x 16 or 2x 8 link), 2x PCIEX4, 1x PCIEX4(x1link), 2x PCI slots

尺寸图 Size(Unit:mm)

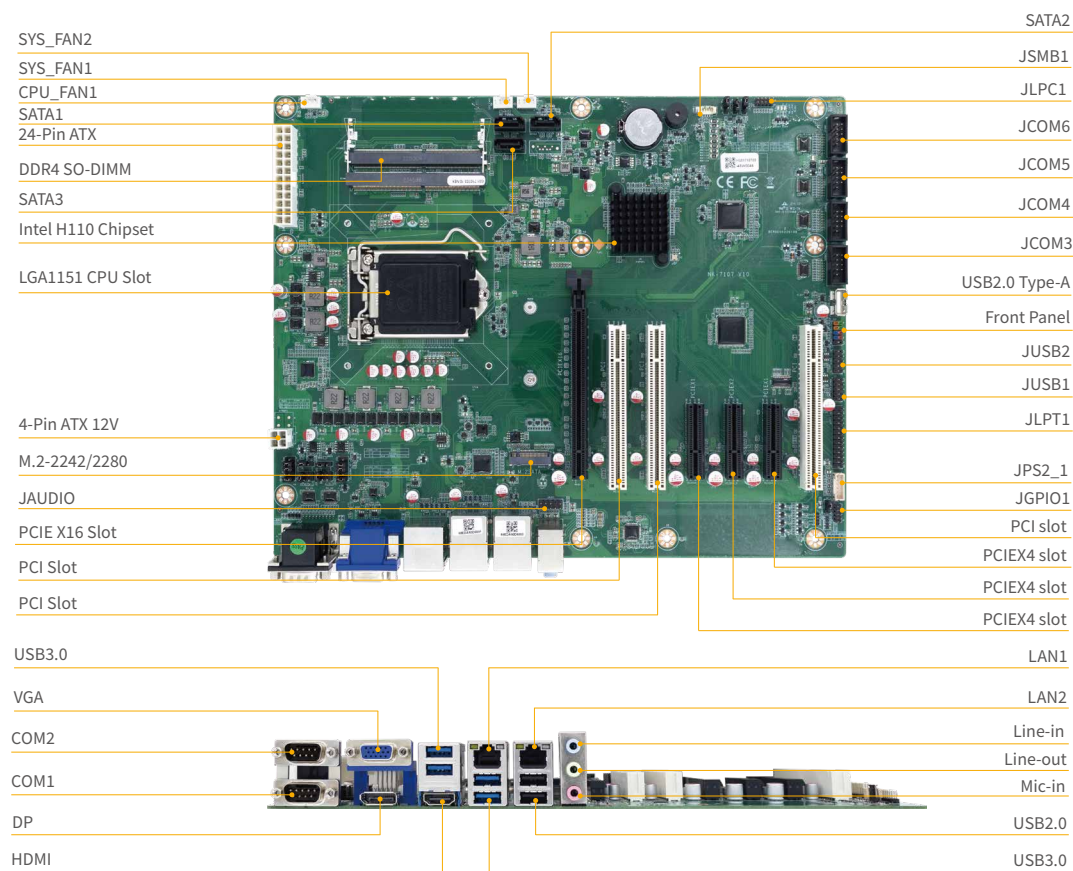


规格 Specification

项目		NK-7106
处理器 Processor System	CPU	Intel® 6/7/8/9th generation Celeron/Pentium/Core-I series processor, TDP up to 95W
	插槽 Socket	LGA1151
	芯片组 Chipset	Intel Q170/C236
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4 1866/2133/2400/2666MHz, up to 64GB
	插槽 Slots	2 x DDR4 SO-DIMM slots
存储 Storage	M.2	1 x M.2-2242/2280 Key M slot (SATA3.0 Signal)
	SATA	4 x SATA3.0 (up to 6Gb/s), support RAID 0/1/5/10
图形 Graphics	控制器 Controller	Intel HD graphics integrated
音频 Audio	编解码器 Codec	Realtek ALC 897 codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution up to 4096 x 2160@30Hz
	网络 Ethernet	2 x GbE(RJ45), LAN1: Intel i219-V, LAN2: Intel I210AT
	USB	6 x USB3.0(5Gpbs)
	串口 Serial	2 x RS232/485
	音频 Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in
内部接口 Internal I/O	USB	2xUSB3.0 Pin header(1x2*5pin),4xUSB2.0 Pin header,(2x2*5pin),1 x vertical USB2.0 type-A connector
	串口 Serial	4 x RS232 wafer(2*5pin)
	PS/2	1 x PS/2 wafer(1*6pin)
	LPT	1 x LPT header(2*13pin)
	LPC	1 x LPC header(2*5pin)
	SMbus	1 x SMBus wafer(2*5pin)
	GPIO	1 x 8bit GPIO(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)(2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
扩展槽 Expansion Slots	PCIe X 16	2 x PCIeX16(Gen3) slots (1 x 16 or 2 x 8 link (default))
	PCIe X 4	2 x PCIeX4(Gen3) slots, 1 x PCIeX4(Gen3, x 1 link) slot
	PCI	2 x PCI slots
看门狗定时器 Watchdog Timer	Output & Interval	System reset, programmable from 1~255 sec
安全 Security	TPM	fTPM2.0
电源 Power	类型 Type	ATX Power Input :24-Pin ATX + 4-Pin ATX 12V
操作系统 OS Support	Microsoft Windows	Windows 7/8.1(Only support with Intel 6th Gen. CPU), Windows 10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)305mm x (W)244mm
	净重 Gross Weight	0.63kg
环境 Environment	工作温度 Operating	0°C ~ 60°C
	存储温度 Storage	-40°C ~ 85°C
	相对湿度 Humidity	5~95% (Non-condensing)

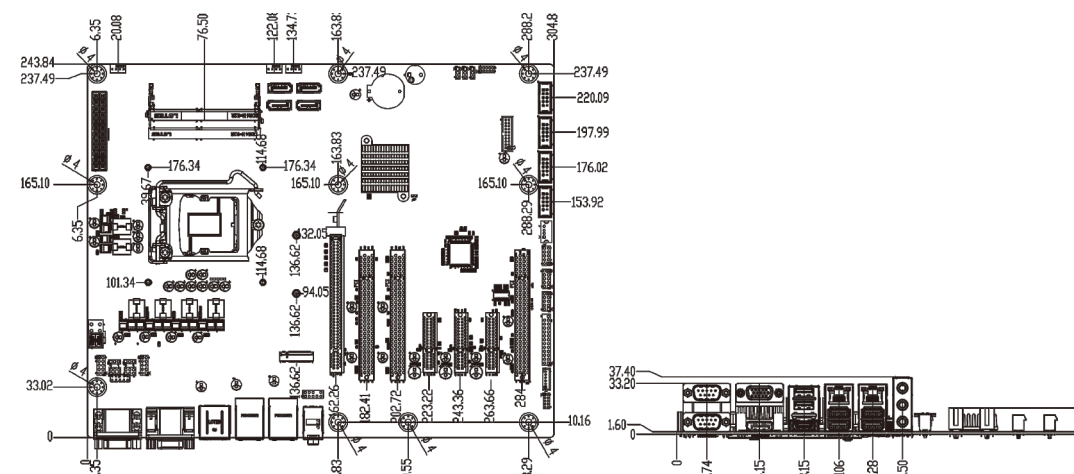
NK-7107

Intel® 6/7/8/9th Generation Celeron/Pentium/Core-i series LGA 1151 processor,TDP up to 95W



- Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series LGA 1151 processor,TDP up to 95W
- Support dual channel(Non-ECC) DDR4-1866/2133/2400/2666MHz SO-DIMM slot up to 64GB
- Support VGA,HDMI,DP Dual-display
- 2 x Giga-bit Ethernet,
- 4x USB3.0 ports, 6 x USB2.0 ports
- 2 x RS232/485, 4 x RS232
- 3x SATA3.0, 1x SATA M.2-2242/2280 Slot
- 1x PCIEX16, 1x PCIEX4(x2link), 2x PCIEX4(x1link), 3x PCI slots

尺寸图 Size(Unit:mm)

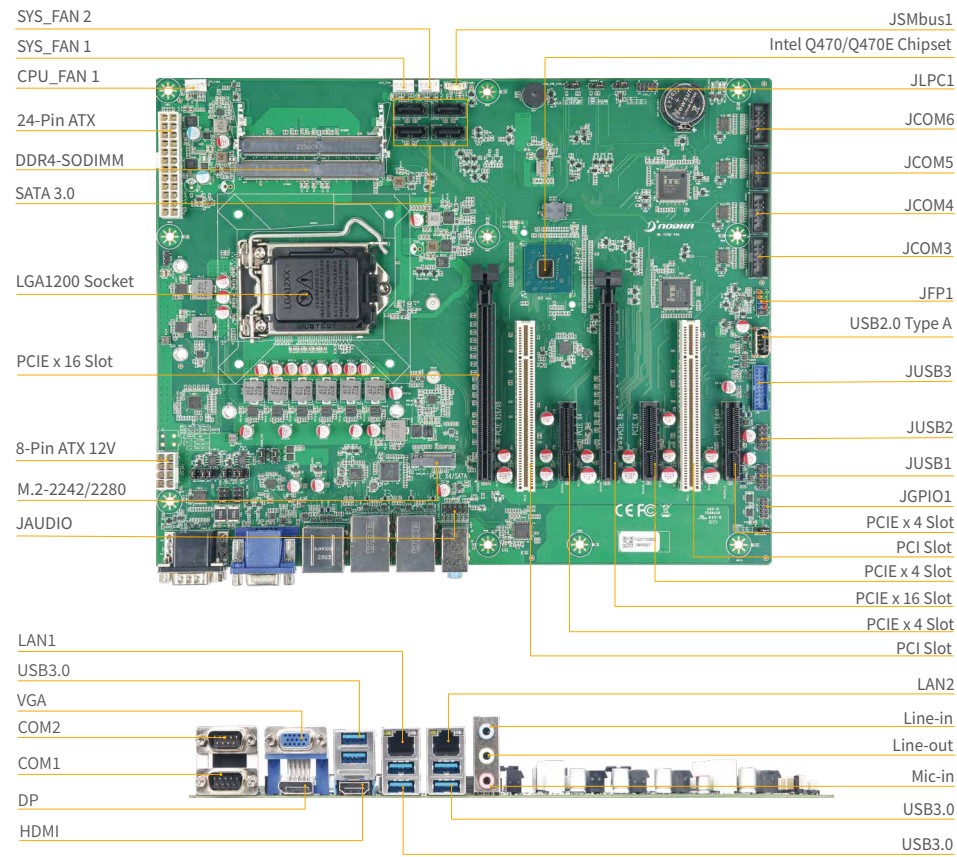


规格 Specification

项目		NK-7107
处理器 Processor System	CPU	Intel® 6/7/8/9th generation Celeron/Pentium/Core-I series processor, TDP up to 95W
	插槽 Socket	LGA1151
	芯片组 Chipset	Intel H110
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4 1866/2133/2400/2666MHz, up to64GB
	插槽 Slots	2 x DDR4 SO-DIMM slots
存储 Storage	M.2	1 x M.2-2242/2280 Key M slot(SATA3.0 Signal)
	SATA	3 x SATA3.0 (up to 6Gb/s)
图形 Graphics	控制器 Controller	Intel HD graphics integrated
音频 Audio	编解码器 Codec	Realtek ALC 897 codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution up to 4096 x 2160@30Hz
	网络 Ethernet	2 x GbE(RJ45), LAN1: Intel i219-V controller, LAN2:Intel i210AT controller
	USB	4 x USB3.0(5Gbps), 2 x USB2.0(480Mbps)
	串口 Serial	2 x RS232/485
	音频 Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in
内部接口 Internal I/O	USB	3 x USB2.0 pin header (2 x 2*5pin) , 1 x Vertical USB2.0 type-A connector
	串口 Serial	4 x RS232 wafer(2*5pin)
	PS/2	1 x PS/2 wafer(1*6pin)
	LPT	1 x LPT header(2*13pin)
	LPC	1 x LPC header(2*5pin)
	SMbus	1 x SMBus wafer(2*5pin)
	GPIO	1 x 8bit GPIO(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)(2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
扩展槽 Expansion Slots	PCIe X16	1 x PCIeX16(Gen3) slots
	PCIe X4	2 x PCIeX4(Gen2, x 1 link) slots, 1 x PCIeX4(Gen2, x 2 link) slot
	PCI	3 x PCI slots
看门狗定时器 Watchdog Timer	Output & Interval	System reset, programmable from 1~255 sec
安全 Security	TPM	fTPM2.0
电源 Power	类型 Type	ATX Power Input:24-Pin ATX + 4-Pin ATX 12V
操作系统 OS Support	Microsoft Windows	Windows 7/8.1(Only support with Intel 6th Gen. CPU), Windows 10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)305mm x (W)244mm
	净重 Gross Weight	0.61Kg
环境 Environment	工作温度 Operating	0°C ~ 60°C
	存储温度 Storage	-40°C ~ 85°C
	相对湿度 Humidity	5~95% (Non-condensing)

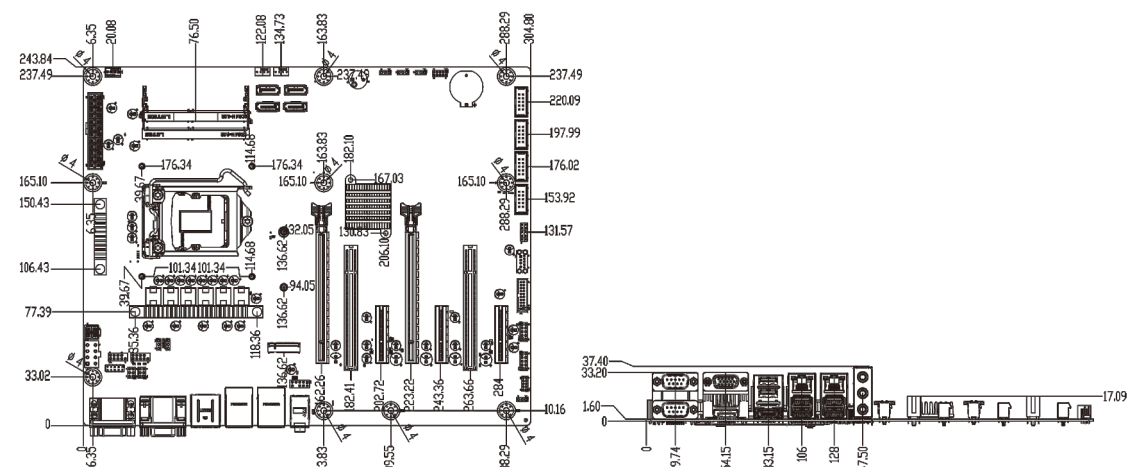
NK-7208

Intel® 11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W



- Intel® 11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
- Support dual channel(Non-ECC) DDR4-2933/3200MHz SO-DIMM slot, up to 64GB
- Support VGA,HDMI,DP Tri-Display
- 2 x Giga-bit Ethernet
- 8 x USB3.0 ports, 5 x USB2.0 ports
- 2 x RS232/485, 4 x RS232
- 4 x SATA3.0 support software RAID 0,1,5,10, 1 x M.2-2242/2280 SATA/PCIE(11th Gen. processors) Slot
- 2 x PCIEX16(1x 16 or 2x 8 link), 3x PCIE X 4, 2 x PCI slots

尺寸图 Size(Unit:mm)

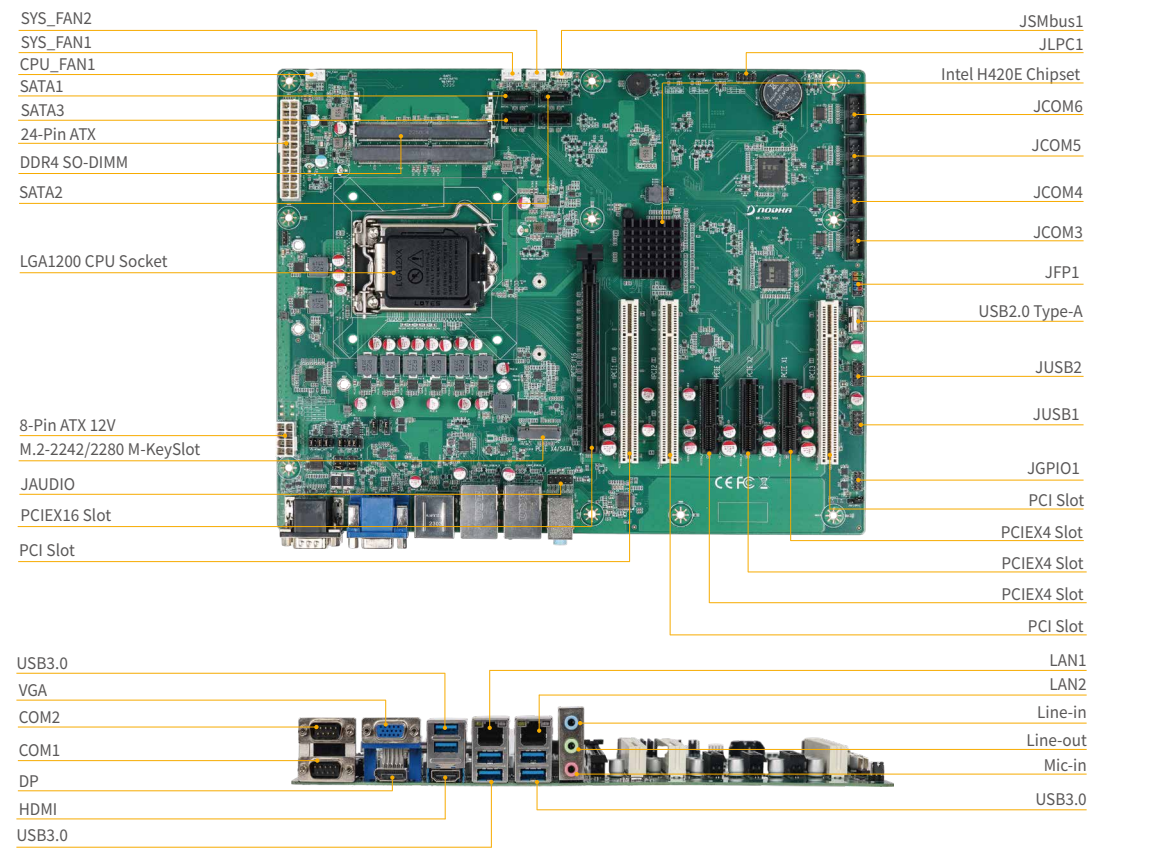


规格 Specification

项目		NK-7208
处理器 Processor System	CPU	Intel® 11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
	插槽 Socket	LGA1200
	芯片组 Chipset	Intel Q470/Q470E
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4-2933/3200MHz, up to 64GB
	插槽 Slots	2 x DDR4 SO-DIMM slots
存储 Storage	SATA	4 x SATA3.0 (up to 6Gb/s),support RAID 0/1/5/10
	M.2 SSD	1 x M.2-2242/2280 Key M slot (SATA3.0/PCIe(11th Gen. processors) Signal)
图形 Graphic	控制器 Controller	Intel HD graphics integrated
音频 Audio	编解码器 Codec	Realtek ALC 897 codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution up to 4096 x 2160@30Hz
	网络 Ethernet	2 x GbE(RJ45) ;LAN1 :Intel i219-V controller ;LAN 2: Intel i210AT controller
	USB	6 x USB3.0(5Gbps)
	串口 Serial	2 x RS485/232
	音频 Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in
内部接口 Internal I/O	USB	2xUSB3.0 Pin header(1x2*5pin),4xUSB2.0 Pin header,(2x2*5pin),1xvertical USB2.0 type-A connector
	串口 Serial	4 x RS232 wafer(2*5pin)
	LPC	1 x LPC header(2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
	GPIO	1 x 8bit GPIO(2*5pin)
	SMbus	1 x SMBus wafer(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	PCIe X16	2 x PCIeX16(Gen3) slots (1 x 16 or 2 x 8(default) link)
	PCIe X4	3 x PCIeX4(Gen3) slots
	PCI	2 x PCI slots
看门狗定时器 Watchdog Timer	Output & Interval	System reset, programmable from 1~255 sec
安全 Security	TPM	fTPM2.0
电源 Power	类型 Type	ATX Power Input: 24-Pin ATX + 8-Pin ATX 12V
操作系统 O.S Support	Microsoft Windows	Windows 10 /11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)305mm x(W) 244mm
	净重 Gross Weight	0.67KG
环境 Environment	工作温度 Operating	0°C ~ 60°C
	存储温度 Storage	-40°C ~ 85°C
	相对湿度 Humidity	5~95% (Non-condensing)

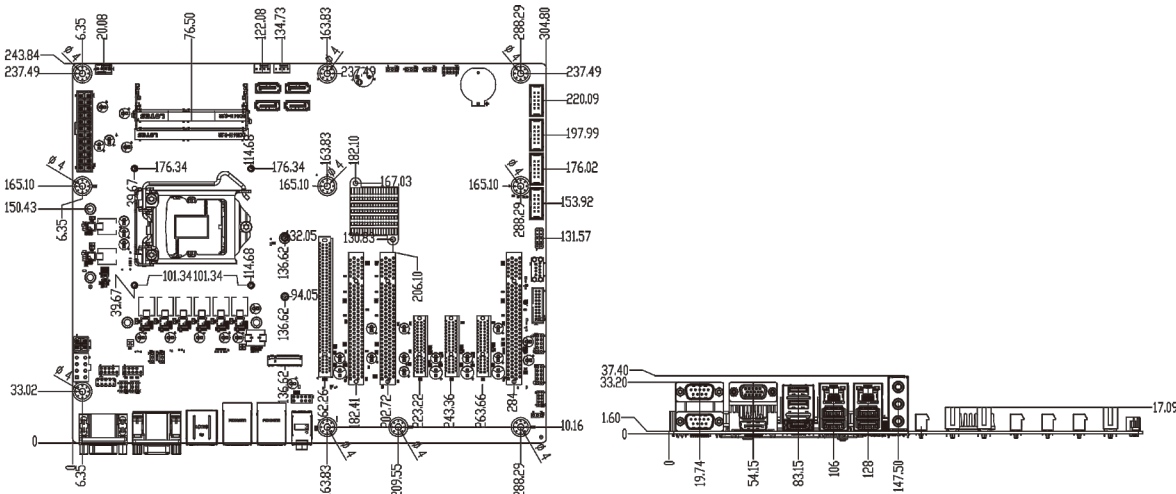
NK-7205

Intel® 10/11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W



- Intel® 10/11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
- Support dual channel(Non-ECC) DDR4-2933/3200MHz SO-DIMM slot up to 64GB
- Support VGA,HDMI,DP Dual-display
- 2 x Giga-bit Ethernet
- 6 x USB3.0 ports, 4 x USB2.0 ports
- 2 x RS232/485, 4 x RS232
- 3 x SATA3.0, 1 x SATA M.2-2242/2280 Slot
- 1 x PCIe X 16, 3 x PCIeX4(x1link), 3 x PCI slots

尺寸图 Size(Unit:mm)

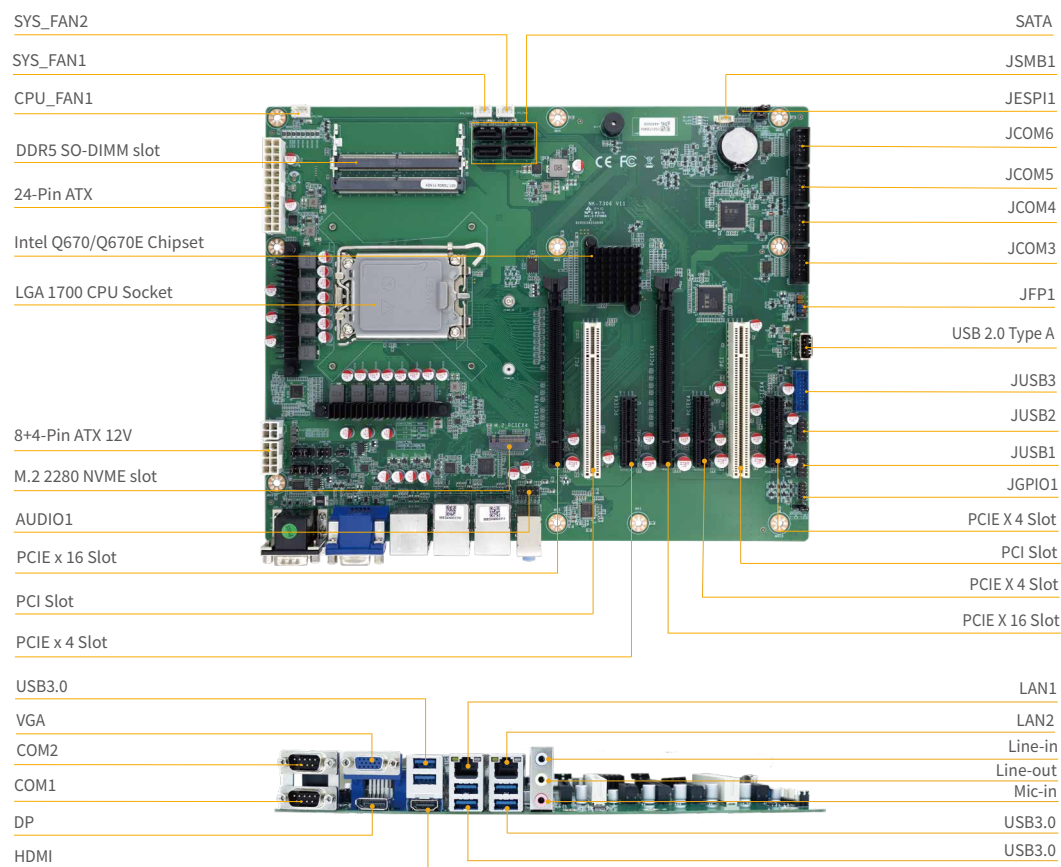


规格 Specification

项目		NK-7205
处理器 Processor System	CPU	Intel® 10/11th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
	插槽 Socket	LGA1200
	芯片组 Chipset	Intel H420E
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4 2933/3200MHz, up to 64GB
	插槽 Slots	2 x DDR4 SO-DIMM slots
存储 Storage	M.2 SSD	1 x M.2-2242/2280 Key M slot(SATA 3.0 Signal)
	SATA	3 x SATA3.0 (up to 6Gb/s)
图形 Graphics	控制器 Controller	Intel HD graphics integrated
音频 Audio	编解码器 Codec	Realtek ALC897 codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution up to 4096 x 2160@30Hz
	网络 Ethernet	2 x GbE(RJ45) LAN1: Intel i219-V controller ,LAN2: Intel i210AT controller
	USB	6 x USB3.0 (5Gbps)
	串口 Serial	2 x RS232/485
内部接口 Internal I/O	音频 Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in
	USB	3 x USB2.0 pin header (2 x 2*5pin) ,1 x vertical USB2.0 type-A connect
	串口 Serial	4 x RS232 wafer(2*5pin)
	LPC	1 x LPC header(2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
	GPIO	1 x 8bit GPIO(2*5pin)
扩展槽 Expansion Slots	SMbus	1 x SMbus wafer(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)
	PCIe X 16	1 x PCIeX16(Gen3) slot
	PCIe X 4	3 x PCIeX4(Gen3, x1 link) slots
看门狗定时器 Watchdog Timer	PCI	3 x PCI slots
	Output & Interval	System reset, programmable from 1~255 sec
	安全 Security	TPM fTPM2.0
电源 Power	类型 Type	ATX Power Input: 24-Pin ATX + 8-Pin ATX 12V
	操作系统 OS Support	Microsoft Windows Windows 10 /11
机械参数 Mechanism	Linux	Linux
	尺寸 Dimensions	(L)305mm x(W) 244mm
	净重 Gross Weight	0.67KG
环境 Environment	工作温度 Operating	0°C ~ 60°C
	存储温度 Storage	-40°C ~ 85°C
	相对湿度 Humidity	5~95% (Non-condensing)

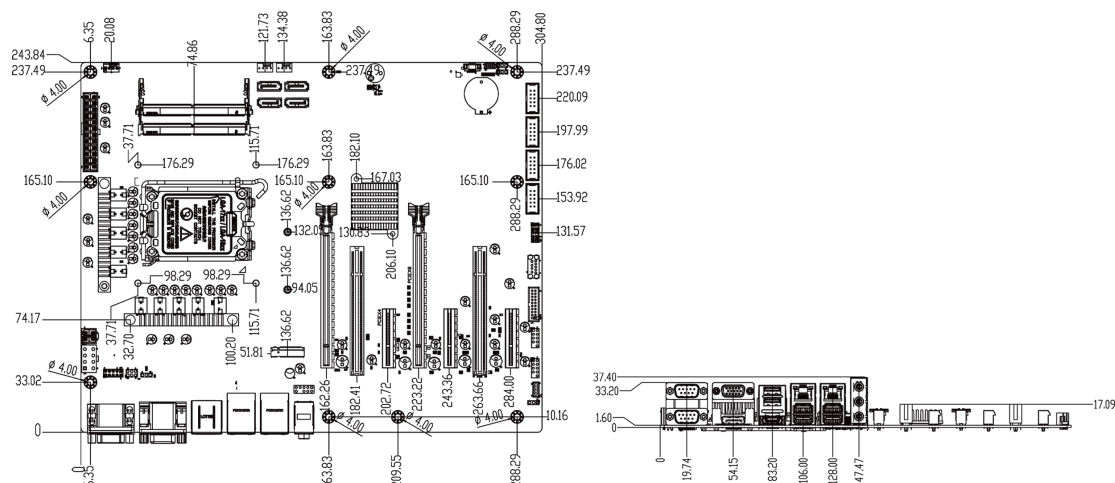
NK-7306

Intel® 12/13/14 th Generation Celeron/Pentium/Core-I series LGA1700 processor,TDP up to 125W



- Intel® 12/13/14 th Generation Celeron/Pentium/Core-I series LGA1700 processor,TDP up to 125W
- Support dual channel(Non-ECC) DDR5-4800/5600MHz SO-DIMM slot, up to 64GB
- Support VGA,HDMI,DP Tri-display
- 2 x Giga-bit Ethernet
- 8 x USB3.0 ports, 5 x USB2.0 ports
- 2 x RS232/485, 4 x RS232
- 4 x SATA3.0 support software RAID 0,1,5,10,1xM.2-2242/2280 PCIE Slot
- 2 x PCIe4.0 X 16 (Gen4,1 x 16 or 2 x 8 link),3 x PCIe X 4(Gen4), 2 X PCI

尺寸图 Size(Unit:mm)

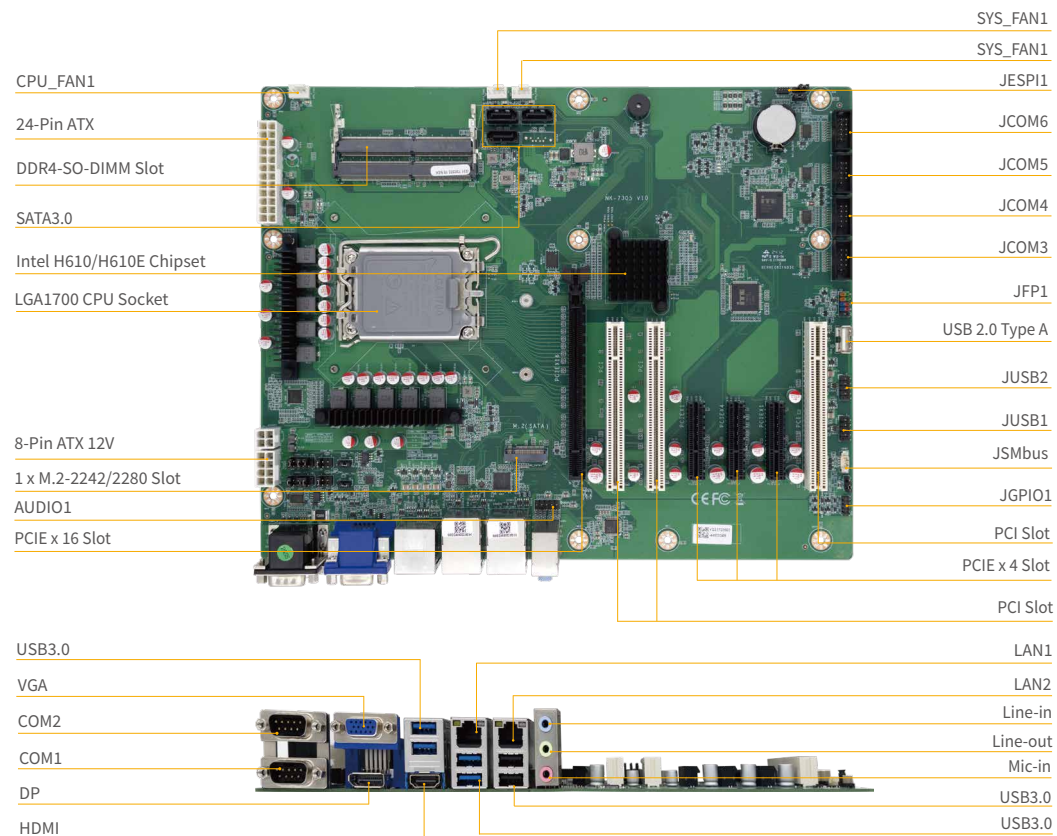


规格 Specification

项目		NK-7306
处理器 Processor System	CPU	Intel® 12/13/14 th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
	插槽 Socket	LGA1700
	芯片组 Chipset	Intel Q670/Q670E
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR5-4800/5600MHz, up to 64GB
	插槽 Slot	2 x DDR5 SO-DIMM slots
存储 Storage	SATA	4 x SATA3.0 ports,Support software RAID 0,1,5,10
	M.2	1 x M.2-2242/2280 M Key Slot(PCIe/Signal)
图形 Graphic	控制器 Controller	Intel HD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC 897 codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution up to 4096x2160@30Hz
	网络 Ethernet	2 x GbE(RJ45);LAN1: Intel i219-V controller ;LAN 2: Intel i210-AT controller
	USB	6 x USB3.0(5Gbps)
	串口 Serial Port	2 x RS485/232
	音频 Audio	1 x Mic-in, 1 x Line-in, 1 x Line-out
内部接口 Internal I/O	USB	2xUSB3.0 Pin header(1x2*5pin),4xUSB2.0 Pin header,(2x2*5pin),1 xvertical USB2.0 type-A connector
	串口 Serial	4 x RS232 wafer(2*5pin)
	eSPI	1 x eSPI header (2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
	GPIO	1 x 8bit GPIO(2*5pin)
	SMbus	1 x SMBus wafer(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)
扩展接口Expansion Slots	PCIe X 16	2 x PCIe X 16(Gen4) slots (1 x 16 or 2 x 8(default) link)
	PCIe X 4	3 x PCIe X 4(Gen4) slots
	PCI	2 x PCI slots
安全 Security	TPM	fTPM2.0
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 sec
电源 Power	类型 Type	ATX Power Input:24-Pin ATX + 8/12-Pin ATX 12V
操作系统 O.S Support	MS Windows	Windows10/11
	Linux	Linux
机械参数Mechanism	尺寸 Dimensions	(L)305mm x(W) 244mm
	净重 Gross Weight	0.71KG
环境 Environment	工作温度 Operating	0°C ~ 60°C
	存储温度 Storage	-40°C ~ 85°C
	相对湿度 Humidity	5~95% (Non-condensing)

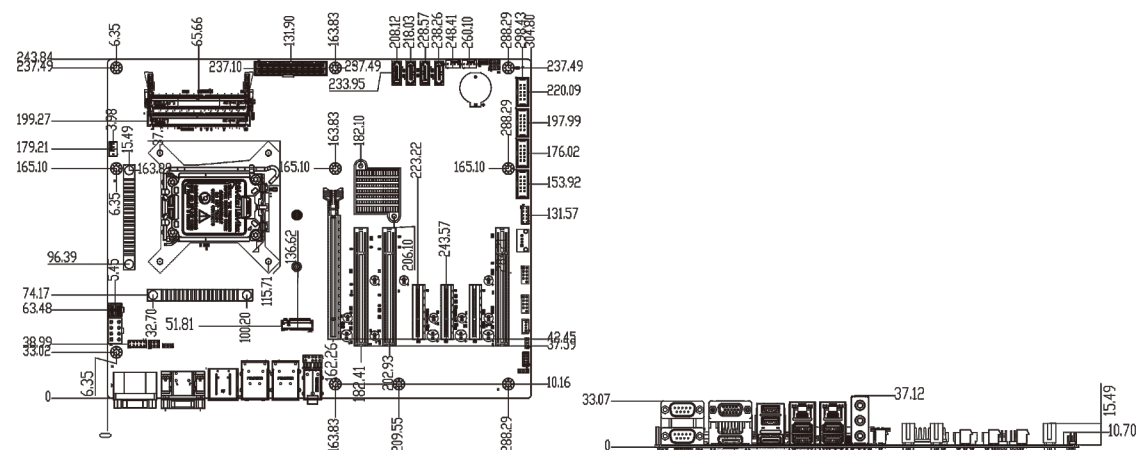
NK-7305

Intel® 12/13/14 th Generation Celeron/Pentium/Core-I series LGA1700 processor,TDP up to 125W



- Intel® 12/13/14 th Generation Celeron/Pentium/Core-I series LGA1700 processor,TDP up to 125W
- Support Dual Channel(Non-ECC) DDR4-3200MHz SO-DIMM slot, up to 64GB
- Support VGA,HDMI,DP Tri-display
- 2 x Giga-bit Ethernet
- 4 x USB3.0 ports, 6 x USB2.0 ports
- 2 x RS232/485, 4 x RS232
- 3 x SATA3.0, 1 x SATA M.2-2242/2280 Slot
- 1 x PCIe4.0 X 16 (GEN 4),1 x PCIe X4(Gen3) , 2 x PCIe X4(Gen3, X1 link), 3 X PCI

尺寸图 Size(Unit:mm)

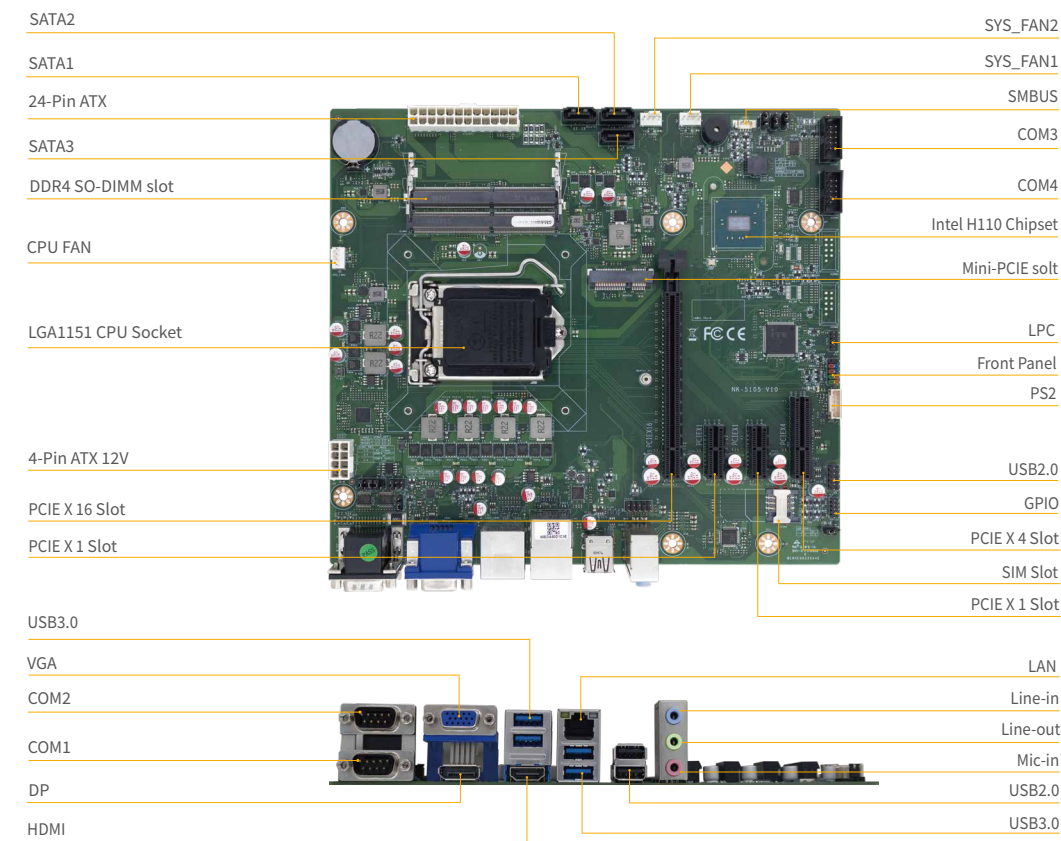


规格 Specification

项目		NK-7305
处理器 Processor System	CPU	Intel® 12/13/14th Generation Celeron/Pentium/Core-I series processor, TDP up to 125W
	插槽 Socket	LGA1700
	芯片组 Chipset	Intel H610/H610E
	BIOS	AMI 256Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4 3200MHz, up to 64GB
	插槽 Slot	2 x DDR4 SO-DIMM slots
存储 Storage	SATA	3 x SATA3.0 (up to 6Gb/s)
	M.2	1 x M.2-2242/2280 Key M slot (SATA3.0 Signal)
图形 Graphic	控制器 Controller	Intel HD graphics integrated
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2160@60Hz
		1 x HDMI, resolution up to 4096 x 2160@30Hz
	网络 Ethernet	2 x GbE(RJ45) ; LAN1 :Intel i219-V controller ; LAN 2 :Intel i210-AT controller
	USB	4 x USB3.0(5Gbps), 2 x USB2.0(480Mbps)
	串口 Serial	2 x RS232/485
	音频 Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in
内部接口 Internal I/O	USB	3 x USB2.0 pin header (2 x 2*5pin) ,1 x vertical USB2.0 type-A connect
	串口 Serial	4 x RS232 wafer(2*5pin)
	eSPI	1 x eSPI header (2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
	GPIO	1 x 8bit GPIO(2*5pin)
	SMbus	1 x SMBus wafer(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)
扩展接口 Expansion Slots	PCIe X16	1 x PCIe X16(Gen4) slot
	PCIe X4	1 x PCIe X4(Gen3) slot, 2 x PCIe X4(Gen3, X1 link) slots
	PCI	3 x PCI slots
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 sec
电源 Power	类型 Type	ATX Power Input :24-Pin ATX + 8/12-Pin ATX 12V
操作系统 O.S Support	MS Windows	Windows 10 /11
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)305mm x(W) 244mm
	净重 Gross Weight	0.76KG
环境 Environment	工作温度 Operating	0°C ~ 60°C
	存储温度 Storage	-40°C ~ 85°C
	相对湿度 Humidity	5~95% (Non-condensing)

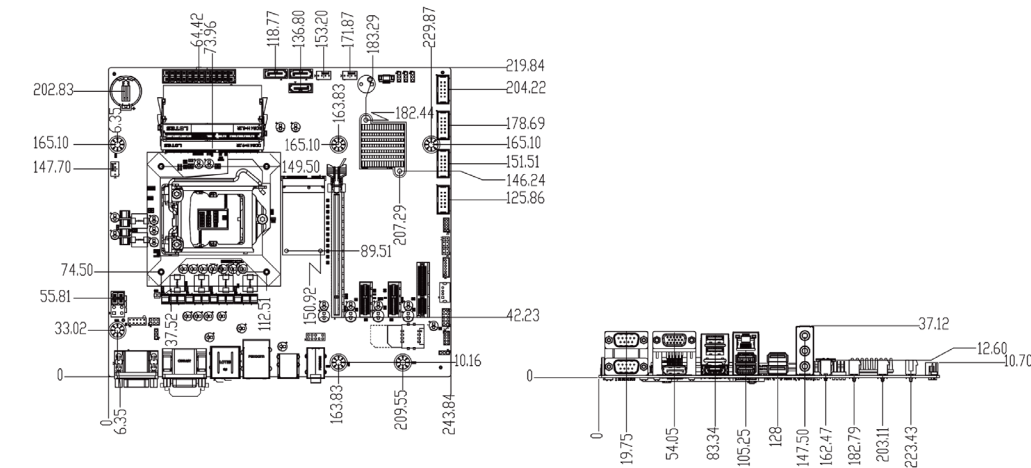
NK-5105

Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series processor,TDP 95W



- Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series processor,TDP 95W
- Support Dual channel(Non-ECC) DDR4-1866/2133/2400/2666MHz SO-DIMM slot, up to 64GB
- Support VGA,HDMI,DP Dual-display
- 1 x Giga-bit Ethernet
- 4 x USB3.0 ports, 4 x USB2.0 ports
- 1 x RS232/485,3 x RS232
- 3 x SATA3.0,1 x mSATA
- 1 x PCIe3.0 X 16 (Gen3) ,1 x PCIe X 4(Gen2), 2 x PCIe X 1(Gen2, X1link)

尺寸图 Size(Unit:mm)



规格 Specification

项目		NK-5105
处理器 Processor System	CPU	Intel® 6/7/8/9th Generation Celeron/Pentium/Core-I series processor, TDP up to 95W
	插槽 Socket	LGA1151
	芯片组 Chipset	Intel H110
	BIOS	AMI 128Mb UEFI BIOS
内存 Memory	技术 Technology	Dual Channel(Non-ECC) DDR4-1866/2133/2400/2666MHz, up to 64GB
	插槽 Slot	2 x DDR4 SO-DIMM slots
存储 Storage	mSATA	1 x mSATA
	SATA	3 x SATA3.0 (up to 6Gb/s)
图形 Graphic	控制器 Controller	Intel HD graphics integrated
音频 Audio	编码器 Codec	Realtek ALC897 codec
外部接口 Rear I/O	显示 Display	1 x VGA, resolution up to 1920x1200@60Hz
		1 x DP, resolution up to 4096x2304@60Hz
		1 x HDMI 1.4, resolution up to 4096x2160@30Hz
	网络 Ethernet	1 x GbE Intel i219-V
	音频 Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in
	USB	4 x USB3.0(5Gbps), 2 x USB2.0(480bps)
	串口 Serial Port	1 x RS232/485, 1 x RS232
内部接口 Internal I/O	USB	2 x USB2.0 pin header (1 x 2*5pin)
	串口 Serial	2 x RS232 wafer(2*5pin),2 x RS232 wafer(2*5pin,optional)
	PS/2	1 x PS/2 wafer(1*6pin)
	LPC	1 x LPC header(2*5pin)
	FP	1 x FP(Power LED, HDD LED, Power button, Reset button)(2*5pin)
	FAN	2 x System FAN (1*4pin),1 x CPU FAN (1*4pin)
	GPIO	1 x 8bit GPIO(2*5pin)
扩展接口 Expansion Slots	SMBUS	1 x SMBUS(1*4pin)
	PCIe X 16	1 x PCIeX16(Gen3) slot
	PCIe X 4	1 x PCIeX4 (Gen2)
	PCIe	2 x PCIe (Gen2,x1link) slots
安全 Security	Mini-PCIe	1 x mini-PCIe slot (SATA / USB Signal) with Nano-SIM card
	TPM	fTPM2.0
看门狗定时器 Watchdog Timer	Output&Interval	System reset, programmable from 1~255 sec
电源 Power	类型 Type	ATX Power Input: 24-Pin ATX + 4-Pin ATX 12V
操作系统 O.S Support	MS Windows	Windows 7/8.1(Only support with Intel 6th Gen. CPU), Windows 10
	Linux	Linux
机械参数 Mechanism	尺寸 Dimensions	(L)244mm x(W) 220mm
	净重 Gross Weight	0.54KG
环境 Environment	工作温度 Operating	0°C ~ 60°C
	存储温度 Storage	-40°C ~ 85°C
	相对湿度 Humidity	5~95% (Non-condensing)

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新品即将上市

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COM-LAC核心模块

- 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

NK-S218-N97

- Intel® N-series N97 processor, Quad-core, Max frequency 3.6GHz, TDP 12W
- onboard 4/8/16GB LPDDR5
- onboard 32/64/128/256GB eMMC
- 双通道 LVDS (18/24位, 可选)/eDP, 4K DP++, DP++/HDMI
- 兼容 SMARC 2.1.1 版本

嵌入式工业主板

- Intel® Core™ Amston/i3-N305/N97/ x7425E/x7213RE processor
- Support 1x DDR4-3200MHz SO-DIMM slot, up to 16GB
- Support DP, HDMI, LVDS/eDP Tri-display
- 2 x Giga-bit Ethernet
- 2 x USB3.0ports, 4 x USB2.0 ports
- 1 x RS232/485, 1 x RS232, 4 x TTL
- 1 x M.2-2230,1 x M.2-2242/3042 and 1 x Mini-PCIe slot with nano-SIM card socket
- 12~24V power input, lockable DC-IN phoenix terminal block

Note: