

苏州源控电子科技有限公司
Suzhou Yuankong Electronics Co., Ltd.



视源股份 **CVTE** 旗下子公司
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SPES TECH 源控

行业计算机 产品型录

Industrial Computer
Product Catalog

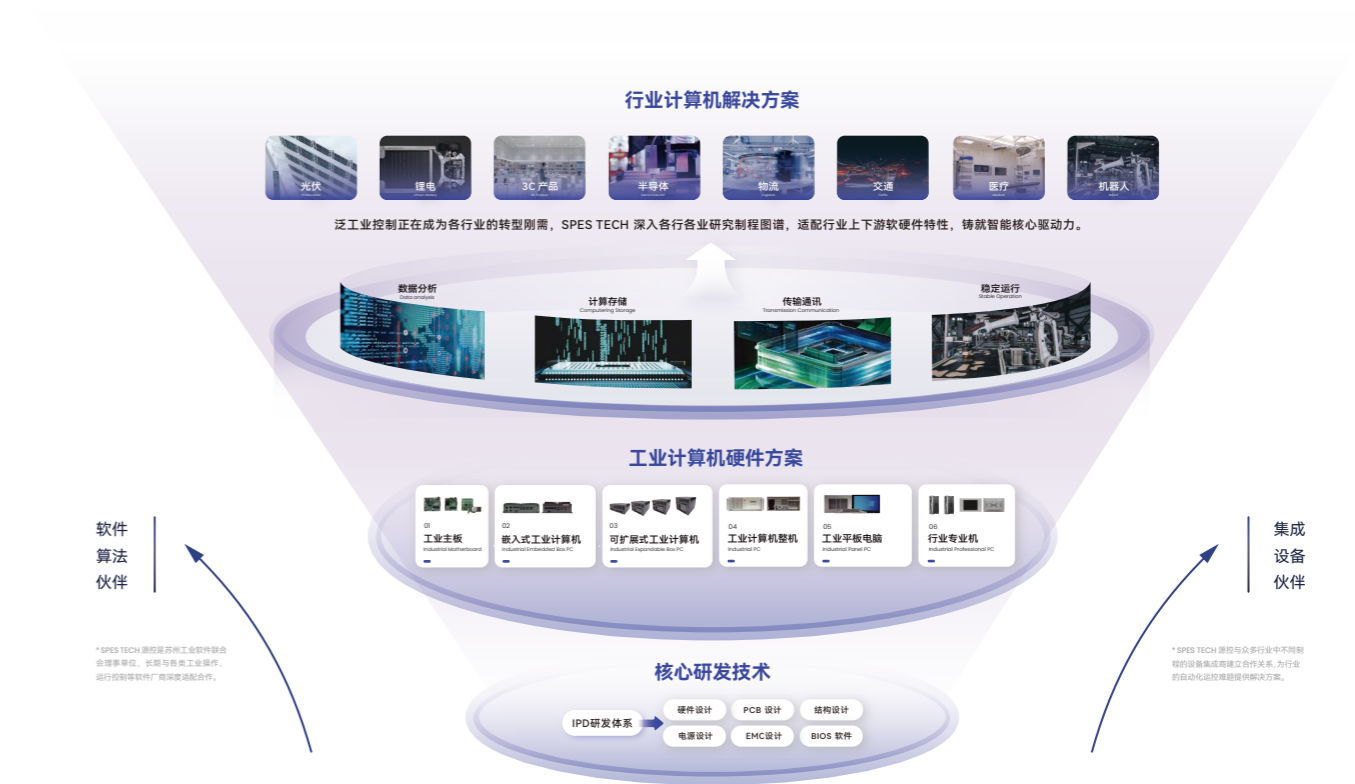
产品总览 Product Classification

- | | |
|--|---|
| 工业主板
Industrial Motherboard | 工业计算机整机
Industrial PC |
| 嵌入式工业计算机
Industrial Embedded BOX PC | 可扩展式工业计算机
Industrial Expandable BOX PC |
| 工业平板电脑
Industrial Panel PC | 工业触摸显示器
Industrial Touch Display |

Version: V4.2 **IPC**
Last Updated: May_2026

SPES TECH → **SPES** TECH

SPES TECH 已启动品牌形象焕新升级，即日起至 2025 年 12 月 31 日，行销资料和产品外观将陆续采用新商标，过渡期内新旧商标均具有法律效力。本型录展示的产品外观仅作为示例，以实际交付为准。Copyright © 苏州源控电子科技有限公司 版权所有。



从工业 1.0 时代到工业 4.0 时代, 世界的制造与控制技术正在发生着深刻变化。

源控工业计算机品牌 SPES TECH 始终坚持“以算力为核心”, 赋能泛工业控制数智化转型。

SPES TECH

SPES TECH 源控

苏州源控电子科技有限公司成立于 2020 年，隶属于中国 500 强企业视源股份（股票代码 002841），总部位于苏州太湖，国家级高新技术企业，业务遍布全球。

SPES TECH 是源控工业计算机自主品牌，始终坚持“以算力为核心”，专注于行业计算机的硬件方案设计及服务。产品涵盖工业主板、工业计算机整机、嵌入式/可扩展式工业计算机、工业平板电脑、网络安全设备等。秉承“铸就智能核心驱动力”的企业理念，期待以卓越算力携手广大合作伙伴共创共赢。

行业计算机概念广泛，需求繁杂，SPES TECH 坚持以产品技术领先性为核心追求，聚合行业人才发展作为企业发展的核心要义，双轮共驱，60% 以上为技术人员，拥有完善的 IPD 全生命周期研发管理体系，基于多年电子工控领域的实践积累，帮助客户可持续发展。

行业计算机解决方案品牌



¹ 2023年11月 全国高新技术企业认定 ² 2023年8月 苏州市科学技术局 ³ 2023年 北京市物联网产业品牌 ⁴ 2023 苏州智能制造产业联盟会员大会 ⁵ 2024 苏州工业软件创新发展联合会 ⁶ 2024苏州大学科创大会

3类
管理体系

106项
测试管控流程

164件
实用新型专利

10000个
项目开发经验



SPES TECH 源控 行业计算机解决方案提供商

- CIB 系列** 工业主板
ATX, Micro-ATX, Mini-ITX, 3.5" / 4", Giga-LAN Card / PoE Card, COM-E, Qseven
- CIS 系列** 工业计算机整机 / 嵌入式工控机
2U 桌面型 / 上架型, 3U 桌面型 / 上架型, 4U 桌面型 / 上架型, 嵌入式 / 可扩展式, 行业专业机
- CIP / CID 系列** 工业等级平板电脑 / 工业触摸显示器
10.1", 12.1", 15", 15.6", 17", 19", 21.5", 15", 16.6", 17", 19", 21.5"
- CNS 系列** 网络安全设备
固件主流平台: Intel®平台-SkyLake / Elkhart Lake, NXP平台-LS1046A
硬件主流平台: 飞腾平台-D2000 / E2000Q, 瑞芯微平台-RK3568
网络扩展模块: Intel®网卡-4 RJ45 / 4 SFP, 网迅网卡-4 RJ45 / 4 SFP

SPES TECH 工业计算机品牌



60% 技术人员 | 创新研发体系 | 18个 营销办事处

中央研究院 | 中央工程院 | 创新设计院 | 博士后科研工作站

公司分布



18

营销办事处

泛用型提高覆盖率

专用机深耕行业

定制化需求服务客户



苏州

长三角

苏州研发中心

2

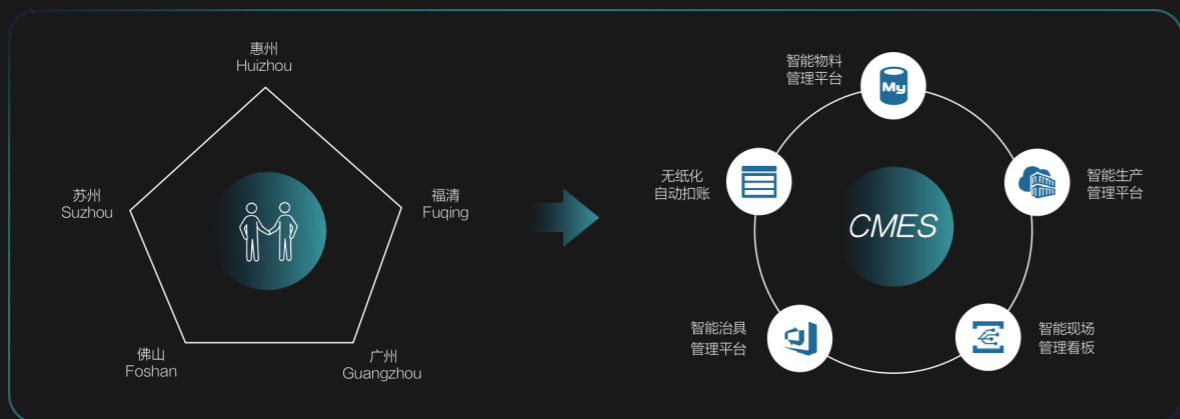
技术研发中心

广州研发中心

广州

珠三角

供应保障



依托视源股份百亿级规模的供应链集采能力，通过全国五大生产基地灵活出货，解决“少量多样”的交期难题。

卓越品质

可靠性测试
评估产品的可靠性特征

30项

系统功能及兼容性测试
验证系统的功能、性能和稳定性

36项

安规测试
确保产品对用户和环境的安全性

13项

电子干扰测试
对电子产品干扰大小和抗干扰能力的综合评定

9项

电性能测试
测试电信参数确保符合规格和标准

18项

工厂整机测试
出场交付前严控品质交付

28项

106项 测试项目

*温升实验室、安规实验室、环境实验室、震荡实验室——涵盖从认证到电信号的所有测试

专业服务



源控FAE+客户服务团队

*公司分布数据来源：源控内部统计结果，供应能力整体数据来源：视源股份及苏州源控内部管理体系。

*质量测试数据来源：源控内部质量测试流程项目。SPES TECH 源控竭诚为你提供专业服务指导 IPC 选型，登录 www.spesotech.com 了解更多产品参数，拨打 400-100-5558 获取技术支持，由 FAE 技术伙伴答疑解惑。

生产更高效

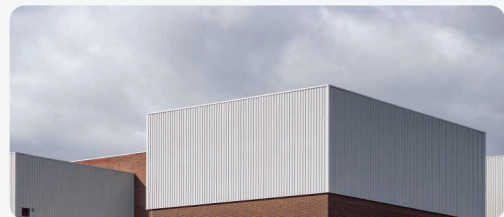
智能设备制造

消费增长与新技术的发展推动了零售业的智能变革，无人零售、智能货架、物流监测等在提升行业运营效率的同时，也赋予了消费者更高的满足感。SPES TECH 工业计算机系列产品为设备提供高质量核心计算单元，助推零售业全渠道生态格局建设。



智能工厂与 IOT 边缘智能

工业物联网时代，设备联网数量增多，各类型数据呈爆炸式增长，边缘计算与物联网的深度融合为数据的及时性、安全性及扩展性提供了保障。SPES TECH 嵌入式系列产品可为加快物联网应用部署增添动力。



机器人与自动化控制

去人工化、设备智能化已成为当下制造业转型的重要路径，SPES TECH 工业平板电脑系列产品为设备设施提供高可靠核心计算单元，并支持灵活触控与接口扩展，根据客户需求灵活定制，最大限度保证企业生产运作。



生活更便捷

智慧物流与扫描分拣

由自动分拣设备+人工智能替代传统人工劳作作为国内制造业与物流企业的主流解决方案之一，SPES TECH 工业计算机产品可在气候恶劣，人工无法长时间工作的情况下，满足物流分拣系统长时间，批量分拣货物的特性，有效提高生产效益。



智慧城市与能源环境

新兴产业的快速发展，赋能人类社会的可持续发展，从智慧交通到智慧政务、智慧园区，从医疗到金融，SPES TECH 计算设备提供了全场景解决方案与服务，旨在提升资源运营效率，优化城市政务服务与环境管理及治理水平。



智慧教育与科技普惠

SPES TECH 高算力工业计算机整机可作为教学数据服务器辅助实现教学场景还原，帮助老师提升教学质量，帮助学校提升教学管理水平；赋能现代教育更加科学有效，推进数字化教学设备及学习资料互通有无、因材施教。



目录 CONTENT

请注意：

- 1.关于型号区分：本目录分为产品研发型号和主要销售型号，交易以实际销售型号为准，详细信息请查阅产品规格书
- 2.关于显示接口：DP 1.2 支持 4K，最高分辨率 4096x2160@60Hz，HDMI 1.4 支持 4K，最高分辨率 3840x2160@30Hz
- 3.关于规格参数：由于持续的产品升级造成的内容变更恕不另行通知，请提前确认规格

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4U桌面型箱体电脑	P60		
4U上架型箱体电脑	P66		

工业主板

Industrial Motherboard

满足各种场景需求

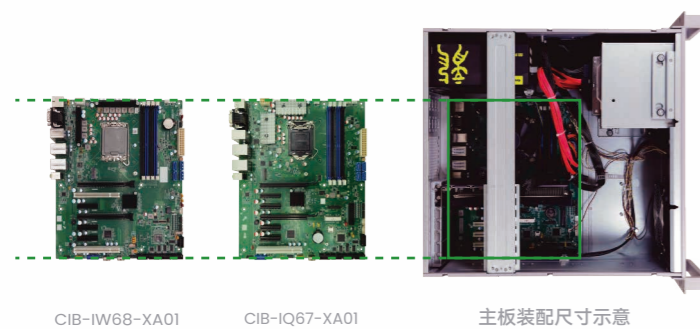
SPES TECH 基于各类工业应用场景，综合设计研发了包含 ATX、Micro-ATX、Mini-ITX、3.5"、COM-E 等多尺寸工业主板，支持 Intel® 6th-14th CPU，具备丰富内外部 I/O 接口，满足多种工业营业场景的多样化需求。

OS Recovery 功能

所有系列均支持适配“远程开关”功能和“OS Recovery”功能，为客户提供更为便捷的使用及维护方式，能有效降低售后维护费用；同时针对于机器视觉、科学仪器监测、运动控制等领域，我们设计拥有多款 PCIe 接口的支持 10/100/1000Mbps 速率模式的网络接口扩展卡，能适应多种尺寸的机箱结构。

展示装配以 ATX 主板为例

工业主板装配示意



CIB-IW68-XA01

CIB-IQ67-XA01

主板装配尺寸示意

板载大尺寸



工业主板搭载机箱示意

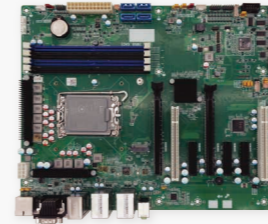


3U 桌面型

4U 桌面型 / 上架型

↑ ↓

标准化程度高
全家族标准化设计范式



ATX 主板

- W680
- Q670
- H610
- Q170
- Q470
- H110

标准 ATX 尺寸，支持 Intel® 6th-14th Generation Core™/Pentium®/Celeron® Processors，丰富内外部扩展接口

VGA, HDMI, DP++, DVI 等多种显示模式, 支持硬件 TPM 模块, 具备 16-bit 可编辑 GPIO, 具备 KB Lock 及 Case Open 功能

具备 USB 自我恢复功能, 且 5V/5VSB 电源可选, 以及含有一个内部的 USB Type-A 接口以便连接加密狗等设备



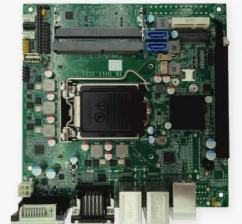
Micro-ATX 主板

- Z390
- Q670
- Q470
- H110

标准 Micro-ATX 尺寸，支持 Intel® 6th-13th Generation Core™/Pentium®/Celeron® Processors，丰富内外部扩展接口

有 VGA, HDMI, DP++, DVI 等多种显示模式, 支持硬件 TPM 模块, 具备 16-bit 可编辑 DIO, 具备 KB lock 及 Case Open 功能

具备 USB 自我恢复功能, 且 5V/5VSB 电源可选, 同时内部含有一个 USB Type-A 接口以便连接加密狗等设备



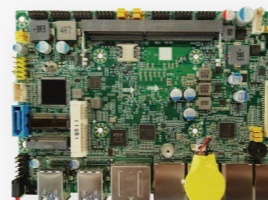
Mini-ITX 主板

- H610
- B360
- H110

标准 Mini-ITX 尺寸，支持 Intel® 6th-9th, 12th-14th Generation Core™/Pentium®/Celeron® Processors，丰富内外部扩展接口

支持 PCIe 扩展, VGA, HDMI, DVI 显示, 具有丰富的 I/O 接口, 包括: SATA 3.0、USB 3.2、COM、SIM 等

具备 USB 自我恢复功能, 同时内部含有一个 USB Type-A 接口以便连接加密狗等设备



3.5" 主板

- Intel® Elkhart Lake J6412 (2.00 GHz) / J6413 (1.80 GHz)
- Intel® Tiger lake UP3
- Intel® Core™ Ultra Series Processor
- Intel® N-series Processor (N97/N95)

工业标准 3.5" 板卡，可搭载 Intel® Elkhart Lake Celeron® J6412/j6413、Intel® Tiger Lake UP3、Core™ Ultra Series、N-series Processor

支持 PCIe 扩展, VGA, HDMI, DVI 显示, 具有丰富的 I/O 接口, 包括: SATA 3.0、USB 3.2、COM、SIM 等

支持远程开关, 并具有源控系列产品特有的“OS Recovery”功能, 小尺寸, 低功耗, 功能完备, 可满足市场绝大多数工业需求



4口/2口 网卡

- Intel® I350-AM4
- Intel® I210-AT
- Intel® I350-AM4
- Intel® X550-AT2

4口、2口千兆网卡/POE卡或非POE卡, 2口万兆网卡/POE卡, 网络芯片支持 Intel® I350-AM4、Intel® I350-AM4、Intel® I210-AT、Intel® X550-AT2, 支持 IEEE 1588, 支持巨型帧(9,500 byte)及链路聚合, 支持 Windows 7/Windows 10, Linux OS。

产品尺寸有全高尺寸和半高尺寸, 均可搭配全高的挡板, 可适配不同尺寸的机箱, 产品广泛应用于机械视觉, 科学仪器, 运动控制等领域



工业核心板/模块

- Intel® Tiger lake UP3
- Intel® N-series Processor (N97/N95)
- Intel® Elkhart Lake J6412 (2.00 GHz) / J6413 (1.80 GHz)

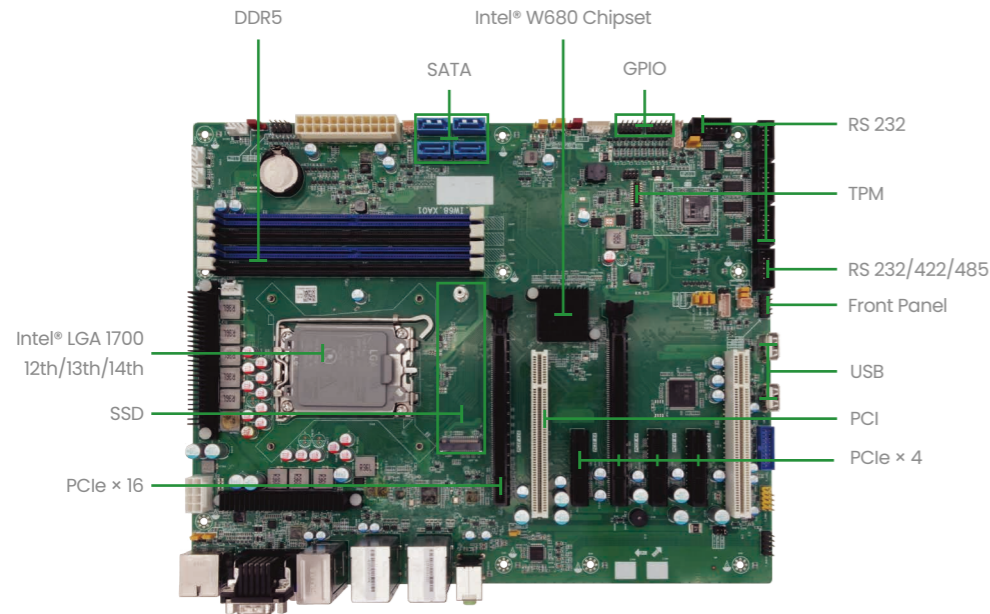
SPES TECH 工业核心板/核心模块包含 COM-E 核心板、Q-SEVEN 核心模块、Smarc 核心模块, 支持 Intel® Tiger Lake UP3、Intel® N-series Processor (N97/N95)、Intel® Elkhart Lake J6412 (2.00 GHz) / J6413 (1.80 GHz) Processor, Intel® Integrated Graphics, Windows 10 64bit、Linux; 具备丰富内外部接口

应用于计算机数控 (CNC) 机器实时控制、人机界面、工具应用、医学成像和诊断 (超声波等)

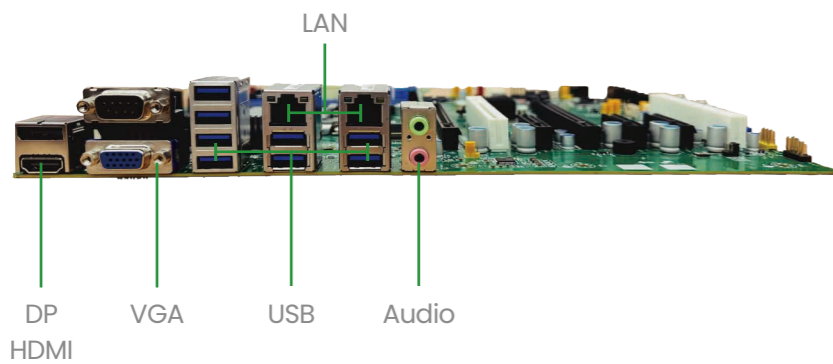
主板结构与装配

结构以 C1S-IW68-XA01 为例说明

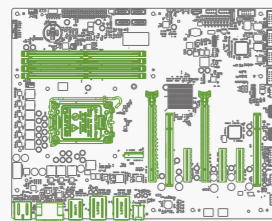
布局全览



板载接口



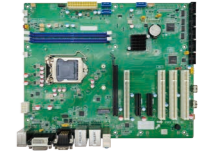
功能分区合理



极大扩展性



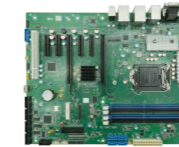
- 1 × PCIe × 16 Gen5
- 3 × PCIe × 4 Gen4
- 1 × PCIe × 4 Gen3
- 2 × PCI



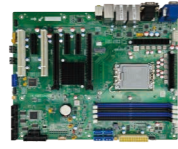
产品研发型号 R&D Model		CIB-IH11-XA01	CIB-IH11-XA03
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™ /Pentium®/Celeron® Processors with TDP up to 95W	
	芯片组 Chipset	Intel® H110 Chipset	
	内存 Memory	2 × DDR4 2133/2400MHz UDIMM, Max to 32GB (16GB per DIMM)	
	BIOS	AMI I28Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
后部 I/O Rear I/O	网卡 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × VGA: Up to 1920 × 1200@60Hz 1 × HDMI: Up to 4096 × 2160@24Hz 1 × DVI-D: Up to 1920 × 1200@60Hz 支持双屏异显	
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485 Default RS232)	
	USB	4 × USB 3.2 (Gen 1) 2 × USB 2.0	
	PS/2	1 × PS/2	
	扩展接口 Expansion slot	接口 Interface	1 × PCIe × 16 (Gen3) 1 × PCIe × 4 (Gen2) 5 × PCI
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × M.2 2280 M Key (SATA3,与SATA1复用)	1 × M.2 2280 M Key (SATA3)
	串口 COM	1 × COM (RS232/422/485,Default RS232) 4 × COM (RS232)	
	USB	1 × Vertical USB 2.0 type A 2 × USB 2.0	
	SATA	4 × SATA 3.0	3 × SATA 3.0
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan 2 × System Smart Fan	
	OS Recovery	1 × OS Recovery	
	Remote SW	1 × Remote SW	
	安全 Security	1 × TPM 2.0 Module Extension	
	LAN LED	1 × LAN LED	
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input	ATX
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	尺寸 Dimension	ATX Form Factor, 305 × 244mm	



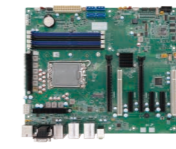
产品研发型号 R&D Model		CIB-IQ17-XA01	CIB-IZ39-XA01
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™ /Pentium® / Celeron® Processors with TDP up to 95W	Intel® 6th/8th/9th Generation Core™ /Pentium® / Celeron® Processors with TDP up to 95W
	芯片组 Chipset	Intel® Q170 Chipset	Intel® Z390 Chipset
	内存 Memory	4 × DDR4 2400/2666 MHz UDIMM, Max to 64GB (16GB per DIMM)	4 × DDR4 2400/2666MHz UDIMM, Max to 128GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I210-AT GbE (10/100/1000 Mbps)	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I226-V GbE (10/100/1000/2500 Mbps)
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显
	音频 Audio	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485 Default RS232)	1 × COM (RS232/422/485 Default RS232) 1 × COM (RS232)
	USB	4 × USB 3.2 (Gen 1)	4 × USB 3.2 (Gen 1) 2 × USB 2.0
	PS/2	/	
	扩展接口 Expansion slot	接口 Interface	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 2 × PCIe × 4 (Gen3) 3 × PCI
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × M.2 2280 M Key (SATA3)	1 × M.2 2280 M Key (SATA / NVMe PCIe4 自适应)
	串口 COM	1 × COM (RS232/422/485, Default RS232) 4 × COM (RS232)	4 × COM (RS232)
	USB	1 × Vertical USB 2.0 type A 4 × USB 2.0 2 × USB 3.2 Gen1	2 × Vertical USB 2.0 type A 2 × USB 2.0 2 × USB 3.2 Gen1
	SATA	5 × SATA 3.0, 支持 RAID 0, 1, 5, 10	4 × SATA 3.0
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan 3 × System Smart Fan	
	OS Recovery	1 × OS Recovery	
	Remote SW	1 × Remote SW	
	安全 Security	1 × TPM 2.0 Module Extension	1 × LPC TPM 2.0 Module Extension
	LAN LED	2 × LAN LED	1 × LAN LED
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input	ATX
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	ATX Form Factor, 305 × 244mm	



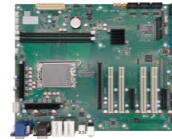
产品研发型号 R&D Model		CIB-IQ47-XA01	CIB-IQ47-XA02
系统 System	处理器 Processor	Intel® 10th/11th Generation Core™ /Pentium® /Celeron® with TDP up to 125W	
	芯片组 Chipset	Intel® Q470 Chipset	
	内存 Memory	4 × DDR4 2666/2933 MHz UDIMM, Max to 128GB (32GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	
	音频 Audio	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485 Default RS232)	
	USB	4 × USB 3.2 (Gen 2) 2 × USB 3.2 (Gen 1) 2 × USB 2.0	4 × USB 3.2 (Gen 2) 2 × USB 2.0
	PS/2	/	
	扩展接口 Expansion slot	接口 Interface	2 × PCIe × 16 (Gen3, 1×16 or 2×8) 2 × PCIe × 4 (Gen3) 2 × PCIe × 1 (Gen1) 1 × PCI
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × M.2 2280 M Key (SATA or PCIe4 NVMe Gen4)	
	串口 COM	1 × COM (RS232/422/485, Default RS232) 4 × COM (RS232)	
	USB	1 × Vertical USB 2.0 type A 2 × USB 2.0 2 × USB 3.1 Gen1	1 × Vertical USB 2.0 type A 2 × USB 2.0
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	3 × SATA 3.0, 支持 RAID (0, 1, 5, 10)
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan 2 × System Smart Fan	
	OS Recovery	1 × OS Recovery	
	Remote SW	1 × Remote SW	
	安全 Security	1 × TPM 2.0 Module Extension	
	LAN LED	1 × LAN LED	
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input	ATX
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	ATX Form Factor, 305 × 244mm	



产品研发型号 R&D Model		CIB-IQ67-XA01	CIB-IQ67-XA02	CIB-IQ67-XA03
系统 System	处理器 Processor	Intel® 12th / 13th / 14th Generation Core™ / Pentium® / Celeron® Processors with TDP up to 125W		
	芯片组 Chipset	Intel® Q670 Chipset		
	内存 Memory	4 × DDR4 3200MHz UDIMM, Max to 128GB (32GB per DIMM)	4 × DDR5 4800/5600MHz UDIMM, Max to 192GB (48GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux	Windows 10/11 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I210-AT GbE (10/100/1000 Mbps)	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I226-V GbE (10/100/1000/2500 Mbps)	
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显 (eDP选配)	
	音频 Audio	1 × Line-out, 1 × Mic-in		
	串口 COM	1 × COM (RS232/422/485 Default RS232)	2 × COM (RS232/422/485 Default RS232)	1 × COM (RS232/422/485, Default RS232)
	USB	2 × USB 3.2 (Gen 2) 2 × USB 3.2 (Gen 1)	2 × USB 3.2 (Gen 2) 6 × USB 3.2 (Gen 1)	
	PS/2	/	/	/
	扩展接口 Expansion slot	接口 Interface	2 × PCIe × 16 (Gen3, 1×16 or 2×8), 3 × PCIe × 4 (Gen4), 1 × PCIe × 1 (Gen3), 1 × PCI	2 × PCIe × 16 (Gen3, 1×16 or 2×8), 3 × PCIe × 4 (Gen4), 2 × PCI
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × M.2 2280 M Key (SATA or PCIe × 4 NVMe Gen4)		
	串口 COM	1 × COM (RS232/422/485, Default RS232) 4 × COM (RS232)	4 × COM (RS232)	1 × COM (RS232/422/485, Default RS232) 4 × COM (RS232)
	USB	1 × Vertical USB 3.2 Gen1 type A 2 × USB 2.0 2 × USB 3.2 (Gen1) 2 × USB 3.2 (Gen2)	2 × Vertical USB 2.0 type A 2 × USB 3.2 (Gen1) 2 × USB 2.0	
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10		
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	1 × 16bit GPIO, Default 为 8in/8out 与 LPT connector 复用, 默认不上件	1 × 8bit GPIO, Default 为 4in/4out
	Audio	1 × Front Audio (Line-out/Mic-in)		
	FAN	1 × CPU Smart Fan 3 × System Smart Fan		
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	安全 Security	1 × TPM 2.0 Module Extension	1 × TPM 2.0 Module Extension, 默认不上件	1 × TPM 2.0 Module Extension
	LAN LED	2 × LAN LED	1 × LAN LED	
	Front Panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C		
	存储温度 Storage Temp	-40°C ~ 85°C		
	操作湿度 Operating Relative Humidity	60°C 95%RH		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing		
机构 Mechanical	尺寸 Dimension	ATX Form Factor, 305 × 244mm		



产品研发型号 R&D Model		CIB-IW68-XA01	CIB-IW68-XA02	
系统 System	处理器 Processor	Intel® 12th / 13th / 14th Generation Core™ / Pentium® / Celeron® Processors with TDP up to 125W		
	芯片组 Chipset	Intel® W680 Chipset		
	内存 Memory	DDR5 4800 / 5600MHz UDIMM × 4, Max to 192GB (48GB per DIMM)	4 × DDR5 4800 / 5600MHz UDIMM (ECC/None ECC) Max to 192GB (48GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10/11 64bit; tLinux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec / min		
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)		
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	
	音频 Audio	1 × Line-out, 1 × Mic-in		
	串口 COM	1 × COM (RS232 / 422 / 485 Default RS232)		
	USB	2 × USB 3.2 (Gen 2) 6 × USB 3.2 (Gen 1)		
	PS/2	/		
	扩展接口 Expansion slot	接口 Interface	1 × PCIe × 16 (Gen5), 3 × PCIe × 4 (Gen4), 1 × PCIe × 4 (Gen3), 2 × PCI	2 × PCIe × 16 (Gen4, 1 × 16 or 2 × 8), 3 × PCIe × 4 (Gen4), 2 × PCI
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × M.2 2280 M Key (PCIEx4 NVMe Gen4)	1 × M.2 2280 M Key (SATA or PCIe4 NVMe) 1 × M.2 2280 M Key (PCIEx4 NVMe Gen4)	
	串口 COM	1 × COM (RS232/422/485, Default RS232) 4 × COM (RS232)		
	USB	2 × Vertical USB 2.0 type A 2 × USB 3.2 (Gen1) 2 × USB 2.0		
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10		
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	1 × 8bit GPIO, Default 为 4in/8out	
	Audio	1 × Front Audio (Line-out / Mic-in)		
	FAN	1 × CPU Smart Fan 3 × System Smart Fan		
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	安全 Security	1 × TPM 2.0 Module Extension		
	LAN LED	1 × LAN LED		
	Front Panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C		
	存储温度 Storage Temp	-40°C ~ 85°C		
	操作湿度 Operating Relative Humidity	60°C 95%RH		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing		
机构 Mechanical	尺寸 Dimension	ATX Form Factor, 305 × 244mm		



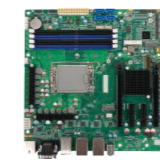
产品研发型号 R&D Model		CIB-IH61-XA01	CIB-IH61-XA03
系统 System	处理器 Processor	Intel® 12th / 13th / 14th Generation Core™ / Pentium® / Celeron® Processors with TDP up to 125W	
	芯片组 Chipset	Intel® H610 Chipset	
	内存 Memory	2 × DDR4 2666 / 3200MHz UDIMM, Max to 64GB (32GB per DIMM)	2 × DDR5 4800 / 5600MHz UDIMM (ECC/None ECC) Max to 96GB (48GB per DIMM)
	BIOS	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10/11 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec / min	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	
	音频 Audio	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485 Default RS232) 1 × COM (RS232)	
	USB	4 × USB 3.2 (Gen 1) 2 × USB 2.0	
	PS/2	/	
扩展接口 Expansion slot	接口 Interface	1 × PCIe × 16 (Gen4), 1 × PCIe × 4 (Gen3, Bom Option PCIe × 2), 1 × PCIe × 2 (Gen3), 4 × PCI	
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × M.2 2280 M key (SATA or PCIe × 2 NVMe Gen3, Bom Option)	1 × M.2 2280 M key (SATA or PCIe × 2 NVMe Gen3 自适应)
	串口 COM	4 × COM (RS232)	
	USB	2 × Vertical USB 2.0 type A 2 × USB 2.0	
	SATA	3 × SATA 3.0 (4 × SATA3.0, Bom Option)	
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan 3 × System Smart Fan	
	OS Recovery	1 × OS Recovery	
	Remote SW	1 × Remote SW	
	安全 Security	1 × TPM 2.0 Module Extension	
	LAN LED	1 × LAN LED	
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input	ATX
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	ATX Form Factor, 305 × 244mm	



产品研发型号 R&D Model		CIB-H340-XA01	
系统 System	处理器 Processor	海光4号3450, 8核, 主频3.6GHz, TDP 70W	海光4号3490, 16核, 主频2.8GHz, TDP 135W
	内存 Memory	4 × U-DIMM 5200Mbps Max 128G (ECC&Non ECC)	
	图形 Graphics	主板onboard显示芯片 (优先) / 支持PCIe拓展显卡	
	操作系统 OS	银河麒麟V10, 统信UOS-V20, Windows	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec / min	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1 / LAN2 10 / 100 / 1000M以太网接口	
	显示 Display	1 × HDMI 1 × DP 1 × VGA接口, 最高支持1920*1080@60Hz	
	音频 Audio	1 × Line-out, 1 × Mic-in	
	串口 COM	2 × COM (RS232 / RS485 / RS422)	
扩展接口 Expansion slot	接口 Interface	2 × PCIe4.0 × 16Slot (8Lanes*2) 3 × PCIe3.0 × 4Slot (4Lanes*1, 2Lanes*1, 1Lanes*1) 2 × PCI	
	扩展接口 Expansion Slot	1 × M.2 2280 SSD插槽, 支持SATA3.0 (默认上件)	
内部接口 Internal I/O	COM	4 × COM (RS232)	
	USB	2 × USB2.0 (1 × 2*5Pin Header) 2 × USB2.0 Type-A	
	SATA	3 × SATA3.0 (默认SATA4不上件)	
	GPIO	8 bit GPIO (1 × 2*5Pin)	
	Audio	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan 2 × System Smart Fan	
	OS Recovery	1 × 2Pin金针	
	Remote SW	1 × 2Pin金针	
	安全 Security	1 × 2*7Pin金针插座 TCM接口	
	eBMC	1 × eBMC模块接口 (选配)	
Front Panel	1 × Front Panel		
电源 Power	电源输入 Power Input	ATX电源	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	ATX Form Factor, 305 × 244mm	



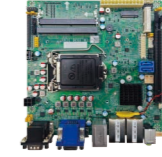
产品研发型号 R&D Model		CIB-IH11-MA01	CIB-IQ47-MA01
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™/Pentium®/Celeron® Processors with TDP up to 95W	Intel® 10th/11th Generation Core™/Pentium®/Celeron® Processors with TDP up to 125W
	芯片组 Chipset	Intel® H110 Chipset	Intel® Q470 Chipset
	内存 Memory	2 × DDR4 2133/2400 MHz UDIMM, Max to 32GB (16GB per DIMM)	4 × DDR4 2400/2666/2933 MHz UDIMM Max to 128GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash	AMI 256Mbit SPI Flash
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	System reset, programmable 255 levels timer interval, from 1-256 sec/min
	后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)
显示 Display		1 × VGA: Up to 1920 × 1200@60Hz 1 × HDMI: Up to 4096 × 2160@24Hz 1 × DVI-D: Up to 1920 × 1200@60Hz 支持双屏异显	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显
音频 Audio		1 × Line-in, 1 × Line-out, 1 × Mic-in	
串口 COM		1 × COM (RS232/422/485 Default RS232)	
USB		6 × USB 3.2 (Gen1) 2 × USB 2.0	4 × USB 3.2 (Gen1)
接口 Interface		1 × PCIe × 16 (Gen3) 1 × PCIe × 4 (Gen2) 2 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 2 × PCIe × 4 (Gen3)
扩展接口 Expansion slot	接口 Interface	1 × M.2 2280 M Key for SSD (SATA3, 与SATA1复用)	1 × M.2 2280 M Key for SSD (SATA or PCIe NVMe Gen4)
	串口 COM	1 × COM (RS232/422/485 Default RS232) 4 × COM (RS232)	1 × COM (RS232/422/485 Default RS232) 4 × COM (RS232)
	USB	1 × Vertical USB 2.0 type A 2 × USB 2.0	1 × Vertical USB 3.2 Gen1 type A 2 × USB 2.0 4 × USB 3.2 (Gen1)
	SATA	4 × SATA 3.0	
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件	
	FAN	1 × CPU Smart Fan 2 × System Smart Fan	1 × CPU Smart Fan 3 × System Smart Fan
	OS Recovery	1 × OS Recovery	
	Remote SW	/	1 × Remote SW
	安全 Security	1 × TPM 2.0 Module Extension	
	LAN LED	2 × LAN LED	1 × LAN LED
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input ATX	
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C
存储温度 Storage Temp		-40°C ~ 85°C	
操作湿度 Operating Relative Humidity		60°C 95%RH	
存储湿度 Storage relative Humidity		60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension 244 × 244mm		



产品研发型号 R&D Model		CIB-IQ67-MA01	CIB-IZ39-MA01
系统 System	处理器 Processor	Intel® 12th/13th Generation Core™/Pentium®/Celeron® Processors with TDP up to 125W	Intel® 12th/13th Generation Core™/Pentium®/Celeron® Processors with TDP up to 125W
	芯片组 Chipset	Intel® Q670 Chipset	Intel® Z390 Chipset
	内存 Memory	4 × DDR4 3200 MHz UDIMM, Max to 128GB (32GB per DIMM)	4 × DDR4 2400/2666MHz UDIMM, Max to 128GB (32GB per DIMM)
	BIOS	AMI 256Mbit SPI Flash	AMI 128Mbit SPI Flash
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-257 sec/min	System reset, programmable 255 levels timer interval, from 1-255 sec/min
	后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I226-V GbE (10/100/1000 Mbps)
显示 Display		1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	
音频 Audio		1 × Line-out, 1 × Mic-in	
串口 COM		1 × COM (RS232/422/485 Default RS232)	1 × COM (RS232/422/485 Default RS232) 1 × COM (RS232)
USB		4 × USB 3.2 (Gen2)	4 × USB 3.2 (Gen1) 2 × USB 2.0
接口 Interface		2 × PCIe × 16 (Gen 4, 1 × 16 or 2 × 8) 2 × PCIe × 4 (Gen 4)	1 × PCIe × 16 (Gen3) 1 × PCIe × 4 (Gen3) 2 × PCI
扩展接口 Expansion slot	接口 Interface	2 × PCIe × 16 (Gen 4, 1 × 16 or 2 × 8) 2 × PCIe × 4 (Gen 4)	1 × PCIe × 16 (Gen3) 1 × PCIe × 4 (Gen3) 2 × PCI
	扩展接口 Expansion Slot	1 × M.2 2280 M Key (SATA or PCIe × 4 NVMe Gen4)	1 × M.2 2280 M Key (SATA/NVMe PCIe × 4 自适应)
	串口 COM	1 × COM (RS232/422/485, Default RS232) 4 × COM (RS232)	4 × COM (RS232)
	USB	1 × Vertical USB 3.2 Gen1 type A 2 × USB 2.0 2 × USB 3.2 (Gen1) 2 × USB 3.2 (Gen2)	2 × Vertical USB 2.0 type A 2 × USB 2.0 2 × USB 3.2 Gen1
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	1 × 8bit GPIO, Default 为 4in/4out
	Audio	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan 3 × System Smart Fan	
	OS Recovery	1 × OS Recovery	
	Remote SW	1 × Remote SW	
	安全 Security	1 × TPM 2.0 Module Extension	
	LAN LED	2 × LAN LED	1 × LAN LED
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input ATX	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension ATX Form Factor, 244 × 244mm		



产品研发型号 R&D Model		CIB-IH11-IC01
系统 System	处理器 Processor	Intel® 6th/7th Generation Core™/Pentium®/Celeron® Processors with TDP up to 65W
	芯片组 Chipset	Intel® H110 Chipset
	内存 Memory	2 × DDR4 1866/2133/2400MHz SO-DIMM, Max to 32GB (16GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash
	图形 Graphics	Intel® HD 530 (for Intel® 6th CPU) Intel® HD 630 (for Intel® 7th CPU)
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion slot	接口 Interface	1 × PCIe × 16 (Gen3)
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × VGA: Up to 1920 × 1200@60Hz 1 × HDMI: Up to 4096 × 2160@24Hz 1 × DVI-D: Up to 1920 × 1200@60Hz
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in
	USB	4 × USB 3.2 (Gen1) 4 × USB 2.0
	串口 COM	1 × COM (RS232/422/485 Default RS232)
	Remote SW	1 × Remote
	内部接口 Internal I/O	扩展接口 Expansion Slot
串口 COM		1 × COM (RS232/422/485 Default RS232) 4 × COM (RS232)
USB		1 × Vertical USB 2.0 type A 2 × USB 2.0
SATA		2 × SATA 3.0
GPIO		1 × 8bit GPIO, Default 为 4in/4out
SIM		1 × Nano SIM
FAN		1 × CPU Smart Fan 1 × System Smart Fan
LVDS		1 × LVDS, Up to 1920 × 1200, co-lay eDP
OS Recovery		1 × OS Recovery Button
Security		1 × TPM 2.0 Module Extension
Remote		/
Front Panel		1 × Front Panel
电源 Power		电源输入 Power Input
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C
	操作湿度 Operating Relative Humidity	60°C 95%RH
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing
机构 Mechanical	尺寸 Dimension	170 × 170 mm



产品研发型号 R&D Model		CIB-IB36-IC01
系统 System	处理器 Processor	Intel® 6th/8th/9th Generation Core™/Pentium®/Celeron® Processors with TDP up to 65W
	芯片组 Chipset	Intel® B360 Chipset
	内存 Memory	Dual Channel (Non-ECC) DDR4 2133/2400/2666MHz (6th/8th/9th CPU) 260-pin SODIMM × 2, Max to 64GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash
	图形 Graphics	Intel® UHD Graphics
	操作系统 OS	Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion slot	接口 Interface	1 × PCIe × 16 (Gen3)
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN 1 Intel® I219-V GbE 10/100/1000 Mbps LAN 2 Intel® I226-VGbE 10/100/1000/2500 Mbps
	显示 Display	1 × DP++, up to 4096 × 2304@60Hz 1 × HDMI: up to 4096 × 2160@30Hz 1 × VGA: up to 1920 × 1200@60Hz 支持三屏异显
	音频 Audio	1 × Line-out, 1 × Mic-in
	USB	4 × USB 3.2 (Gen1) 2 × USB 2.0
	串口 COM	1 × COM (RS232/422/485, Default RS232) 1 × COM (RS232)
	Remote SW	/
	内部接口 Internal I/O	扩展接口 Expansion Slot
串口 COM		4 × COM (RS232)
USB		1 × Vertical USB 2.0 type A 2 × USB 2.0
SATA		2 × SATA 3.0
GPIO		1 × 8bit GPIO, Default 为 4in/4out
SIM		1 × SIM Card
FAN		1 × CPU Smart Fan 1 × System Smart Fan
LVDS		1 × LVDS/eDP, Up to 1920 × 1200
OS Recovery		1 × OS Recovery
Security		/
Remote		1 × Remote
Front Panel		1 × Front Panel
电源 Power		电源输入 Power Input
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C
	操作湿度 Operating Relative Humidity	60°C 95%RH 非凝露Non-condensing
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing
机构 Mechanical	尺寸 Dimension	170 × 170mm



产品研发型号 R&D Model		CIB-IH61-IC01
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™/Pentium®/Celeron® Processors with TDP up to 95W
	芯片组 Chipset	Intel® H610 Chipset
	内存 Memory	DDR5 4800/5600MHz SO-DIMM DIMM × 2, Max to 96GB (48GB per DIMM)
	BIOS	AMI 256Mbit SPI Flash
	图形 Graphics	Intel® UHD Graphics
	操作系统 OS	Windows 10/11 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion slot	接口 Interface	1 × PCIe × 16 (Gen4)
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × DP++, up to 4096 × 2304@60Hz 1 × HDMI: up to 4096 × 2160@60Hz 1 × VGA: up to 1920 × 1200@60Hz 支持三屏异显
	音频 Audio	1 × Line-out, 1 × Mic-in
	USB	4 × USB 3.2 2 × USB 2.0
	串口 COM	2 × COM (RS232/422/485, Default RS232)
	Remote SW	/
	内部接口 Internal I/O	扩展接口 Expansion Slot
串口 COM	4 × COM (RS232)	
USB	1 × Vertical USB 2.0 type A 2 × USB 2.0	
SATA	2 × SATA 3.0	
GPIO	1 × 8bit GPIO, Default 为 4in/4out	
SIM	1 × Nano SIM	
FAN	1 × CPU Smart Fan 1 × System Smart Fan	
LVDS	1 × LVDS, Up to 1920 × 1200, co-lay eDP	
OS Recovery	1 × OS Recovery	
Security	/	
Remote	1 × Remote	
Front Panel	1 × Front Panel	
电源 Power	电源输入 Power Input	ATX/DC-IN; BOM option
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C
	操作湿度 Operating Relative Humidity	60°C 95%RH
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing
机构 Mechanical	尺寸 Dimension	170 × 170mm



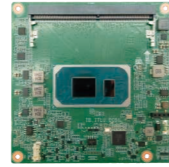
产品研发型号 R&D Model		CIB-IELK-TW01	CIB-ITLU-TW01
系统 System	处理器 Processor	Intel® Celeron® Processor J Series Intel® Elkhart Lake J6412 (2.00 GHz) Intel® Elkhart Lake J6413 (1.80 GHz)	Intel® 11th i7/i5/i3 (Tiger lake UP3) i3-1115G4/i5-1135G7/i7-1165G7
	内存 Memory	1 × DDR4 2666/3200MHz SO-DIMM, Up to 32GB	DDR4 3200 MHz SO-DIMM × 1, Up to 32 GB
	BIOS	AMI I28Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
	后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 LAN1-4: Intel® I210-AT GbE (10/100/1000 Mbps)
显示 Display		1 × HDMI: Up to 4096 × 2304@30Hz 1 × DP++: Up to 4096 × 2304@60Hz	
USB		4 × USB3.2 (Gen1)	4 × USB3.2 (Gen2)
LED		1 × Power LED 1 × HDD LED	
开关按键		/	
OS Recovery		1 × OS Recovery Button	
内部接口 Internal I/O		扩展接口 Expansion Slot	1 × Full-size Mini-PCIe (PCIe × 1 & USB2.0) 1 × M.2 2242 M Key for SSD (SATA3.0) 1 × M.2 2230 E Key, (PCIe × 1 + USB2.0)
	显示接口	1 × LVDS, Up to 1920 × 1200, co-lay eDP	
	串口 COM	2 × COM (RS232/422/485 Default RS232) 2 × COM RS232	
	CAN	2 × CAN 2.0b	/
	USB	2 × USB 2.0	
	SATA	1 × SATA 3.0	
	GPIO	1 × 8bit GPIO, Default 为 4in/4out	
	Audio	1 × Audio (Line-out&Mic-in)	
	SIM卡	1 × Nano SIM	
	风扇 FAN	1 × CPU Smart Fan	
	Front Panel	1 × Front Panel	
	Security	TPM2.0	
	eSPI	/	
	UPS	NA	
电源 Power	电源输入 Power Input	12V~24V DC	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	146 × 102 mm, 3.5寸	



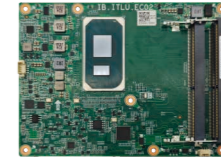
产品研发型号 R&D Model		CIB-IMTL-TW01
系统 System	处理器 Processor	Intel® Core™ Ultra Series Processor Support Ultra 5 125U,125H, 235H, Ultra 7 155H,255H
	内存 Memory	2 × DDR5 5600 MHz SO-DIMM, Up to 96GB
	BIOS	AMI 256Mbit SPI Flash
	图形 Graphics	Intel® Integrated Graphics
	操作系统 OS	Windows 10/11, Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
	后部 I/O Rear I/O	网口 Ethernet
显示 Display		1 × HDMI: Up to 4096 × 2304@30Hz 1 × DP++: Up to 4096 × 2304@60Hz 1 × USB-C Supports DP++, Up to 5120 × 3200@60 Hz
USB		3 × USB3.2 (Gen2) 1 × USB-C Supports USB3.2 (Gen2)
LED		1 × Power LED 1 × HDD LED
开关按键		/
OS Recovery		1 × OS Recovery Button
内部接口 Internal I/O		扩展接口 Expansion Slot
	显示接口	1 × LVDS, Up to 1920 × 1200, co-lay eDP
	串口 COM	1 × COM (RS232/422/485 Default RS232) 3 × COM (RS232) COM 1&2 全信号, COM3&4 TX RX GND
	CAN	/
	USB	2 × USB 2.0
	SATA	1 × SATA 3.0
	GPIO	1 × 8bit GPIO Default 4in/4out
	Audio	1 × Audio (Line-out&Mic-in)
	SIM卡	1 × Nano SIM
	风扇 FAN	1 × CPU Smart Fan
	Front Panel	1 × Front Panel
	Security	On board TPM 芯片/dTPM
	eSPI	/
	UPS	1 × UPS 外接模块 (可选)
	电源 Power	电源输入 Power Input
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C
	操作湿度 Operating Relative Humidity	60°C 95%RH
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing
机构 Mechanical	尺寸 Dimension	146 × 102 mm, 3.5寸



产品研发型号 R&D Model		CIB-IADN-TW01	CIB-IADN-TW02	
系统 System	处理器 Processor	Intel® Processor N-series; N97 processor 2.0 GHz, up to 3.6GHz, TDP 12W; N95 processor 1.7 GHz, up to 3.4GHz, TDP 15W;		
	内存 Memory	1 × DDR4 3200MHz SO-DIMM, Up to 32GB	1 × DDR5 4800MHz SO-DIMM, Up to 32GB	
	BIOS	AMI UEFI BIOS		
	图形 Graphics	Intel® UHD graphics integrated		
	操作系统 OS	Windows10/11, Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
	后部 I/O Rear I/O	网口 Ethernet	3 × RJ45 LAN1: Intel® I226-V GbE (10/100/1000/2500 Mbps) LAN2&3: Intel® I210-AT GbE (10/100/1000 Mbps)	
显示 Display		1 × HDMI, resolution up to 4096 × 2160@30Hz 1 × DP++, resolution up to 4096 × 2160@60Hz		
USB		2 × USB3.2 (Gen2) 2 × USB2.0	3 × USB3.2 (Gen2) 1 × USB 2.0	
LED		1 × HDD LED		
开关按键		1 × Power Button with LED		
OS Recovery		1 × OS Recovery Button		
内部接口 Internal I/O		扩展接口 Expansion Slot	1 × Full-size Mini-PCIe (USB3.0/PCIe × 1 & USB2.0) 1 × M.2 2280 M Key for SSD (SATA3.0) 1 × M.2 2230 E Key for Wi-Fi (PCIe × 1 + USB2.0)	
	显示接口	1 × LVDS, dual channel 18/24bit, resolution up to 1920 × 1200@60Hz 1 × eDP1.3, resolution up to 4096 × 2160@60Hz (co-lay with LVDS)		
	串口 COM	2 × COM (RS232/485 Default RS232, 隔离等级: 3KV) 2 × COM RS232 2 × TTL (2*5Pin预留)	2 × COM (RS232/RS422/485 Default RS232, 隔离等级: 2.5KV) 2 × COM RS232 (Only TX RX GND)	
	CAN	/	2 × CAN 2.0b, 与 USB2.0 pin header colay, Default 不上件	
	USB	2 × USB 2.0	2 × USB 2.0, 其中一组与can colay, default USB2.0	
	SATA	1 × SATA 3.0		
	GPIO	1 × 8bit GPIO Default 4in/4out (2*5pin)		
	Audio	1 × Audio (Line-out&Mic-in 2*5pin)		
	SIM卡	1 × Standard SIM		
	风扇 FAN	1 × CPU Smart Fan (1*4pin)		
	Front Panel	1 × Front panel wafer (2*5pin)(Power LED, HDD LED, Power button, Reset button)		
	Security	Support intel PTT		
	eSPI	/	1 × eSPI	
	UPS	1 × UPS 外接模块接口(可选)		
	电源 Power	电源输入 Power Input	12V~24V DC	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C		
	存储温度 Storage Temp	-40°C ~ 85°C		
	操作湿度 Operating Relative Humidity	60°C 95%RH		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	尺寸 Dimension	146 × 102 mm, 3.5寸		



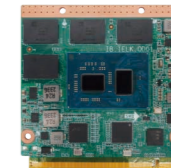
产品研发型号 R&D Model		CIB-ITLU-EC01		
系统 System	处理器 Processor	Intel® 11th i7/i5/i3/Celeron 处理器 (Tiger lake UP3) i3-1115G4/i5-1145G7/i7-1165G7/6305E		
	内存 Memory	DDR4 2666/2933/3200MHz SO-Dimm × 1, Up to 32GB		
	BIOS	AMI 128Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
IO接口 Expansion	Form FactorPin-out Type	COM Express R3.0 Type 6 compatible		
	Connector ROW A, B	Display	1 × LVDS Up to 1920 × 1080@60Hz; Default, Colay eDP 信号 1 × eDP Up to 4096 × 2304@60Hz; 默认无, Cloay LVDS; 1 × VGA Up to 1920 × 1200@60Hz; Default, Colay DDI3 From Connector ROW C, D	
		HDA	1 × HD Audio	
		LAN	1 × Controller Intel® I226-V GbE (10/100/1000 Mbps) MDI	
		USB	8 × USB2.0	
		SATA	2 × SATA 3.0	
		PCIE	5 × PCIE × 1	
		LPC	1 × LPC	
		I2C	1 × I2C	
		FAN	1 × Smart FAN	
		SPI	1 × SPI	
	SMBUS	1 × SMBUS		
	Connector ROW C, D	Display	1 × DDI1 Port for HDMI / DisplayPort 1 × DDI2 Port for HDMI / DisplayPort 1 × DDI3 Port for HDMI / DisplayPort, Colay Connector ROW A, B VGA, 默认无	
		PCIE	1 × PCIE × 4	
		USB	4 × USB 3.2 Gen2	
		DC_in	DC IN 12V	
环境 Environmental	操作温度 OperatingTemp	标准: -10°C~60°C, 宽温: -40°C~85°C; 40°C 95%RH, 非凝结状态Non-condensing		
	存储温度 Storage Temp	-40°C~85°C, 40°C 95%RH, 非凝结状态Non-condensing		
机构 Mechanical	尺寸 Dimension	95 × 95 mm		



产品研发型号 R&D Model		CIB-ITLU-EC02		
系统 System	处理器 Processor	Intel® 11th i7/i5/i3/Celeron 处理器 (Tiger lake UP3) i3-1115G4/i5-1145G7/i7-1165G7/6305E		
	内存 Memory	2 × DDR4 2666/2933/3200MHz SO-Dimm, Up to 64GB		
	BIOS	AMI 128Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
IO接口 Expansion	Form FactorPin-out Type	COM Express R3.0 Type 6		
	Connector ROW A, B	Display	1 × LVDS Up to 1920 × 1080@60Hz; Default, Colay eDP 信号 1 × eDP Up to 4096 × 2304@60Hz; 默认无, Cloay LVDS; 1 × VGA Up to 1920 × 1200@60Hz; Default, Colay DDI3 From Connector ROW C, D	
		HDA	1 × HD Audio	
		LAN	1 × Controller Intel® I226-V GbE (10/100/1000 Mbps) MDI	
		USB	8 × USB2.0	
		SATA	2 × SATA 3.0	
		PCIE	5 × PCIE × 1	
		LPC	1 × LPC	
		I2C	1 × I2C	
		FAN	1 × Smart FAN	
		SPI	1 × SPI	
	SMBUS	1 × SMBUS		
	Connector ROW C, D	Display	1 × DDI1 Port for HDMI / DisplayPort 1 × DDI2 Port for HDMI / DisplayPort 1 × DDI3 Port for HDMI / DisplayPort, Colay Connector ROW A, B VGA, 默认无	
		PCIE	1 × PCIE × 4	
		USB	4 × USB 3.2 Gen2	
		DC_in	DC IN 12V	
环境 Environmental	操作温度 OperatingTemp	标准: -10°C~60°C, 宽温: -40°C~85°C; 40°C 95%RH, 非凝结状态Non-condensing		
	存储温度 Storage Temp	-40°C~85°C, 40°C 95%RH, 非凝结状态Non-condensing		
机构 Mechanical	尺寸 Dimension	125 × 95 mm		



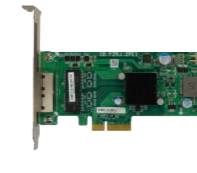
产品研发型号 R&D Model		CIB-IADN-EC01		
系统 System	处理器 Processor	Intel® Processor N-series; N97 processor 2.0 GHz, up to 3.6GHz, TDP 12W; N95 processor 1.7 GHz, up to 3.4GHz, TDP 15W;		
	内存 Memory	1 × DDR5 5600 MHz SO-DIMM, Up to 32GB		
	存储 Storage	On Board eMMC, 64GB to 256GB, (默认无)		
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
IO接口 Expansion	Form Factor/Pin-out Type	COM Express R3.0 Type 6 Compact		
	Connector ROW A, B	Display	1 × LVDS Up to 1920 × 1080@60Hz; Default, Colay eDP 信号 1 × eDP Up to 4096 × 2304@60Hz; 默认无, Cloay LVDS;	
		HDA	1 × HD Audio	
		LAN	1 × Controller Intel® I226-V GbE (10/100/1000 Mbps) MDI (PCIe lane 信号可切换到 Connector ROW C,D 的1 × PCIe1)	
		USB	8 × USB2.0	
		SATA	2 × SATA 3.0 (Default), Option PCIe 2 Lanes	
		PCIe	4 × PCIe x1 (Default), Max 6 × PCIe x1; (另外2组PCIe lanes 与 SATA 信号Co-lay)	
		LPC	1 × LPC, Option eSPI	
		COM	2 × COM (2-Wire)	
		CAN	1 × CAN (默认无, Option with COM1 Port)	
		TPM	1 × TPM 2.0	
		I2C	1 × I2C	
		SPI	1 × SPI	
		SMBUS	1 × SMBUS	
		GPIO	1 × 8bit GPIO	
	Connector ROW C, D	Mipi CSI	1 × Mipi CSI	
		Display	1 × DDI1 Port for HDMI / DisplayPort 1 × DDI2 Port for HDMI / DisplayPort	
		PCIe	1 × PCIe1 (Default), Max to 2 × PCIe1 (另外一组PCIe x1 与 Connector ROW A,B LAN 使用的PCIe lanes Co-lay)	
		USB	2 × USB3.2 Gen2, Option to 4 Ports by USB Hub	
		DC_in	支持8.5~20V 电源输入	
	Other	FAN	1 × Smart FAN	
	环境 Environmental	操作温度 OperatingTemp	标准: -10°C~60°C, 宽温: -40°C~85°C; 40°C 95%RH, 非凝结状态Non-condensing	
		存储温度 Storage Temp	-40°C~85°C, 40°C 95%RH, 非凝结状态Non-condensing	
机构 Mechanical	尺寸 Dimension	95 × 95 mm		



产品研发型号 R&D Model		CIB-IELK-QD01	
系统 System	处理器 Processor	Intel® Elkhart Lake J6412 (2.00 GHz) Intel® Elkhart Lake J6413 (1.80 GHz)	
	内存 Memory	LPDDR4-2400 MAX to 16GB	
	存储 Storage	eMMC, 4GB to 64GB	
	BIOS	AMI SPI Flash	
	操作系统 OS	Windows 10 64bit, Linux	
I/O	1 × Intel® I210-AT GbE (10/100/1000 Mbps)		
	1 × LVDS		
	2 × USB 3.0 * 2 4 × USB 2.0		
	1 × CAN 2.0		
	4 × PCIe × 1		
	1 × DDI		
	1 × HD Audio		
	1 × SDIO		
	1 × SMBUS		
	1 × I2C		
	1 × LPC		
	2 × UART		
	2 × SATA		
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C
存储温度 Storage Temp		-40°C ~ 85°C	
操作湿度 Operating Relative Humidity		60°C 95%RH	
存储湿度 Storage relative Humidity		60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	尺寸 Dimension	70 × 70 mm	



产品研发型号 R&D Model		CIB-IADN-SD01	CIB-IADN-SD02
系统 System	处理器 Processor	Intel® Processor N-series; N97 processor 2.0 GHz, up to 3.6GHz, TDP 12W; N95 processor 1.7 GHz, up to 3.4GHz, TDP 15W;	
	内存 Memory	1 × DDR5 5600 MHz SO-DIMM, Up to 32GB	1 × DDR4 3200 MHz SO-DIMM, Up to 32GB
	存储 Storage	On Board eMMC, 64GB to 256GB	
	BIOS	AMI SPI Flash	
	操作系统 OS	Windows 10/11 64bit, Linux	
I/O	Form Factor Pin-out Type	SMARC (非标准)	
	LAN	1 × LAN Controller Intel® I210-AT GbE (10/100/1000 Mbps) MDI	
	SATA	2 × SATA	
	Audio	1 × HDA	
	USB	4 × USB2.0 2 × USB3.0	
	PCIE	4 × PCIe1	
	Display	2 × DDI	
	Other	1 × ESPI 1 × SPI 1 × GPIO 1 × FAN 1 × Power button	
环境 Environmental	操作温度 Operating Temp	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	94 × 82 × 10.1mm	



产品研发型号 R&D Model		全高4口千兆网卡/POE卡 CIB-4LAN-350A	全高2口千兆网卡/POE卡 CIB-2LAN-350A	全高4口千兆网卡/POE卡 CIB-4LAN-210D	
系统 System	总线接口 BUS	PCIe4, (Gen2,x2/x4)	PCIe4, (Gen2,x2/x4)	PCIe4, (Gen2,x2/x4)	
	Golden Finger	×4	×4	×4	
	网络芯片 Chipset	Intel® I350-AM4, 支持 IEEE 1588	Intel® I350-AM2, 支持 IEEE 1588	Intel® I210-AT, 支持 IEEE 1588	
	物理接口 Interface	4×RJ45	2×RJ45	4×RJ45	
	速度 Speed	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	
	PoE兼容性 PoE	1000Base-T; IEEE 802.3af compliant; 15.4W@48VDC 功率输出 (每个RJ45)	1000Base-T; IEEE 802.3af compliant; 15.4W@48VDC 功率输出 (每个RJ45)	1000Base-T; IEEE 802.3af compliant; 15.4W@48VDC 功率输出 (每个RJ45)	
	支持 Support	巨型帧(9,500 byte)及链路聚合	巨型帧(9,500 byte)及链路聚合	巨型帧(9,500 byte)及链路聚合	
	线缆要求 Cable	Cat 5e或Cat 6, 最长100米	Cat 5e或Cat 6, 最长100米	Cat 5e或Cat 6, 最长100米	
	电源需求 Power	电源输入 Power Input	直接通过 PCIe slot, or 12V AT/ ATX System power input Maximal 3A @ 3.3V from PCI Express bus Maximal 5.6A @ 12V directly from PCI Express bus	直接通过 PCIe slot, or 12V AT/ ATX System power input Maximal 3A @ 3.3V from PCI Express bus Maximal 5.6A @ 12V directly from PCI Express bus	直接通过 PCIe slot, or 12V AT/ ATX System power input Maximal 3A @ 3.3V from PCI Express bus Maximal 5.6A @ 12V directly from PCI Express bus
		电源功耗 Power Consumption	Max. 60W / 4 × PoE 电源负载	Max. 35W / 2 × PoE 电源负载	Max. 60W / 4 × PoE 电源负载
可支持操作系统 OS	支持 OS	Windows 7/Windows 10, Linux	Windows 7/Windows 10, Linux	Windows 7/Windows 10, Linux	
防护 Protection	ESD	12KV (Air), 6KV (Contact)	12KV (Air), 6KV (Contact)	12KV (Air), 6KV (Contact)	
	EFT	1 KV	1 KV	1 KV	
	Surge	1 KV (Signal Lines)	1 KV (Signal Lines)	1 KV (Signal Lines)	
	CS	10V	10V	10V	
	RE	Class B	Class B	Class B	
	CE	Class B	Class B	Class B	
环境 Environmental	操作温度 Operating Temp	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH	60°C 95%RH	60°C 95%RH	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	60°C 95%RH 非凝露 Non-condensing	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	168 × 69 mm, 标配全高挡板 (可选配半高挡板)	168 × 69 mm, 标配全高挡板 (可选配半高挡板)	150 × 112 mm (全高挡板)	



产品研发型号 R&D Model		半高4口千兆网卡/POE卡 CIB-4LAN-210C	半高4口千兆网卡/非POE卡 CIB-4LAN-210C
系统 System	总线接口 BUS	PCIex4, (Gen2,x2/x4)	PCIex4, (Gen2,x2/x4)
	Golden Finger	×4	×4
	网络芯片 Chipset	Intel® I210-AT, 支持 IEEE 1588	Intel® I210-AT, 支持 IEEE 1588
	物理接口 Interface	4×RJ45	4×RJ45
	速度 Speed	10/100/1000 Mbps	10/100/1000 Mbps
	PoE兼容性 PoE	1000Base-T; IEEE 802.3af compliant; 15.4W@48VDC 功率输出 (每个RJ45)	1000Base-T
	支持 Support	巨型帧(9,500 byte)及链路聚合	巨型帧(9,500 byte)及链路聚合
	线缆要求 Cable	Cat 5e或Cat 6, 最长100米	Cat 5e或Cat 6, 最长100米
电源需求 Power	电源输入 Power Input	直接通过 PCIe slot, or 12V AT/ATX System power input Maximal 3A @ 3.3V from PCI Express bus Maximal 5.6A @ 12V directly from PCI Express bus	直接通过 PCIe slot, Maximal 3A @ 3.3V from PCI Express bus
	电源功耗 Power Consumption	Max. 60W / 4 x PoE 电源负载	无POE功能
可支持操作系统 OS	支持OS	Windows 7/Windows 10, Linux	Windows 7/Windows 10, Linux
防护 Protection	ESD	12KV (Air), 6KV (Contact)	12KV (Air), 6KV (Contact)
	EFT	1 KV	1 KV
	Surge	1 KV (Signal Lines)	1 KV (Signal Lines)
	CS	10V	10V
	RE	Class B	Class B
	CE	Class B	Class B
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C	0°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C	-40°C ~ 85°C
	操作湿度 Operating Relative Humidity	60°C 95%RH	60°C 95%RH
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing	60°C 95%RH 非凝露Non-condensing
机构 Mechanical	尺寸 Dimension	182 × 69 mm, 标配全高挡板 (可选配半高挡板)	182 × 69 mm, 标配全高挡板 (可选配半高挡板)



产品研发型号 R&D Model		全高2口万兆网卡/POE卡 CIB-2LAN-550A
系统 System	总线接口 BUS	PCI Express × 4, PCIe (Gen3)
	Golden Finger	×4
	网络芯片 Chipset	Intel® X550-AT2
	物理接口 Interface	2x RJ45, 且每一个网口都是独立的; 2 LED for PoE On/Off Mode
	速度 Speed	10Gbps/*5Gbps/*2.5Gbps/1Gbps/100Mbps (*Linux only)
	PoE兼容性 PoE	IEEE 802.3at-2009 (PoE+) compliant 30W@48VDC 功率输出 (每个接口), with PoE+ power on/off control
	支持 Support	巨型帧(9,500 byte)及链路聚合
	线缆要求 Cable	For 10GBASE-T: CAT 6a (100 meters) or CAT 6 (55 meters) For 5 Gbps NBASE-T: CAT 6 (100 meters) For 2.5 Gbps NBASE-T: CAT 5e(100 meters)
电源需求 Power	电源输入 Power Input	直接通过 PCIe slot, or 12V AT/ATX System power input; Maximal 3A @ 3.3V from PCI Express bus; Maximal 5.6A @ 12V directly from PCI Express bus
	电源功耗 Power Consumption	Max. 11W w/ 2 × 10 GbE 电源负载 Max. 60W w/ 2 × PoE 电源负载, protect by recoverable eFuse
可支持操作系统 OS	支持OS	Windows 7/Windows 10, Linux
防护 Protection	ESD	12KV (Air), 6KV (Contact)
	EFT	2 KV
	Surge	1 KV (Signal Lines)
	CS	10V
	RE	Class B
	CE	Class B
环境 Environmental	操作温度 OperatingTemp	0°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C
	操作湿度 Operating Relative Humidity	60°C 5%-95%RH
	存储湿度 Storage relative Humidity	60°C 95%RH, Non-condensing
机构 Mechanical	尺寸 Dimension	162.8 × 68.1mm, 标配全高挡板 (可选配半高挡板)

嵌入式工业计算机 可扩展式工业计算机

Industrial Embedded BOX PC Industrial Expandable Fanless Box PC

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功能完备、外壳坚固、机身灵巧，符合各国 EMC 防护测试标准。
嵌入式、可扩展式的结构，均采用一体化散热结构，帮助你应对更为严苛的运行环境，选用不同处理器以满足不同性能及丰富的 I/O 接口需求。部分机型可支持风扇选配，适配高代次处理器和显卡，兼容底层 AI 边缘计算性能，磅礴算力架构与你默契配合。

满足工业用例

针对于嵌入式自动化控制、机器视觉、3C 产品检测、机器人整合控制及 AI 加持 等用例，为满足客户更为丰富的扩展需求，我们推荐你使用可扩展式 BOX PC，至多可支持 4 槽 PCI 或 PCIE 扩展。

OS Recovery 功能

SPES TECH 全系列工控机均支持适配“远程开关”功能和特有的“OS Recovery”功能，能满足多样的使用场景，并大幅降低设备使用及维护成本。

XADL-AI BOX

2025



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- Intel® 12th/13th/14th Core™ / Pentium®/Celeron® (TDP up to 65W)
- LGA 1700, Q670 Chipset
- 2x DDR5, Max to 96GB
- 6x RJ45, 6x COM
- 1x VGA, HDMI and DP++ Display
- 1x Line-out, 1x Mic-in, 选配
- 8x USB 3.2 (Gen 2) , 2x USB 2.0 Type-A
- 16Bit Isolated DIO
- 3x SATA 3.0, 3x SATA Power
- 1x TPM 2.0 pin header
- 2x PCIE x16, 2x PCIE x4

DIO

16Bit Isolated DIO: 8 x DI, 8 x DO
Default DI 逻辑点输入, DO: NPN漏型输出
隔离等级: DI/DO: 2KVDC/AC
电压范围: 高电平: 18~36V, 低电平: 0~5V
驱动能力: ≤350mA
响应频率: ≤1KHz

电源

主板供电:
Fanless: 12V~24V, 7A~3.5A
Fanned: 12V~24V, 12A~6.5A
电压浮动: 最低12V-5%, 最高24V+20%

GPU供电:
DC-IN: 24V ±10%浮动



AI BOX 结构异常精密，卧式、立式均可安装。

- 整机采用 SGCC 环保钢材
- 多出风口搭配服务器级风扇
- 丰富 I/O 极强扩展性
- 高效显存与极低延迟

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利用最新第 14 代英特尔® 酷睿™ 处理器，为位于边缘的 AI 解决方案构建功能强大的多任务平台。

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13567mm²
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书本式 BOX PC 系列 Book-type BOX PC



· 多平台 · 多扩展

- CIS-HRLS-LW01
- Intel® 12&13th i3/i5/i7 Core™ CPU
- 2 x DDR5 4800/5600MHz SO-DIMM, Up to 64GB
- CIS-HRLS-LW01
- Intel®13th i3/i5/i7 Core™ CPU
- 2 x DDR5 4800/5600MHz SO-DIMM, Up to 64GB
- CIS-HADN-LW01
- Intel® Processor N-series, Alder Lake-N/Twin Lake/Amston Lake
- 1x DDR5 4800/5600MHz SO-DIMM, Up to 16GB

XADL

· 全能扩展，灵活部署。 · 通过扩展，适用于各种高算力自动化控制场景。

- 搭载 Intel® 12th/13th/14th 高性能 CPU 平台
- 结构精密，身形紧凑，I/O 丰富，专为嵌入式扩展而生
- 支持 12 ~ 24V 宽电压电源输入
- 基础支持 4x Intel® 千兆网口, 8x USB, 6x COM 自带隔离
- 支持 8in 8out DIO, DP+VGA+HDMI 显示 (Q670)
- 产品通过扩展卡能够支持 2 ~ 4 个插槽
- 最多扩展 PCIe x16, PCIe x4 或 PCIe 等接口
- 适用于机器视觉, 3C 检测, 机器人, AI 等高算力需求领域

EB.RXBX.2PCI: 2x PCI
EB.RXBX.2CEI: 1x PCI + 1x PCIE x16
EB.RXBX.2PEI: 1x PCIE x16 + 1x PCIE x4

两槽型

EB.RXBX.3PCI: 1x PCIE x16 + 1x PCIE x4 + 1x PCI
EB.RXBX.3PEI: 1x PCIE x16 + 1x PCIE x4 + 1x PCIE x1
EB.RXBX.3CEI: 2x PCI + 1x PCIE x16

三槽型

EB.RXBX.4CEI: 2x PCI + 1x PCIE x16 + 1x PCIE x4

四槽型

可扩展卡

扫码了解更多

COM:
6x COM 海岸线, 其中: COM1-2 (RS232/422/485), 通过 BIOS 调整 TX/RX 隔离等级: 2KVDC/AC; COM3-6 (RS232 TX RX GND)

尺寸:
229 x 202 x 82 mm 基础型
229 x 202 x 134 mm 两个扩展槽
229 x 202 x 156 mm 三个扩展槽
229 x 202 x 174 mm 四个扩展槽



基础型



两槽型



三槽型



四槽型



产品研发型号 R&D Model		CIS-PJ19-LW01	CIS-PELK-HT01
系统 System	处理器 Processor	Intel® Bay Trail Celeron® J1900 processor (2.00 GHz)	Intel® Elkhart Lake N6210 (1.20 GHz)
	内存 Memory	1 × DDR3L 1333/1600MHz SO-DIMM, up to 8GB	1 × DDR4 2666/3200MHz SO-DIMM, Up to 32GB
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
外部 I/O External I/O	网口 Ethernet	2 × RJ45 Controller Intel® I210-AT GbE (10/100/1000 Mbps)	2 × RJ45 Controller Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × VGA: max resolution up to 1920x1080@60Hz 1 × HDMI: max resolution up to 1920x1200@60Hz	1 × HDMI: max resolution up to 4K@60Hz
	音频 Audio	1 × Audio (Line-out&Mic-in 2 in 1) 选配, 默认不上件	/
	串口 COM	2 × COM (RS232/422/485)	/
	USB	1 × USB 3.2 (Gen1), 5 × USB 2.0	1 × USB 3.2 (Gen1) 1 × USB 2.0
	按钮 Button	1 × Power button w/LED	1 × Power button w/LED
	OS Recovery	1 × OS Recovery	1 × OS Recovery
	指示灯 LED	1 × HDD LED 1 × ALARM LED (侦测CPU核心温度, 一旦超过了既有设定温度后闪烁)	1 × HDD LED; 1 × 5G LED
	远程开关 Remote ON-OFF	1 × Remote ON-OFF	/
	内部接口 Internal I/O	扩展接口 Expansion Slot	2 × Full-size Mini-PCIe Slot 1 × M.2 2242 slot (SATA3.0) 1 × M.2 2230 slot for Wifi module
COM		2 × COM (RS232)	1 × COM (RS232) Pin Header
CAN		/	/
USB		2 × USB 2.0 pin header	2 × USB 2.0 pin header
SATA		1 × SATA 3.0 + SATA power	/
GPIO		1 × 8bit programmable GPIO	1 × 8bit programmable GPIO
SIM		1 × SIM Card Slot	1 × SIM Card Slot
ATX/AT jumper		1 × ATX/AT jumper	/
UPS		/	/
电源 Power		电源输入 Power Input	12-24V DC
	接口 Interface	凤凰接头 2P	
环境 Environmental	操作温度 OperatingTemp	-20°C ~ 60°C (SSD) , 0°C ~ 40°C (HDD)	-20°C ~ 60°C (SSD)
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	标配: 桌面式 (Desk-Mount), 壁挂式 (Wall-Mount) 可选: 导轨式 (DIN-Rail)	导轨式 (DIN-Rail)
	尺寸 Dimension	164.3 × 130.1 × 38.4mm	130 × 105 × 38mm



产品研发型号 R&D Model		CIS-PELK-LW01	CIS-PELK-LW02
系统 System	处理器 Processor	Intel® Celeron® Processor J Series Intel® Elkhart Lake J6412 (2.00 GHz) Intel® Elkhart Lake J6413 (1.80 GHz)	
	内存 Memory	1 × DDR4 2666/3200MHz SO-DIMM, Up to 32GB	
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
外部 I/O External I/O	网口 Ethernet	4 × RJ45 Controller Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × HDMI: max resolution up to 4096x2304@30Hz 1 × DP++: max resolution up to 4096x2304@60Hz	
	音频 Audio	/	
	串口 COM	2 × COM (RS232/422/485)	
	USB	4 × USB 3.2 (Gen1)	
	按钮 Button	1 × Power button w/LED	
	OS Recovery	1 × OS Recovery	
	指示灯 LED	1 × HDD LED; 1 × Power LED	
	远程开关 Remote ON-OFF	/	
	内部接口 Internal I/O	扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot (USB/PCIe) 1 × M.2 2242 slot (SATA 3.0) 1 × M.2 2230 slot for Wifi module
COM		2 × COM (RS232)	
CAN		2 × CAN2.0b	
USB		2 × USB 2.0 pin header	
SATA		1 × SATA 3.0 + SATA power	
GPIO		1 × 8bit programmable GPIO	
SIM		1 × SIM Card Slot	
ATX/AT jumper		1 × ATX/AT jumper	
UPS		/	
电源 Power		电源输入 Power Input	12-24V DC
	接口 Interface	凤凰接头 2P	
环境 Environmental	操作温度 OperatingTemp	-20°C ~ 60°C (SSD)	-20°C ~ 50°C (SSD, with 0.7m/s Air flow)
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD)	50°C 95%RH (SSD)
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	标配: 桌面式 (Desk-Mount), 壁挂式 (Wall-Mount) 可选: 导轨式 (DIN-Rail)	
	尺寸 Dimension	标准款: 204 × 120 × 72mm	超薄款: 192 × 111 × 45 mm



产品研发型号 R&D Model	CIS-PTLU-LW01	CIS-PMTL-LW01		
系统 System	处理器 Processor	Intel® 11th i3/i5/i7 Celeron® Processor (Tiger lake UP3) i3-1115G4/i5-1135G7/i7-1165G7	Intel® Core™ Ultra Processor Serials 1/2 Ultra 5 125U,125H	
	内存 Memory	1 × DDR4 3200MHz SO-DIMM, Up to 32 GB	2 × DDR5 5600 MHz SO-DIMM, Up to 96GB	
	BIOS	AMI 128Mbit SPI Flash	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics		
	算力 NPU	/	10 Tops INT8	
	操作系统 OS	Windows 10 64bit, Linux	Windows 10/11, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
	外部 I/O External I/O	网口 Ethernet	4 × RJ45 3 × RJ45 Intel® I210-AT GbE (10/100/1000 Mbps) 1 × RJ45 Intel® I219-V GbE (10/100/1000 Mbps)	4 × RJ45: LAN1: Intel® I226-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I210-AT GbE (10/100/1000 Mbps)
显示 Display		1 × HDMI: max resolution up to 4096x2304@30Hz 1 × DP++: max resolution up to 4096x2304@60Hz	1 × HDMI: Up to 4096 x 2304@30Hz 1 × DP++: Up to 4096 x 2304@60Hz 1 × USB-C: Supports DP++, Up to 5120 x 3200@60Hz	
音频 Audio		/		
串口 COM		2 × COM (RS232/422/485)	1 × COM (RS232/422/485 Default RS232) 1 × COM (RS232)	
USB		4 × USB 3.2 (Gen2)	3 × USB3.2 (Gen2) 1 × USB-C Supports USB3.2 (Gen2)	
按钮 Button		1 × Power button w/LED	1 × Power button	
OS Recovery		1 × OS Recovery		
指示灯 LED		1 × HDD LED; 1 × Power LED		
远程开关 Remote ON-OFF		/		
内部接口 Internal I/O		扩展接口 Expansion Slot	2 × Full-size Mini-PCIe Slot 1 × M.2 2242 slot (SATA3.0) 1 × M.2 2230 slot for Wifi module	1 × M.2 2280 M Key (SATA 3.0 or NVMe x4) 1 × M.2 2230 E Key (PCIe x1+USB 2.0) 1 × M.2 3052 B Key(PCIe x1+USB 2.0 or USB 3.1)
		COM	2 × COM (RS232)	2 × COM (RS232) COM3&4 TX RX GND
		CAN	2 × CAN2.0b	/
	USB	2 × USB 2.0 pin header		
	SATA	1 × SATA 3.0 + SATA power		
	GPIO	1x 8bit GPIO, 4in/4out (如果外部接口选配GPIO, 则内部无此项)	1 × 8bit programmable GPIO	
	SIM	1 × SIM Card Slot		
	ATX/AT jumper	1 × ATX/AT jumper		
	UPS	/	1 × UPS 外接模块接口 (可选)	
	电源 Power	电源输入 Power Input	12~24V DC	
接口 Interface		凤凰接头 2P		
环境 Environmental	操作温度 OperatingTemp	-20°C ~ 50°C (SSD)	15W 无风扇/28W~45W 有风扇: -10°C~40°C	
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)	60°C 95%RH (SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy		
	安装方式 Mounting	标配: 桌面式 (Desk-Mount), 壁挂式 (Wall-Mount) 可选: 导轨式 (DIN-Rail)	导轨式 (DIN-Rail)	
	尺寸 Dimension	204 × 120 × 72mm	含桌面式支架: 175 × 115 × 65mm 不含桌面式支架: 160 × 115 × 55mm	



产品研发型号 R&D Model	CIS-PADN-LW01	CIS-PADN-LW02		
系统 System	处理器 Processor	Intel® Processor N-series; N97 processor 2.0 GHz, up to 3.6GHz; N95 processor 1.7 GHz, up to 3.4GHz;		
	内存 Memory	1 × DDR4 3200MHz SO-DIMM, Up to 32GB	1 × DDR5 4800MHz SO-DIMM, Up to 32GB	
	BIOS	AMI UEFI BIOS		
	图形 Graphics	Intel® UHD graphics integrated		
	操作系统 OS	Windows10/11, Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
	外部 I/O External I/O	网口 Ethernet	3 × RJ45 LAN1-2: Intel® I210-AT GbE (10/100/1000 Mbps) LAN3: Intel® I226-AT GbE (10/100/1000/2500 Mbps)	3 × RJ45 LAN1: Intel® I226-V GbE (10/100/1000/2500 Mbps) LAN2&3: Intel® I210-AT GbE (10/100/1000 Mbps)
显示 Display		1 × DP 1.4, resolution up to 4096 × 2160@60Hz 1 × HDMI, resolution to 4096 × 2160@30Hz		
音频 Audio		/		
串口 COM		2 × COM (RS232/485,隔离电压:3KV)		
USB		2 × USB 3.2 (10Gbps) 2 × USB 2.0 (480Mbps)	3 × USB 3.2 (10Gbps) 1 × USB 2.0 (480Mbps)	
按钮 Button		1 × Power button w/LED		
OS Recovery		1 × OS Recovery		
指示灯 LED		1 × HDD LED		
远程开关 Remote ON-OFF		/		
内部接口 Internal I/O		扩展接口 Expansion Slot	1 × Full-size Mini-PCIe (PCIe × 1 & USB 2.0) for 4G/5G/LAN/COM 1 × M.2 2280 M Key for SSD (SATA 3.0) 1 × M.2 2230 E Key (PCIe × 1+USB 2.0)	
		COM	2 × COM RS232 2 × TTL (2*5Pin预留)	2 × COM RS232
		CAN	/	2 × CAN 2.0b,与USB2.0 pin header colay ,Default 不上件
	USB	2 × USB 2.0 pin header	2 × USB 2.0, 其中一组与can colay, Default USB2.0	
	SATA	1 × SATA 3.0 + SATA power		
	GPIO	1 × 8bit programmable GPIO		
	SIM	1 × Standard SIM Card Slot		
	ATX/AT jumper	1 × ATX/AT jumper		
	UPS	1 × UPS 外接模块接口 (可选)		
	电源 Power	电源输入 Power Input	12~24V DC	
接口 Interface		凤凰接头 2P		
环境 Environmental	操作温度 OperatingTemp	-20°C ~ 50°C		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD)		
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy		
	安装方式 Mounting	标配:桌面式 (Desk-Mount), 壁挂式 (Wall-Mount) 可选:导轨式 (DIN-Rail)		
	尺寸 Dimension	含桌面式支架:189.3 × 112 × 54.7mm, 3.5寸 不含桌面式支架:155.7 × 112 × 49.5mm, 3.5寸		



产品研发型号 R&D Model	CIS-RJ19-LW01	CIS-RTLU-LW01		
系统 System	处理器 Processor	Intel® Bay Trail Celeron® J1900 processor(2.00 GHz)	Intel® 11th i7/i5/i3/Celeron® Processor(Tiger lake UP3) i3-1115G4/i5-1135G7/i5-1155G7/i7-1165G7/i7-1195G7	
	内存 Memory	1 × DDR3L 1333/1600MHz SO-DIMM , up to 8GB	1 × DDR4 3200 MHz SO-DIMM, Up to 32 GB	
	BIOS	AMI 128Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows7 32/64bit, Windows10 64bit, Linux	Windows 10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
外部 I/O External I/O	网口 Ethernet	2 × RJ45; 2 × LAN Intel® I210-AT GbE (10/100/1000 Mbps)	4 × RJ45; 1 × LAN Intel® I226-V GbE (10/100/1000 Mbps) , 支持 TSN 3 × LAN Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × VGA: max resolution up to 1920 x 1200@60Hz 1 × HDMI: max resolution up to 2560 x 1600@60Hz	1 × HDMI: max resolution up to 4096x2304@60Hz 1 × VGA: max resolution up to 1920 x 1200@60Hz	
	音频 Audio	1 × Audio (Line-out&Mic-in 2 in 1)选配, 默认不上件		
	串口 COM	8 × COM (COM 1 ~ 4: RS232/422/485auto-flow; optional by BIOS, COM5 ~ 6: RS232, COM7 ~ 8: RS485)		
	USB	1 × USB 3.2 (Gen1), 5 × USB 2.0	2 × USB 3.2 (Gen2), 2 × USB 3.2 (Gen1) 2 × USB 2.0	
	GPIO	1 × 8 bit programmable GPIO		
	按钮 Button	1 × Power button w/LED		
	OS Recovery	1 × OS Recovery		
	指示灯 LED	1 × HDD LED 1 × ALARM LED (侦测CPU核心温度, 一旦超过了既有设定温度后闪烁)		
	远程开关 Remote ON-OFF	1 × Remote ON-OFF		
	内部接口 Internal I/O	扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot (USB/PCIe) 1 × Full-size Mini-PCIe Slot (USB) 1 × M.2 2280 slot (SATA3.0) 1 × M.2 2230 slot for Wifi module	1 × Full-size Mini-PCIe Slot (USB/PCIe) 1 × M.2 3052 slot for 5G 模块 1 × M.2 2280 slot (SATA 3.0) 1 × M.2 2230 slot for Wifi module;
		USB	2 × USB2.0 Pin Header (2 × 5Pin)	
SATA		1 × SATA 3.0 + SATA power		
GPIO		/	1 × 8bit programmable GPIO	
SIM		1 × SIM Card Slot		
电源 Power	电源输入 Power Input	12~24V DC		
	接口 Interface	凤凰接头 2P		
环境 Environmental	操作温度 OperatingTemp	-20°C ~ 60°C (SSD) , 0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD)		
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy		
	安装方式 Mounting	桌面式 (Desk-Mount) , 壁挂式 (Wall-Mount)		
	尺寸 Dimension	245 × 153 × 58 mm		



产品研发型号 R&D Model	CIS-RELK-LW01	CIS-RJTN-LW01	
系统 System	处理器 Processor	Intel® Celeron® Processor J Series Intel® Elkhart Lake J6412 (2.00 GHz) Intel® Elkhart Lake J6413 (1.80 GHz)	Nvidia Jetson Orin nano/NX 核心板 CPU: 6-core Arm Cortex-A78AE v8.2 64-bit CPU
	内存 Memory	1 × DDR4 3200 MHz SO-DIMM, Up to 32 GB	On board: nano: LPDDR5x 4GB/8GB NX: LPDDR5x 8GB/16GB
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	Jetson Orin Nano: 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores Jetson Orin NX:1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
	算力 Tops	/	最高算力(Super 模式): Orin NX 16G:157 Tops,INT8 Orin NX 8G: 117 Tops,INT8 Nano 8G:67 Tops,INT8 Nano 4G:34 Tops,INT8
	操作系统 OS	Windows 10 64bit, Linux	Linux: Ubuntu 22.04 : JetPack 6.2.1; CUDA 12.6 Ubuntu 20.04 : JetPack 5.1.5; CUDA 11.4
看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
外部 I/O External I/O	网口 Ethernet	4 × RJ45 1 × LANIntel® I226-V GbE (10/100/1000 Mbps) , 支持 TSN 3 × LAN Intel® I210-AT GbE (10/100/1000 Mbps)	5 × RJ45, 2 × LAN,10/100/1000 Mbps, (Default); (核心板 Realtek 8111H x1, 底板 Intel I210 × 1) 3 × LAN,10/100/1000 Mbps, (选配); (底板底板 3 × Intel I210)
	显示 Display	1 × HDMI:max resolution up to 4096x2304@60Hz 1 × DP++: max resolution up to 4096 x 2304@60Hz	1 × HDMI:max resolution up to 4096x2304@30Hz
	音频 Audio	1 × Audio (Line-out&Mic-in 2 in 1) 选配, 默认不上件	
	串口 COM	6 × COM (COM 1 ~ 4: RS232/422/485auto-flow; optional by BIOS, COM5 ~ 6: RS232)	3 × COM (2xRS232,1 × 485)与CAN同端子 14pin D2.54 端子
	USB	4 × USB 3.2 (Gen1), 2 × USB 2.0	4 × USB 3.0 2 × USB 2.0 1 × USB MICRO B(仅用于OTG)
	GPIO	2 × 8bit programmable GPIO, DB9接口	
	按钮 Button	1 × Power button w/LED	
	系统还原 OS Recovery	1 × OS Recovery button	
	指示灯 LED	1 × HDD LED 1 × ALARM LED (侦测CPU核心温度, 一旦超过了既有设定温度后闪烁)	1 × HDD LED; 1 × 4G/5G LED 1 × wifi LED
	远程开关 Remote ON-OFF	1 × Remote ON-OFF	
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot (USB/PCIe) 1 × M.2 3052 slot for 5G 模块 1 × M.2 2280 slot (SATA 3.0) 1 × M.2 2230 slot for Wifi module	1 × Full-size Mini-PCIe Slot (USB/PCIe) 1 × M.2 3052 Key B, 支持扩展 4G/5G 模块 1 × M.2 2230 Key E, 支持扩展 WiFi 5/WiFi 6 模块 1 × M.2 2280 (PCIe x4), 支持扩展 NVMe SSD
	USB	2 × USB2.0 Pin Header (2x5Pin)	
	SATA	1 × SATA 3.0 + SATA power	
	GPIO	/	/
	SIM	1 × SIM Card Slot	
电源 Power	电源输入 Power Input	12~24V DC	
	接口 Interface	凤凰接头 2P	
环境 Environmental	操作温度 OperatingTemp	-20°C ~ 60°C (SSD) , 0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	桌面式 (Desk-Mount) , 壁挂式 (Wall-Mount)	
	尺寸 Dimension	245 × 153 × 58 mm	



产品研发型号 R&D Model		CIS-XSKL-LW01	
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Core™ /Pentium®/Celeron® LGA 1151 Socket Processors with TDP up to 65W	
	芯片组 Chipset	Intel® Q170 Chipset	
	内存 Memory	Dual Channel (Non-ECC) DDR4 2133/2400/2666 MHz 260-pin DIMM × 2, Max to 32GB (16GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	支持Windows7 32/64bit, Windows10 64bit, Linux(只有采用Intel®第六代Skylake平台时支持Window7操作系统)	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1~255 sec/min	
	外部 I/O External I/O	网卡 Ethernet	4 × RJ45 1 × RJ45 Intel® I219-LM GbE (10/100/1000 Mbps) 3 × RJ45 Intel® I210-AT GbE (10/100/1000 Mbps)
显示 Display		HDMI, DP++, VGA, 支持异步三显	
音频 Audio		1 × Line-out, 1 × MIC, 选配	
串口 COM		4 × COM 海岸线, 其中: COM1~2 (RS232/422/485), 通过BIOS调整, TX/RX 做3KV隔离线路; COM3~4 (RS232/422/485), 通过BIOS调整	
USB		6 × USB 3.0, 2 × USB 2.0	
GPIO		1 × 16bit programmable GPIO	
按钮 Button		1 × Power button w/LED	
OS Recovery		1 × OS Recovery button	
指示灯 LED		1 × HDD LED, 1 × COM1 TX1, 1 × COM1 RX1, 1 × COM2 TX2, 1 × COM2 RX2, 1 × Wi-fi, 1 × 4G, 1 × 用户自定义可侦测信号	
远程开关 Remote ON-OFF		1 × Remote ON-OFF	
内部接口 Internal I/O		扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot for 4G module (PCIe + USB) 1 × M.2 2280 slot for SSD (SATA3.0) 1 × M.2 2230 slot for Wifi module 1 × M.2 3042/3052 for 5G module
		USB	1 × USB2.0 type A 接头
		COM	2 × RS232 pin header
	SATA	2 × SATA 3.0, 2 × SATA power	
	FAN	1 × CPU Smart Fan, 2 × System Smart Fan, (标准款无Smart Fan, 2槽以上标配)	
	SIM	1 × Standard SIM Card Slot, support 4G/5G	
	TPM	1 × TPM 2.0 pin header	
	扩展插槽	1 × 异形扩展槽, 是由PCIex16+PCIex8组成, 用来扩展各种扩展插槽	
可扩展卡 Expansion Card	两槽扩展卡	EB.RXBX.2PCI: 2 × PCI; EB.RXBX.2CE1: 1 × PCI + 1 × PCIe16; EB.RXBX.2PE1: 1 × PCIe16 + 1 × PCIe4	
	三槽扩展卡	EB.RXBX.3PCI: 1 × PCIe16 + 1 × PCIe4 + 1 × PCI; EB.RXBX.3PE1: 1 × PCIe16 + 1 × PCIe4 + 1 × PCIe1; EB.RXBX.3CE1: 2 × PCI + 1 × PCIe16	
	四槽扩展卡	EB.RXBX.4CE1: 2 × PCI + 1 × PCIe16 + 1 × PCIe4	
	电源 Power	19~24V DC	
环境 Environmental	接口 Interface	4Pin Phenix 带锁附接口	
	操作温度 OperatingTemp	45/65W CPU, -10°C ~ 40°C (SSD) 35W CPU, -10°C ~ 50°C (SSD) 0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	50°C 95%RH(35W CPU SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	桌面式 (Desk-Mount), 壁挂式 (Wall-Mount)	
	尺寸 Dimension	229 × 202 × 82 mm 基础型, 229 × 202 × 34 mm 两个扩展槽 229 × 202 × 156 mm 三个扩展槽, 229 × 202 × 174 mm 四个扩展槽	



产品研发型号 R&D Model		CIS-XADL-LW01	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™ /Pentium®/Celeron®LGA 1700 Socket Processors with TDP up to 65W	
	芯片组 Chipset	Intel® Q670 Chipset	
	内存 Memory	2 × DDR5 4800/5600Mhz SO-DIMM, Max Up to 96GB	
	BIOS	AMI 256Mbit SPI Flash	
	操作系统 OS	Windows10/11 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1~255 sec/min	
	外部 I/O External I/O	网卡 Ethernet	6 × RJ45 1 × RJ45 Intel® I219-V GbE (10/100/1000 Mbps) 5 × RJ45 Intel® I210-AT GbE (10/100/1000 Mbps)
显示 Display		1 × DP++ max resolution up to 4096 × 2304@60Hz; 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz; Support 三屏异显	
音频 Audio		1 × Line-out; 1 × Mic-in, 选配, 默认不上件	
串口 COM		6 × COM 海岸线, 其中: COM1 ~ 2 (RS232/422/485), 通过BIOS调整, TX/RX 隔离等级: 2KVDC/AC; COM3 ~ 6 (RS232 TX RX GND)	
USB		8 × USB3.2 Gen2	
DIO		16Bit Isolated DIO; 8 × DI, 8 × DO; Default DI 湿节点输入, DO: NPN漏型输出; 隔离等级: DI/DO: 2KVDC/AC; 电压范围: 高电平: 18~36V, 低电平: 0~5V; 驱动能力: ≤350mA; 响应频率: ≤1KHz;	
按钮 Button		1 × Power button w/LED; 1 × Clear CMOS Button	
OS Recovery		1 × OS Recovery Button	
指示灯 LED		1 × HDD LED, 1 × COM1 TX1 LED, 1 × COM1 RX1 LED, 1 × COM2 TX2 LED, 1 × COM2 RX2 LED, 1 × 用户自定义 LED	
远程开关 Remote ON-OFF		1 × Remote ON-OFF	
内部接口 Internal I/O		扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot for 4G module (PCIe + USB); 1 × M.2 2280 slot for SSD (SATA3.0+Nvme); 1 × M.2 2230 slot for Wifi module Support CNVi; 1 × M.2 3042/3052 for 5G module; 双nvme 支持raid0,1
		USB	2 × USB2.0 Type A
		SATA	3 × SATA 3.0, 3 × SATA Power, 选配支持 Raid 0, 1, 5
	FAN	1 × CPU Smart Fan; 2 × System Smart Fan, (标准款无Smart Fan, 2槽以上标配)	
	SIM	1 × 标准 SIM Card Slot, support 4G/5G	
	Switch	1 × AT /ATX Switch; 1 × USB Power S0/S5 Switch	
	TPM	1 × TPM 2.0 pin header	
	扩展插槽	1 × 异形扩展槽, 是由 PCIe16+PCIe x8 组成, 用来扩展各种扩展插槽	
	可扩展卡 Expansion Card	两槽扩展卡: 2槽: EB.RXBX.2PCI: 2 × PCI; EB.RXBX.2CE1: 1 × PCI + 1 × PCIe × 16; EB.RXBX.2PE1: 1 × PCIe × 16 + 1 × PCIe × 4; 三槽扩展卡: 3槽: EB.RXBX.3PCI: 1 × PCIe × 16 + 1 × PCIe × 4 + 1 × PCI; EB.RXBX.3PE1: 1 × PCIe × 16 + 1 × PCIe × 4 + 1 × PCIe × 1; EB.RXBX.3CE1: 2 × PCI + 1 × PCIe × 16 四槽扩展卡: 4槽: EB.RXBX.4CE1: 2 × PCI + 1 × PCIe16 + 1 × PCIe × 4	
	电源 Power	Fanless: 12V~24V, 7A~3.5A; Faned: 12V~24V, 12A~6.5A; 电压浮动: 最低12V~5%, 最高24V +20%	
环境 Environmental	接口 Interface	4Pin Phenix 带锁附接口	
	操作温度 OperatingTemp	Fanless Operating Temp: 35W CPU -10°C ~ 45°C (SSD), With 0.7 m/s air flow Fan Operating Temp: 35W CPU -10°C ~ 60°C (SSD), With 0.7 m/s air flow 35/65W CPU, -10°C ~ 55°C (SSD), With 0.7 m/s air flow	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	50°C 95%RH (35W CPU SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	桌面式 (Desk-Mount), 壁挂式 (Wall-Mount)	
	尺寸 Dimension	229 × 202 × 82 mm 基础型; 229 × 202 × 134 mm 两个扩展槽; 229 × 202 × 156 mm 三个扩展槽; 229 × 202 × 174 mm 四个扩展槽	



产品研发型号 R&D Model		CIS-XADL-LW01-H	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™ /Pentium®/Celeron® LGA 1700 Socket Processors with TDP up to 65W	
	芯片组 Chipset	Intel® Q670 Chipset	
	内存 Memory	2 × DDR5 4800/5600Mhz SO-DIMM, Max Up to 96GB	
	BIOS	AMI 256Mbit SPI Flash	
	操作系统 OS	Windows10/11 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
	外部 I/O External I/O	网口 Ethernet	6 × RJ45 1 × RJ45 Intel® I219-V GbE (10/100/1000 Mbps) 5 × RJ45 Intel® I210-AT GbE (10/100/1000 Mbps)
显示 Display		1 × DP++ max resolution up to 4096 × 2304@60Hz; 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz; Support 三屏异显	
音频 Audio		1 × Line-out, 1 × Mic-in, 选配, 默认不上件	
串口 COM		6 × COM: COM1 ~ 2 (RS232/422/485), TX/RX 隔离等级: 2KVDC/AC COM3 ~ 6 (RS232 TX RX GND)	
USB		8 × USB3.2 Gen2	
DIO		116Bit Isolated DIO; 8 × DI, 8 × DO; Default DI 湿节点输入, DO: NPN漏型输出; 隔离等级: DI/DO: 2KVDC/AC; 电压范围: 高电平: 18~36V, 低电平: 0~5V; 驱动能力: ≤350mA; 响应频率: ≤1KHz	
按钮 Button		1 × Power button w/LED; 1 × Clear CMOS Button; 1 × OS Recovery Button	
OS Recovery		1 × OS Recovery	
指示灯 LED		1 × HDD LED, 1 × COM1 TX1 LED, 1 × COM1 RX1 LED, 1 × COM2 TX2 LED, 1 × COM2 RX2 LED, 1 × 用户自定义 LED	
远程开关 Remote ON-OFF		1 × Remote ON-OFF	
内部接口 Internal I/O		扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot for 4G module (PCIe + USB); 1 × M.2 2280 slot for SSD (SATA3.0+Nvme); 1 × M.2 2280 slot for SSD (Only Nvme) Default; 1 × M.2 2230 slot for Wifi module Support CNVi; 1 × M.2 3042/3052 for 5G module; 双nvme 支持raid0,1
		USB	2 × USB2.0 Type A
		SATA	3 × SATA 3.0, 3 × SATA Power, 选配支持 Raid 0, 1, 5
	FAN	1 × CPU Smart Fan 2 × System Smart Fan	
	SIM	1 × 标准 SIM Card Slot, support 4G/5G	
	Switch	1 AT/ATX Switch,Default AT 模式; 1 × USB Power S0/S5 Switch,Default S0 模式	
	TPM	1 × TPM 2.0 pin header	
	扩展插槽	1 × 异形扩展槽, 是由 PCIe16+PCIe × 8 组成, 用来扩展各种扩展插槽	
可扩展卡 Expansion Card	四槽扩展卡	EB.RXBX.4PE1: 2 × PCIeX4 + 2 × PCIe16 (1 × 16 or 2 × 8)	
电源 Power	电源输入 Power Input	主板供电: Fanless: 12V~24V, 7A~3.5A; With Fan: 12V~24V, 12A~6.5A; 电压浮动: 最低12V-5%, 最高24V +20% GPU供电: DC-IN: 24V ±10%浮动; RTX 4080S 建议使用至少24V 25A的电源,显卡瞬间功率可达到500W	
	接口 Interface	4Pin Phenix 带锁附接口	
环境 Environmental	操作温度 OperatingTemp	35W,CPU 单张450W GPU With 0.7 m/s air flow -10°C ~ 45°C 65W,CPU 单张450W GPU With 0.7 m/s air flow -10°C ~ 40°C	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	50°C 95%RH (35W CPU SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	桌面式 (Desk-Mount), 壁挂式 (Wall-Mount)	
	尺寸 Dimension	390 × 296 × 202 mm	



产品研发型号 R&D Model		CIS-XJTN-LW01	
系统 System	处理器 Processor	Nvidia Jetson Orin nano/NX 核心板; CPU: 6-core Arm Cortex-A78AE v8.2 64-bit CPU	
	内存 Memory	On board : nano: LPDDR5x 4GB/8GB; NX: LPDDR5x 8GB/16GB	
	BIOS	/	
	图形 Graphics	Jetson Orin Nano: 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores Jetson Orin NX: 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	
	算力 Tops	最高算力 (Super 模式) : Orin NX 16G:157 Tops,INT8 Orin NX 8G: 117 Tops,INT8 Nano 8G:67 Tops,INT8 Nano 4G:34 Tops,INT8	
	操作系统 OS	Ubuntu 22.04 + JetPack 6.0 (支持 SUPER)	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
外部 I/O External I/O	网口 Ethernet	5 × RJ45, 10/100/1000 Mbps, (1xRealtek 8111H, 4xi210 其中2个可colay为 2xi226)	
	显示 Display	1 × HDMI 1.4, 支持 4K 30 显示输出	
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	
	串口 COM	3 × COM(2 × RS232, 1 × 485/422), 2KV隔离	
	CAN	1 × CAN 2.0b	
	USB	4 × USB 3.0, 2 × USB 2.0, 1 × USB Type C (OTG)	
	GPIO	1 × 8bit programmable GPIO, DB15 (4路输入/4路输出)	
	按钮 Button	1 × Power button w/LED	
	OS Recovery	1 × OS Recovery Button	
	指示灯 LED	1 × HDD LED, 1 × 5G LED, 1 × WiFi LED	
	远程开关 Remote ON-OFF	1 × Remote ON-OFF	
	内部接口 Internal I/O	扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot(USB/PCIe) 1 × M.2 3052 Key B, 支持扩展 4G/5G 模块 1 × M.2 2230 Key E, 支持扩展 WiFi 5/Wifi 6 模块 1 × M.2 2280 (PCIe × 2), 支持扩展 NVMe SSD
		TPM	1 × TPM 2.0 pin header 可选
扩展插槽		1 × 异形扩展槽, 是由 PCIe16+PCIe × 8 接口组成	
可扩展卡 Expansion Card	两槽扩展卡	信号: 1 × PCIe × 4 Slot GEN3; 1 × PCIe × 2 Slot GEN2 EB.RXBX.2CE1: 1 × PCI + 1 × PCIe16 EB.RXBX.2PE1: 1 × PCIe16 + 1 × PCIe4	
电源 Power	电源输入 Power Input	9~36V DC in, ±10%电压浮动	
	接口 Interface	2Pin Phenix 带锁附接口	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 60°C (SSD), With 0.7 m/s air flow	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD) 非凝露Non-condensing	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	桌面式 (Desk-Mount), 壁挂式 (Wall-Mount)	
	尺寸 Dimension	229 × 202 × 82 mm 标准款; 229 × 202 × 134 mm 2槽扩展款	



产品研发型号 R&D Model		CIS-HRLS-LW01
系统 System	处理器 Processor	Intel® 12&13th i3/i5/i7 Core™ CPU i3-12100/i5-12400/i7-12700/i3-13100/i5-13400/i7-13700
	内存 Memory	2 × DDR5 4800/5600MHz SO-DIMM, Up to 64GB
	操作系统 OS	Win10-64bit, Win11-64bit, Linux
	看门狗定时器 Watchdog Timer	Programmable 255 levels timer interval, from 1-255 sec/min
外部 I/O External I/O	网口 Ethernet	4 × RJ45 Intel® i210-AT GbE (10/100/1000 Mbps) 可Option支持PoE功能
	显示 Video	1 × HDMI: max resolution up to 4K@60Hz
	USB	4 × USB3.1 Gen1
	串口 COM	2 × COM: 1 × RS485+1 × RS232, 其中TX/RX 做3KV隔离, 2 × 3 Phoenix端子
	DIO	8Bit Isolated DIO: 4 × DI, 4 × DO; Default DI 湿节点输入, DO: NPN漏型输出; 隔离等级: DI/DO: 2KVDC/AC 电压范围: 高电平: 18~36V, 低电平: 0~5V 驱动能力: ≤350mA; 响应频率: ≤1KHz;
	Micro-SD	1 × Micro-SD
	指示灯 LED	1 × HDD LED 1 × Power LED
	Remote	1 × 远程开关, 信号隔离, 需要外部接15V~30V
	OS recovery	1 × OS recovery
	内部接口 Internal I/O	扩展接口 Expansion Slot
RTC		1 × RTC Socket
SIM		1 × SIM Card Slot
SYS FAN		1 × 4pin SYS FAN
POE		1 × POE 模块(选配) for 基础款 4网卡
可扩展卡 Expansion Card	IB.FLAN.NB01	1. LAN+DIO+串口+CAN 默认 2. LAN+DIO 选配: 2 × RJ45+16Bit Isolated DIO+4 × RS485+2 × RS232(选配)+2 × CAN 2.0b(选配)
	IB.FCOM.NB01	DIO+串口+CAN+M.2: 2 × RJ45+16Bit Isolated DIO 4 × RS485 2 × RS232 2 × CAN 2.0b 1 × M.2 2280 slot for SSD(Only Nvme)
	IB.FLSC.NB01	4x PWM光源控制24V输出, 每个通道最大电流1A; 最高支持总功率40W
电源 Power	电源输入 Power Input	24V DC(-20%~+20%)
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C
	湿度 Relative Humidity	5% ~ 95%, 非凝结状态 Non-condensing
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy
	安装方式 Mounting	桌面式 (Desk-Mount), 书本式 (Wall-Mount)
	尺寸 Dimension	225 × 160 × 70mm



产品研发型号 R&D Model		CIS-HRLU-LW01
系统 System	处理器 Processor	Intel®13th i3/i5/i7 Core™ CPU; i7-1355U/i5-1335U/i3-1315U; i5-13420H/i7-13620H/i5-12450H
	内存 Memory	2 × DDR5 4800/5600MHz SO-DIMM, Up to 64GB
	操作系统 OS	Win10-64bit, Win11-64bit, Linux
	看门狗定时器 Watchdog Timer	Programmable 255 levels timer interval, from 1-255 sec/min
外部 I/O External I/O	网口 Ethernet	4 × RJ45 Intel® I210-AT GbE (10/100/1000 Mbps) 可Option支持PoE功能
	显示 Display	1 × HDMI: max resolution up to 4K@60Hz
	USB	4 × USB3.1 Gen1
	串口 COM	2 × COM: 1 × RS485+1 × RS232, 其中TX/RX 做3KV隔离, 2 × 3 Phoenix端子
	DIO	8Bit Isolated DIO: 4 × DI, 4 × DO; Default DI 湿节点输入, DO: NPN漏型输出; 隔离等级: DI/DO: 2KVDC/AC 电压范围: 高电平: 18~36V, 低电平: 0~5V 驱动能力: ≤350mA; 响应频率: ≤1KHz;
	Micro-SD	1 × Micro-SD
	指示灯 LED	1 × HDD LED 1 × Power LED
	Remote	1 × 远程开关, 信号隔离, 需要外部接15V~30V
	OS recovery	1 × OS recovery
	内部接口 Internal I/O	扩展接口 Expansion Slot
RTC		1 × RTC Socket
SIM		1 × SIM Card Slot
SYS FAN		1 × 4pin SYS FAN
UPS		1 × UPS 模块(选配)
POE		1 × POE 模块(选配) for 主板 4网口
可扩展卡 Expansion Card	IB.FLAN.NB01	1. LAN+DIO+串口+CAN 默认; 2. LAN+DIO 选配: 2 × RJ45+16Bit Isolated DIO+4 × RS485+2 × RS232(选配)+2 × CAN 2.0b(选配)
	IB.FCOM.NB01	DIO+串口+CAN+M.2: 2 × RJ45+16Bit Isolated DIO 4 × RS485 2 × RS232 2 × CAN 2.0b 1 × M.2 2280 slot for SSD(Only Nvme)
	IB.FLSC.NB01	4 × PWM光源控制24V输出, 每个通道最大电流1A; 最高支持总功率40W
电源 Power	电源输入 Power Input	24V DC(-20%~+20%)
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 60°C
	存储温度 Storage Temp	-40°C ~ 85°C
	湿度 Relative Humidity	5% ~ 95%RH 非凝露Non-condensing
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy
	安装方式 Mounting	桌面式 (Desk-Mount), 书本式 (Wall-Mount)
	尺寸 Dimension	225 × 160 × 70mm



产品研发型号 R&D Model		CIS-HADN-LW01	CIS-HADN-LW11
系统 System	处理器 Processor	Intel® Processor N-series, Alder Lake-N/Twin Lake/Amston Lake Default Intel® Processor N97 2.0Ghz	
	内存 Memory	1 x DDR5 4800/5600MHz SO-DIMM, Up to 16GB	1 x DDR4 3200MHz SO-DIMM, Up to 32GB
	操作系统 OS	Win10-64bit, Win11-64bit, Linux	
	看门狗定时器 Watchdog Timer	Programmable 255 levels timer interval, from 1-255 sec/min	
外部 I/O External I/O	网口 Ethernet	4 x RJ45 Intel® I210-AT GbE (10/100/1000 Mbps) 可Option支持PoE功能	
	显示 Video	1 x HDMI : max resolution up to 4096x2304@60Hz	
	USB	4 x USB3.1 Gen1	
	串口 COM	2 x COM: 1 x RS485+1 x RS232, 其中TX/RX 做3KV隔离, 2 x 3 Phoenix端子	
	DIO	8Bit Isolated DIO; 4 x DI, 4 x DO; Default DI 湿节点输入, DO: NPN漏型输出; 隔离等级: DI/DO: 2KVDC/AC 电压范围: 高电平: 18~36V, 低电平: 0~5V 驱动能力: ≤350mA; 响应频率: ≤1KHz;	
	Micro-SD	1 x Micro-SD	
	指示灯 LED	1 x HDD LED 1 x Power LED	
	Remote	1 x 远程开关	
	OS recovery	1 x OS recovery	
	内部接口 Internal I/O	扩展接口 Expansion Slot	2x M.2 2280 slot for SSD (Only SATA) 1x M.2 3052 for 5G module 1x M.2 2230 slot for Wifi module
RTC		1 x RTC Socket	
SIM		1 x SIM Card Slot	
SYS FAN		1 x 4pin SYS FAN	
UPS		1 x UPS 模块 (选配)	
POE		1 x POE 模块(选配) for 基础款 4网卡	
可扩展卡 Expansion Card	IB.FLAN.NB01	1. LAN+DIO+串口+CAN 默认; 2. LAN+DIO 选配: 2 x RJ45+16Bit Isolated DIO+4 x RS485+2 x RS232(选配)+2 x CAN 2.0b(选配)	
	IB.FCOM.NB01	DIO+串口+CAN+M.2: 2 x RJ45+16Bit Isolated DIO 4 x RS485 2 x RS232 2 x CAN 2.0b 1 x M.2 2280 slot for SSD(Only Nvme)	
	IB.FLSC.NB01	4 x PWM光源控制24V输出, 每个通道最大电流1A,最高支持总功率40W	
电源 Power	电源输入 Power Input	12~24V DC (-10%~+20%)	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 60°C	
	存储温度 Storage Temp	-40°C ~ 85°C	
	湿度 Relative Humidity	5°C ~ 95%RH 非凝露Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	桌面式 (Desk-Mount), 书本式 (Wall-Mount)	
	尺寸 Dimension	225 x 160 x 70mm	



产品研发型号 R&D Model		CIS-XD20-LW01	
系统 System	处理器 Processor	Phythium Platform Processors D2000/8 TDP up to 40W	
	内存 Memory	2 x Dual Channel (Non-ECC) DDR4 2133/2400/2666 MHz 260-pin SODIMM Max to 64GB (32GB per DIMM)	
	图形 Graphics	SM768 显示芯片	
	操作系统 OS	支持银河麒麟, UOS 统信等国产操作系统	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
	外部 I/O External I/O	网口 Ethernet	2 x RJ45: PHY: YT8531SC-CA GbE (10/100/1000 Mbps)
显示 Display		1 x VGA: max resolution up to 1920x1080@60Hz 1 x HDMI: max resolution up to 3840x2160@30Hz	
串口 COM		4 x COM (RS232/422/485 auto-flow) 6 x COM RS232 串口均带 3KV 隔离	
USB		2 x USB 3.0 (Gen1) 4 x USB 2.0	
PS/2		1x PS/2 键鼠二合一(选配)	
DIO		通道数: 16x DIN, 16x DOUT 输入电压: 5~24V±20% DIN信号: 默认源型, 支持源型, 漏型, 速率 ≤1KHz DIN电平阈值: L: -3V~3V, H:5V~24V DOUT信号: NPN型, 电流 1A, 速率 ≤1KHz 电气保护: 反接保护, 过流保护等 防静电接地: 接触 ±6kV, 空气 ±12kV 隔离: 全光耦隔离设计	
OS Recovery		1 x OS Recovery Button	
Audio		1 x Line-out, 1 x MIC,选配	
远程开关 Remote ON-OFF		1 x Remote ON-OFF	
LED		1 x SATA LED	
Button		1 x Power button w/LED	
内部接口 Internal I/O		扩展接口 Expansion Slot	1 x Full-size Mini-PCIe Slot for 4G/5G module (PCIe + USB) 1 x M.2 2280 slot for SSD (SATA3.0) 1 x M.2 2230 slot for WIFI module
		USB	1 x USB2.0 type A 接头
	SATA	2 x SATA 3.0 , 2 x SATA power	
	FAN	1 x CPU Smart Fan 选配;	
	SIM	1 x Standard SIM Card Slot, support 4G/5G	
	TCM	1 x TCM 2.0 接口	
电源 Power	扩展插槽	1 x PCIe 扩展槽, 是由 PCIe x 16 组成, 用来扩展功能 (选配)	
	电源输入 Power Input	12~24V DC	
环境 Environmental	接口 Interface	4Pin Phenix 带锁附接口	
	操作温度 OperatingTemp	-10°C ~ 50°C (SSD) With 0.7 m/s air flow 0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	50°C 95%RH (35W CPU SSD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	外观 Housing	铝合金 Aluminum Alloy	
	安装方式 Mounting	桌面式 (Desk-Mount), 壁挂式 (Wall-Mount)	
	尺寸 Dimension	229 x 202 x 82 mm	

工业计算机整机

Industrial PC

满足各种场景需求

独家设计 2U/3U/4U 不同尺寸的桌面型和上架型整机，拥有多样化的扩展接口和高效率的散热能力，可搭配 Intel® 酷睿™ 系列 6 代 及之后的多款 CPU，实现卓越性能与多扩展位的完美结合。

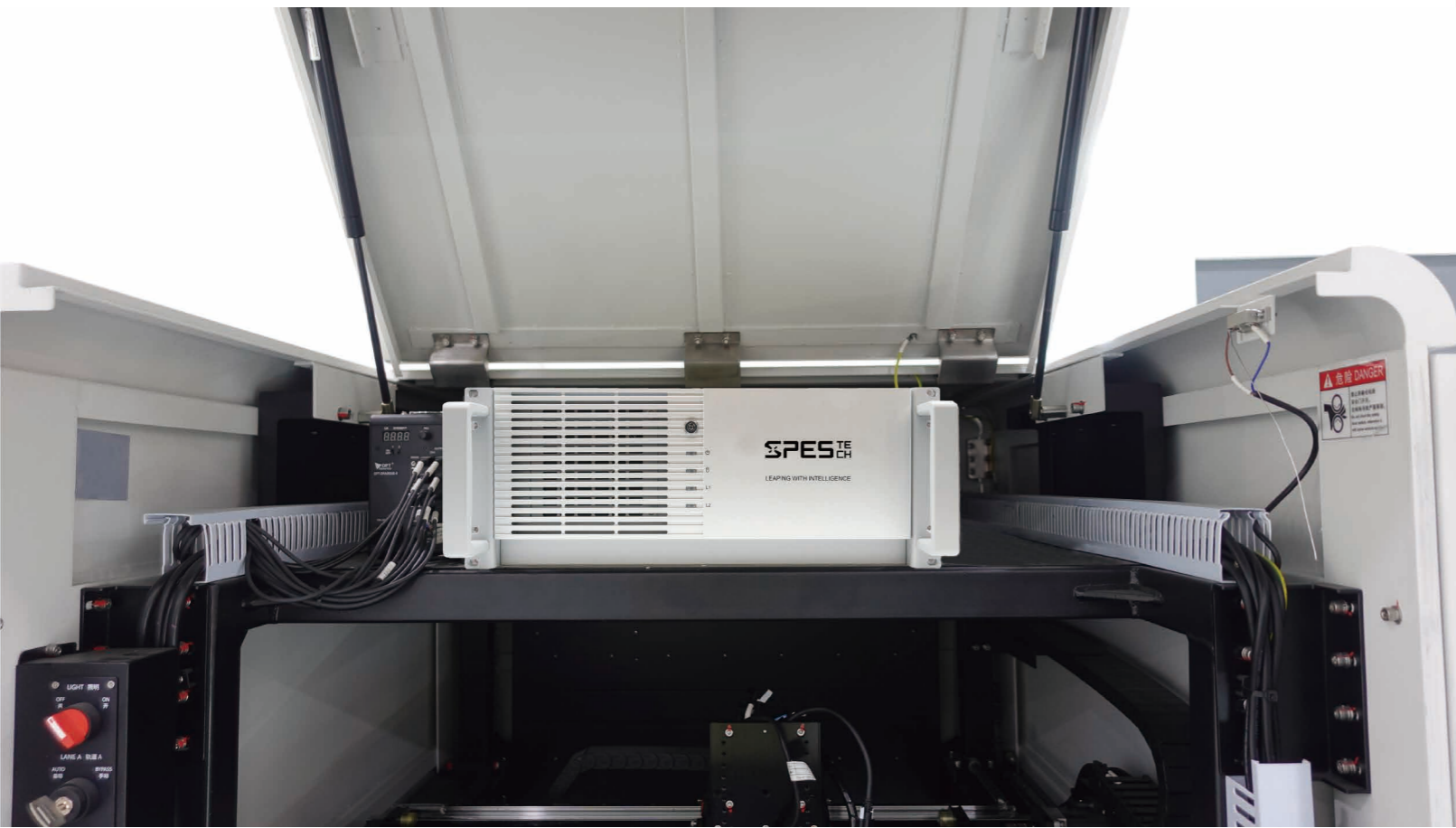
主要应用场景



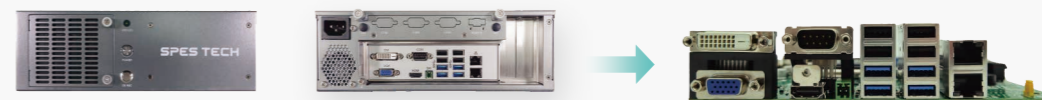
OS Recovery 功能

SPES TECH 全系列工业计算机整机均支持适配“远程开关”功能和“OS Recovery”功能，能满足多样的使用场景，并大幅降低设备使用及维护成本。

支持各国认证



2U 桌面型 / 上架型



- 采用行业标准 2U 桌面式工业机箱，可支持 Intel® 6th-14th Generation Core™ i7/i5/i3/Pentium®/Celeron® 等高性能 CPU，拥有更为全面的硬件功能，支持 VGA/HDMI/DP++ 显示，支持 1x PCIe16 (Gen3) 半高扩展槽，具有 4xUSB3.2, 4x USB2.0, 2x Intel® LAN, 4x COM, 支持 2.5" 硬盘 (SATA 3.0 接口), 8-bit 可编程 GPIO, 同时具有硬件 TPM 模块 / USB Type-A 加密狗接口等安全设备。
- 结构采用手旋式螺丝，免工具维护，可替换防尘网，不仅性能出色、而且功能完善，可满足大多数工业应用场景。

3U 桌面型 / 标准款 / 加长款



- 为满足更为出色的性能需求、和更为丰富的扩展要求而设计，可搭配 Intel® 6th-14th Generation Core™ i7/i5/i3/Pentium®/Celeron® 等高性能 CPU。
- 可支持 4-7 槽 PCIe/PCI 扩展接口，内部空间宽裕，可增设多个显卡、机械硬盘、扩展卡等，散热功能强大，支持 0°C~40°C(HDD) 持续稳定运行，主板亦具有丰富的 IO 接口。安全措施全面，配备 Case open / USB 加密狗 / TPM 模块 / OS Recovery 等功能。采用手旋式螺丝进行安装，免工具维护、可轻松替换防尘网。可选紧凑型、标准型、加长型。

4U 桌面型 / 上架型



- 4U 可充分发挥高性能 CPU 的优势，大尺寸的 4U 机箱为主板提供充分的扩展空间和高效的散热设备。
- 经过调试后可适应睿频模式，前后面板接口丰富，扩展能力强悍，拥有 7 槽 PCIe/PCI 扩展卡槽，可搭配 Intel® 6th-14th Generation Core™ i7/i5/i3/Pentium®/Celeron® 等 CPU，并可充分释放其性能最多可支持 4 个 3.5" 硬盘 (SATA 接口)，拥有全面的安全设备 (TPM / 加密狗 / Case open 等)，可充分满足需要大量接入设备或需要大量计算单元的工业应用场景需求。

* 每类产品均有不同配置，展示内容仅作参考，实物效果 (包括但不限于外观、颜色、尺寸) 和屏幕展示内容 (背景、配图、装饰元素) 等可能略有差异，请以实际出货为准。



产品研发型号 R&D Model		CIS-BSKL-FIS1 (主板型号: CIB-IH11-IC01)
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™ /Pentium®/Celeron® CPU
	芯片组 Chipset	Intel® H110 Chipset
	内存 Memory	DDR4 2666MHz SO-DIMM × 2, Max to 32GB (16GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash
	图形 Graphics	Intel® HD Gen 9 Graphics
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3), 支持半高卡
前部 I/O Front I/O	开关	1 × Power Button w/power LED
	LED	1 × HDD LED
	System Fan	1 × 8025 system fan (可替换式过滤网)
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × VGA: Up to 1920 × 1200@60Hz; 1 × HDMI: Up to 4096 × 2160@24Hz; 1 × DVI-D: Up to 1920 × 1200@60Hz 支持双屏异显
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配, 默认不上件
	COM	1 × COM (RS232/422/485)
	USB	4 × USB 3.0; 4 × USB 2.0
	远程开关接口	1 × Remote ON/OFF
	天线孔	2 × 天线孔
内部接口 Internal I/O	扩展接口 Interface	1 × Full-size Mini-PCIe (USB2.0); 1 × M.2 2280 M Key for SSD (SATA3)
	COM	1 × COM (RS232/422/485 auto-flow); 4 × COM (RS232)
	USB	1 × Vertical USB 2.0 type A; 2 × USB 2.0 (Pin Header)
	SATA	2 × SATA 3.0
	GPIO	1 × 8 bit GPIO
	LVDS	1 × LVDS Up to 1920 × 1200
	SIM	1 × Nano SIM
	FAN	1 × CPU Smart fan; 1 × System Smart fan
	OS Recovery	1 × OS Recovery
	安全 Security	1 × TPM 2.0 Module
	Front panel	1 × Front Panel
	电源 Power	电源输入 Power Input
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)
	存储温度 Storage Temp	-40°C ~ 60°C
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing
机构 Mechanical	尺寸 Dimension	250 × 265 × 88mm
	安装方式 Mounting	桌面式 (Desk-Mount)



产品研发型号 R&D Model		CIS-BSKL-FIS1 (主板型号: CIB-IB36-IC01)
系统 System	处理器 Processor	Intel® 6th/8th/9th Generation Core™ /Pentium®/Celeron® Processors with TDP up to 65W
	芯片组 Chipset	Intel® B360 Chipset
	内存 Memory	DDR4 2133/2400/2666MHz SODIMM × 2, Max to 64GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash
	图形 Graphics	Intel® UHD Graphics
	操作系统 OS	Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3)
前部 I/O Front I/O	开关	1 × Power Button w/power LED
	LED	1 × HDD LED
	System Fan	1 × 8025 system fan (可替换式过滤网)
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN 1: Intel® I219-V GbE 10/100/1000 Mbps LAN 2: Intel® I226-VGbE 10/100/1000/2500 Mbps
	显示 Display	1 × DP++, up to 4096 × 2304@60Hz; 1 × HDMI: up to 4096 × 2160@30Hz; 1 × VGA: up to 1920 × 1200@60Hz 支持三屏异显
	音频 Audio	1 × Line-out, 1 × Mic-in
	COM	1 × COM (RS232/422/485); 1 × COM (RS232)
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0
	天线孔	2 × 天线孔
	内部接口 Internal I/O	扩展接口 Interface
COM		4 × COM (RS232)
USB		1 × Vertical USB type A; 2 × USB 2.0 (Pin Header)
SATA		2 × SATA 3.0
GPIO		1 × 8bit GPIO Default 4in/4out
LVDS		1 × LVDS/eDP, Up to 1920 × 1200
SIM		1 × SIM Card
FAN		1 × CPU Smart fan; 1 × System Smart fan
OS Recovery		1 × OS Recovery
远程开关接口		1 × Remote ON/OFF
Front panel		1 × Front Panel
电源 Power		电源输入 Power Input
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)
	存储温度 Storage Temp	-40°C ~ 60°C
	操作湿度 Operating Relative Humidity	40°C 95%RH 非凝露Non-condensing
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing
机构 Mechanical	尺寸 Dimension	250 × 265 × 88mm
	安装方式 Mounting	桌面式 (Desk-Mount)



产品研发型号 R&D Model		CIS-BADL-FIS1 (主板型号: CIB-IH61-IC01)	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™ /Pentium®/Celeron® Processors with TDP up to 95W	
	内存 Memory	DDR5 4800/5600MHz SO-DIMM DIMM × 2, Max to 96GB (48GB per DIMM)	
	芯片组 Chipset	Intel® H610 Chipset	
	BIOS	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® UHD Graphics	
	操作系统 OS	Windows 10/11 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen4)	
前部 I/O Front I/O	开关	1 × Power Button w/power LED	
	LED	1 × HDD LED	
	System Fan	1 × 8025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN 1: Intel® I219-V GbE (10/100/1000 Mbps) LAN 2: Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++, up to 4096 × 2304@60Hz; 1 × HDMI: up to 4096 × 2160@60Hz; 1 × VGA: up to 1920 × 1200@60Hz 支持三屏异显	
	音频 Audio	1 × Line-out, 1 × Mic-in	
	USB	4 × USB 3.2; 4 × USB 2.0	
	串口 COM	2 × COM (RS232/422/485)	
	天线孔	2 × 天线孔	
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key for SSD (SATA & PCIe × 4 Gen3 NVMe) 1 × Full-size Mini-PCIe (PCIe × 1 & USB2.0) 1 × M.2 2230 E Key for Wi-Fi (PCIe × 1 & USB2.0), DC-IN only	
	串口 COM	4 × RS232	
	USB	2 × USB 2.0; 1 × Vertical USB type A, ATX only	
	SATA	2 × SATA 3.0	
	GPIO	1 × 8bit GPIO Default 4in/4out	
	SIM	1 × Nano SIM	
	FAN	1 × CPU Smart fan; 1 × System Smart fan	
	Remote	1 × Remote	
	OS Recovery	1 × OS Recovery	
	LVDS	1 × LVDS, Up to 1920 × 1200, co-lay eDP	
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input	Flex ATX
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)
存储温度 Storage Temp		-40°C ~ 60°C	
操作湿度 Operating Relative Humidity		40°C 95%RH (HDD)	
存储湿度 Storage relative Humidity		60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	250 × 265 × 88mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-BSKL-FAR1 (主板型号: CIB-IH11-XA01)	CIS-BSKL-FAR1 (主板型号: CIB-IQ17-XA01)
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™ /Pentium®/Celeron® LGA 1151 Socket Processors with TDP up to 95W	
	芯片组 Chipset	Intel® H110 Chipset	Intel® Q170 Chipset
	内存 Memory	DDR4 2133/2400/2666 MHz DIMM × 2, Max to 32GB	DDR4 2400/2666/2933 MHz DIMM × 4, Max to 64GB (16GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3); 1 × PCIe × 4 (Gen2); 5 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8); 2 × PCIe × 4 (Gen3) 3 × PCI
前部 I/O Front I/O	开关 / LED	1 × Power button; 1 × power LED, 1 × HDD LED, 2 × LAN LED	
	USB	2 × USB 2.0	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × VGA: Up to 1920 × 1200@60Hz 1 × HDMI: Up to 4096 × 2160@24Hz 1 × DVI-D: Up to 1920 × 1200@60Hz 支持双屏异显	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配, 默认不上件	1 × Line-out, 1 × Mic-in, 选配, 默认不上件
	串口 COM	1 × COM (RS232/422/485 Default RS232)	
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0	4 × USB 3.2 (Gen1)
	PS/2	1 × PS/2 接口	/
	扩展接口 Interface	1 × M.2 2280 M Key (SATA3,与SATA1复用)	1 × M.2 2280 M Key (SATA3)
	COM	1 × COM (RS232/422/485,Default RS232) 4 × COM (RS232)	
USB	1 × Vertical USB 2.0 type A 2 × USB 2.0	1 × Vertical USB 2.0 type A; 4 × USB 2.0 2 × USB 3.2 Gen1	
SATA	4 × SATA 3.0	5 × SATA 3.0, 支持RAID 0, 1, 5, 10	
GPIO	1 × 16bit GPIO, Default 为8in/8out		
Audio	1 × Front Audio (Line-out/Mic-in)		
FAN	1 × CPU Smart Fan; 2 × System Smart Fan	1 × CPU Smart Fan; 3 × System Smart Fan	
OS Recovery	1 × OS Recovery		
Remote SW	1 × Remote SW		
Security	1 × TPM 2.0 Module Extension		
LAN LED	1 × LAN LED	2 × LAN LED	
Front Panel	1 × Front Panel		
电源 Power	电源输入 Power Input	ATX	
	ATX power	350W / ATX power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	483.84 × 426.4 × 88.4mm	
	安装方式 Mounting	上架式 (Rack-Mount)	



产品研发型号 R&D Model		CIS-BCML-FAR1 (主板型号: CIB-IQ47-XA01)	
系统 System	处理器 Processor	Intel® 10th/11th Generation Core™/Pentium®/Celeron® with TDP up to 125W	
	芯片组 Chipset	Intel® Q470 Chipset	
	内存 Memory	4 × DDR4 2666/2933 MHz UDIMM, Max to 128GB (32GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3), 2 × 16 slot, only support 1 × 16 or 2 × 8; 2 × PCIe × 4 (Gen3); 2 × PCIe × 1 (Gen1); 1 × PCI	
前部 I/O Front I/O	开关	1 × Power button; 1 × power LED, 1 × HDD LED, 2 × LAN LED	
	USB	2 × USB 2.0	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 Controller1 Intel® I210-AT GbE (10/100/1000 Mbps) Controller2 Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz; 1 × HDMI: max resolution up to 4096 × 2160@30Hz; 1 × VGA: max resolution up to 1920 × 1200@60Hz; support 三个独立显示	
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	
	串口 COM	1 × COM (RS232/422/485 Default RS232)	
	USB	4 × USB3.2 (Gen 2); 2 × USB3.2 (Gen 1); 2 × USB 2.0	
	PS/2	/	
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key (SATA or PCIe × 4 NVMe Gen4)	
	COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)	
	USB	1 × Vertical USB 2.0 type A; 2 × USB 2.0; 2 × USB 3.1 Gen1	
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	
	GPIO	1 × 16bit GPIO, Default 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan; 2 × System Smart Fan	
	OS Recovery	1 × OS Recovery	
	Remote SW	1 × Remote SW	
	Security	1 × TPM 2.0 Module Extension	
	LAN LED	1 × LAN LED	
	Front Panel	1 × Front Panel	
	电源 Power	电源输入 Power Input	ATX
		ATX power	350W/ATX power
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	尺寸 Dimension	483.84 × 426.4 × 88.4mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-BADL-FAR1 (主板型号: CIB-IQ67-XA01)	CIS-BADL-FAR1 (主板型号: CIB-IH61-XA01)	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™/Pentium®/Celeron® Processors with TDP up to 125W	Intel® 12th/13th/14th Generation Core™/Pentium®/Celeron® Processors with TDP up to 125W	
	芯片组 Chipset	Intel® Q670 Chipset	Intel® H610 Chipset	
	内存 Memory	4 × DDR4 3200MHz UDIMM, Max to 128GB (32GB per DIMM)	2 × DDR4 3200MHz UDIMM, Max to 64GB (32GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux	Windows 10/11 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen4), 2 × 16 slot, only support 1 × 16 or 2 × 8; 3 × PCIe × 4 (Gen4); 1 × PCIe × 1 (Gen3); 1 × PCI	1 × PCIe × 16 (Gen4) 1 × PCIe × 4 (Gen3) (Bom Option: 可切换PCIe × 2, Other PCIe × 2 for M.2 Nvme); 1 × PCIe × 2 (Gen3); 4 × PCI	
前部 I/O Front I/O	开关	1 × Power button; 1 × power LED, 1 × HDD LED, 2 × LAN LED		
	USB	2 × USB 2.0		
后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I210-AT GbE (10/100/1000 Mbps)	2 × RJ45 1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz; 1 × HDMI: Up to 4096 × 2160@30Hz; 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-out, 1 × Mic-in	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	
	串口 COM	1 × COM (RS232/422/485 Default RS232)	1 × COM (RS232/422/485 auto-flow) 1 × COM (RS232); 支持 5V/12V 供电, 默认无供电	
	USB	2 × USB 3.2 (Gen 2); 2 × USB 3.2 (Gen 1)	4 × USB 3.2 (Gen 2); 2 × USB 2.0	
	PS/2	/		
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key (SATA or PCIe × 4 NVMe Gen4)	1 × M.2 2280 M key (SATA or PCIe × 2 NVMe Gen3, Bom Option)	
	COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)	4 × COM (RS232)	
	USB	1 × Vertical USB 3.2 Gen1 type A; 2 × USB 2.0 2 × USB 3.2 (Gen1); 2 × USB 3.2 (Gen2)	2 × Vertical USB 2.0 type A 2 × USB 2.0	
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	3 × SATA 3.0 (4 × SATA3.0, Bom Option)	
	GPIO	1 × 16bit GPIO, Default 8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in)		
	FAN	1 × CPU Smart Fan; 3 × System Smart Fan		
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	Security	1 × TPM 2.0 Module Extension		
	LAN LED	2 × LAN LED	1 × LAN LED	
	Front Panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	350W/ATX power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	尺寸 Dimension	483.84 × 426.4 × 88.4mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model	CIS-CH11-FALC (主板型号: CIB-IH11-MA01)	CIS-CH11-FALC (主板型号: CIB-IH11-IC01)		
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™ /Pentium®/Celeron® Processors TDP up to 65W		
	芯片组 Chipset	Intel® H110 Chipset		
	内存 Memory	DDR4 2666 MHz UDIMM × 2, Max to 64GB (32GB per DIMM)	2 × DDR4 1866/2133/2400MHz SO-DIMM, Max to 64GB (32GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
	扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3); 1 × PCIe × 4 (Gen2) 2 × PCI	1 × PCIe × 16 (Gen3)
前部 I/O Front I/O	开关	1 × Power button w/LED		
	LED	1 × HDD LED		
	USB	2 × USB 2.0		
	OS Recovery	1 × OS Recovery		
	Fan	1 × 12025 system fan (可替换式过滤网)		
	后部 I/O Rear I/O	网口 Ethernet	2 × RJ45; LAN1: Intel® I219-V GbE (10/100/1000 Mbps); LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	
显示 Display		1 × VGA: Up to 1920 × 1200@60Hz; 1 × HDMI: Up to 4096 × 2160@24Hz; 1 × DVI-D: Up to 1920 × 1200@60Hz; 支持双屏异显		
音频 Audio		1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配		
串口 COM		1 × COM (RS232/422/485, Default RS232)		
USB		6 × USB 3.2 (Gen1), 2 × USB 2.0	4 × USB 3.2 (Gen1), 4 × USB 2.0	
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key for SSD (PCIe, 与SATA1复用)	1 × Full-size Mini-PCIe (PCIe × 1 & USB2.0) 1 × M.2 2242/2280(BOM option) M key (SATA3.0)	
	COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)		
	USB	1 × Vertical USB 2.0 type A; 2 × USB 2.0 (拓展前面板)		
	SATA	4 × SATA 3.0	2 × SATA 3.0	
	GPIO	1 × 16bit GPIO, default 为8in/8out	1 × 8bit GPIO, Default 为4in/4out	
	音频	1 × Front Audio (Line-out/Mic-in) 默认不上件	/	
	FAN	1 × CPU Smart Fan; 2 × System Smart Fan	1 × CPU Smart Fan; 1 × System Smart Fan	
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	Security	1 × TPM 2.0 Module Extension		
	LAN LED	1 × LAN LED	/	
	Front Panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	350W/ATX power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing		
机构 Mechanical	尺寸 Dimension	260 × 300 × 135mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model	CIS-CH11-FALC (主板型号: CIB-IB36-IC01)	CIS-CH11-FALC (主板型号: CIB-IZ39-MA01)	
系统 System	处理器 Processor	Intel® 6th/8th/9th Generation Core™ /Pentium®/Celeron® Processors with TDP up to 65W	
	芯片组 Chipset	Intel® B360 Chipset	Intel® Z390 Chipset
	内存 Memory	2 × DDR4 2133/2400/2666MHz (6th/8th/9th CPU) 260-pin SODIMM × 2, Max to 64GB (32GB per DIMM)	4 × DDR4 2400/2666MHz UDIMM, Max to 128GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® UHD Graphics	Intel® Integrated Graphics
	操作系统 OS	Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
	扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3)
前部 I/O Front I/O	开关	1 × Power button w/LED	
	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
	后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN 1: Intel® I219-V GbE 10/100/1000 Mbps LAN 2: Intel® I226-VGbE 10/100/1000/2500 Mbps
显示 Display		1 × DP++, up to 4096 × 2304@60Hz 1 × HDMI: up to 4096 × 2160@30Hz 1 × VGA: up to 1920 × 1200@60Hz 支持三屏异显	
音频 Audio		1 × Line-out, 1 × Mic-in, 选配	
串口 COM		1 × COM (RS232/422/485 Default RS232); 1 × COM (RS232)	
USB		4 × USB 3.2 (Gen1) 2 × USB 2.0	4 × USB 3.2 (Gen1) 2 × USB 2.0
扩展接口 Interface		1 × M.2 2280 M Key for SSD (SATA & PCIe × 4 Gen3 NVMe) 1 × Full-size Mini-PCIe (PCIe × 1 & USB3.0 coloy & USB 2.0) 1 × M.2 2230 E Key for Wi-Fi (PCIe × 1 & USB 2.0)	1 × M.2 2280 M Key (SATA/NVMe PCIe4 自适应)
COM		4 × COM (RS232)	
USB	1 × Vertical USB type A; 2 × USB 2.0 (拓展前面板)	2 × Vertical USB 2.0 type A; 2 × USB 2.0; 2 × USB 3.2 Gen1	
SATA	2 × SATA 3.0	4 × SATA 3.0 支持 RAID 0, 1, 5, 10	
GPIO	1 × 8bit GPIO Default 4in/4out		
音频	/	1 × Front Audio (Line-out/Mic-in)	
FAN	1 × CPU Smart fan; 1 × System Smart fan	1 × CPU Smart Fan; 3 × System Smart Fan	
OS Recovery	1 × OS Recovery		
Remote SW	1 × Remote SW		
安全 Security	/	1 × TPM 2.0 Module Extension	
LAN LED	/	1 × LAN LED	
Front panel	1 × Front Panel		
电源 Power	电源输入 Power Input	ATX	
	ATX power	250W / 350W / 450W Flex ATX power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	260 × 300 × 135mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-CCML-FMC1 (主板型号: CIB-IQ47-MA01)	CIS-CADL-FIC1 (主板型号: CIB-IH61-IC01)	
系统 System	处理器 Processor	Intel® 10th/11th Generation Core™/Pentium®/Celeron® Processors with TDP up to 65W	Intel® 12th/13th/14th Generation Core™/Pentium®/Celeron® Processors with TDP up to 95W	
	芯片组 Chipset	Intel® Q470 Chipset	Intel® H610 Chipset	
	内存 Memory	DDR4 2400/2666/2933 MHz UDIMM × 4 Max to 128GB (32GB per DIMM)	DDR5 4800/5600MHz SO-DIMM DIMM × 2, Max to 96GB (48GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	芯片组 Chipset	Windows 10 64bit; Linux	Windows 10/11 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
	扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8), 2 × PCIe × 4 (Gen3)	1 × PCIe × 16 (Gen4)
前部 I/O Front I/O	开关	1 × Power button w/LED		
	LED	1 × HDD LED		
	USB	2 × USB 2.0		
	OS Recovery	1 × OS Recovery		
	Fan	1 × 12025 system fan (可替换式过滤网)		
后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I226-V GbE (10/100/1000 Mbps)	2 × RJ45 LAN 1 Intel® I219-V GbE (10/100/1000 Mbps) LAN 2 Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++, up to 4096 × 2304@60Hz 1 × HDMI: up to 4096 × 2160@30Hz 1 × VGA: up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-out; 1 × Mic-in; 选配; 默认不上件	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485, Default RS232)	2 × COM (RS232/422/485, Default RS232)	
	USB	4 × USB 3.2 (Gen1)		
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key for SSD (SATA or PCIe4 NVMe)	1 × M.2 2280 M Key for SSD (SATA & PCIe × 4 Gen3 NVMe) 1 × Full-size Mini-PCIe (PCIe × 1 & USB2.0) 1 × M.2 2230 E Key for Wi-Fi (PCIe × 1 & USB2.0), DC-IN only	
	COM	1 × COM (RS232/422/485, Default RS232), 4 × COM (RS232)	4 × COM (RS232)	
	USB	1 × Vertical USB 3.2 Gen1 type A; 2 × USB 2.0; 4 × USB 3.2 Gen1		
	SATA	4 × SATA 3.0 支持 RAID 0, 1, 5, 10		
	GPIO	1 × 16bit GPIO, default 为 8in/8out		
	音频	1 × Front Audio (Line-out/Mic-in) 默认不上件		
	FAN	1 × CPU Smart fan; 3 × System Smart fan		
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	安全 Security	1 × TPM 2.0 Module Extension		
	LAN LED	2 × LAN LED		
	Front panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	250W / 350W / 450W Flex ATX power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing		
机构 Mechanical	尺寸 Dimension	260 × 300 × 135mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model		CIS-CSKL-FAS1 (主板型号: CIB-IH11-XA01)	CIS-CSKL-FAS1 (主板型号: CIB-IH11-MA01)
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™/Pentium®/Celeron® Processors with TDP up to 95W	
	芯片组 Chipset	Intel® H110 Chipset	
	内存 Memory	2 × DDR4 2133/2400 MHz UDIMM, Max to 32GB (16GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
	扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3) 1 × PCIe × 4 (Gen2) 5 × PCI
前部 I/O Front I/O	开关	1 × Power button w/LED	
	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × VGA: Up to 1920 × 1200@60Hz 1 × HDMI: Up to 4096 × 2160@24Hz 1 × DVI-D: Up to 1920 × 1200@60Hz 支持双屏异显	
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配, 默认不上件	1 × Line-in, 1 × Line-out, 1 × Mic-in
	串口 COM	1 × COM (RS232/422/485, Default RS232)	
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0	6 × USB 3.2 (Gen1); 2 × USB 2.0
内部接口 Internal I/O	PS/2	1 × PS/2 (mini-DIN-6)	
	扩展接口 Interface	1 × M.2 2280 M Key (SATA3.0, 与SATA1复用)	
	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)	
	USB	1 × Vertical USB 2.0 type A; 2 × USB 2.0	
	SATA	4 × SATA 3.0	
	GPIO	1 × 16bit GPIO, Default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件	
	FAN	1 × CPU Smart Fan; 2 × System Smart Fan	
	OS Recovery	1 × OS Recovery	
	Remote SW	/	
	安全 Security	1 × TPM 2.0 Module Extension	
	LAN LED	1 × LAN LED	
	Front panel	1 × Front Panel	
	电源 Power	电源输入 Power Input	ATX
ATX power		250W / 350W / 450W Flex ATX power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	标准款: 330 × 300 × 135mm; 加长款: 330 × 340 × 135mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-CSKL-FAS1 (主板型号: CIB-IQ17-XA01)	CIS-CSKL-FAS1 (主板型号: CIB-IZ39-XA01)
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™ / Pentium® / Celeron® Processors with TDP up to 95W	Intel® 6th/8th/9th Generation Core™ / Pentium® / Celeron® Processors with TDP up to 95W
	芯片组 Chipset	Intel® Q170 Chipset	Intel® Z390 Chipset
	内存 Memory	DDR4 2400/2666 MHz UDIMM × 4 Max to 64GB (32GB per DIMM)	4 × DDR4 2400/2666MHz UDIMM, Max to 128GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1~255 sec/min	
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 2 × PCIe × 4 (Gen3) 3 × PCI	1 × PCIe × 16 (Gen3) 3 × PCIe × 4 (Gen3) 3 × PCI
	开关	1 × Power button w/LED	
前部 I/O Front I/O	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I210-AT GbE (10/100/1000 Mbps)	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显	
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	1 × Line-out, 1 × Mic-in
	串口 COM	1 × COM (RS232/422/485, Default RS232)	1 × COM (RS232/422/485, Default RS232); 1 × COM (RS232)
	USB	4 × USB 3.2 (Gen 1)	4 × USB 3.2 (Gen 1); 2 × USB 2.0
	PS/2	/	
	内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key (SATA3)
串口 COM		1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)	4 × COM (RS232)
USB		1 × Vertical USB 2.0 type A; 2 × USB 3.2 Gen1	2 × Vertical USB 2.0 type A; 2 × USB 2.0; 2 × USB 3.2 Gen1
SATA		5 × SATA 3.0, 支持RAID 0, 1, 5, 10	4 × SATA 3.0
GPIO		1 × 16bit GPIO, Default 为8in/8out	
Audio		1 × Front Audio (Line-out/Mic-in)默认不上件	
FAN		1 × CPU Smart Fan; 3 × System Smart Fan	
OS Recovery		1 × OS Recovery	
Remote SW		1 × Remote SW	
安全 Security		1 × TPM 2.0 Module Extension	1 × LPC TPM 2.0 Module Extension
LAN LED		2 × LAN LED	1 × LAN LED
Front panel		1 × Front Panel	
电源 Power		电源输入 Power Input	ATX
	ATX power	250W / 350W / 450W Flex ATX power	250W / 350W / 450W / 500W Flex ATX power
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	尺寸 Dimension	标准款: 330 × 300 × 135mm; 加长款: 330 × 340 × 135mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-CSKL-FAS1 (主板型号: CIB-IZ39-MA01)	CIS-CCML-FAS1 (主板型号: CIB-IQ47-XA01)
系统 System	处理器 Processor	Intel® 6th/8th/9th Generation Core™ / Pentium® / Celeron® Processors with TDP up to 95W	Intel® 10th/11th Generation Core™ / Pentium® / Celeron® with TDP up to 125W
	芯片组 Chipset	Intel® Z390 Chipset	Intel® Q470 Chipset
	内存 Memory	4 × DDR4 2400/2666MHz UDIMM, Max to 128GB (32GB per DIMM)	DDR4 2666/2933 MHz UDIMM × 4 Max to 128GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Linux	Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1~255 sec/min	
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3); 1 × PCIe x4 (Gen3) 2 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8); 2 × PCIe × 4 (Gen3), 2 × PCIe × 1 (Gen1), 1 × PCI
	开关	1 × Power button w/LED	
前部 I/O Front I/O	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I226-V GbE (10/100/1000/2500 Mbps)	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × DP++, up to 4096 × 2304@60Hz 1 × HDMI: up to 4096 × 2160@30Hz 1 × VGA: up to 1920 × 1200@60Hz 支持三屏异显	
	音频 Audio	1 × Line-out; 1 × Mic-in	1 × Line-out; 1 × Mic-in; 选配; 默认不上件
	串口 COM	1 × COM (RS232/422/485 Default RS232); 1 × COM (RS232)	1 × COM (RS232/422/485, Default RS232)
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0	4 × USB 3.2 (Gen2); 2 × USB 3.2 (Gen1); 2 × USB 2.0
	PS/2	/	
	内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key (SATA / NVMe PCIe × 4 自适应)
串口 COM		4 × COM (RS232)	1 × COM (RS232/422/485, Default RS232), 4 × COM (RS232)
USB		2 × Vertical USB 2.0 type A; 2 × USB 2.0; 2 × USB 3.2 Gen1	1 × Vertical USB 2.0 type A; 2 × USB 2.0; 2 × USB 3.1 Gen1
SATA		4 × SATA 3.0 支持 RAID 0, 1, 5, 10	
GPIO		1 × 8bit GPIO Default 4in/4out	1 × 16bit GPIO, default 为8in/8out
Audio		1 × Front Audio (Line-out/Mic-in) 默认不上件	
FAN		1 × CPU Smart fan; 3 × System Smart fan	
OS Recovery		1 × OS Recovery	
Remote SW		1 × Remote SW	
安全 Security		1 × TPM 2.0 Module Extension	
LAN LED		2 × LAN LED	
Front panel		1 × Front Panel	
电源 Power		电源输入 Power Input	ATX
	ATX power	250W / 350W / 450W Flex ATX power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	尺寸 Dimension	标准款: 330 × 300 × 135mm; 加长款: 330 × 340 × 135mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model	CIS-CCML-FAS1 (主板型号: CIB-IQ47-XA02)	CIS-CCML-FAS1 (主板型号: CIB-IQ47-MA01)		
系统 System	处理器 Processor	Intel® 10th/11th Generation Core™ /Pentium®/Celeron® with TDP up to 125W		
	芯片组 Chipset	Intel® Q470 Chipset		
	内存 Memory	DDR4 2666/2933 MHz UDIMM × 4 Max to 128GB (32GB per DIMM)	4 × DDR4 2400/2666/2933 MHz UDIMM Max to 128GB (32GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	System reset, programmable 255 levels timer interval, from 1-256 sec/min	
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 3 × PCIe × 4 (Gen3) 2 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 2 × PCIe × 4 (Gen3)	
	开关	1 × Power button w/LED		
前部 I/O Front I/O	LED	1 × HDD LED		
	USB	2 × USB 2.0		
	OS Recovery	1 × OS Recovery		
	Fan	1 × 12025 system fan (可替换式过滤网)		
	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I226-AT GbE (10/100/1000 Mbps)	
后部 I/O Rear I/O	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485, Default RS232)		
	USB	4 × USB 3.2 (Gen 2); 2 × USB 2.0	4 × USB 3.2 (Gen 1)	
	PS/2	/		
	扩展接口 Interface	1 × M.2 2280 M Key (SATA or PCIe × 4 NVMe Gen4)	1 × M.2 2280 M Key for SSD (SATA or PCIe × 4 NVMe Gen4)	
	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)		
内部接口 Internal I/O	USB	1 × Vertical USB 2.0 type A; 2 × USB 2.0	1 × Vertical USB 3.2 Gen1 type A; 2 × USB 2.0; 4 × USB 3.2 (Gen1)	
	SATA	3 × SATA 3.0, 支持RAID 0, 1, 5, 10	4 × SATA 3.0, 支持RAID 0, 1, 5, 10	
	GPIO	1 × 16bit GPIO, Default 为8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件		
	FAN	1 × CPU Smart Fan; 2 × System Smart Fan	1 × CPU Smart Fan; 3 × System Smart Fan	
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	安全 Security	1 × TPM 2.0 Module Extension		
	LAN LED	1 × LAN LED	2 × LAN LED	
	Front panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	250W / 350W / 450W Flex ATX power	
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
		存储温度 Storage Temp	-40°C ~ 60°C	
操作湿度 Operating Relative Humidity		40°C 95%RH (HDD)		
存储湿度 Storage relative Humidity		60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	尺寸 Dimension	标准款: 330 × 300 × 135mm; 加长款: 330 × 340 × 135mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model	CIS-CADL-FAS1 (主板型号: CIB-IQ67-XA01)	CIS-CADL-FAS1 (主板型号: CIB-IQ67-XA02)		
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™ /Pentium®/Celeron® Processors with TDP up to 125W		
	芯片组 Chipset	Intel® Q670 Chipset		
	内存 Memory	DDR4 3200MHz UDIMM × 4, Max to 128GB (32GB per DIMM)		
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8), 3 × PCIe × 4 (Gen4), 1 × PCIe × 1 (Gen3), 1 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8), 3 × PCIe × 4 (Gen4), 2 × PCI	
	开关	1 × Power button w/LED		
前部 I/O Front I/O	LED	1 × HDD LED		
	USB	2 × USB 2.0		
	OS Recovery	1 × OS Recovery		
	Fan	1 × 12025 system fan (可替换式过滤网)		
	网口 Ethernet	4 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2-4: Intel® I210-AT GbE (10/100/1000 Mbps)	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	
后部 I/O Rear I/O	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485, Default RS232)		
	USB	4 × USB 3.2 (Gen 2); 2 × USB 2.0	4 × USB 3.2 (Gen 1)	
	PS/2	/		
	扩展接口 Interface	1 × M.2 2280 M Key (SATA or PCIe × 4 NVMe Gen4)	1 × M.2 2280 M Key for SSD (SATA or PCIe × 4 NVMe Gen4)	
	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)		
内部接口 Internal I/O	USB	1 × Vertical USB 2.0 type A; 2 × USB 2.0	1 × Vertical USB 3.2 Gen1 type A; 2 × USB 2.0; 4 × USB 3.2 (Gen1)	
	SATA	3 × SATA 3.0, 支持RAID 0, 1, 5, 10	4 × SATA 3.0, 支持RAID 0, 1, 5, 10	
	GPIO	1 × 16bit GPIO, Default 为8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件		
	FAN	1 × CPU Smart Fan; 2 × System Smart Fan	1 × CPU Smart Fan; 3 × System Smart Fan	
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	安全 Security	1 × TPM 2.0 Module Extension		
	LAN LED	1 × LAN LED	2 × LAN LED	
	Front panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	250W / 350W / 450W Flex ATX power	
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
		存储温度 Storage Temp	-40°C ~ 60°C	
操作湿度 Operating Relative Humidity		40°C 95%RH (HDD)		
存储湿度 Storage relative Humidity		60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	尺寸 Dimension	标准款: 330 × 300 × 135mm; 加长款: 330 × 340 × 135mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model		CIS-CADL-FAS1 (主板型号: CIB-IW68-XA01)	CIS-CADL-FAS1 (主板型号: CIB-IH61-XA01)	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™ /Pentium®/Celeron® Processors with TDP up to 125W		
	芯片组 Chipset	Intel® W680 Chipset	Intel® H610 Chipset	
	内存 Memory	DDR5 4800/5600MHz UDIMM × 4, Max to 192GB(48GB per DIMM)	DDR4 2666/3200MHz UDIMM × 2, Max to 64GB(32GB per DIMM)	
	BIOS	AMI 256Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10/11 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen5), 3 × PCIe × 4 (Gen4), 1 × PCIe × 4 (Gen3), 2 × PCI	1 × PCIe × 16 (Gen4), 1 × PCIe × 4 (Gen3, Bom Option PCIe × 2), 1 × PCIe × 2 (Gen3), 4 × PCI	
	开关	1 × Power button w/LED		
前部 I/O Front I/O	LED	1 × HDD LED		
	USB	2 × USB 2.0		
	OS Recovery	1 × OS Recovery		
	Fan	1 × 12025 system fan (可替换式过滤网)		
	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)		
后部 I/O Rear I/O	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件		
	串口 COM	1 × COM (RS232/422/485, Default RS232)	1 × COM (RS232/422/485, Default RS232); 1 × COM (RS232)	
	USB	2 × USB 3.2 (Gen 2); 2 × USB 3.2 (Gen 1)	4 × USB 3.2 (Gen 1); 2 × USB 2.0	
	PS/2	/		
	扩展接口 Interface	1 × M.2 2280 M Key for SSD (PCIe4 NVMe)		
	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)	4 × COM (RS232)	
内部接口 Internal I/O	USB	2 × Vertical USB 2.0 type A; 2 × USB 2.0; 2 × USB 3.2 Gen1	2 × Vertical USB 2.0 type A; 2 × USB 2.0	
	SATA	4 × SATA 3.0, 支持RAID 0, 1, 5, 10	3 × SATA 3.0 (Bom Option 4 × SATA3.0)	
	GPIO	1 × 16bit GPIO, Default 为8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件		
	FAN	1 × CPU Smart Fan; 3 × System Smart Fan		
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × Remote SW		
	安全 Security	1 × TPM 2.0 Module Extension		
	LAN LED	1 × LAN LED		
	Front panel	1 × Front Panel		
	电源 Power	电源输入 Power Input	ATX	
	ATX power	250W / 350W / 450W Flex ATX power		
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
		存储温度 Storage Temp	-40°C ~ 60°C	
操作湿度 Operating Relative Humidity		40°C 95%RH (HDD)		
存储湿度 Storage elative Humidity		60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	尺寸 Dimension	标准款: 330 × 300 × 135mm; 加长款: 330 × 340 × 135mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model		CIS-DSKL-FAS1(主板型号: CIB-IH11-XA01)	CIS-DSKL-FAS1 (主板型号: CIB-IQ17-XA01)	
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Core™/Pentium®/Celeron® LGA 1151 Socket Processors with TDP up to 65W		
	芯片组 Chipset	Intel® H110 Chipset	Intel® Q170 Chipset	
	内存 Memory	DDR4 2133/2400MHz 288-pin DIMM × 2, Max to 32GB (16GB per DIMM)	DDR4 2400/2666 MHz 288-pin DIMM × 4 Max to 64GB (16GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3) 1 × PCIe × 4 (Gen2) 5 × PCI	2 × PCIe × 16 (Gen3), 2 × 16 slot, only support 1 × 16 or 2 × 8 2 × PCIe × 4 (Gen3), 3 × PCI	
	开关	1 × Power button w/LED		
前部 I/O Front I/O	LED	1 × HDD LED		
	USB	2 × USB 2.0		
	OS Recovery	1 × OS Recovery		
	Fan	1 × 12025 system fan (可替换式过滤网)		
	网口 Ethernet	2 × RJ45 Controller1 Intel® I210-AT GbE (10/100/1000 Mbps) Controller2 Intel® I219-V GbE (10/100/1000 Mbps)		
后部 I/O Rear I/O	显示 Display	1 × VGA: max resolution up to 1920 × 1200@60Hz 1 × HDMI: max resolution up to 4096 × 2160@24Hz 1 × DVI-D: max resolution up to 1920 × 1200@60Hz 支持三屏异显	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配	1 × Line-out, 1 × Mic-in, 选配	
	串口 COM	1 × COM (RS232/422/485, Default RS232)		
	USB	4 × USB 3.2 (Gen 1); 2 × USB 2.0	4 × USB 3.2 (Gen 1)	
	PS/2	1 × PS/2 (mini-DIN-6)		
	扩展接口 Interface	1 × M.2 2280 slot (与SATA1复用)	1 × M.2 2280 slot support SATA SSD only	
	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)		
内部接口 Internal I/O	USB	1 × Vertical USB 2.0 type A 2 × USB 2.0 (2.54mm pitch)	1 × Vertical USB 2.0 type A; 4 × USB 2.0 (2 × 5Pin 2.54mm pitch) 2 × USB 3.2 Gen1 (Pin header)	
	SATA	4 × SATA 3.0 (up to 6Gb/s)	5 × SATA 3.0 (up to 6Gb/s), 支持RAID 0, 1, 5, 10	
	GPIO	1 × 16bit programmable GPIO, default 为8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in) 选配		
	FAN	1 × CPU fan (4Pin support smart fan), 2 × System fan (4Pin support smart fan), BIOS侦测风扇状态	1 × CPU fan (4Pin support smart fan), 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态	
	OS Recovery	1 × OS Recovery pin header		
	Remote SW	1 × 2pin pin header		
	安全 Security	1 × TPM 2.0 Module Extension		
	LAN LED	1 × LAN LED pin header	2 × LANLED connector	
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED		
	电源 Power	电源输入 Power Input	ATX	
	ATX power	300W / 500W / 650W / 850W ATX power		
	接口 Interface	24Pin ATX power, 8Pin ATX 12V power		
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
存储温度 Storage Temp		-40°C ~ 60°C		
操作湿度 Operating Relative Humidity		40°C 95%RH (HDD)		
存储湿度 Storage elative Humidity		60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	尺寸 Dimension	330 × 300 × 175mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model		CIS-DSKL-FASI (主板型号: CIB-IZ39-XA01)	
系统 System	处理器 Processor	Intel® 6th/8th/9th Generation Core™ /Pentium®/Celeron® LGA 1151 Socket Processors with TDP up to 65W	
	芯片组 Chipset	Intel® Z390 Chipset	
	内存 Memory	DDR4 2400/2666 MHz 288-pin DIMM × 4 Max to 128GB (32GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	1 × PCIe x16 (Gen3) 3 × PCIe x4 (Gen3) 3 × PCI	
	开关	1 × Power button w/LED	
前部 I/O Front I/O	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I226-V GbE (10/100/1000/2500 Mbps)	
后部 I/O Rear I/O	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配	
	串口 COM	1 × COM (RS232/422/485 Default RS232); 1 × COM (RS232)	
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0	
	PS/2	/	
	扩展接口 Interface	1 × M.2 2280 M Key (SATA / NVMe PCIe × 4 自适应)	
内部接口 Internal I/O	串口 COM	4 × COM (RS232)	
	USB	2 × Vertical USB 2.0 type A 2 × USB 2.0; 2 × USB 3.2 Gen1	
	SATA	4 × SATA 3.0	
	GPIO	1 × 16bit programmable GPIO, default 为8in/8out	
	Audio	1 × Front Audio(Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan; 3 × System Smart Fan (4Pin support smart fan), BIOS侦测风扇状态	
	OS Recovery	1 × OS Recovery pin header	
	Remote SW	1 × 2pin pin header	
	Security	1 × TPM 2.0 Module Extension	
	LAN LED	1 × LAN LED	
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED	
	电源 Power	电源输入 Power Input	ATX
		ATX power	300W / 500W / 650W / 850W ATX power
		接口 Interface	24Pin ATX power, 8Pin ATX 12V power
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	尺寸 Dimension	330 × 300 × 175mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-DCML-FASI (主板型号: CIB-IQ47-XA01)	CIS-DCML-FASI (主板型号: CIB-IQ47-XA02)	
系统 System	处理器 Processor	Intel® 10th/11th Generation Core™ /Pentium®/Celeron® LGA 1200 with TDP up to 65W	Intel® 10th/11th Generation Core™ /Pentium®/Celeron® with TDP up to 125W	
	芯片组 Chipset	Intel® Q470 Chipset		
	内存 Memory	DDR4 2666/2933 MHz 288-pin DIMM × 4 Max to 128GB (32GB per DIMM)	DDR4 2666/2933 MHz UDIMM × 4 Max to 128GB (32GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3), 2 × 16 slot, only support 1 × 16 or 2 × 8 2 × PCIe × 4 (Gen3), 2 × PCIe × 1 (Gen1), 1 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 3 × PCIe × 4 (Gen3), 2 × PCI	
	开关	1 × Power button w/LED		
前部 I/O Front I/O	LED	1 × HDD LED		
	USB	2 × USB 2.0		
	OS Recovery	1 × OS Recovery		
	Fan	1 × 12025 system fan (可替换式过滤网)		
	网口 Ethernet	2 × RJ45 Controller1: Intel® I210-AT GbE (10/100/1000 Mbps) Controller2: Intel® I219-V GbE (10/100/1000 Mbps)		
后部 I/O Rear I/O	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485, Default RS232)		
	USB	4 × USB 3.2 (Gen2); 2 × USB 3.2 (Gen1), 2 × USB 2.0	4 × USB 3.2 (Gen2); 2 × USB 2.0	
	PS/2	/		
	扩展接口 Interface	1 × M.2 2280 slot, SATA/PCIe4 NVMe SSD	1 × M.2 2280 M Key (SATA or PCIe4 NVMe Gen4)	
内部接口 Internal I/O	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)		
	USB	1 × Vertical USB 2.0 type A 2 × USB 2.0; 2 × USB 3.1 Gen1	1 × Vertical USB 2.0 type A 2 × USB 2.0	
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	3 × SATA 3.0, 支持 RAID (0, 1, 5, 10)	
	GPIO	1 × 16bit programmable GPIO, default 8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in) 选配		
	FAN	1 × CPU Smart Fan 2 × System Smart Fan (4Pin support smart fan), BIOS侦测风扇状态		
	OS Recovery	1 × OS Recovery pin header		
	Remote SW	1 × 2pin pin header		
	安全 Security	1 × TPM 2.0 Module Extension		
	LAN LED	2 × LANLED connector		
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	300W / 500W / 650W / 850W ATX power	
		接口 Interface	24Pin ATX power, 8Pin ATX 12V power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)		
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing		
机构 Mechanical	尺寸 Dimension	330 × 300 × 175mm		
	安装方式 Mounting	桌面式 (Desk-Mount)		



产品研发型号 R&D Model		CIS-DADL-FASI (主板型号: CIB-IQ67-XA01)	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™ /Pentium®/ Celeron® LGA 1700 Socket Processors with TDP up to 65W	
	芯片组 Chipset	Intel® Q670 Chipset	
	内存 Memory	DDR4 3200 MHz 288-pin DIMM × 4 Max to 128GB (32GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen4), 2 × 16 slot, only support 1 × 16 or 2 × 8, 3 × PCIe × 4 (Gen4), 1 × PCIe × 1 (Gen3), 1 × PCI	
前部 I/O Front I/O	开关	1 × Power button w/LED	
	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 3 × Intel® I210-AT GbE (10/100/1000Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配	
	串口 COM	1 × COM (RS232/422/485 Default RS232)	
	USB	2 × USB 3.2 (Gen 2); 2 × USB 2.0 (Gen 1)	
	PS/2	/	
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 slot, SATA/NVME PCIe × 4 (Gen4) SSD	
	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)	
	USB	1 × Vertical USB 3.2 Gen1 type A 2 × USB 2.0; 2 × USB 3.2 (Gen1); 2 × USB 3.2 (Gen2)	
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	
	GPIO	1 × 16bit programmable GPIO, default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in) 选配	
	FAN	1 × CPU fan (4Pin support smart fan); 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态	
	OS Recovery	1 × OS Recovery pin header	
	Remote SW	1 × 2pin pin header	
	Security	1 × TPM 2.0 Module Extension	
	LAN LED	2 × LANLED connector (pitch 2.54)	
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED	
	电源 Power	电源输入 Power Input	ATX
		ATX power	300W / 500W / 650W / 850W ATX power
接口 Interface		24Pin ATX power, 8Pin ATX 12V power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	330 × 300 × 175mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-DADL-FASI (主板型号: CIB-IW68-XA01)	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™ /Pentium®/ Celeron® LGA 1700 Socket Processors with TDP up to 125W	
	芯片组 Chipset	Intel® W680 Chipset	
	内存 Memory	DDR5 4800/5600MHz 288-pin DIMM × 4, Max to 192GB (48GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen5), 3 × PCIe × 4 (Gen4), 1 × PCIe × 4 (Gen3), 2 × PCI	
前部 I/O Front I/O	开关	1 × Power button w/LED	
	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 3 × Intel® I210-AT GbE (10/100/1000Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配	
	串口 COM	1 × COM (RS232/422/485 Default RS232)	
	USB	2 × USB 3.2 (Gen 2); 6 × USB 2.0 (Gen 1)	
	PS/2	/	
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 slot, NVME PCIe × 4 (Gen4) SSD	
	串口 COM	1 × COM (RS232/422/485, Default RS232); 4 × COM (RS232)	
	USB	2 × Vertical USB 2.0 type A 2 × USB 3.2 (Gen1); 2 × USB 2.0	
	SATA	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	
	GPIO	1 × 16bit programmable GPIO, default 为 8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in) 选配	
	FAN	1 × CPU fan (4Pin support smart fan); 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态	
	OS Recovery	1 × OS Recovery pin header	
	Remote SW	1 × 2pin pin header	
	Security	1 × TPM 2.0 Module Extension	
	LAN LED	2 × LANLED connector (pitch 2.54)	
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED	
	电源 Power	电源输入 Power Input	ATX
		ATX power	300W / 500W / 650W / 850W ATX power
接口 Interface		24Pin ATX power, 8Pin ATX 12V power	
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	330 × 300 × 175mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	



产品研发型号 R&D Model		CIS-DADL-FAS1 (主板型号: CIB-IH61-XA01)	
系统 System	处理器 Processor	Intel® 12th/13th/14th Generation Core™/Pentium®/Celeron® LGA 1700 Socket Processors With TDP up to 125W	
	芯片组 Chipset	Intel® H610 Chipset	
	内存 Memory	DDR4 3200 MHz 288-pin DIMM × 2 Max to 64GB (32GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 10 64bit; Windows 11 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen4) 1 × PCIe × 4 (Gen3) (Bom Option: 可切换PCIe × 2, Other PCIe × 2 for M.2 Nvme) 1 × PCIe × 2 (Gen3); 4 × PCI	
前部 I/O Front I/O	开关	1 × Power button w/LED	
	LED	1 × HDD LED	
	USB	2 × USB 2.0	
	OS Recovery	1 × OS Recovery	
	Fan	1 × 12025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配	
	串口 COM	1 × COM (RS232/422/485 Default RS232); 1 × COM (RS232)	
	USB	4 × USB 3.2 (Gen 1); 2 × USB 2.0	
	PS/2	/	
	扩展接口 Interface	1 × M.2 2280 slot (SATA./NVMe PCIe × 2) (Bom Option 切换NVMe × 2, PCIe × 2 from PCIe × 4 slot)	
内部接口 Internal I/O	串口 COM	4 × COM (RS232) pin header	
	USB	2 × Vertical USB 2.0 type A 2 × USB 2.0 (2 × 5Pin 2.54mm pitch)	
	SATA	4 × SATA 3.0 (up to 6Gb/s) (当M.2为SATA信号时, SATA为3, 当为NVMe × 2时, SATA Connectors数量为4)	
	GPIO	1 × 16bit programmable GPIO, default 为8in/8out	
	Audio	1 × Front Audio (Line-out/Mic-in) 选配	
	FAN	1 × CPU fan (4Pin support smart fan); 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态	
	OS Recovery	1 × OS Recovery pin header	
	Remote SW	1 × 2pin pin header	
	Security	1 × TPM 2.0 Module Extension	
	LAN LED	2 × LANLED connector (pitch 2.54)	
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED	
	电源 Power	电源输入 Power Input	ATX
		ATX power	300W / 500W / 650W / 850W ATX power
接口 Interface		24Pin ATX power, 8Pin ATX 12V power	
环境 Environmental	操作温度 Operating Temp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露 Non-condensing	
机构 Mechanical	尺寸 Dimension	330 × 300 × 175mm	
	安装方式 Mounting	桌面式 (Desk-Mount)	

4U 上架型工业计算机整机



引领工业自动化发展浪潮

适用工业全方面使用场景



卓越性能



稳定质量



外观设计

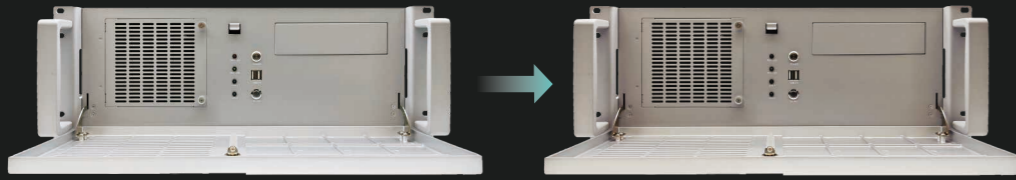


人性化设计

扫码了解更多



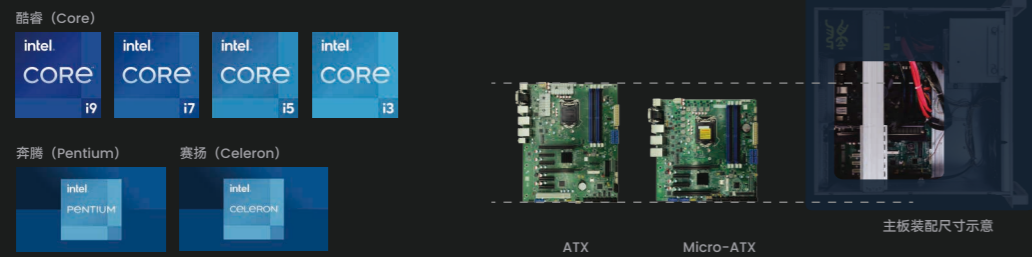
■ 重塑外观，赋予 4U 更挺拔的生命力，着重突出人性化设计。



前面板采用轻量化设计，铝合金压铸一体成型工艺，带来高强度和耐用性。提供更好的安全性，**杜绝非法操作**对工作进程造成影响。旋转铰链¹的作用包括连接和支撑、转动和开合、限制运动范围、调节力量，以及节省空间。

机身由优质 SGCC 环保钢材制成，粉体烤漆膜厚 $68\mu\text{m}$ ²，防腐性强且视觉美观，以良好的电磁屏蔽性能保护设备内部硬件。

■ 算力澎湃，灵活配置，延展性极强，满足多种应用需求。

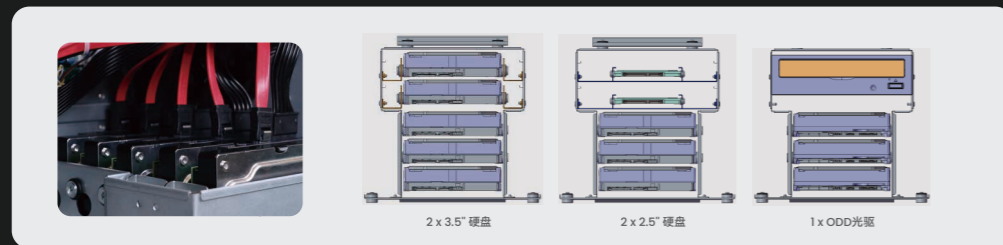


覆盖三大级别处理器，延展性强，通用性高，计算能力强大³，箱体兼容 ATX / Micro ATX 多规格工业级主板。

标准 ATX 主板尺寸：30.5 x 24.4cm。

Micro-ATX 主板尺寸包含：24.4 x 24.4cm / 24.4 x 18.5cm / 24.4 x 22.5cm 等，可同时兼容 Mini-ATX。³

■ 多硬盘灵活布局和超强存储拓展，HDD 模组可转化



5个
3.5"机械硬盘

满载机械硬盘的 4U 箱体电脑，行业 TOP 级数据吞吐能力。
硬盘位不占用额外空间，**最大100T存储扩展**，支持高阶存储应用场景。

已通过3轴2G震动的可靠性测试，上部 2x 3.5" 硬盘可以转换为：
2x 2.5" 硬盘 或 1x ODD 光驱；支持多种配置变化，适应不同场景。⁴

¹“旋转铰链”涉及的款式为带有前面板挡板的外观版本。

²业内普遍使用 70 ~ 150 μm 烤漆膜厚度，厚度过厚或过薄都会导致涂层质量下降。过薄容易破裂和剥落，导致涂层无法发挥保护作用；而过厚则会增加产品的成本，降低生产效率。

³Intel® Core™ / Pentium® / Celeron® 级别处理器查询地址：<https://www.intel.cn/content/www/cn/zh/support/products/873/processors.html#122139>。

⁴如3D结构图所示，下部 3 x 3.5" 硬盘保持不变，上部可进行模组转化，以实际装配情况为准。



产品研发型号 R&D Model		CIS-DSKL-FAR1 (主板型号: CIB-IH11-XA01)	
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Intel® Core™ / Pentium® / Celeron® LGA 1151 Socket Processors with TDP up to 95W	
	芯片组 Chipset	Intel® H110 Chipset	
	内存 Memory	DDR4 2133/2400/2666 MHz 288-pin DIMM × 2, Max to 32GB	
	BIOS	AMI 128Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics	
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3) 1 × PCIe × 4 (Gen2) 5 × PCI	
	开关/LED	1 × Power Button, 1 × OS Recovery Button, 1 × Power LED, 1 × HDD LED, 2 × LAN LED	
前部 I/O Front I/O	USB	2 × USB 2.0	
	可扩展	1 × 5.25" 光驱位	
	FAN	1 × I2025 system fan (可替换式过滤网)	
后部 I/O Rear I/O	网卡 Ethernet	2 × RJ45 Controller1 Intel® I210-AT GbE (10/100/1000 Mbps) Controller2 Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × VGA: max resolution up to 1920 × 1200@60Hz 1 × HDMI: max resolution up to 4096 × 2160@24Hz 1 × DVI-D: max resolution up to 1920 × 1200@60Hz Support 双屏异显	
	音频 Audio	1 × Line-in, 1 × Line-out, 1 × Mic-in, 选配, 默认不上件	
	串口 COM	1 × COM (RS232/422/485 auto-flow)	
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0	
	FAN	1 × 8025 system fan	
	PS/2	1 × PS/2 接口	
	内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 slot (与 SATA1 复用)
		COM	1 × COM (RS232/422/485 auto-flow) pin header; 4 × COM (RS232) pin header
		USB	1 × Vertical USB 2.0 type A
SATA		4 × SATA 3.0 (up to 6Gb/s)	
GPIO		1 × 16bit programmable GPIO, default 为 8in/8out	
Audio		1 × Front Audio (Line-out/Mic-in) 默认不上件	
FAN		1 × CPU fan (4Pin support smart fan); 2 × System fan (4Pin support smart fan), BIOS 侦测风扇状态	
OS Recovery		1 × OS Recovery	
Remote SW		/	
安全 Security		1 × TPM 2.0 pin header	
LAN LED		1 × LAN LED connector (pitch 2.54)	
Front panel		1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED	
电源 Power		电源输入 Power Input	ATX
	ATX power	300W / 500W / 650W / 850W / 1250W ATX power, support Redundant Power System	
	接口 Interface	24Pin ATX power, 8Pin ATX 12V power	
环境 Environmental	操作温度 Operating Temp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH, 非凝状态 Non-condensing	
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm	
	安装方式 Mounting	上架式 (Rack-Mount)	



产品研发型号 R&D Model		CIS-DSKL-FARI (主板型号: CIB-IQ17-XA01)
系统 System	处理器 Processor	Intel® 6th/7th/8th/9th Generation Intel® Core™ /Pentium®/ Celeron® LGA 1151 Socket Processors with TDP up to 95W
	芯片组 Chipset	Intel® Q170 Chipset
	内存 Memory	DDR4 2400/2666/2933 MHz 288-pin DIMM × 4, Max to 64GB (16GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash
	图形 Graphics	Intel® Integrated Graphics
	操作系统 OS	Windows 7 32/64bit; Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3), 2 × 16 slot, only support 1 × 16 or 2 × 8 2 × PCIe × 4 (Gen3) 3 × PCI
前部 I/O Front I/O	开关/LED	1 × Power Button, 1 × OS Recovery Button, 1 × Power LED; 1 × HDD LED; 2 × LAN LED
	USB	2 × USB 2.0
	可扩展	1 × 5.25" 光驱位
	FAN	1 × 12025 system fan (可替换式过滤网)
后部 I/O Rear I/O	网口 Ethernet	4 × RJ45 1 × Intel® I219-V GbE (10/100/1000 Mbps) 3 × Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件
	串口 COM	1 × COM (RS232/422/485 auto-flow)
	USB	4 × USB 3.2 (Gen1)
	FAN	1 × 8025 system fan
	PS/2	/
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 slot support SATA SSD only
	COM	1 × COM (RS232/422/485 auto-flow) pin header; 4 × COM (RS232) pin header
	USB	1 × Vertical USB 2.0 type A; 4 × USB 2.0 (2 × 5Pin 2.54mm pitch); 2 × USB 3.2 Gen1 (1Pin header)
	SATA	5 × SATA 3.0 (up to 6Gb/s), 支持RAID 0, 1, 5, 10
	GPIO	1 × 16bit programmable GPIO, default 为8in/8out
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件
	FAN	1 × CPU fan (4Pin support smart fan); 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态
	OS Recovery	1 × OS Recovery
	Remote SW	1 × 2pin pin header
	安全 Security	1 × TPM 2.0 pin header
	LAN LED	2 × LANLED connector (pitch 2.54)
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED
	电源 Power	电源输入 Power Input
ATX power		300W / 500W / 650W / 850W / 1250W ATX power, support Redundant Power System
接口 Interface		24Pin ATX power, 8Pin ATX 12V power
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)
	存储温度 Storage Temp	-40°C ~ 60°C
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)
	存储湿度 Storage relative Humidity	60°C 95%RH, 非凝结状态Non-condensing
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm
	安装方式 Mounting	上架式 (Rack-Mount)



产品研发型号 R&D Model		CIS-DSKL-FARI (主板型号: CIB-I239-XA01)
系统 System	处理器 Processor	Intel® 6th/8th/9th Generation Core™ /Pentium®/ Celeron® Processors with TDP up to 95W
	芯片组 Chipset	Intel® Z390 Chipset
	内存 Memory	4 × DDR4 2400/2666MHz U-DIMM, Max to 128GB (32GB per DIMM)
	BIOS	AMI 128Mbit SPI Flash
	图形 Graphics	Intel® Integrated Graphics
	操作系统 OS	Windows 10 64bit; Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen3) 3 × PCIe × 4 (Gen2) 3 × PCI
前部 I/O Front I/O	开关/LED	1 × Power Button, 1 × OS Recovery Button, 1 × Power LED, 1 × HDD LED, 2 × LAN LED
	USB	2 × USB 2.0
	可扩展	1 × 5.25" 光驱位
	FAN	1 × 12025 system fan (可替换式过滤网)
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I226-V GbE (10/100/1000/2500 Mbps)
	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz support 三个独立显示
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件
	串口 COM	1 × COM (RS232/422/485 auto-flow), 1 × COM (RS232)
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0
	FAN	1 × 8025 system fan
	PS/2	/
内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 M Key (SATA/NVMe PCIe × 4 自适应)
	COM	4 × COM (RS232) pin header
	USB	2 × Vertical USB 2.0 type A; 2 × USB 2.0; 2 × USB 3.2 Gen1
	SATA	4 × SATA 3.0 (up to 6Gb/s), 支持RAID 0, 1, 5, 10
	GPIO	1 × 16bit programmable GPIO, default 为8in/8out
	Audio	1 × Front Audio (Line-out/Mic-in)
	FAN	1 × CPU fan (4Pin support smart fan); 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态
	OS Recovery	1 × OS Recovery
	Remote SW	1 × 2pin pin header
	安全 Security	1 × TPM 2.0 pin header
	LAN LED	1 × LANLED connector (pitch 2.54)
	Front panel	1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED
	电源 Power	电源输入 Power Input
ATX power		300W / 500W / 650W / 850W / 1250W ATX power, support Redundant Power System
接口 Interface		24Pin ATX power, 8Pin ATX 12V power
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)
	存储温度 Storage Temp	-40°C ~ 60°C
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)
	存储湿度 Storage relative Humidity	60°C 95%RH, 非凝结状态Non-condensing
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm
	安装方式 Mounting	上架式 (Rack-Mount)



产品研发型号 R&D Model		CIS-DCML-FAR1 (主板型号: CIB-IQ47-XA01)	CIS-DCML-FAR1 (主板型号: CIB-IQ47-XA02)	
系统 System	处理器 Processor	Intel® 10th/11th Generation Core™ i9/i7/i5/i3/Pentium/Celeron processor up to 125W		
	芯片组 Chipset	Intel® Q470 Chipset		
	内存 Memory	DDR4 2666/2933 MHz 288-pin DIMM × 4 Max to 128GB (32GB per DIMM)	DDR4 2666/2933 MHz UDIMM × 4 Max to 128GB (32GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
	扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen3), 2 × 16 slot, only support 1 × 16 or 2 × 8 2 × PCIe × 4 (Gen3); 2 × PCIe × 1 (Gen1) 1 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 3 × PCIe × 4 (Gen3), 2 × PCI
开关/LED		1 × Power Button, 1 × OS Recovery Button, 1 × Power LED; 1 × HDD LED; 2 × LAN LED		
前部 I/O Front I/O	USB	2 × USB 2.0		
	可扩展	1 × 5.25" 光驱位		
	FAN	1 × 12025 system fan (可替换式过滤网)		
	网口 Ethernet	2 × RJ45 Controller1 Intel® I210-AT GbE (10/100/1000 Mbps) Controller2 Intel® I219-V GbE (10/100/1000 Mbps)		
后部 I/O Rear I/O	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	1 × Line-out, 1 × Mic-in	
	串口 COM	1 × COM (RS232/422/485 auto-flow)	1 × COM (RS232/422/485 Default RS232)	
	USB	4 × USB3.2 (Gen 2); 2 × USB3.2 (Gen 1); 2 × USB 2.0	4 × USB 3.2 (Gen 2); 2 × USB 2.0	
	FAN	1 × 8025 system fan		
	PS/2	/		
	扩展接口 Interface	1 × M.2 2280 slot, 支持 SATA/PCIe × 4 NVMe SSD	1 × M.2 2280 M Key (SATA or PCIe × 4 NVMe Gen4)	
	COM	1 × COM (RS232/422/485 auto-flow) pin header 4 × COM (RS232) pin header	1 × COM (RS232/422/485 Default RS232) 4 × COM (RS232)	
	USB	1 × Vertical USB 2.0 type A; 2 × USB 2.0 2 × USB3.2 Gen 1 (Pin header)	1 × Vertical USB 2.0 type A 2 × USB 2.0	
	SATA	4 × SATA 3.0 (up to 6Gb/s), 支持 RAID 0, 1, 5, 10	3 × SATA 3.0, 支持 RAID (0, 1, 5, 10)	
内部接口 Internal I/O	GPIO	1 × 16bit GPIO, Default 为8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU fan (4Pin support smart fan) 2 × System fan (4Pin support smart fan), BIOS侦测风扇状态	1 × CPU Smart Fan 2 × System Smart Fan	
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × 2pin pin header		
	安全 Security	1 × TPM 2.0 pin header		
	LAN LED	1 × LANLED connector (pitch 2.54)		
	Front panel	1 × Front panel (2 × 5 pin connector) 包含开关, reset, power/HDD LED		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	300W / 500W / 650W / 850W / 1250W ATX power, support Redundant Power System	
		接口 Interface	24Pin ATX power, 8Pin ATX 12V power	
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
		存储温度 Storage Temp	-40°C ~ 60°C	
		操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
		存储湿度 Storage relative Humidity	60°C 95%RH, 非凝结状态Non-condensing	
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm		
	安装方式 Mounting	上架式 (Rack-Mount)		



产品研发型号 R&D Model		CIS-DADL-FAR1 (主板型号: CIB-IQ67-XA01)	CIS-DADL-FAR1 (主板型号: CIB-IQ67-XA02)	
系统 System	处理器 Processor	Intel® 12th / 13th Generation Core™ / Pentium® / Celeron® LGA 1700 Socket Processors with TDP up to 125W	Intel® 12th / 13th / 14th Generation Core™ / Pentium® / Celeron® Processors with TDP up to 125W	
	芯片组 Chipset	Intel® Q670 Chipset		
	内存 Memory	DDR4 3200 MHz 288-pin DIMM × 4, Max to 128GB (32GB per DIMM)	DDR4 3200MHz UDIMM × 4, Max to 128GB (32GB per DIMM)	
	BIOS	AMI 128Mbit SPI Flash	AMI 256Mbit SPI Flash	
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
	扩展接口 Expansion Slot	接口 Interface	2 × PCIe × 16 (Gen4), 2 × 16 slot, only support 1 × 16 or 2 × 8 3 × PCIe × 4 (Gen4), 1 × PCIe × 1 (Gen3), 1 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 3 × PCIe × 4 (Gen4), 2 × PCI
开关/LED		1 × Power Button, 1 × OS Recovery Button, 1 × Power LED; 1 × HDD LED; 2 × LAN LED		
前部 I/O Front I/O	USB	2 × USB 2.0		
	可扩展	1 × 5.25" 光驱位		
	FAN	1 × 12025 system fan (可替换式过滤网)		
	网口 Ethernet	4 × RJ45 3 × Intel® I210-AT GbE (10/100/1000Mbps) 1 × Intel® I219-V GbE (10/100/1000Mbps)	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000Mbps) LAN2: Intel® I210-AT GbE (10/100/1000Mbps)	
后部 I/O Rear I/O	显示 Display	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显		
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配, 默认不上件	1 × Line-out, 1 × Mic-in, 选配	
	串口 COM	1 × COM (RS232/422/485 auto-flow)	2 × COM (RS232/422/485 Default RS232)	
	USB	2 × USB3.2 (Gen 2); 1 × USB3.2 (Gen 1)	2 × USB3.2 (Gen 2); 6 × USB3.2 (Gen 1)	
	FAN	1 × 8025 system fan		
	PS/2	/		
	扩展接口 Interface	1 × M.2 2280 slot, SATA/NVME PCIe × 4 (Gen4) SSD	1 × M.2 2280 M Key (SATA or PCIe4 NVMe Gen4)	
	COM	1 × COM (RS232/422/485 auto-flow) pin header 4 × COM (RS232) pin header	4 × COM (RS232)	
	USB	1 × Vertical USB 3.2 Gen1 type A; 2 × USB 2.0 (Pin header) 2 × USB 3.2 Gen1 (Pin header); 2 × USB 3.2 Gen2 (Pin header)	2 × Vertical USB 2.0 type A 2 × USB 3.2 (Gen1); 2 × USB 2.0	
	SATA	4 × SATA 3.0 (up to 6Gb/s), 支持 RAID 0, 1, 5, 10	4 × SATA 3.0, 支持 RAID 0, 1, 5, 10	
内部接口 Internal I/O	GPIO	1 × 16bit programmable GPIO, default 为8in/8out		
	Audio	1 × Front Audio (Line-out/Mic-in) 默认不上件	1 × Front Audio (Line-out/Mic-in)	
	FAN	1 × CPU fan (4Pin support smart fan) 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态	1 × CPU Smart Fan 3 × System Smart Fan	
	OS Recovery	1 × OS Recovery		
	Remote SW	1 × 2pin pin header		
	安全 Security	1 × TPM 2.0 pin header		
	LAN LED	1 × LANLED connector (pitch 2.54)		
	Front panel	1 × Front panel (2 × 5 pin connector) 包含开关, reset, power/HDD LED		
	电源 Power	电源输入 Power Input	ATX	
		ATX power	300W / 500W / 650W / 850W / 1250W ATX power, support Redundant Power System	
		接口 Interface	24Pin ATX power, 8Pin ATX 12V power	
	环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
		存储温度 Storage Temp	-40°C ~ 60°C	
		操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
		存储湿度 Storage relative Humidity	60°C 95%RH, 非凝结状态Non-condensing	
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm		
	安装方式 Mounting	上架式 (Rack-Mount)		



产品研发型号 R&D Model	CIS-DADL-FARI (主板型号: CIB-IW68-XA01)	CIS-DADL-FARI (主板型号: CIB-IW68-XA02)		
系统 System	处理器 Processor	Intel® 12th / 13th / 14th Generation Core™ / Pentium® / Celeron® LGA 1700 Socket Processors with TDP up to 125W		
	芯片组 Chipset	Intel® W680 Chipset		
	内存 Memory	DDR5 4800/5600MHz 288-pin DIMM × 4, Max to 192GB (48GB per DIMM)		
	BIOS	AMI 128Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen5), 3 × PCIe × 4 (Gen4), 1 × PCIe × 4 (Gen3), 2 × PCI	2 × PCIe × 16 (Gen3, 1 × 16 or 2 × 8) 3 × PCIe × 4 (Gen4), 2 × PCI	
前部 I/O Front I/O	开关/LED	1 × Power Button, 1 × OS Recovery Button, 1 × Power LED 1 × HDD LED; 2 × LAN LED		
	USB	2 × USB 2.0		
	可扩展	1 × 5.25" 光驱位		
	FAN	1 × 12025 system fan (可替换式过滤网)		
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps)	2 × RJ45 LAN1: Intel® I219-V GbE (10/100/1000 Mbps) LAN2: Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: Up to 4096 × 2160@30Hz 1 × VGA: Up to 1920 × 1200@60Hz 支持三屏异显 (eDP选配)	
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配		
	串口 COM	1 × COM (RS232/422/485 auto-flow)		
	USB	2 × USB3.2 (Gen 2); 6 × USB3.2 (Gen 1)		
	FAN	1 × 8025 system fan		
	PS/2	/		
	内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 slot, NVMe PCIe × 4 (Gen4) SSD	1 × M.2 2280 M Key (SATA or PCIe4 NVMe) 1 × M.2 2280 M Key (PCIEx4 NVMe Gen4)
COM		1 × COM (RS232/422/485 auto-flow) pin header 4 × COM (RS232) pin header	1 × COM (RS232/422/485 Default RS232) 4 × COM (RS232)	
USB		2 × Vertical USB 2.0 type A; 2 × USB 3.2 Gen1 (Pin header) 4 × USB 2.0 (Pin header)	2 × Vertical USB 2.0 type A; 2 × USB 3.2 (Gen1) 2 × USB 2.0	
SATA		4 × SATA 3.0 (up to 6Gb/s), 支持 RAID 0, 1, 5, 10		
GPIO		1 × 16bit GPIO, Default 为8in/8out		
Audio		1 × Front Audio (Line-out/Mic-in) 默认不上件		
FAN		1 × CPU fan (4Pin support smart fan) 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态	1 × CPU Smart Fan 3 × System Smart Fan	
OS Recovery		1 × OS Recovery		
Remote SW		1 × 2pin pin header		
安全 Security		1 × TPM 2.0 pin header		
LAN LED		1 × LAN LED connector (pitch 2.54)	1 × LAN LED	
Front panel		1 × Front panel (2 × 5 pin connector) 包含开关, reset, power/HDD LED		
电源 Power		电源输入 Power Input	ATX	
		ATX power	300W / 500W / 650W / 850W / 1250W ATX power, support Redundant Power System	
	接口 Interface	24Pin ATX power, 8Pin ATX 12V power		
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)		
	存储湿度 Storage relative Humidity	60°C 95%RH, 非凝结状态Non-condensing		
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm		
	安装方式 Mounting	上架式 (Rack-Mount)		



产品研发型号 R&D Model	CIS-DADL-FARI (主板型号: CIB-IH61-XA01)			
系统 System	处理器 Processor	Intel® 12th / 13th / 14th Generation Core™ / Pentium® / Celeron® LGA 1700 Socket Processors with TDP up to 125W		
	芯片组 Chipset	Intel® H610 Chipset		
	内存 Memory	DDR4 2666/3200MHz 288-pin DIMM × 2, Max to 64GB (32GB per DIMM)		
	BIOS	AMI 128Mbit SPI Flash		
	图形 Graphics	Intel® Integrated Graphics		
	操作系统 OS	Windows 10 64bit; Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	接口 Interface	1 × PCIe × 16 (Gen4), 1 × PCIe × 4 (Gen3), (Bom Option 切换 PCIe × 2, Other 2 Lanes for M.2 NVme PCIe × 2) 1 × PCIe × 2 (Gen3), 4 × PCI		
前部 I/O Front I/O	开关/LED	1 × Power Button, 1 × OS Recovery Button, 1 × Power LED, 1 × HDD LED, 2 × LAN LED		
	USB	2 × USB 2.0		
	可扩展	1 × 5.25" 光驱位		
	FAN	1 × 12025 system fan (可替换式过滤网)		
后部 I/O Rear I/O	网口 Ethernet	2 × RJ45 1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps)	2 × RJ45 1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × DP++ max resolution up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	1 × DP++ Up to 4096 × 2304@60Hz 1 × HDMI: max resolution up to 4096 × 2160@30Hz 1 × VGA: max resolution up to 1920 × 1200@60Hz support 三个独立显示	
	音频 Audio	1 × Line-out, 1 × Mic-in, 选配		
	串口 COM	1 × COM (RS232/422/485 auto-flow), 1 × COM (RS232)		
	USB	4 × USB 3.2 (Gen1); 2 × USB 2.0		
	FAN	1 × 8025 system fan		
	PS/2	/		
	内部接口 Internal I/O	扩展接口 Interface	1 × M.2 2280 slot (SATA, NVMe PCIe × 2) (Bom Option 切换 NVMe × 2, PCIe 2 lanes from PCIe × 4 Connector)	
COM		4 × COM (RS232) pin header		
USB		2 × Vertical USB 2.0 type A; 2 × USB 2.0 (Pin header)		
SATA		4 × SATA 3.0 (up to 6Gb/s) (当 M.2 为 SATA 信号时, SATA Connector 为 3, 当 NVMe × 2 时, SATA Connector 为 4)		
GPIO		1 × 16bit programmable GPIO, default 为8in/8out		
Audio		1 × Front Audio (Line-out/Mic-in) 默认不上件		
FAN		1 × CPU fan (4Pin support smart fan); 3 × System fan (4Pin support smart fan), BIOS侦测风扇状态		
OS Recovery		1 × OS Recovery		
Remote SW		1 × 2pin pin header		
安全 Security		1 × TPM 2.0 pin header		
LAN LED		1 × LANLED connector (pitch 2.54)		
Front panel		1 × Front panel (2 × 5 pin connector); 包含开关, reset, power/HDD LED		
电源 Power		电源输入 Power Input	ATX	
		ATX power	300W / 500W / 650W / 850W / 1250W ATX power, support Redundant Power System	
	接口 Interface	24Pin ATX power, 8Pin ATX 12V power		
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)		
	存储湿度 Storage relative Humidity	60°C 95%RH, 非凝结状态Non-condensing		
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm		
	安装方式 Mounting	上架式 (Rack-Mount)		



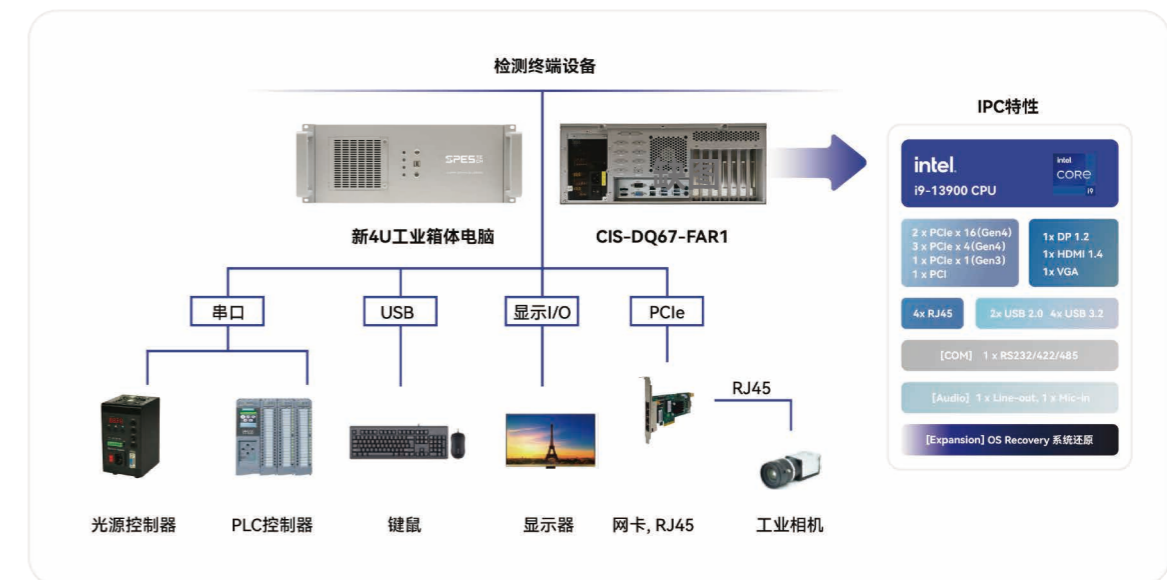
产品研发型号 R&D Model	CIS-DHG4-FARI (主板型号: CIB-H340-XA01)		
系统 System	处理器 Processor	海光4号3450, 8核, 主频3.6GHz, TDP 70W	
	内存 Memory	4 × U-DIMM 5200Mbps Max 128G(ECC&Non ECC)	
	BIOS	AMI 256Mbit SPI Flash	
	图形 Graphics	主板 onboard 显示芯片(优先)/支持 PCIe 拓展显卡	
	操作系统 OS	银河麒麟V10, 统信UOS-V20, Windows	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	接口 Interface	2 × PCIe4.0 × 16Slot (8Lanes*2) 3 × PCIe3.0 × 4Slot (4Lanes*1, 2Lanes*1, 1Lanes*1) 2 × PCI	
	开关/LED	1 × Power Button, 1 × OS Recovery Button, 1 × Power LED, 1 × HDD LED	
前部 I/O Front I/O	USB	2 × USB 2.0	
	FAN	1 × 12025 system fan (可替换式过滤网)	
	网口 Ethernet	2 × RJ45 LAN1/LAN2 10/100/1000M以太网接口	
后部 I/O Rear I/O	显示 Display	1 × HDMI, 1 × DP 1 × VGA接口, 最高支持1920*1080@60Hz	
	音频 Audio	1 × Line-out, 1 × Mic-in	
	串口 COM	2 × COM (RS232/RS485/RS422)	
	USB	8 × USB3.2 Gen1 Type-A (5Gbps)	
	FAN	1 × 8025 system fan	
	扩展接口 Interface	1 × M.2 2280 SSD插槽, 支持SATA3.0 (默认上件)	
内部接口 Internal I/O	COM	4 × COM (RS232)	
	USB	2 × USB2.0 (1 × 2*5Pin Header) 2 × USB2.0 Type-A	
	SATA	3 × SATA3.0 (默认SATA4不上件)	
	GPIO	8 bit (1 × 2*5Pin)	
	Audio	1 × Front Audio(Line-out/Mic-in)	
	FAN	1 × CPU Smart Fan 2 × System Smart Fan	
	OS Recovery	1 × 2Pin金针	
	Remote SW	1 × 2Pin金针	
	安全 Security	1 × 2*7Pin金针插座 TCM接口	
	LAN LED	1 × eBMC模块接口 (选配)	
	Front panel	1 × Front panel (2 × 5 pin connector) 包含开关, reset, power/HDD LED	
	电源 Power	电源输入 Power Input	ATX
		ATX power	300W / 500W / 550W ATX power
		接口 Interface	24Pin ATX power, 8Pin ATX 12V power
环境 Environmental	操作温度 OperatingTemp	0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	40°C 95%RH (HDD)	
	存储湿度 Storage relative Humidity	60°C 95%RH, 非凝结状态Non-condensing	
	随机振动 Random Vibration	5-500Hz, 2Grms (SSD) operation, 5-500Hz, 1Grms (HDD) operation	
	正弦振动 Sine Vibration	5-500Hz, 2G Non-operation	
	机械冲击 Shock	Operation: 10G@11ms; Non-operation: 20G@11ms	
机构 Mechanical	尺寸 Dimension	512 × 482 × 177 mm	
	安装方式 Mounting	上架式 (Rack-Mount)	

3C 制造视觉检测运控解决方案

赋能 3C 行业品质提升，工控机让计算机视觉大有可为。

相比于人眼观测，机器视觉具有精确性强、速度快、客观性高、检测效果稳定等优点，是工业制造数字化、网络化、智能化的未来发展方向之一。

当前我国机器视觉新质生产力正在加速推进，例如 3C 产品的缺陷检测，经过技术研发、产品创新和市场应用的不断迭代发展，机器视觉检测的集成技术不断精进，检测效率不断提升，**本方案使用 CIS-DQ67-FARI 4U 工业计算机整机：**



- Intel® i9-13900 CPU，36M 高速缓存，睿频最高可达 5.60 GHz，保障控制系统精准、稳定运行，多核运满足多线程计算要求；
- 极强扩展性实现外接光源控制器、工业相机、显示器等多功能模块，可靠的箱体内部散热空间，保持稳定运行；
- SGCC钢材机身，良好的抗腐蚀性和坚韧性，7*24 小时持续稳定工作，具备较强的环境适应性。



扫码查看更多IPC方案

工业平板电脑

Industrial Panel PC

完备平台支持

工业平板电脑，拥有完备的功能、轻巧的机身，可搭配 Raptor Lake U / Celeron J1900 / Elkhart Lake / Tiger Lake UP3 / Rockchip 等平台满足不同性能需要，部分机型可搭配风扇。

完备平台支持



精巧机身

屏幕支持多尺寸 TFT LCD 搭配五线式电阻触摸屏 / 十点投射式电容触摸屏，采用 12~24V 或 9~36V 宽压供电，采用密封结构，前面板支持 IP65 等级防尘防水且带有电源侦测 LED 显示，支持 WiFi、4G 模块扩展，支持 USB 自我恢复功能，具备“OS Recovery”功能，可有效降低售后维护费用。

精巧机身

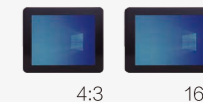


助推工业物联网数智化升级

- 电容 / 电阻全平面显示屏
LED 状态灯显示产品状态
- 一体化压铸成型
仿生散热鳍片 / 不惧高温环境
- 无风扇被动散热
避免灰尘积聚 / 提升整体散热性能
- 多 I/O 接口与存储设计
覆盖大部分工业应用场景 / 使用无忧
- 前面板 IP65 级防尘防水
OS Recovery / 降低维护成本



防护等级 多种平台

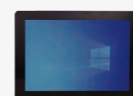


9 种尺寸



7 类平台

J1900, Tiger lake UP3,
Elkhart Lake J6412/J6413,
Raptor Lake, N97/N95,
Coffee Lake, ARM架构



正视图



背视图



左视图



后视图



10.1"



12.1"



15"



15.6"



17"



19"



21.5"

* 屏幕比例是以显示器实际可视画面的对角线为基准进行测量，实际尺寸因配置和制造工艺的不同可能略有差异。

** 展示内容仅作参考，实物效果（包括但不限于外观、颜色、尺寸）和展示内容（背景、配图、装饰元素）等可能略有差异，请以实际出货为准。

产品研发型号 R&D Model		CIP-W10T-J191	CIP-S12R-J191
系统 System	处理器 Processor	Intel® Bay Trail Celeron® J1900 processor (2.00 GHz)	
	内存 Memory	1 × DDR3L 1600MT/s, SO-DIMM slot, up to 8GB	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	Windows7 32/64bit, Windows10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	网口 Ethernet	2 × Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × HDMI: max resolution up to 1920 × 1200	
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1), 选配	
	串口 COM	2 × COM (RS232/422/485 auto-flow)	
	USB	1 × USB 3.2 Gen1, 5 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF	
	电源输入 Power Input	1 × Phoenix 2Pin	
	电源开关 Power SW	1 × Power button w/ LED	
	OS Recovery	1 × OS Recovery button	
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot 1 × SIM Card Slot	
	COM	2 × COM (RS232)	
	USB	2 × USB 2.0	
	SATA	1 × SATA and SATA power	
	扬声器 Speaker	2 × SPK 3.2W & 4Ω	
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
显示屏 LCD Screen	尺寸 Dimension	10.1"	12.1"
	分辨率 Resolution	1280 (H) × 800 (V)	1024 (H) × 768 (V)
	屏幕宽高比 Aspect Ratio	16:10	4:3
	亮度 Luminance	500 nits	500 nits
	对比度 Contrast Ratio	1300:1	1200:1
背光寿命 Backlight Life	30000Hrs	50000Hrs	
电源 Power	电源输入 Power Input	12~24V DC-in	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 55°C (SSD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
	前面板防护等级 Front Panel IP Rating	IP65	
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
	尺寸 Dimension	276 × 188.9 × 62.8mm	317 × 246 × 64.5 mm
	建议开孔尺寸 Recommended Opening Size	263.5 × 176.4mm	308.5 × 237.5 mm

产品研发型号 R&D Model		CIP-S15R-J191	CIP-W15T-J191	CIP-W21R-J191
系统 System	处理器 Processor	Intel® Bay Trail Celeron® J1900 processor (2.00 GHz)		
	内存 Memory	1 × DDR3L 1600MT/s, SO-DIMM slot, up to 8GB		
	BIOS	AMI 128Mbit SPI Flash		
	操作系统 OS	Windows7 32/64bit, Windows10 64bit, Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	网口 Ethernet	2 × Intel® I210-AT GbE (10/100/1000 Mbps)	2 × Intel® I210-AT GbE (10/100/1000 Mbps)	
	显示 Display	1 × HDMI: max resolution up to 1920 × 1200		
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1), 选配	1 × Audio (Line-out & Mic-in 2 in 1), 选配	
	串口 COM	2 × COM (RS232/422/485 auto-flow); 2 × COM (RS232)		
	USB	1 × USB 3.2 Gen1, 5 × USB 2.0	1 × USB 3.2 Gen1, 5 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF		
	电源输入 Power Input	1 × Phoenix 2Pin		
	电源开关 Power SW	1 × Power button w/ LED		
	OS Recovery	1 × OS Recovery button		
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot 1 × SIM Card Slot		
	COM	2 × COM (RS232)		
	USB	2 × USB 2.0		
	GPIO	1 × 8bit GPIO (可选)		
	SATA	1 × SATA and SATA power		
	扬声器 Speaker	2 × SPK 3.2W & 4Ω		
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch		
	触控 Touch	35,000,000 times		
显示屏 LCD Screen	尺寸 Dimension	15"	15.6"	21.5"
	分辨率 Resolution	1024 (H) × 768 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	4:3	16:9	16:9
	亮度 Luminance	350 nits	350 nits	300 nits
	对比度 Contrast Ratio	1000:1	800:1	3000:1
	背光寿命 Backlight Life	50000Hrs	50000Hrs	30000Hrs
电源 Power	电源输入 Power Input	12~24V DC-in		
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing		
	前面板防护等级 Front Panel IP Rating	IP65		
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)		
	尺寸 Dimension	365 × 290 × 65mm	404 × 254.1 × 68.4 mm	540.1 × 334.7 × 64.9 mm
	建议开孔尺寸 Recommended Opening Size	356.5 × 281.5 mm	392.2 × 242.3 mm	531.6 × 326.2 mm

产品研发型号 R&D Model		CIP-W10R-TLUI	CIP-S12R-TLUI
系统 System	处理器 Processor	Intel® 11th i5/i3 (Tiger lake UP3) i3-1115G4/i5-1135G7	Intel® 11th i5/i3 (Tiger lake UP3) i3-1115G4/i5-1135G7
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	Windows10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	网口 Ethernet	1 × Intel® I210-AT GbE (10/100/1000 Mbps) ; 1 × Intel® I219-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × HDMI: max resolution up to 4096 × 2160	
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)	
	串口 COM	2 × COM (RS232/422/485 auto-flow)	
	USB	4 × USB3.2 (Gen2) ; 2 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF	
	电源输入 Power Input	1 × Phoenix 2Pin	
	电源开关 Power SW	1 × Power button w/ LED	
	OS Recovery	1 × OS Recovery button	
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot for Wi-Fi 1 × SIM Card Slot	
	COM	2 × COM (RS232)	
	USB	2 × USB 2.0	
	SATA	1 × SATA and SATA power	
	扬声器 Speaker Speaker	2 × SPK 3.2W & 4Ω	
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
显示屏 LCD Screen	尺寸 Dimension	10.1"	12.1"
	分辨率 Resolution	1280 (H) × 800 (V)	1024 (H) × 768 (V)
	屏幕宽高比 Aspect Ratio	16:10	4:3
	亮度 Luminance	500 nits	500 nits
	对比度 Contrast Ratio	1300:1	1200:1
背光寿命 Backlight Life	30000Hrs	50000Hrs	
电源 Power	电源输入 Power Input	12-24V DC-in	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 55°C (SSD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
	尺寸 Dimension	269.9 × 217.5 × 64.5mm	317 × 246 × 64.5 mm
	建议开孔尺寸 Recommended Opening Size	261.4 × 209mm	308.5 × 237.5 mm

产品研发型号 R&D Model		CIP-S15R-TLUI	CIP-W15T-TLUI
系统 System	处理器 Processor	Intel® 11th i7/i5/i3 (Tiger Lake UP3) i3-1115G4/i5-1135G7/i7-1165G7	
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	Windows10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	网口 Ethernet	1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps) (可选配扩展至4千兆网口, 增加 2 × Intel® I210-AT GbE)	
	显示 Display	1 × HDMI: max resolution up to 4096 × 2160	
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)	
	串口 COM	2 × COM (RS232/422/485 auto-flow) ; 2 × COM (RS232)	
	USB	4 × USB3.2 (Gen2) ; 2 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF	
	电源输入 Power Input	1 × Phoenix 2Pin	
	电源开关 Power SW	1 × Power button w/ LED	
	OS Recovery	1 × OS Recovery button	
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot for Wi-Fi 1 × SIM Card Slot	
	COM	2 × COM (RS232)	
	USB	2 × USB 2.0	
	GPIO	1 × 8bit GPIO (可选)	
	SATA	1 × SATA and SATA power	
	扬声器 Speaker Speaker	2 × SPK 3.2W & 4Ω	
	OS Recovery	1 × OS Recovery button	
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
显示屏 LCD Screen	尺寸 Dimension	15"	15.6"
	分辨率 Resolution	1024 (H) x 768 (V)	1920 (H) x 1080 (V)
	屏幕宽高比 Aspect Ratio	4:3	16:9
	亮度 Luminance	350 nits	350 nits
	对比度 Contrast Ratio	1000:1	800:1
背光寿命 Backlight Life	50000Hrs	50000Hrs	
电源 Power	电源输入 Power Input	12-24V DC-in	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
	前面板防护等级 Front Panel IP Rating	IP65	
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
	尺寸 Dimension	365 × 290 × 65mm	404 × 254.1 × 68.4 mm
	建议开孔尺寸 Recommended Opening Size	356.5 × 281.5 mm	392.2 × 242.3 mm

产品研发型号 R&D Model		CIP-S17R-TLUI	CIP-S19R-TLUI
系统 System	处理器 Processor	Intel® 11th i7/i5/i3 (Tiger Lake UP3) i3-1115G4/i5-1135G7/i7-1165G7	
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	Windows10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	网口 Ethernet	1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps) (可选配扩展至4千兆网口, 增加 2 × Intel® I210-AT GbE)	
	显示 Display	1 × HDMI: max resolution up to 4096 × 2160	
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)	
	串口 COM	2 × COM (RS232/422/485 auto-flow); 2 × COM (RS232)	
	USB	4 × USB3.2 (Gen2); 2 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF	
	电源输入 Power Input	1 × Phoenix 2Pin	
	电源开关 Power SW	1 × Power button w/ LED	
	OS Recovery	1 × OS Recovery button	
	内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot for Wi-Fi 1 × SIM Card Slot
COM		2 × COM (RS232)	
USB		2 × USB 2.0	
GPIO		1 × 8bit GPIO (可选)	
SATA		1 × SATA and SATA power	
扬声器 Speaker		2 × SPK 3.2W & 4Ω	
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
显示屏 LCD Screen	尺寸 Dimension	17"	19"
	分辨率 Resolution	1280(H) × 1024(V)	1280(H) × 1024(V)
	屏幕宽高比 Aspect Ratio	4:3	4:3
	亮度 Luminance	250 nits	250 nits
	对比度 Contrast Ratio	1000:1	1000:1
	背光寿命 Backlight Life	30000Hrs	30000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
	前面板防护等级 Front Panel IP Rating	IP65	
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
	尺寸 Dimension	410.5 × 344 × 65 mm	444.2 × 374.2 × 65 mm
	建议开孔尺寸 Recommended Opening Size	402.2 × 335.7 mm	434.1 × 364.1 mm

产品研发型号 R&D Model		CIP-W18T-TLUI	CIP-W21T-TLUI
系统 System	处理器 Processor	Intel® 11th i7/i5/i3 (Tiger Lake UP3) i3-1115G4/i5-1135G7/i7-1165G7	
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	Windows10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	网口 Ethernet	1 × Intel® I210-AT GbE (10/100/1000 Mbps) 1 × Intel® I219-V GbE (10/100/1000 Mbps) (可选配扩展至4千兆网口, 增加 2 × Intel® I210-AT GbE)	
	显示 Display	1 × HDMI: max resolution up to 4096 × 2160	
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)	
	串口 COM	2 × COM (RS232/422/485 auto-flow); 2 × COM (RS232)	
	USB	4 × USB3.2 (Gen2); 2 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF	
	电源输入 Power Input	1 × Phoenix 2Pin	
	电源开关 Power SW	1 × Power button w/ LED	
	OS Recovery	1 × OS Recovery button	
	内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot for Wi-Fi 1 × SIM Card Slot
COM		2 × COM (RS232)	
USB		2 × USB 2.0	
GPIO		1 × 8bit GPIO (可选)	
SATA		1 × SATA and SATA power	
扬声器 Speaker		2 × SPK 3.2W & 4Ω	
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
显示屏 LCD Screen	尺寸 Dimension	18.5"	21.5"
	分辨率 Resolution	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	16:9	16:9
	亮度 Luminance	300 nits	300 nits
	对比度 Contrast Ratio	1000:1	3000:1
	背光寿命 Backlight Life	30000Hrs	30000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
	前面板防护等级 Front Panel IP Rating	IP65	
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
	尺寸 Dimension	467 × 288 × 65 mm	541.8 × 336.4 × 68.6 mm
	建议开孔尺寸 Recommended Opening Size	457.5 × 278.5 mm	531 × 325.6 mm

产品研发型号 R&D Model		CIP-W10T-ELK1	CIP-S12R-ELK1
系统 System	处理器 Processor	Intel® Elkhart Lake J6412/J6413 (4cores, 2.00 GHz)	
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	Windows10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	网口 Ethernet	2 × Intel® I226-V GbE (10/100/1000 Mbps)	
	显示 Display	1 × HDMI: max resolution up to 4096 × 2160	
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)	
	串口 COM	2 × COM (RS232/422/485 auto-flow)	
	USB	4 × USB3.2 (Gen2) ; 2 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF	
	电源输入 Power Input	1 × Phoenix 2Pin	
	电源开关 Power SW	1 × Power button w/ LED	
	OS Recovery	1 × OS Recovery button	
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot 1 × SIM Card Slot	
	COM	2 × COM (RS232)	
	USB	2 × USB 2.0	
	SATA	1 × SATA and SATA power	
	扬声器 Speaker Speaker	2 × SPK 3.2W & 4Ω	
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
显示屏 LCD Screen	尺寸 Dimension	10.1"	12.1"
	分辨率 Resolution	1280 (H) × 800 (V)	1024 (H) × 768 (V)
	屏幕宽高比 Aspect Ratio	16:10	4:3
	亮度 Luminance	500 nits	500 nits
	对比度 Contrast Ratio	1300:1	1200:1
	背光寿命 Backlight Life	30000Hrs	50000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 60°C (SSD)	-10°C ~ 55°C (SSD)
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	60°C 95%RH (SSD)	55°C 95%RH (SSD)
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
	前面板防护等级 Front Panel IP Rating	IP65	
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
	尺寸 Dimension	276 × 188.9 × 62.8mm	317 × 246 × 64.5mm
	建议开孔尺寸 Recommended Opening Size	263.5 × 176.4mm	308.5 × 237.5 mm

产品研发型号 R&D Model		CIP-S15R-ELK1	CIP-W15T-ELK1
系统 System	处理器 Processor	Intel® Elkhart Lake J6412/J6413 (4cores, 2.00 GHz)	
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB	
	BIOS	AMI 128Mbit SPI Flash	
	操作系统 OS	Windows10 64bit, Linux	
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min	
扩展接口 Expansion Slot	网口 Ethernet	2 × Intel® I226-V GbE (10/100/1000 Mbps) (可选配扩展至4千兆网口, 增加 2 × Intel® I210-AT GbE)	
	显示 Display	1 × HDMI: max resolution up to 4096 × 2160	
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)	
	串口 COM	2 × COM (RS232/422/485 auto-flow) ; 2 × COM (RS232)	
	USB	4 × USB3.2 (Gen2) ; 2 × USB 2.0	
	远程开关 Remote SW	1 × Remote ON-OFF	
	电源输入 Power Input	1 × Phoenix 2Pin	
	电源开关 Power SW	1 × Power button w/ LED	
	OS Recovery	1 × OS Recovery button	
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot 1 × SIM Card Slot	
	COM	2 × COM (RS232)	
	USB	2 × USB 2.0	
	GPIO	1 × 8bit GPIO (可选)	
	SATA	1 × SATA and SATA power	
	扬声器 Speaker Speaker	2 × SPK 3.2W & 4Ω	
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
显示屏 LCD Screen	尺寸 Dimension	15"	15.6"
	分辨率 Resolution	1024 (H) × 768 (V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	4:3	16:9
	亮度 Luminance	350 nits	350 nits
	对比度 Contrast Ratio	1000:1	800:1
	背光寿命 Backlight Life	50000Hrs	50000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in	
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)	
	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)	
	存储湿度 Storage elative Humidity	60°C 95%RH 非凝露Non-condensing	
	前面板防护等级 Front Panel IP Rating	IP65	
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
	尺寸 Dimension	365 × 290 × 65mm	404 × 254.1 × 68.4 mm
	建议开孔尺寸 Recommended Opening Size	356.5 × 281.5 mm	392.2 × 242.3 mm

产品研发型号 R&D Model		CIP-S17R-ELK1	CIP-S19R-ELK1	CIP-W21T-ELK1
系统 System	处理器 Processor	Intel® Elkhart Lake J6412/J6413 (4cores, 2.00 GHz)		
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB		
	BIOS	AMI 128Mbit SPI Flash		
	操作系统 OS	Windows10 64bit, Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	网口 Ethernet	2 × Intel® I226-V GbE (10/100/1000 Mbps) (可选配扩展至4千兆网口, 增加 2 × Intel® I210-AT GbE)		
	显示 Display	1 × HDMI: max resolution up to 4096 × 2160		
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)		
	串口 COM	2 × COM (RS232/422/485 auto-flow); 2 × COM (RS232)		
	USB	4 × USB3.2 (Gen1); 2 × USB 2.0		
	远程开关 Remote SW	1 × Remote ON-OFF		
	电源输入 Power Input	1 × Phoenix 2Pin		
	电源开关 Power SW	1 × Power button w/LED		
	OS Recovery	1 × OS Recovery button		
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot 1 × SIM Card Slot		
	COM	2 × COM (RS232)		
	USB	2 × USB 2.0		
	GPIO	1 × 8bit GPIO (可选)		
	SATA	1 × SATA and SATA power		
	扬声器 Speaker Speaker	2 × SPK 3.2W & 4Ω		
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch		
	触控 Touch	35,000,000 times		
显示屏 LCD Screen	尺寸 Dimension	17"	19"	21.5"
	分辨率 Resolution	1280 (H) × 1024 (V)	1280 (H) × 1024 (V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	'4:3	'4:3	'16:9
	亮度 Luminance	250 nits	250 nits	300 nits
	对比度 Contrast Ratio	1000:1	1000:1	3000:1
	背光寿命 Backlight Life	30000Hrs	30000Hrs	30000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in		
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing		
	前面板防护等级 Front Panel IP Rating	IP65		
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)		
	尺寸 Dimension	410.5 × 344 × 65 mm	444.2 × 374.2 × 65 mm	541.8 × 336.4 × 68.6 mm
	建议开孔尺寸 Recommended Opening Size	402.2 × 335.7 mm	434.1 × 364.1 mm	531 × 325.6 mm

产品研发型号 R&D Model		CIP-S15R-RPL1	CIP-W15T-RPL1	CIP-S17R-RPL1
系统 System	处理器 Processor	Intel® Core™ 13th i3/i5/i7 Raptor Lake ; i3-1215U/i3-1315U/ i5-1335U/ i7-1355U/i5-12450H		
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB		
	BIOS	AMI 128Mbit SPI Flash		
	操作系统 OS	Windows10 64bit, Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	网口 Ethernet	1 × Intel® I219-V GbE (10/100/1000 Mbps) 1 × Intel® I210-AT GbE (10/100/1000 Mbps) (可通过扩展网卡扩展至4千兆网口, 增加 2 × Intel® I210-AT GbE)		
	显示 Display	1 × HDMI: max resolution up to 3840 × 2160		
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)		
	串口 COM	2 × COM (RS232/422/485 auto-flow); 2 × COM (RS232)		
	USB	2 × USB3.0 (Gen1); 2 × USB3.0 (Gen2)		
	远程开关 Remote SW	1 × Remote ON-OFF		
	电源输入 Power Input	1 × Phoenix 2Pin		
	电源开关 Power SW	1 × Power button		
	OS Recovery	1 × OS Recovery button		
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0/nvme) 1 × M.2 2230 Slot for Wi-Fi 1 × M.2 2280 SSD Slot (SATA3.0且与SATA接口互斥)		
	COM	2 × COM (RS232)		
	GPIO	1 × 8bit GPIO (可选)		
	SATA	1 × SATA and SATA power (与M.2 2280 SATA互斥)		
	扬声器 Speaker Speaker	2 × SPK 3.2W & 4Ω		
	触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
触控 Touch		35,000,000 times		
显示屏 LCD Screen	尺寸 Dimension	15"	15.6"	17"
	分辨率 Resolution	1024 (H) × 768 (V)	1920 (H) × 1080 (V)	1280 (H) × 1024 (V)
	屏幕宽高比 Aspect Ratio	'4:3	'16:9	'4:3
	亮度 Luminance	350 nits	350 nits	250 nits
	对比度 Contrast Ratio	1000:1	800:1	1000:1
	背光寿命 Backlight Life	50000Hrs	50000Hrs	30000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in		
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)		
	存储湿度 Storage relative Humidity	60°C 95%RH Non-condensing		
	前面板防护等级 Front Panel IP Rating	IP65		
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)		
	尺寸 Dimension	365 × 290 × 65mm	404 × 254.1 × 68.4 mm	410.5 × 344 × 65 mm
	建议开孔尺寸 Recommended Opening Size	356.5 × 281.5 mm	392.2 × 242.3 mm	402.2 × 335.7 mm

产品研发型号 R&D Model		CIP-W18T-RPL1	CIP-W21T-RPL1	CIP-W24T-LRPL
系统 System	处理器 Processor	Intel® Core™ 13th i3/i5/i7 Raptor Lake; i3-1215U/i3-1315U/ i5-1335U/ i7-1355U/i5-12450H		
	内存 Memory	1 × DDR4 SO-DIMM 3200MHz, Up to 32 GB		
	BIOS	AMI 128Mbit SPI Flash		
	操作系统 OS	Windows10 64bit, Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	网口 Ethernet	1 × Intel® I219-V GbE (10/100/1000 Mbps) 1 × Intel® I210-AT GbE (10/100/1000 Mbps) (可通过扩展网卡扩展至4千兆网口, 增加 2 × Intel® I210-AT GbE)		
	显示 Display	1 × HDMI: max resolution up to 3840 × 2160		
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)		
	串口 COM	2 × COM (RS232/422/485 auto-flow); 2 × COM (RS232)		
	USB	2 × USB3.0 (Gen1); 2 × USB3.0 (Gen2)		
	远程开关 Remote SW	1 × Remote ON-OFF		
	电源输入 Power Input	1 × Phoenix 2Pin		
	电源开关 Power SW	1 × Power button		
	OS Recovery	1 × OS Recovery button		
	SIM	1 × SIM Card Slot		
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 1 × M.2 2280 SSD Slot (SATA3.0/nvme) 1 × M.2 2230 Slot for Wi-Fi 1 × M.2 2280 SSD Slot (SATA3.0且与SATA接口互斥)		
	COM	2 × COM (RS232)		
	GPIO	1 × 8bit GPIO (可选)		
	SATA	1 × SATA and SATA power (与M.2 2280 SATA互斥)		
	扬声器 Speaker	2 × SPK 3.2W & 4Ω		
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch		
	触控 Touch	35,000,000 times		
显示屏 LCD Screen	尺寸 Dimension	18.5"	21.5"	23.8"
	分辨率 Resolution	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	16:9	16:9	16:9
	亮度 Luminance	300 nits	300 nits	350 nits
	对比度 Contrast Ratio	1000:1	3000:1	1000:1
	背光寿命 Backlight Life	30000Hrs	30000Hrs	30000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in		
环境 Environmental	操作温度 OperatingTemp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)		
	存储湿度 Storage relative Humidity	60°C 95%RH Non-condensing		
	前面板防护等级 Front Panel IP Rating	IP65		
机构 Mechanical	尺寸 Dimension	467 × 288 × 65 mm	541.8 × 336.4 × 68.6 mm	573.7 × 349.7 × 69 mm
	建议开孔尺寸 Recommended Opening Size	457.5 × 278.5 mm	531 × 325.6 mm	563.2 × 339.2 mm

产品研发型号 R&D Model		10.1寸工商业储能EMS平板电脑CIP-W10T-SY01
系统 System	处理器 Processor	Intel® Core™ N97/N95 processor, up to 3.8GHz, TDP 12W
	内存 Memory	1 × DDR4/DDR5 3200/4800/5600MHz SO-DIMM, Up to 32GB
	BIOS	AMI 128Mbit SPI Flash
	操作系统 OS	Win10-64bit, Win11-64bit, Linux
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min
扩展接口 Expansion Slot	网口 Ethernet	2 × RJ45 Intel® I210-AT GbE (10/100/1000 Mbps)
	显示 Display	1 × HDMI: max resolution up to 4096x2304@60Hz
	串口 COM	10*RS485 带3KV隔离; 端口形式: 凤凰端子
	USB	2 × USB 3.2 Gen1; 2 × USB2.0
	远程开关 Remote SW	1 × Remote ON-OFF
	电源输入 Power Input	1 × Phoenix 2Pin
	电源开关 Power SW	1 × Power button w/ LED
	OS Recovery	1 × OS Recovery button
	DIO	DIO需要电压隔离 默认状态: 4in +6out; DO: Default NPN; DI: 干节点/湿节点; 电压支持: 3-30V; 防雷等级保护 2kV/1kA; 端口形式: 凤凰端子
	CAN	6路CAN2.0B, 光耦隔离 端口形式: 凤凰端子
内部接口 Internal I/O	扩展接口 Expansion Slot	1 × Full-size Mini-PCIe Slot (USB and PCIe) for 4G 1 × M.2 3052 slot for 5G 1 × M.2 2280 slot (SATA 3.0) 1 × M.2 2230 slot for Wifi module
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面十点投射式电容屏 P-cap Multi-Touch
	触控 Touch	35,000,000 times
显示屏 LCD Screen	尺寸 Dimension	10.1"
	分辨率 Resolution	1280 (H) × 800 (V)
	屏幕宽高比 Aspect Ratio	16:9
	亮度 Luminance	500 nits
	对比度 Contrast Ratio	1300:1
电源 Power	电源输入 Power Input	12-24V DC-in
环境 Environmental	操作温度 OperatingTemp	-20°C ~ 50°C (SSD)
	存储温度 Storage Temp	-20°C ~ 60°C
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露Non-condensing
	前面板防护等级 Front Panel IP Rating	IP65
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)
	尺寸 Dimension	276 × 188.9 × 62.8mm
	建议开孔尺寸 Recommended Opening Size	263.5 × 176.4mm

产品研发型号 R&D Model		CIP-W15T-ADNI	CIP-W21T-ADNI	CIP-W24T-LADN
系统 System	处理器 Processor	Intel® Core™ N97/N95 processor, up to 3.8GHz, TDP 12W		
	内存 Memory	1 × DDR4/DDR5 3200/4800/5600MHz SO-DIMM, Up to 32GB		
	BIOS	AMI 128Mbit SPI Flash		
	操作系统 OS	Win10-64bit, Win11-64bit, Linux		
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min		
扩展接口 Expansion Slot	网卡 Ethernet	1 × RTL8111H GbE (10/100/1000 Mbps) 1 × Intel® I210-AT GbE (10/100/1000 Mbps) (可选扩展至4千兆网卡, 增加 2 × Intel® I210-AT GbE)		
	显示 Display	1 × HDMI: max resolution up to 4096x2304@60Hz		
	音频 Audio	1 × Audio (Line-out & Mic-in 2 in 1)		
	串口 COM	2 × COM (RS232/485); 2 × COM (RS232)		
	USB	1 × USB3.2 (Gen1), 3 × USB 2.0		
	远程开关 Remote SW	1 × Remote ON-OFF		
	电源输入 Power Input	1 × Phoenix 2Pin		
	电源开关 Power SW	1 × Power button w/ LED		
	OS Recovery	1 × OS Recovery button		
	内部接口 Internal I/O	扩展接口 Expansion Slot	1 × full-size Mini-PCIe Slot (PCIe and USB) 2 × M.2 2280 SSD Slot (SATA3.0) 1 × M.2 2230 Slot 1 × SIM Card Slot	
COM		2 × COM (RS232)		
USB		2 × USB 2.0		
GPIO		1 × 8bit GPIO (可选)		
扬声器 Speaker		2 × SPK 3.2W & 4Ω		
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch		
	触控 Touch	35,000,000 times		
显示屏 LCD Screen	尺寸 Dimension	15.6"	21.5"	23.8"
	分辨率 Resolution	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	'16:9	'16:9	'16:9
	亮度 Luminance	350 nits	300 nits	350 nits
	对比度 Contrast Ratio	800:1	3000:1	1000:1
	背光寿命 Backlight Life	50000Hrs	30000Hrs	30000Hrs
电源 Power	电源输入 Power Input	12-24V DC-in		
环境 Environmental	操作温度 Operating Temp	-10°C ~ 50°C (SSD)		
	存储温度 Storage Temp	-20°C ~ 60°C		
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing		
	前面板防护等级 Front Panel IP Rating	IP65		
机构 Mechanical	尺寸 Dimension	404 × 254.1 × 68.4 mm	541.8 × 336.4 × 68.6 mm	573.7 × 349.7 × 69 mm
	建议开孔尺寸 Recommended Opening Size	392.2 × 242.3 mm	531 × 325.6 mm	563.2 × 339.2 mm

产品研发型号 R&D Model		CIP-S15T-FB36	CIP-W15T-FB36	CIP-S17T-FB36	CIP-W21T-FB36	
系统 System	处理器 Processor	Intel® 6th/8th/9th Generation Core™ /Pentium®/Celeron® CPU 35W				
	内存 Memory	2 × DDR4 SO-DIMM 3200MHz, Max to 32 GB				
	BIOS	AMI 128Mbit SPI Flash				
	操作系统 OS	Windows10 64bit, Linux				
	看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1-255 sec/min				
扩展接口 Expansion Slot	网卡 Ethernet	1 × Intel® I219-V GbE (10/100/1000 Mbps) 1 × Intel® I226-AT GbE (10/100/1000/2500 Mbps) (可通过扩展网卡扩展至4千兆网卡, 增加 2 × Intel® I210-AT GbE)				
	显示 Display	1 × DP++ , up to 4096 x 2304@60Hz 1 × HDMI: up to 4096 x 2160@30Hz 1 × VGA: up to 1920 x 1200@60Hz				
	音频 Audio	1 × Line-out, 1 × Mic-in				
	串口 COM	1 × COM (RS232/422/485, Default RS232); 1 × COM (RS232)				
	USB	4 × USB 3.2 (Gen1), 2 × USB 2.0				
	远程开关 Remote SW	1 × Remote ON-OFF				
	电源输入 Power Input	1 × Phoenix 2Pin				
	电源开关 Power SW	1 × Power button				
	内部接口 Internal I/O	扩展接口 Expansion Slot	1 × M.2 2280 M Key for SSD (SATA & PCIe × 4 Gen3 NVMe) 1 × Full-size Mini-PCIe (PCIe × 1 & USB3.0 colay & USB 2.0) 1 × M.2 2230 E Key for Wi-Fi (CNVI & PCIe × 1 & USB 2.0)			
		COM	4 × COM (RS232)			
USB		2 × USB 2.0, 1 × Vertical USB type A				
SATA		2 × SATA and SATA power				
扬声器 Speaker		2 × SPK 3.2W & 4Ω				
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch				
	触控 Touch	35,000,000 times				
显示屏 LCD Screen	尺寸 Dimension	15"	15.6"	17"	21.5"	
	分辨率 Resolution	1024(H) × 768 (V)	1920 (H) × 1080 (V)	1280 (H) × 1024 (V)	1920 (H) × 1080 (V)	
	屏幕宽高比 Aspect Ratio	'4:3	'16:9	'4:3	'16:9	
	亮度 Luminance	350 nits	350 nits	250 nits	300 nits	
	对比度 Contrast Ratio	1000:1	800:1	1000:1	3000:1	
	背光寿命 Backlight Life	50000Hrs	50000Hrs	30000Hrs	30000Hrs	
电源 Power	电源输入 Power Input	12V DC-in				
环境 Environmental	操作温度 Operating Temp	-10°C ~ 50°C (SSD), 0°C ~ 40°C (HDD)				
	存储温度 Storage Temp	-20°C ~ 60°C				
	操作湿度 Operating Relative Humidity	50°C 95%RH (SSD)				
	存储湿度 Storage relative Humidity	60°C 95%RH Non-condensing				
	前面板防护等级 Front Panel IP Rating	IP65				
机构 Mechanical	尺寸 Dimension	365 × 290 × 68.4mm	404 × 254.1 × 71.9mm	410.5 × 344 × 68.5mm	541.8 × 336.4 × 72.1mm	
	建议开孔尺寸 Recommended Opening Size	356.5 × 281.5 mm	392.2 × 242.3mm	402.2 × 335.7mm	531 × 325.6 mm	

工业触摸显示器

Industrial Touch Display



防护等级

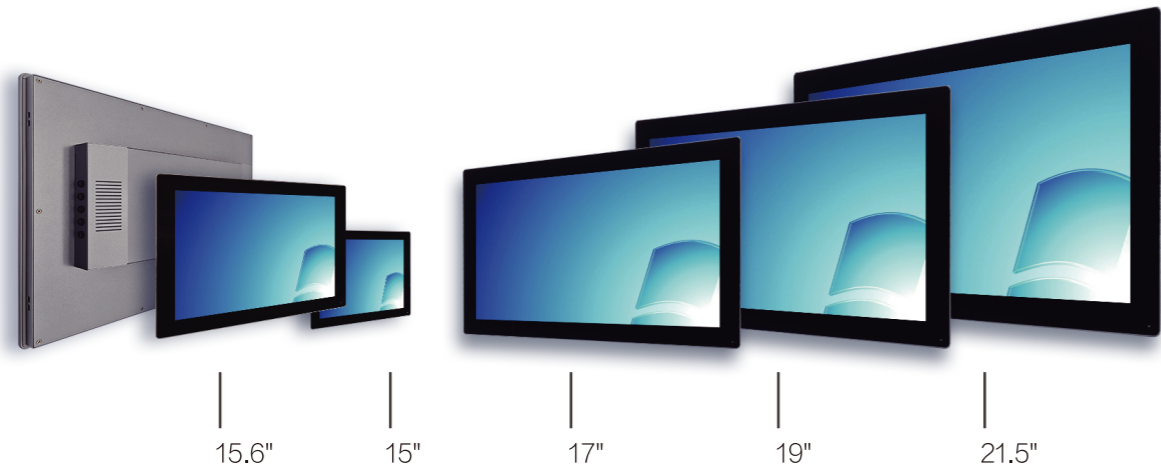


安规认证



4:3

16:9



15.6"

15"

17"

19"

21.5"

5种尺寸

15 ~ 21.5 英寸，不同场景游刃有余，大尺寸显示更多数据细节。
4:3 或 16:9 的屏幕比例让显示更灵活，从而适配各类软件终端。

2类屏幕

工规级主流触摸屏



电阻触控屏幕



电容触控屏幕

按键位于显示器侧面，
距离面框边缘 51mm。

为什么如此设计？

相较底部边缘的按键，
或者隐藏过深的按键，
CID 系列显示器极大提升操作
便利性，单手即可操作，无需
翻转或拆卸显示器。

边缘可视化好助手

≥85%透光率
≥7H表面硬度
10ms响应时间

千万级触控寿命
3500万次触控
6000万次笔划
*标准压力值 < 10g

前面板IP65防护
嵌入式或支架安装
适用域多种工艺段

* 屏幕比例是以显示器实际可视画面的对角线为基准进行测量，实际尺寸因配置和制造工艺的不同可能略有差异。
电阻电容两类触控屏幕规格参数来源于测试报告，详情数据见 CID 工业触摸显示器产品规格书。

** 展示内容仅作参考，实物效果（包括但不限于外观、颜色、尺寸）和展示内容（背景、配图、装饰元素）等可能略有差异，请以实际出货为准。

产品研发型号 R&D Model		CID-S15R-LD01	CID-W15T-LD01
显示屏 LCD Screen	尺寸 Dimension	15"	15.6"
	分辨率 Resolution	1024 (H) × 768 (V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	4:3	16:9
	亮度 Luminance	350 nits	350 nits
	对比度 Contrast Ratio	1000:1	800:1
	背光寿命 Backlight Life	50000Hrs	50000Hrs
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch	
	触控 Touch	35,000,000 times	
扩展接口 Expansion Slot	显示输入 Display Input	1 × VGA, 1 × HDMI, 1 × DP	
	触摸输入 Touch Input	1 × USB type B	
	USB输出 USB Output	2 × USB type A	
	音频输入 Audio Input	1 × Audio in	
	电源输入 Power Input	12-24V DC 凤凰端子	
	扬声器 Speaker Speaker	2 × 1.5W (左右声道)	
	OSD按键 OSD Button	1 × POWER (电源开关按键, 关闭屏幕) 1 × MENU (菜单/确认) 1 × UP (上移/增加) 1 × DOWN (下移/减少) 1 × Exit (退出/AUTO) 可选择模式: Mode, 亮度, 声音, 对比度, 色温, 饱和度, 锐度	
	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)	
机构 Mechanical	尺寸 Dimension	365 × 290 × 50.8mm	404 × 254.1 × 54.34mm
	建议开孔尺寸 Recommended Opening Size	356.5 × 281.5mm	392.2 × 242.3mm
	操作温度 Operating Temp	-10°C ~ 55°C (SSD)	
环境 Environmental	存储温度 Storage Temp	-40°C ~ 60°C	
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)	
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing	
	前面板防护等级 Front Panel IP Rating	IP65	



产品研发型号 R&D Model		CID-S17R-LD01	CID-S19R-LD01	CID-W21T-LD01
显示屏 LCD Screen	尺寸 Dimension	17"	19"	21.5"
	分辨率 Resolution	1280(H) × 1024(V)	1280(H) × 1024(V)	1920 (H) × 1080 (V)
	屏幕宽高比 Aspect Ratio	4:3	4:3	16:9
	亮度 Luminance	250 nits	250 nits	300 nits
	对比度 Contrast Ratio	1000:1	1000:1	3000:1
	背光寿命 Backlight Life	30000Hrs	30000Hrs	30000Hrs
触摸屏 Touch Screen	触摸屏 Touch Screen	全平面五线电阻屏 5-Wire Resistive Touch; 全平面十点投射式电容屏 P-cap Multi-Touch		
	触控 Touch	35,000,000 times		
扩展接口 Expansion Slot	显示输入 Display Input	1 × VGA, 1 × HDMI, 1 × DP		
	触摸输入 Touch Input	1 × USB type B		
	USB输出 USB Output	2 × USB type A		
	音频输入 Audio Input	1 × Audio in		
	电源输入 Power Input	12~24V DC 凤凰端子		
	扬声器 Speaker	2 × 1.5W (左右声道)		
	OSD按键 OSD Button	1 × POWER (电源开关按钮, 关闭屏幕) 1 × MENU (菜单/确认) 1 × UP (上移/增加) 1 × DOWN (下移/减少) 1 × Exit (退出/AUTO) 可选择模式: Mode, 亮度, 声音, 对比度, 色温, 饱和度, 锐度		
机构 Mechanical	安装方式 Mounting	Panel Mount and VESA-mount (75 × 75mm)		
	尺寸 Dimension	410.5 × 344 × 50.8 mm	374.2 × 444.2 × 50.8mm	541.8 × 336.4 × 54.5mm
	建议开孔尺寸 Recommended Opening Size	402.2 × 335.7 mm	434.1 × 364.1 mm	531 × 325.6 mm
环境 Environmental	操作温度 Operating Temp	-10°C ~ 55°C (SSD)		
	存储温度 Storage Temp	-40°C ~ 60°C		
	操作湿度 Operating Relative Humidity	55°C 95%RH (SSD)		
	存储湿度 Storage relative Humidity	60°C 95%RH 非凝露 Non-condensing		
	前面板防护等级 Front Panel IP Rating	IP65		