研扬科技股份有限公司

台湾省新北市新店区宝高路28号6楼

电话: +886-2-8919-1234 传真: +886-2-8919-1056

E-mail: sales@aaeon.com.tw 网址: http://www.aaeon.com

产品需求

如果您有任何产品需求,请联系当地分公司

研扬官网 AI专属网站 官方微信

UP研扬品牌店 研扬人工智能馆 视频号

美国

USA

California Office
324 W. Blueridge Ave, Orange, CA 92865
Toll Free: +1-877-TO-AAEON
(1-877-862-2366)
TEL: +1-714-996-1800
FAX: +1-714-996-1811
E-mail: sales@aaeon.com
Tech Support: tech@aaeon.com

New Jersey Office
11 Crown Plaza, Hazlet, NJ 07730-2441
TEL: +1-732-203-9300
FAX: +1-732-203-9311
E-mail: sales@aaeon.com
Tech Support: tech@aaeon.com

欧洲

Netherlands

AAEON EUROPE
Beatrix de Rijkweg 8, 5657 EG Eindhoven
TEL: +31(0)499-745200
FAX: +31(0)499-462010
E-mail: sales@aaeon.eu

Germany

AAEON Technology GmbH
Monzastrasse 4e, 63225 Langen
TEL: +49(0)61033 74 79 00
FAX: +49(0)61033 74 79 49
E-mail: sales@aaeon.eu

France

AAEON France Office
Gare de Lyon, 37/39 Avenue Ledru-Rollin, CS 11237, 75012 Paris Cedex 12
TEL: +33 (0) 156 95 16 40
E-mail: sales@aaeon.eu

Italy

AAEON Italy Office
Viale Masini 12/14, 40126 Bologna
TEL: + 39 051 0923582
E-mail: sales@aaeon.eu

亚洲

中国

研扬科技(苏州)有限公司
苏州市工业园区星汉街5号腾飞新苏工业坊B幢二楼 12单元
电话: +86-512-6762-5700
传真: +86-512-6762-7227
E-mail: sales@aaeon.com.cn
服务热线: 400-770-6868

上海分公司
上海市徐汇区田林路487号宝石大楼20楼D座
电话: +86-21-3367-5511
传真: +86-21-3367-4238
E-mail: sales@aaeon.com.cn

北京分公司
北京市海淀区上地三街9号嘉华大厦D座710室
电话: +86-10-8278-0904
传真: +86-10-8278-0214
E-mail: sales@aaeon.com.cn

武汉软件研发中心
武汉市东湖新技术开发区光谷大道现代国际设计城一期3栋4层05号房
电话: +86-27-87606090
E-mail: sales@aaeon.com.cn

中国

成都分公司
成都市高新区锦城大道666号6栋22层2204室
电话: +86-28-85120523
E-mail: sales@aaeon.com.cn

深圳分公司
深圳市宝安区航城街道三围社区航空路36号华盛泰科技大厦A栋5层501-1室
电话: +86-755-8304-7277
传真: +86-755-8304-7272
E-mail: sales@aaeon.com.cn

杭州分公司
杭州市余杭区文一西路1338号海创大厦A411室
电话: +86-571-8609-7652
E-mail: sales@aaeon.com.cn

Singapore

AAEON Technology Singapore PTE LTD.
57 Genting Lane, #07-00, Singapore 349564
TEL: +65-6749-8749
FAX: +65-6746-1595
E-mail: sales@aaeon.com.sg

intel. NVIDIA ELITE PARTNER Microsoft Azure LoRa Alliance Member AMD Embedded Solutions PARTNER American Megatrends RoHS COM Express CE FC

AAEON

2023 选型手册

WWW.AAEON.COM

AAEON 研扬科技
an ASUS assoc. co.

2023 | 选型手册

智能边缘平台

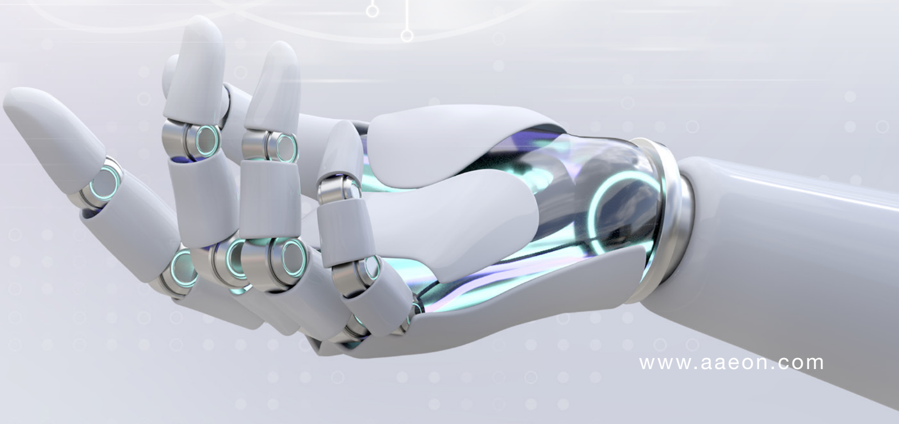
Edge Ready Platforms

您的智能计算合作伙伴

目录

目录

目录



00 公司简介

嵌入式计算平台的领导者和合作伙伴

我们追求卓越的品质，提供一流的服务。

研扬科技成立于1992年，是当今专业智能物联网解决方案和先进工业计算平台的领先设计和制造商。研扬科技致力于创新工程，提供集成解决方案，包括工业主板和系统、工业显示器、强固型平板电脑、嵌入式控制器、网络设备和相关配件。我们还与全球一流的OEM/ODM和系统集成商合作。提供基于x86的平台，从Intel® Atom™到Intel® Xeon处理器，在桌面型、1U和2U尺寸，研扬科技内经验丰富的工程师团队帮助全球众多公司部署了基于最先进硬件平台的可靠设备，为其更快地投放市场，降低开发成本，提供了无与伦比的服务质量和长期支持。

作为Intel®物联网解决方案联盟的成员，研扬科技提供端到端的定制服务，从最初的产品理念、产品开发，再到批量生产和售后服务，一应俱全。

在研扬，我们重视环境，我们的所有产品都符合RoHS标准。我们致力于地球的可持续发展，我们的所有产品都符合相关的法律法规。

研扬核心价值

可靠:

在时限内提供客户值得信赖的产品

诚信:

研扬重视诚信和道德，让研扬成为您的首选合作伙伴

创新:

保持技术领先与业界先进并驾齐驱，研扬能协助客户将最先进的概念实现在产品上

华硕集团成员：一家强大的高科技企业集团

华硕的技术与投资
研扬设计的灵活性与专业领域知识

OEM/ODM实力

OEM/ODM服务一直是研扬在过去10年里迅猛发展的一个关键性因素。研扬提供客制化服务，也可以为现有的产品提供修改服务。研扬拥有的丰富经验和专业知识，可以帮助您创建或修改产品，以完美满足您的需求。

研扬AI网站

简介

为了在不断发展壮大的市场中保持领先并满足各种人工智能硬件解决方案的需求，研扬科技很高兴地宣布推出新网站AAEON.ai。AAEON.ai 为开发人员和系统集成商提供了集中式资源，可从中探寻研扬科技推出的最新人工智能边缘计算技术。

市场分析师持续指出，工业4.0技术(尤其是人工智能边缘计算)在各种垂直市场中的增长和部署规模将有所扩大。作为便于访问的网站，AAEON.ai 收集整理了研扬科技推出的所有坚固、紧凑、工业级人工智能边缘解决方案。从主板和系统到人工智能加速器模块，人工智能开发人员和系统集成商都可以轻松在其中找到满足其项目、预算和性能需求的平台。AAEON.ai 还关联了解决方案合作伙伴，可让访问者与本地供应商和软件提供商取得联系，同时建立旨在更轻松打造和部署人工智能应用的人工智能生态系统。AAEON.ai 的访问者还将有机会了解最新消息，以及浏览大量使用研扬科技技术的应用案例和真实场景应用白皮书。

请立即访问AAEON.ai，探索研扬科技的最新人工智能边缘技术！

在线购物以享受迅捷的全球服务

研扬科技eShop可让客户方便地下订单购买最新、最受欢迎的IPC、人工智能和边缘计算平台。所有库存商品的订单均将在两个工作日内得到处理并发货，并且所有超过500美元的订单在全球范围内享有50%的运费折扣。客户还可以通过eShop订购AAEON.com产品页面上列出的任何配件或配置。在eShop上注册帐户可让客户获得诸多益处，包括管理多个送货地址、跟踪订单、接收降价和存货通知等！立即通过eshop.aaeon.com访问研扬科技eShop。

AI平台　嵌入式单板计算机　工业平板电脑和显示器　嵌入式Box PC　工控主板

数字标牌媒体播放器　网络设备和视频监控　物联网　强固式平板电脑　eshop.aaeon.com

研扬eShop福利

快速处理

eShop可让您享受快速订单处理的便利性。所有库存商品的订单均将在两个工作日内得到处理并发货。

轻松付款

eShop支持多种付款方式，包括信用卡、PayPal™甚至电汇(使用电汇时，需要提前通知)。

50%运费折扣

通过eShop购物，买的越多，省的就越多！所有满500美元的eShop订单均可获得全球运费50% 的折扣。

官方保修

在eShop中出售的所有产品均可获得与各种研扬科技产品相同的官方保修和行业领先的技术支持。

灵活服务

购买AAEON.com产品页面上列出的任何产品配件或配置，包括处理器、内存，存储器等。请联系研扬科技eShop客服以获取更多详细信息。(eShop@aaeon.com)

现在加入我们，
享受更多优惠。
https://eshop.aaeon.com/

研扬嵌入式操作系统解决方案

研扬为需要客制化操作系统的客户提供完整的嵌入式操作系统解决方案。研扬的嵌入式操作系统解决方案可缩短产品的上市时间，为客户节省大量的时间和研发资源。

Windows®嵌入式产品

Windows 10 IoT

Windows® 10 IoT Enterprise LTSC 1607/1809

Windows Embedded 8

Windows Embedded 8.1 Industry

Windows Embedded 8 Standard

Windows Embedded 8.1 Pro

Windows Embedded 8.1 Handheld

Windows Embedded 7

Windows Embedded Enterprise 7

Windows Embedded POSReady 7

Windows Embedded Standard 7

研扬嵌入式操作系统解决方案

芯片组	Windows® Embedded Standard 2009 (注解 1)	Windows® Embedded Standard 7 (注解 2)	Windows® Embedded 8 Standard	Windows® 10 IoT Enterprise
Intel® 7th KabyLake (Q170/H110/C236)	—	—	—	✓
Intel® 6th SkyLake (Q170/H110/C236)	—	✓	✓	✓
Intel® 5th Broadwell (5010U/5350U/5650U/D1548/D1518)	—	✓	✓	✓
Intel® 4th Hasewell (QM87/Q87/H81)	—	✓	✓	—
Intel® 3rd IvyBridge (QM77/Q77/HM76/B75)	✓	✓	✓	—
Intel® 2nd SandyBridge (QM67/Q67/H61/QM57/Q57)	✓	✓	✓	—
Intel® ApolloLake (N4200/N3350/E3930/E3940/E3950)	—	✓	✓	✓
Intel® Braswell (N3060/N3160/X5-E8000/N3710)	—	✓	✓	✓
Intel® Baytrail (J1900/N2000/E3800)	—	✓	✓	—
Intel® TunnelCreek (E620/E640/E660/E680)	✓	✓	—	—
Intel® Pinewview (N450/D410/D510/D525/N455/D425)	✓	✓	—	—
Intel® Cedarview (D2550/N2800/N2600)	✓	✓	—	—
AMD Geode (LX700/LX800/LX900)	—	✓	—	—
AMD T56N/T40R/T40E/T16R	✓	✓	✓	—

注解 1: 原为 Windows® Embedded XP
注解 2: 原为 Windows® Embedded

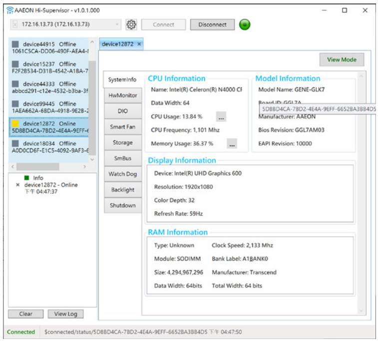
研扬嵌入式操作系统解决方案/Hi-Supervisor

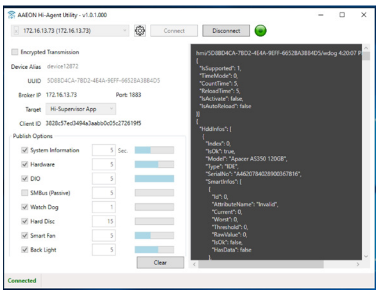
嵌入式操作系统主要特性

操作系统系列	Windows® Embedded Standard	Windows® Embedded POS Ready	Windows® Embedded Enterprise
特性	完全定制	简易安装	全功能
Windows® 产品Sku	Windows® Embedded Standard 2009 Windows® Embedded Standard 7 Windows® Embedded Standard 8	WEPOS 1.1 POSReady 7 POSReady 2009 Windows® Embedded Industry 8.1 Pro Retail	Windows® 7 Professional Windows® 8.1 Professional Windows® 10 IoT Enterprise LTSC 1607/1809/ 2021
CPU类型	x86	x86	x86
开发工具	自定义镜像	CD安装	CD安装
开发时间	短	无	无
维护成本	中	低	低
嵌入特性	Custom Shell/ EWF/ FBWF/ USB Boot/ HORM	Custom Shell/ FBWF/ USB Boot	Standard Shell UWF

研扬Hi-Supervisor

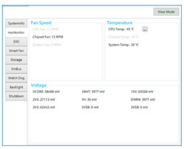
Hi-Supervisor是一款基于MQTT协议的Windows远程硬件监控应用程序。允许用户捕捉设备信息并设置硬件配置，如GPIO、风扇、看门狗定时器、SMbus、重启和关机.... Hi-Supervisor支持使用Hi-Safe的研扬Windows平台。用户可以设置告警阈值，通过电子邮件的方式对用户的异常情况进行确认。





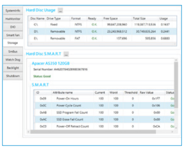
Hi-Supervisor的优势

- 支持全功能遥控Hi-Safe
- 支持定制
- 支持Azure IoT Central



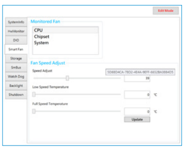
硬件监控:

检索风扇、温度和电压数据



硬盘:

获取硬盘S.M.A.R.T信息



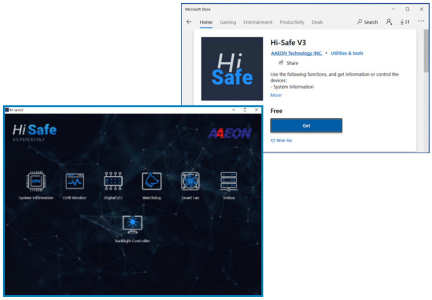
遥控风扇

研扬Hi-Safe

Hi-Safe是一款功能强大的免费程序，它为运行Microsoft® Windows®操作系统和UI提供SDK。Hi-Safe通过Windows管理界面控制系统硬件，为Windows机器提供安全、标准的界面。Hi-Safe允许终端客户轻松开发自己的UI软件，用以监控处理器、RAM和VGA等重要的系统信息。它还为硬件监视器，数字I/O，看门狗定时器，智能风扇设置，SM总线，LVDS和eDP的背光控制器提供了接口和功能。无需编码的SDK用户界面，用户可采用研扬提供的功能代码创建自身的自定义用户界面。客户可直接从微软应用商店下载Hi-Safe V3应用程序。

Hi-Safe V3的优势

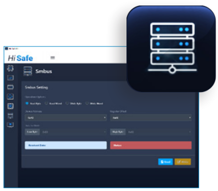
- 新颖和灵活的用户界面
- 易于使用，更富人性化
- Windows的安全操作控制



系统信息:
接收CPU，显示和RAM的信息

智能风扇:
支持温度和速度控制的多级调节

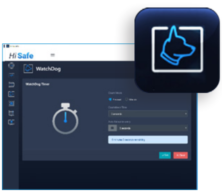
硬件监控:
接收super I/O，风扇，温度和电压数据



SM Bus:
读写SMBus设备并自动检测SMBUS基址

DIO:
获取DIO信息:
设置引脚方向和引脚数据

背光控制器:
控制LVDS或eDP显示



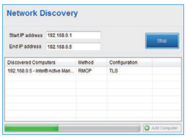
看门狗:
设置系统重启定时器

研扬Hi-Manager

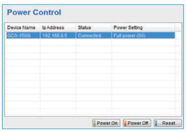
Hi-Manager是一种基于Intel®主动管理技术12.0 (iAMT 12.0)的工具，并且与早期版本的 iAMT具有向后兼容性。这使得用户可在内网中定位所有iAMT设备，远程给目标设备开/关电源，设置电源开/关时间安排，为了加强管理进行设备分组，提供事务日志和时钟设置用以在指定时间唤醒设备，从虚拟CD-ROM恢复已崩溃的系统,远程管理KVM，并访问目标设备的硬件信息用以进行资产管理。Hi-Manager可安装于所有研扬平台，并能远程管理研扬客户端设备，这些设备采用Intel® M67/ Q77/ QM77/ HM76/ B75A/ Q87/ QM87/ QM170/ Q370/ C246 芯片组，且运行系统为Microsoft® Windows® XP, Windows® 7和 Windows® 10。

Hi-Manager的优势

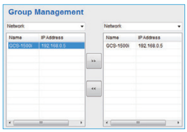
- 易于使用和构建自定义应用程序
- 支持研扬带iAMT功能的产品
- 更深入的技术支持



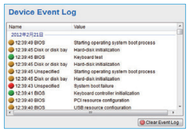
网络发现:
AMT设备发现



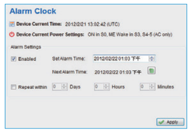
电源控制:
给目标设备开/关电源



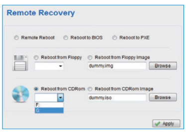
分组管理:
按功能进行设备分类



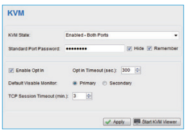
事件日志:
记录所选设备的引导记录



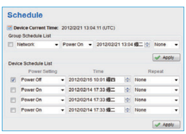
闹钟:
设置时钟，用于唤醒休眠设备



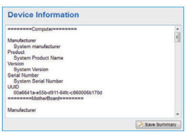
远程恢复:
给目标设备安装引导镜像或物理CD-ROM



KVM:
从目标设备进行远程控制



时间安排:
设置目标设备电源开/关时间



设备信息:
显示目标设备资产

Intel® 主动管理技术特性

Intel®芯片组	M67/ Q77/ QM77/ HM76/ B75A/ Q87/ QM87/QM170/Q170/Q370/ Q470/C246
Intel® AMT版本	7.0/8.0/9.0/10.0/11.0/12.0/14.0
硬件库存管理	✓
软件库存管理	✓
电源状态管理	✓
系统防御	✓
远程配置	✓
远程启动选项	✓
KVM重定向	✓
KVM远程控制	✓
ME局域网唤醒	✓
主动安全区块，基于硬件和远程管理恢复	✓
基于主机的预配置	✓
增强系统防御过滤器	✓

研扬BIOX

BIOX是研扬产品的BIOS定制SaaS解决方案。大多数现场应用和部署都需要对平台和系统进行BIOS定制，以满足客户的需求。这通常需要与供应商进行持续的沟通，因此可能会延迟部署或减缓维护速度。使用BIOX，最终用户无需联系服务代表，只需5个简单的步骤，便可以在任何时候自行定制BIOS。

BIOX的优势

时尚而灵活的用户界面

- Logo
- 引导顺序
- 设定值
- SMBIOS字符串
- 密码管理

版本控制访问

- 可检索
- 重新定制
- 历史可追溯

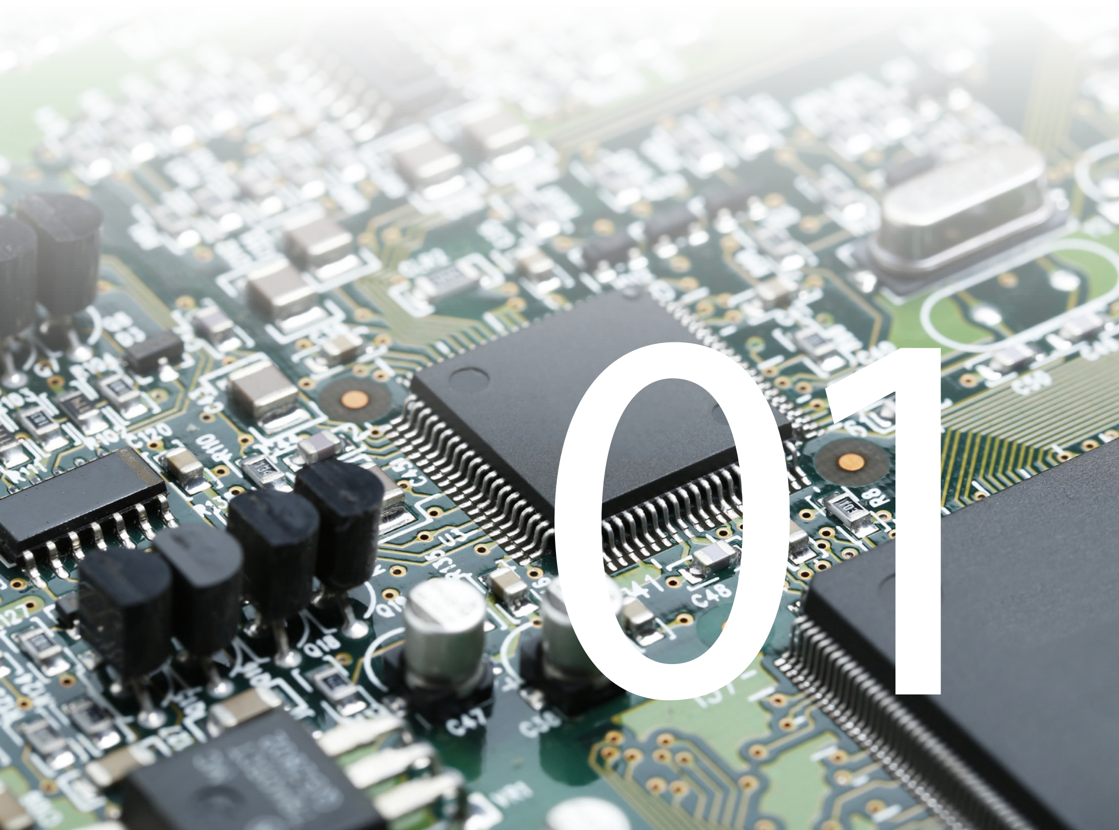
研扬软件支持门户网站:
https://aaeoncm.github.io/

专注 · 灵活 · 竞争力

www.aaeon.com

01

板卡产品线



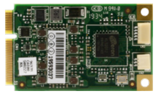
01

AI边缘计算解决方案

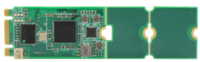
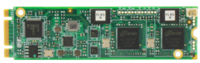
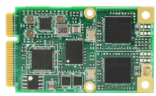


型号	PICO-APL3-A10-FAI1
系统	
板型	PICO-ITX
CPU	Intel® Celeron® Processor: Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, TDP 6W)
芯片组	Integrated with Intel® SoC
内存类型	Onboard DDR3L 4GB
BIOS	UEFI
网络唤醒	Yes
看门狗定时器	255 Levels
安全	—
RTC电池	Lithium Battery 3V/240mAh
尺寸	3.94" x 2.84" (100mm x 72mm)
总重量	0.18 lbs. (0.08 kg)
操作系统支持	Windows 10 (64 bit)
电源	
电源要求	+12V
电源支持类型	AT/ATX
连接器	Lockable DC Jack Connector
功耗	Intel® N4200 processor, DDR3L 4GB, 1.1A@12V
显示	
控制器	Intel® HD Graphics 505
LVDS/eDP	—
显示接口	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)
多路显示	1 Simultaneous Displays
音频	
解码器	—
音频接口	—
扬声器	—
外置 I/O	
以太网	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 1
USB	USB 3.2 Gen 1 x 2
串口	—
视频	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)
内置 I/O	
USB	USB 2.0 x 2 (Internal, co-use with FAN connector)
串口	COM1 (RS232)
视频	eDP x 1 (up to 3840x2160@60Hz, Optional)
SATA	SATA III x 1 +5V SATA Power Connector x 1 eMMC 32GB
音频	—
DIO/GPIO	4-bit
SMBus/I2C	I2C/SMBus x 1 (I2C as default)
触摸	—
风扇	—
SIM	—
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset
其他	—
扩展	
Mini PCI-E/mSATA	—
M.2	M.2 E-Key 2230 x 1 (PCIe/USB) M.2 B-Key 2280 x 1 (SATA/USB)
其他	—
环境 & 认证	
工作温度	32°F ~ 140°F (0°C ~ 60°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing
MTBF (小时)	110,000
EMC	CE/FCC Class A
备注	



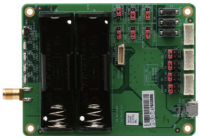


型号	M2AI-2242-520	M2AI-2280-520	Mini-AI-520
系统			
IC	Kneron KL520		
类型	Integrated SoC		
支持框架	ONNX, TensorFlow, Keras, Caffe		
支持模型	Vgg16, Resnet, GoogleNet, YOLO, Tiny YOLO, Lenet, MobileNet, DenseNet		
内存类型	LPDDR2		
NPU性能	0.35 TOPS		
整机功耗	0.5 W		
其他			
工作温度	32°F ~ 158°F (0°C ~ 70°C)		
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)		
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	CE/FCC Class A		

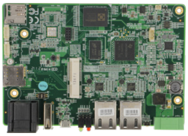
型号	M2AI-2242-720	M2AI-2280-720	Mini-AI-720
系统			
IC	Kneron KL720	Dual Kneron KL720	Kneron KL720
类型	ARM CM & DSP		
支持框架	Pytorch, ONNX, TensorFlow 1.6, Tensorflow lite, Keras, Caffe		
支持模型	Resnet, GoogleNet, YOLO, Tiny YOLO, MobileNet-SSD, DenseNet, RNN, LSTM		
内存类型	128MB LPDDR3		LPDDR3
NPU性能	1.4 TOP/s	1.4 TOP/s x2	1.4 TOPS
整机功耗	2.3W	5W	5W TDP
其他			
工作温度	32°F~122°F(0°C ~ 50°C with cooler 5m/s)		
存储温度	32°F~158°F(0°C ~ 70°C)		
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	CE/FCC Class A		

网关主板 & 扩展板



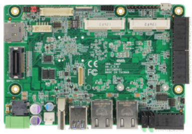
型号	AIOT-ILND01
系统	
尺寸	3.35" x 2.56" (85 mm x 65 mm)
MCU	ST STM32L Semtech SX1276
I/O配置	GROVE connectors x 3 - UART1 (RS-232/RS-485) x 1 - UART2 (TX/RX) x 1 - I2C x 1 Temperature & humidity sensor x 1 3-axis Accelerometer (2G/4G/8G/16G) x 1 Micro USB2.0 type B for power supply x 1 JTAG-debug port x 1 Battery connector x 2 for 14500 Lithium-ion battery x 2
其他	LED (GPIO control) x 4 3 buttons - boot select x 1 - User defined x 2 - Reset button x 1 SMA antenna connector x 1 IPEX antenna connector (Optional) x 1
电源输入	+5V (via Micro USB) 14500 Lithium-ion battery for external power x 2
工作温度	32 °F ~ 140 °F (0 °C ~ 60 °C)
工作湿度	0% ~ 90% relative humidity, non-condensing
认证	CE
备注	

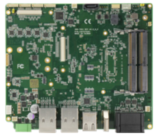
型号	AIOT-MSSP01
外部连接器	
USB	USB 2.0 type A connector x 5 (via USB HUB) USB 2.0 type B connector x 1 (USB HUB Host)
内部连接器	
MDB	MDB x 1
1-线	1-WIRE x 1
DEX	DEX x 1
协议A	Protocol A (EXE) x 1
键盘	8 Bit Keypad x 1 (subject to support 4 x 4 keypad)
LCD	LCD x 1
ADC	4-channel ADC x 1
继电器GPIO	4-channel Relay GPIO for 12V & 5V by switch x 1
GPIO	16 Bit GPIO x 2
24V GPI	8 Bit 24V GPI x 1
24V模拟电压感测	24V Analog voltage sense x 1
电源输入	24V AC/DC Power Input x 1
电机开关	Select motor 24Vdc or 12Vdc switch (Motor supports GPIO, DC, PWM type) x 1
全桥电机	Full bridge motor control x 5
低压侧电机	Low side motor control x 16
扩展排针	2* 20 PIN header x 2
其他	
尺寸	5.91" x 5.51" (150 mm x 140 mm)
电源	24V AC @ 50Hz, 24V DC
工作温度	32 °F ~ 140 °F (0 °C ~ 60 °C)
工作湿度	0% ~ 90% relative humidity, non-condensing
认证	CE, FCC
备注	




型号	SRT-3352	SRT-3352C
系统		
处理器	ARM Cortex-A8 800 MHz RISC Processor	
内存	Onboard DDR3L 1GB	
存储	eMMC 16G	
实时时钟	RTC, with 3V CR2032 Lithium battery x 1	
安全	—	
指示灯	Programmable LED control x 4	
无线蜂窝	Mini PCIe Connector x 1	
无线网络	—	Onboard WiFi 802.11 b/g/n, Bluetooth4.2 / BLE
操作系统	Debian 9	Debian 10
支持协议	—	
I/O接口		
串口	RS-485, Phoenix Connector x 2	RS-485 x 2, wafer box
以太网	Gigabit Ethernet, RJ-45 x 2	
USB	USB 2.0, Type A x 1	USB 2.0, Type A x 2
ADC	—	
DI/DO	—	
CAN总线	—	
显示	—	
电源接口	3 Pin Phoenix Connector	Lockable DC Jack
调试端口	Micro USB x 1	
扩展槽	SIM card slot x 1 Micro SD slot x 1	
其他接口	NB-IoT connector x1	NB-IoT connector x1 Board to Board connector x 1
电源支持		
电源要求	DC9-30V	
功耗	2.28 W(Full Loading)	3.36 W (Full Loading)
MTBF (小时)	855590	
环境及机构		
尺寸	3.66" x 5.35"(93mm x 136mm)	3.94" x 3.78" (100 x 96mm)
重量	1.94lb (88 g)	1.54lb (70 g)
挂载配件	—	
工作温度	32 °F ~ 140 °F (0 °C ~ 60 °C)	
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)	
工作湿度	10% ~ 95% relative humidity, non-condensing	
备注		

网关主板 & 扩展板





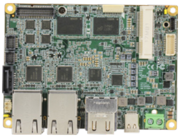
型号	SRT-IMX8P	SRT-TG01
系统		
处理器	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor(NPU Optional)	11th Generation Core Intel® i7-1185G7E SoC 11th Generation Core Inte® i5-1145G7E SoC 11th Generation Core Inte® i3-1115G4E SoC 11th Generation Core Inte® Celeron 6305E SoC TDP 12W Only
内存	Onboard DDR4L 2GB (Optional 4GB)	DDR4 3200MHz, SO-DIMM x 2, Up to 64GB
存储	eMMC 16GB (Optional 32GB)	M.2 2280 M Key slot x 1 (PCIex4) 2.5"" SATA SSD/HDD bay x 1
实时时钟	RTC x 1, with 3V CR2032 Lithium battery	
安全	TPM 2.0	
指示灯	Programmable LED control x 7	—
无线蜂窝	Mini PCIe Connector x 1 (USB signal)	M.2 3052 B Key slot x 1 (4G/5G)
无线网络	Mini PCIe Connector x 1 (USB signal)	M.2 2230 E Key slot x 1 (Wifi 802.11 ac/b/g/n, BT 5.0)
操作系统	Debian 10	Windows 10 IoT Enterprise / Linux (by request)
支持协议	—	
I/O接口		
串口	RS-232/422/485 switchable x 2, Phoenix Connector	RS-232/422/485 x 4, Wafer Box
以太网	Gigabit Ethernet x 2, RJ-45	Intel ®i211-LM,10/100/1000Base x 1,RJ45 Intel ®i219-LM,10/100/1000Base x 1,RJ45 Intel ®i225-LM,10/100/1000Base x 1,RJ45 (Support Vpro)
USB	USB 3.0 Type-A x 2	USB3.2 Gen 2 x 1, Type A USB3.2 Gen 1 x 3, Type A
ADC	—	
DI/DO	—	8 bit, Phoenix Connector
CAN总线	CAN-FD x 2 CH, Phoenix Connector	CAN 2.0 B x 2 CH, Phoenix Connector
显示	HDMI x1 (Output)	HDMI 2.0b x 1
电源接口	2 Pin 3.81mm Pitch Phoenix Connector	2 Pin 3.81mm Pitch Phoenix Connector
调试端口	Micro USB x 1	—
扩展槽	SIM card slot x 1 Micro SD slot x 1	Micro SIM slot x 1
其他接口	—	SATA 3.0 x 1 SATA Power connector x 1 (5V) 100 pin board to board connector x 2 PCIE, USB3.0, USB2.0, UART, GPIO, I2C, DDI, SPI
电源支持		
电源要求	DC 9-36V	DC 9 ~ 36V (Optional DC12V), AT Type
功耗	9.36W (Full Loading)	67 W (Full Loading)
MTBF (小时)	479,374	306,575
环境及机构		
尺寸	3.66” x 5.43” (93 x 138mm)	6.69” x 5.74” (170 x 146 mm)
重量	0.7lb (350 g)	1.4lb (650g)
挂载配件	—	
工作温度	-4 °F ~ 158 °F (-20 °C ~ 70 °C)	32 °F ~ 122 °F (0 °C ~ 50 °C)
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)	
工作湿度	10% ~ 95% relative humidity, non-condensing	
备注		

备注: 所有规格如有变更，恕不另行通知。

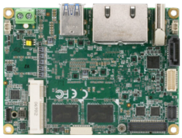
型号	SRT-APLC
系统	
处理器	Intel Atom X5-E3940 Processor SoC / Intel HD 500 Graphics
内存	Onboard LPDDR4 1866MHz 4GB / 8GB (Optional)
存储	eMMC 5.1 32GB / 64GB (Optional)
实时时钟	RTC x 1, with 3V CR2032 Lithium battery
安全	—
指示灯	—
无线蜂窝	—
无线网络	—
操作系统	Windows 10 IoT Enterprise / Linux (by request)
支持协议	—
I/O接口	
串口	—
以太网	Gigabit Ethernet x 1, RJ-45
USB	USB 3.0 x 1, Type A
ADC	—
DI/DO	—
CAN总线	—
显示	HDMI 1.4 x 1 (Output)
电源接口	DC Jack
调试端口	—
扩展槽	Micro SD slot x 1 100 pin board to board connector x 2 PCIE, USB3.0, USB2.0, UART, GPIO, I2C, DDI, SPI
其他接口	Power switch button x 1 Reset switch button x 1
电源支持	
电源要求	12V DC-In @ 3A-5A 5.5/2.5 mm
功耗	20 W (Full Loading)
MTBF (小时)	826,592
环境及机构	
尺寸	3.54” x 2.9” x 0.85” (90 x 74 x 21.5 mm)
重量	0.44lb (200 g)
挂载配件	—
工作温度	32 °F ~ 140 °F (0 °C ~ 60 °C)
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
工作湿度	10% ~ 95% relative humidity, non-condensing
备注	

板卡产品线

Pico-ITX主板



型号	PICO-V2K4	PICO-V2K4-SEMI
系统		
板型	PICO-ITX	PICO-SEMI
CPU	AMD RYZEN™ V2000 embedded Processor Family V2718 (8C/16T, 1.7~4.15 GHz,TDP 10-25W) V2516 (6C/12T, 2.1~3.95 GHz,TDP 10-25W)	
芯片组	AMD RYZEN™ V2000 embedded Processor Family	
内存类型	LPDDR4x 3733 MHz onboard memory	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM2.0	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	4.80” x 3.18” x 2.13” (122mm x 80.8mm x 54 mm)
总重量	0.18 lbs (0.08 kg)	0.84 lbs (0.38 kg)
操作系统支持	Windows 10 (64 bit), Linux Ubuntu 20.04.3/Kernel 5.11	
电源		
电源要求	+12V	
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector (Default) Lockable DC Jack Connector (colay)	DC Jack Connector
功耗	V2718, LPDDR4x onboard 32GB, 4.24A @ +12V(TYPICAL) V2718, LPDDR4x onboard 32GB, 4.82A @ +12V(MAX)	
显示		
控制器	AMD Radeon 6, 7 Graphics (Renoir)	
LVDS/eDP	eDP or LVDS x 1 (eDP 1.4: 3840x2160, 60Hz; LVDS: 12V/3.3V, 18-24 bit, single channel)	—
显示接口	Type C to DP x 1 HDMI 2.0b x 1, 4K x 2K 60Hz HDMI 1.4 x 1, 4K x 2K 30Hz (3840 x 2160)	
多路显示	Up to 4 Simultaneous Displays	Up to 3 Simultaneous Displays
音频		
解码器	Realtek ALC269 (Optional)	
音频接口	High Definition Audio Interface, Line-in/Line-out/MIC (Optional)	Line-out (Optional)
扬声器	—	—
外置 I/O		
以太网	Intel® i226, 10/100/2500Base x 1 Intel® i210, 10/100/1000Base x 1	
USB	USB3.2 Gen2 Type C x 1 USB3.2 Gen2 x 2	USB3.2 Gen2 Type C x 1 USB3.2 Gen2 x 2 USB2.0 x 2 (Optional)
串口	—	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)(Optional)
视频	Type C to DP x 1 HDMI 2.0b x 1, 4K x 2K 60Hz HDMI 1.4 x 1, 4K x 2K 30Hz (3840 x 2160)	
内置 I/O		
USB	USB2.0 x 4	—
串口	COM1~COM4 (RS232/422/485, supports 5V/12V/RI)	—
视频	eDP or LVDS x 1 (eDP 1.4: 3840x2160, 60Hz; LVDS: 12V/3.3V, 18-24 bit, single channel)	—
SATA	SATA III x 1 +5V SATA Power Connector x 1 Onboard NVME SSD (Optional, up to 64GB, PCIE x 2, by BOM)	Onboard NVME SSD 64GB
音频	Audio Header x 1 (Optional)	
DIO/GPIO	8-bit	8-bit (Optional)
SMBus/I2C	SMBUS/I2C x 1 (SMBUS as default, I2C selected by HW BOM)	
触摸	—	
风扇	4pins Smart Fan x1	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	mini-PCIe(Full) x 1 (PCIe [x1] x 1/ USB2.0 as default, mSATA selected by HW BOM)	
M.2	M.2 2280 M-key (PCIe Gen3 x 4 as default, SATA selected by BIOS) x 1	M.2 2280 M-key x 1 (PCIe Gen3 x 4 as default, SATA selected by BIOS)
其他	—	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C) with 0.2 m/s airflow
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	407,784	
EMC	CE/FCC Class A	

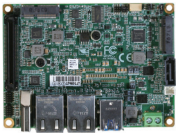


型号	PICO-TGU4	PICO-TGU4-SEMI
系统		
板型	PICO-ITX	PICO-SEMI
CPU	Intel® Core™/ Celeron® Processor: i7-1185G7E (4C/8T, 1.8GHz, up to 4.4GHz, TDP up to 28W) i5-1145G7E (4C/8T, 1.5GHz, up to 4.1GHz, TDP up to 28W) i3-1115G4E (2C/4T, 2.2GHz, up to 3.9GHz, TDP up to 28W) Celeron® 6305E (2C/2T, 1.8GHz, TDP 15W)	
芯片组	11th Generation Intel® Core™ i7/i5/i3/Celeron SoC	
内存类型	Onboard LPDDR4x 3200MHz,up to 32GB,In-Band ECC (select SKUs)	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM2.0 (Optional)	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	4.80" x 3.18" x 1.98" (122mm x 80.8mm x 50.4 mm)
总重量	0.18 lbs. (0.08 kg)	0.84 lbs. (0.38 kg)
操作系统支持	Windows 10 (64bit) Linux Ubuntu 20.04.2/Kernel 5.8	
电源		
电源要求	+12V	12V only
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector (Default) Lockable DC Jack Connector (colay)	DC Jack Connector
功耗	Intel® i7-1185G7E, LPDDR4x onboard 32GB, 2.89A@ +12V (TYPICAL)	
显示		
控制器	Intel® Iris® Xe (i5/i7 support) Intel® UHD Graphics (i3/Celeron support)	
LVDS/eDP	eDP x 1 (up to HBR3, 8K x 4K 30Hz)	—
显示接口	HDMI2.0b x 1 (4K x 2K 60Hz)	
多路显示	Up to 2 Simultaneous Displays	
音频		
解码器	Realtek ALC269 (Optional)	
音频接口	Line-in/Line-out/MIC (Optional)	Line-out (Optional)
扬声器	—	
外置 I/O		
以太网	Intel® i225, 10/100/1000/2500Base, RJ45 x 1 Intel® i219, 10/100/1000Base, RJ45 x 1	
USB	USB3.2 Gen 2 x 2	
串口	—	
视频	HDMI2.0b x 1 (4K x 2K 60Hz)	
内置 I/O		
USB	USB3.2 Gen 1 x 2 USB2.0 x 4	—
串口	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)(Optional)
视频	eDP x 1 (up to HBR3, 8Kx4K 30Hz)	—
SATA	SATA III x 1 +5V SATA Power Connector x 1	
音频	Audio Header x 1 (Optional)	
DIO/GPIO	8-bit	—
SMBus/I2C	I2C/SMBus x1 (SMBUS as default, I2C select by BOM)	
触摸	—	
风扇	4pins Smart Fan x1	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	Full-size mSATA/mPCIe or USB2.0 x 1 (PCIe as default, select by BIOS option)	
M.2	M.2 M Key 2280 x 1 (PCIe Gen 4 [x4] as default, SATA select by HW BOM)	
其他	SMBUS/I2C/eSPI x 1	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C) WiTAS1 -4°F ~ 158°F (-20°C ~ 70°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	424,208	
EMC	CE/FCC Class A	
备注		

Pico-ITX主板

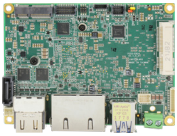
型号	PICO-WHU4	PICO-WHU4-SEMI
系统		
板型	PICO-ITX	PICO-SEMI
CPU	Intel® 8th Generation Core™ i7/i5/i3/Celeron SoC i7-8665UE (4C/8T, 1.7GHz, up to 4.4GHz, TDP 15W) i5-8365UE (4C/8T, 1.6GHz, up to 4.1GHz, TDP 15W) i3-8145UE (2C/4T, 2.2GHz, up to 3.9GHz, TDP 15W) Celeron® 4305UE (2C/2T, 2GHz, TDP 15W)	
芯片组	Intel® 8th Generation Core™ i7/i5/i3/Celeron SoC	
内存类型	DDR4 up to 2400MHz SODIMM x 1, up to 32GB, Non-ECC	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM2.0 (Optional by accessory card)	TPM2.0 (Optional)
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	5.90" x 3.94" x 2.36" (150mm x 100mm x 60mm)
总重量	0.18 lbs. (0.08 kg)	1.41 lbs. (0.64 kg)
操作系统支持	Windows 10 (64 bit) Ubuntu 18.04.3/Kernel 5.0	
电源		
电源要求	+12V	+12V only
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector (Default) Lockable DC Jack Connector (colay)	DC Jack Connector
功耗	Intel® i7-8665UE @ DDR4 16GB, 2.23A@ +12V(TYPICAL)	
显示		
控制器	Intel® UHD Graphics 610/620	
LVDS/eDP	—	
显示接口	HDMI 1.4b x 2 (up to 3840 x 2160)	
多路显示	Up to 2 Simultaneous Displays	
音频		
解码器	—	
音频接口	—	
扬声器	—	
外置 I/O		
以太网	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2	
USB	USB 3.2 Gen 2 x 2	USB 3.2 Gen 2 x 2 USB 2.0 x 2
串口	—	
视频	HDMI 1.4b x 2 (up to 3840 x 2160)	
内置 I/O		
USB	USB2.0 x 2	—
串口	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)(Optional)
视频	—	
SATA	SATA III x 1 +5V SATA Power Connector x 1	
音频	—	
DIO/GPIO	4-bit	
SMBus/I2C	I2C/SMBus x1 (SMBUS as default)	
触摸	—	
风扇	4pins Smart Fan x1	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	Full size mSATA/mPCIe or USB2.0 x 1 (PCIe as default, mSATA selected by BIOS)	
M.2	M.2 E-Key 2230 x 1 (for WIFI/BT, PCIe/USB signal only)	
其他	SMBUS/I2C/LPC/eSPI x 1	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C) WiTAS 2 -40°F ~ 185°F (-40°C ~ 85°C)	32°F ~ 122°F (0°C ~ 50°C) with airflow 0.5m/s for SSD SKU
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	298,762	
EMC	CE/FCC Class A	
备注		

 备注: 所有规格如有变更，恕不另行通知。



型号	PICO-KBU4	PICO-KBU4-SEMI
系统		
板型	PICO-ITX	PICO-SEMI
CPU	Intel® 7th Generation Core™ /Celeron Processor: Intel® i7-7600U (2C/4T, 2.80GHz, up to 3.90GHz, TDP-up 25W) Intel® i5-7300U (2C/4T, 2.60GHz, up to 3.50GHz, TDP-up 25W) Intel® i3-7100U (2C/4T, 2.40GHz, TDP-up 25W) Intel® Celeron 3965U (2C/2T, 2.20GHz, TDP-up 15W)	
芯片组	Integrated with Intel® SoC	
内存类型	DDR4 up to 2133MHz, SODIMM x 1, up to 16GB,Non-ECC	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	—	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	4.80" x 3.18" x 1.98" (122 mm x 80.8 mm x 50.4 mm)
总重量	0.18 lbs (0.08 kg)	0.88 lb (0.4 kg)
操作系统支持	Windows 10 (64 bit)	
电源		
电源要求	+12V	12V only
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector (Default) Lockable DC Jack Connector (colay)	Lockable DC Jack Connector
功耗	Intel® i7-7600, DDR4 16GB, 2.3A@ +12V(TYPICAL)	
显示		
控制器	Intel® HD Graphics 510/620	
LVDS/eDP	LVDS (18/24-bit 2CH) 1920 x 1200	—
显示接口	HDMI 1.4b x 1 (up to 4096 x 2304) DDI (BIO, Optional)	HDMI 1.4b x 1 (up to 4096 x 2304)
多路显示	Up to 3 Simultaneous Displays	1 Simultaneous Display
音频		
解码器	Realtek ALC269	Realtek ALC269 (Optional)
音频接口	Line-out	Line-out (Optional)
扬声器	—	
外置 I/O		
以太网	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2
USB	USB 3.2 Gen 1 x 2	USB 3.2 Gen 1 x 2
串口	—	COM1: RS-232 x 1 (Optional) COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V) (Optional)
视频	HDMI 1.4b x 1 (up to 4096 x 2304)	
内置 I/O		
USB	USB 2.0 x 2	—
串口	COM1: RS-232 x 1 COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V)	—
视频	LVDS (18/24-bit 2CH) 1920 x 1200	—
SATA	SATA III x 1 +5V SATA Power Connector x 1	
音频	Audio Header x 1	Audio Header x 1 (Optional)
DIO/GPIO	4-bit	4-bit (Optional)
SMBus/I2C	I2C/SMBus x1 (SMBUS as default)	I2C/SMBus x1 (SMBUS as default) (Optional)
触摸	—	
风扇	4pins Smart Fan x1	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	—	
M.2	M.2 B-Key 2242 x 1 (PCIe[x1]/SATA select by BIOS) M.2 E-Key 2230 x 1 (PCIe/USB)	
其他	BIO (Optional)	—
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	163,000	
EMC	CE/FCC Class A	
备注		

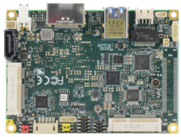
Pico-ITX主板



第一季度推出

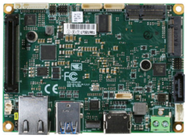
型号	PICO-EHL4	PICO-EHL4-SEMI
系统		
板型	PICO-ITX	PICO-SEMI
CPU	Intel® Atom™ x6000E series, Intel® Pentium and Celeron® N and J series processors, Intel® Atom™ x6425RE (4C, 1.9GHz, TDP 12W), Intel® Atom™ x6414RE (4C, 1.5GHz, TDP 9W), Intel® Atom™ x6212RE (2C, 1.2GHz, TDP 6W), Intel® Atom™ x6425E (4C, 2.0GHz, up to 3GHz, TDP 12W), Intel® Atom™ x6413E (4C, 1.5GHz, up to 3GHz, TDP 9W), Intel® Atom™ x6211E (2C, 1.2GHz, up to 3GHz, TDP 6W), Intel® Pentium® J6426 (4C, 1.8GHz, up to 3GHz, TDP 10W), Intel® Pentium® N6415 (4C, 1.2GHz, up to 3GHz, TDP-up 6.5W), Intel® Celeron® J6412 (4C, 1.8GHz, up to 3GHz, TDP 10W), Intel® Celeron® J6210 (2C, 1.2GHz, up to 3GHz, TDP 6.5W), (Intel® Atom™ x6427FE/x6200FE by request)	Intel® Atom™ x6000E series, Intel® Pentium®, and Celeron® N and J series processors: Intel® Atom™ x6425RE (4C, 1.9GHz, TDP-up 12W) Intel® Atom™ x6425E (4C, 2.0GHz, up to 3GHz, TDP-up 12W) Intel® Atom™ x6211E (2C, 1.2GHz, up to 3GHz, TDP-up 6W) Intel® Pentium® J6426 (4C, 2.0GHz, up to 3GHz, TDP-up 10W) Intel® Celeron® J6412 (4C, 2.0GHz, up to 3GHz, TDP-up 10W) Intel® Celeron® N6210 (2C, 1.2GHz, up to 3GHz, TDP-up 6.5W) (Intel® Atom™ x6414RE/x6413E/x6427FE/x6200FE/N6415 by customer's request)
芯片组	Intel® Elkhart Lake SoC Processor	
内存类型	LPDDR4x up to 3200MHz, up to 16GB	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255Levels	
安全	Intel® PTT (Integrated TPM)	—
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	TBD
总重量	0.18 lbs. (0.08 kg)	TBD
操作系统支持	Windows 10 (64 bit), Ubuntu 20.04.3(IOT)/Kernel 5.13	
电源		
电源要求	+12V	12V only
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector (Default), Lockable DC Jack Connector (colay)	DC Jack Connector
功耗	Intel® Atom™ x6425E, LPDDR4x onboard 16GB, 2.48A@ +12V(TYPICAL) Intel® Atom™ x6425E, LPDDR4x onboard 16GB, 2.62A@ +12V(MAX)	Intel® Atom™ x6425E, LPDDR4x onboard 16GB, 2.48A@ +12V(TYPICAL) Intel® Atom™ x6425E, LPDDR4x onboard 16GB, 2.62A@ +12V(MAX)
显示		
控制器	Intel® Atom™ x6000E series, Intel® Pentium and Celeron® N and J series processors	Intel® UHD Graphics for 10th Gen Intel® Processors
LVDS/eDP	eDP (up to HBR3, 8K x 4K 30Hz)/LVDS (18/24bit 2CH) default: LVDS	—
显示接口	HDMI 2.0b x 1 (4K x 2K 60Hz)	HDMI 2.0b x 2 (4K x 2K 60Hz)
多路显示	Up to 3 Simultaneous Displays	Up to 2 Simultaneous Displays
音频		
解码器	—	
音频接口	—	
扬声器	—	
外置 I/O		
以太网	Realtek RTL8111H-CG , 10/100/1000Base-TX, RJ-45 x 2	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2
USB	USB 3.2 Gen 2 x 2	
串口	RS-232/422/485 x 2	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)(Optional)
视频	HDMI 2.0b x 2 (4K x 2K 60Hz)	
内置 I/O		
USB	USB2.0 x 2	—
串口	RS-232/422/485 x 2	—
视频	—	
SATA	SATA III x 1, +5V SATA Power Connector x 1	eMMC 5.1, up to 128GB (Optional)
音频	—	
DIO/GPIO	4-bit	4-bit (Optional)
SMBus/I2C	SMBus/I2C and eSPI x 1 (SMBus as default, I2C select by HW BOM)	SMBus x 1 (Optional)
触摸	—	
风扇	4 pins Smart Fan x 1	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	Full size mPCIe/mSATA x 1 (SATA as default, PCIe selected by BIOS)	
M.2	M.2 E key 2230 x 1 (PCIe x 1/USB2.0)	
其他	CANBUS x 2 (optional, N6210/J6412 not support, support up to 5Mbit/s)	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40 °F ~ 176 °F (-40°C ~ 80°C)	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	489,989	
EMC	CE/FCC Class A	
备注		



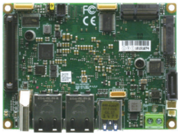


型号	PICO-APL1	PICO-APL1-SEMI	PICO-APL2
系统			
板型	PICO-ITX	PICO-SEMI	Pico-ITX
CPU	Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 6W) Atom E3950 (4C/4T,1.60GHz,up to 2.00GHz, TDP 12W) Atom E3940 (4C/4T,1.60GHz,up to 1.80GHz, TDP 9.5W) Atom E3930 (2C/2T,1.30GHz,up to 1.80GHz, TDP 6.5W)	Intel® Celeron® Processor: Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 6W)	Intel Atom® x7-E3950 (4C, 1.6GHz, up to 2GHz, TDP 12W), Intel Atom® x5-E3940 (4C, 1.6GHz, up to 1.8GHz, TDP 9.5W), Intel® Pentium® N4200 (4C, 1.1GHz, up to 2.5GHz, TDP 6W), Intel® Celeron® N3350 (2C, 1.1GHz, up to 2.4GHz, TDP 6W)
芯片组	Integrated with Intel® SoC		Intel Atom® E3900/ Pentium® N4200/ Celeron® N3350 Processor SoC
内存类型	DDR3L 1600MHz (max.8GB)/1866MHz (max.4GB), SODIMM x 1, Non-ECC *1866MHz is limited to the verified DDR module in AAEON's Approved Vendor List	DDR3L up to 1866MHz, SODIMM x 1,up to 8GB, Non-ECC	DDR3L SODIMM up to 1600MHz, up to 8GB
BIOS	UEFI		
网络唤醒	Yes		
看门狗定时器	255 Levels		
安全	TPM2.0 (Optional via LPC cable)	—	
RTC电池	Lithium Battery 3V/240mAh		Lithium Battery 3V/240mAh
尺寸	3.94" x 2.84" (100mm x 72mm)	4.8" x 3.15" x 1.73" (122 x 80 x 44 mm)	3.94" x 2.84" (100mm x 72mm)
总重量	0.18 lbs (0.08 kg)	0.59 lb (0.27 kg)	0.18 lbs. (0.08 kg)
操作系统支持	Windows 10 (64 bit) Linux Ubuntu 21.04.0/Kernel 5.10	Windows 10 (64 bit)	Windows 10 (64 bit) Ubuntu 20.04.4 / 5.13.0
电源			
电源要求	+12V		
电源类型	AT/ATX	ATX	AT/ATX (Pin header)
连接器	Phoenix 2-pin Connector (Default) Lockable DC Jack Connector (colay)	Lockable DC Jack Connector	2-pin Connector (Pin header)
功耗	Intel® N3350 Processor, DDR3L 8GB, 0.91A@+12V(TYPICAL)		Intel® Pentium® N4200, DDR3L 8GB x 1, 2.16A@ +12V(TYPICAL), Intel® Pentium® N4200, DDR3L 8GB x 1, 2.28A@ +12V(MAX)
显示			
控制器	Intel® HD Graphics 500/505	Intel® HD Graphics 500	Intel® HD Graphics 500/505
LVDS/eDP	LVDS (18/24bit 2CH) 1920 x 1200 (Optional)	—	LVDS (18/24bit 2CH)
显示接口	HDMI 1.4b x 1 (up to 3840 x 2160) DDI (BIO, Optional)	HDMI 1.4b x 1 (up to 3840 x 2160)	HDMI 1.4 x 1 (2K @30Hz) (Pin header type) DDI (BIO, Optional)
多路显示	Up to 3 Simultaneous Displays	1 Simultaneous Display	Up to 2 Simultaneous Displays
音频			
解码器	Realtek ALC897/892	Realtek ALC897/892 (Optional)	Realtek 888/897
音频接口	Line-out	Line-out (Optional)	Line out
扬声器	—		—
外置 I/O			
以太网	Intel® i210/i211, 10/100/1000Base, RJ-45 x 1	Intel® i210, 10/100/1000Base, RJ-45 x 1	Intel® i210AT/i210IT, 10/100/1000Base x 1 (Pin header) *LED in separated pin header
USB	USB 3.2 Gen 1 x 2		USB 3.2 Gen 1 x 2
串口	—	COM1: RS-232 x 1 (Optional) COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V) (Optional)	—
视频	HDMI 1.4b x 1 (up to 3840 x 2160)		HDMI 1.4 x 1 (2K @30Hz) (Pin header type)
内置 I/O			
USB	USB 2.0 x 1	—	USB2.0 x 1
串口	COM1: RS-232 x 1, COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V)	—	COM1: RS-232 x 1 COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V)
视频	LVDS (18/24bit 2CH) 1920 x 1200 (Optional)	—	
SATA	SATA III x 1, +5V SATA Power Connector x 1		SATA III x 1 +5 SATA Power Connector x 1
音频	Line-out	Line-out (Optional)	Line-out x 1
DIO/GPIO	4-bit	4-bit (Optional)	4-bit
SMBus/I2C	SMBUS/I2C x 1 (SMBUS as default)	SMBUS/I2C x 1 (SMBUS as default) (Optional)	SMBus/I2C x 1 (SMBus as default, I2C selected by HW BOM)
触摸	—		
风扇	—		
SIM	—		
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset		
其他	—		
扩展			
Mini PCI-E/mSATA	Half-size Mini Card (mPCIe as default) x 1, Full size mPCIe/mSATA or USB2.0 x 1 (SATA as default, PCIe selected by HW BOM)		Full size Mini Card mPCIe/ mSATA or USB2.0 x 1 (SATA as default, mPCIe selected by HW BOM) Half-size Mini Card x 1 (mPCIe as default)
M.2	—		—
其他	BIO (Optional)	—	BIO x 1 (Optional) SMBus/I2C x 1 (SMBus as default, I2C selected by HW BOM)
环境 & 认证			
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C) with 0.5 m/s airflow	32 °F~ 140 °F (0°C ~ 60°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)		-40 °F ~ 176 °F (-40°C ~ 80°C)
工作湿度	0% ~ 90% relative humidity, non-condensing		
MTBF (小时)	170,000		525,137
EMC	CE/FCC Class A		
备注			

备注: 所有规格如有变更，恕不另行通知。

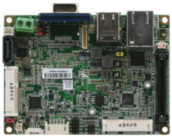


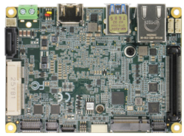
型号	PICO-APL3	PICO-APL3-SEMI
系统		
板型	PICO-ITX	PICO-SEMI
CPU	Intel® Atom™/Celeron®/Pentium® Processor: Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 6W) Atom E3950 (4C/4T,1.60GHz,up to 2.00GHz, TDP 12W) Atom E3940 (4C/4T,1.60GHz,up to 1.80GHz, TDP 9.5W) Atom E3930 (2C/2T,1.30GHz,up to 1.80GHz, TDP 6.5W)	Intel® Celeron®/Pentium® Processor: Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 6W)
芯片组	Integrated with Intel® SoC	
内存类型	Onboard DDR3L 2GB (Optional to 4GB)	Onboard DDR3L up to 4GB
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM2.0 (Optional)	—
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	W/O heat sink: 4.8"" x 3.15"" x 1.18"" (122 x 80 x 30 mm) W/ heat sink: 4.8"" x 3.15"" x 1.73"" (122 x 80 x 44 mm)
总重量	0.18 lbs (0.08 kg)	W/O heat sink: 0.38 lb (0.17 kg) W/ heat sink: 0.91 lb (0.41 kg)
操作系统支持	Windows 10 (64 bit)	
电源		
电源要求	+12V	
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector (Default), Lockable DC Jack Connector (colay)	DC Jack Connector
功耗	Intel® N4200 processor, DDR3L 4GB, 1.1A@12V	Intel® N4200 processor, DDR3L 4GB , eMMC 32GB, 1.1A@+12V(TYPICAL)
显示		
控制器	Intel® HD Graphics 500/505	
LVDS/eDP	eDP x 1 (up to 3840x2160@60Hz, Optional)	—
显示接口	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz), DDI (BIO, Optional)	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)
多路显示	Up to 3 Simultaneous Displays	1 Simultaneous Display
音频		
解码器	Realtek ALC269	Realtek ALC269 (Optional)
音频接口	Line-in/Line-out/MIC	Line-out (Optional)
扬声器	Amplifier Header	Amplifier Header (Optional)
外置 I/O		
以太网	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 1	
USB	USB 3.2 Gen 1 x 2	
串口	—	COM1, COM2 (RS232) (Optional)
视频	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)	
内置 I/O		
USB	USB 2.0 x 2 (Internal, co-use with FAN connector)	—
串口	COM1, COM2 (RS232)	—
视频	eDP x 1 (up to 3840x2160@60Hz, Optional)	—
SATA	SATA III x 1 +5V SATA Power Connector x 1 eMMC 16GB (Optional to 32GB/64GB/128GB)	SATA III x 1 +5V SATA Power Connector x 1 eMMC 32GB
音频	Audio Header x 1	—
DIO/GPIO	4-bit	4-bit (Optional)
SMBus/I2C	I2C/I2S x 1 (I2C as default)	I2C/I2S x 1 (I2C as default) (Optional)
触摸	—	
风扇	—	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	—	
M.2	M.2 E-Key 2230 x 1 (PCIe/USB), M.2 B-Key 2280 x 1 (SATA/USB)	
其他	MIPI-CSI x 2 Lanes (Optional) MIPI-CSI x 4 Lanes (Optional) BIO (Optional)	—
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C) with 0.5 m/s airflow
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	110,000	
EMC	CE/FCC Class A	
备注		TAIWAN EXCELLENCE 2018



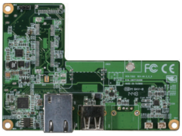
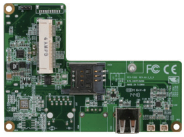
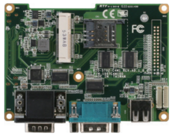
型号	PICO-APL4	PICO-APL4-SEMI
系统		
板型	PICO-ITX	PICO-SEMI
CPU	Intel® Atom™/Celeron®/Pentium® Processor: Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 6W) Atom E3950 (4C/4T,1.60GHz,up to 2.00GHz, TDP 12W) Atom E3940 (4C/4T,1.60GHz,up to 1.80GHz, TDP 9.5W) Atom E3930 (2C/2T,1.30GHz,up to 1.80GHz, TDP 6.5W)	Intel® Celeron®/Pentium® Processor: Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 6W)
芯片组	Integrated with Intel® SoC	
内存类型	Onboard DDR3L 2GB (Optional to 4GB)	Onboard DDR3L up to 4GB
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	—	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	4.80" x 3.15" x 1.97" (122 mm x 72 mm x 50 mm)
总重量	0.18 lbs. (0.08 kg)	0.88 lb (0.4 kg)
操作系统支持	Windows 10 (64 bit)	
电源		
电源要求	+12V	
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector (Default) Lockable DC Jack Connector (colay)	DC Jack Connector
功耗	Intel®N4200 processor, DDR3L 4GB, 1.43A@12V	
显示		
控制器	Intel® HD Graphics 500/505	
LVDS/eDP	eDP x 1 (up to 3840x2160@60Hz, Optional)	—
显示接口	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz) DDI (BIO, Optional)	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)
多路显示	Up to 3 Simultaneous Displays	1 Simultaneous Display
音频		
解码器	—	
音频接口	—	
扬声器	—	
外置 I/O		
以太网	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2	
USB	USB 3.2 Gen 1 x 2	
串口	—	
视频	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)	
内置 I/O		
USB	USB 2.0 x 2 (Internal, co-use with FAN connector)	—
串口	COM1: RS-232 x 1, COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V)	COM1: RS-232 x 1 (Optional) COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V) (Optional)
视频	eDP x 1 (up to 3840x2160@60Hz, Optional)	—
SATA	SATA III x 1 +5V SATA Power Connector x 1 eMMC 32GB (Optional to 16GB/64GB/128GB)	
音频	—	
DIO/GPIO	4-bit	4-bit (Optional)
SMBus/I2C	I2C/SMBus x 1 (I2C as default)	I2C/SMBus x 1 (I2C as default) (Optional)
触摸	—	
风扇	—	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	—	
M.2	M.2 E-Key 2230 x 1 (PCIe/USB) M.2 B-Key 2280 x 1 (SATA/USB)	
其他	BIO (Optional)	—
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C) with 0.5 m/s airflow
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (小时)	191,895	191,895
EMC	CE/FCC Class A	CE/FCC Class A
备注		

Pico-ITX主板

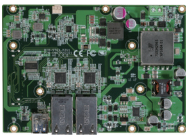
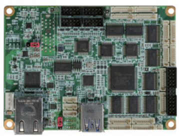




型号	PICO-BT01	PICO-EHL1
系统		
板型	PICO-ITX	
CPU	Intel® Atom™/ Celeron® Processor: Celeron® J1900 (4C/4T, 2.00GHz, up to 2.42GHz, TDP 10W) Celeron® N2807 (2C/2T, 1.58GHz, up to 2.16GHz, TDP 4.3W) Atom™ E3845 (4C/4T, 1.91 GHz, TDP 10W) Atom™ E3825 (2C/2T, 1.33 GHz, TDP 6W)	Intel® Atom™ x6000E series, Intel® Pentium®, and Celeron® N and J series processors: Intel® Atom™ x6425RE (4C, 1.9GHz, TDP-up 12W) Intel® Atom™ x6425E (4C, 2.0GHz, up to 3GHz, TDP-up 12W) Intel® Atom™ x6211E (2C, 1.2GHz, up to 3GHz, TDP-up 6W) Intel® Pentium® J6426 (4C, 2.0GHz, up to 3GHz, TDP-up 10W) Intel® Celeron® J6412 (4C, 2.0GHz, up to 3GHz, TDP-up 10W) Intel® Celeron® N6210 (2C, 1.2GHz, up to 3GHz, TDP-up 6.5W) (Intel® Atom™ x6414RE/x6413E/x6427FE/x6200FE/N6415 by customer's request)
芯片组	Integrated with Intel ® SoC	Intel® Elkhart Lake SoC Processor
内存类型	DDR3L up to 2133MHz, SODIMM x 1, up to 8GB,Non-ECC	DDR4 up to 3200MHz, SODIMM x 1, up to 32GB, support IBECC (select SKUs)
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	—	TPM2.0 (Optional)
RTC电池	Lithium Battery 3V/240mAh	
尺寸	3.94" x 2.84" (100mm x 72mm)	
总重量	0.18 lbs (0.08 kg)	
操作系统支持	Windows 10 (64 bit), Windows 7 (64 bit), Ubuntu 21.04.3/Kernel 5.11	Windows 10 (64 bit), Ubuntu 20.04.3(IOT)/Kernel 5.13
电源		
电源要求	+12V	
电源类型	AT/ATX	
连接器	Phoenix 2-pin Connector (Default), Lockable DC Jack Connector (colay)	
功耗	Intel® J1900, DDR3L 1333MHz 8GB 1.14A@ +12V(TYPICAL)	TBD
显示		
控制器	Intel® HD Graphics for Intel Atom® Processor Z3700 Series	Intel® UHD Graphics for 10th Gen Intel® Processors
LVDS/eDP	LVDS (18/24-bit) up to 1400 x 900 @60Hz	eDP/LVDS (18/24bit 2CH) 1920 x 1200 (default: LVDS)
显示接口	VGA (up to 2048 x 1152 @60Hz) or DP (up to 2560 x 1400 @60Hz)	HDMI 1.4b x1 (up to 3840 x 2160), DDI (BIO, Optional)
多路显示	Up to 2 Simultaneous Displays	Up to 3 Simultaneous Displays
音频		
解码器	Realtek ALC897/892	—
音频接口	Line-out	—
扬声器	—	
外置 I/O		
以太网	Intel® i210, 10/100/1000Base, RJ-45 x 1	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 1
USB	USB 3.2 Gen 1 x 1 USB 2.0 x 1	USB 3.2 Gen 2 x 2
串口	—	
视频	VGA (up to 2048 x 1152 @60Hz) or DP (up to 2560 x 1400 @60Hz)	HDMI 1.4b x1 (up to 3840 x 2160)
内置 I/O		
USB	USB 2.0 x 1	USB 2.0 x 2
串口	COM1: RS-232 x 1, COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V)	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)
视频	LVDS (18/24-bit) up to 1400 x 900 @60Hz	eDP/LVDS (18/24bit 2CH) 1920 x 1200 (default: LVDS)
SATA	SATA II (3.0Gb/s) x 1, +5V SATA Power Connector x 1	SATA III x 1, +5V SATA Power Connector x 1
音频	Line-out	—
DIO/GPIO	4-bit	4-bit
SMBus/I2C	I2C/SMBus x1 (SMBUS as default)	SMBUS/I2C x 1 (SMBUS as default)
触摸	—	
风扇	—	4pins Smart Fan x1
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	Full size mPCle/mSATA or USB2.0 x 1 (SATA as default, PCle selected by HW BOM)	Full size mPCle/mSATA x 1 (SATA as default, PCle selected by BIOS)
M.2	—	M.2 B key 2242 x 1 (PCle[x2]/USB2.0)
其他	BIO (Optional)	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C), WiTAS 2 -40°F ~ 185°F (-40°C ~ 85°C)	
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	80,000	TBD
EMC	CE/FCC Class A	
备注	ICT Month Innovative Elite 2016 Top 100 Awards TAIWAN EXCELLENCE 2015	

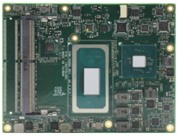
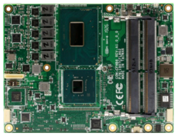
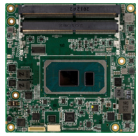




型号	BIO-ST01-L1U2	BIO-ST01-M1U1	BIO-ST02-C4M1
系统			
板型	2.5" Board		
BIO	80-Pin high speed board to board connector		
电源要求	Power Supplied from MB via board to board connector		
尺寸	3.94" x 2.84" (100mm x 72mm)		
总重量	0.44 lb (0.2 kg)		
工作温度	32°F ~ 140°F (0°C ~ 60°C)		
存储温度	-40 °F ~ 176°F (-40°C ~ 80°C)		
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	—		
操作系统支持	Windows 10 (64 bit)		
I/O			
以太网	Realtek 8111E, 10/100/1000Base-TX, RJ-45 x 1	—	
USB	USB 2.0 x 2 on rear I/O	USB 2.0 x 1 on rear I/O	
音频	Speaker Out with 2W Amp	Speaker Out with 2W Amp	—
扩展接口	SMbus x 1		—
PCIe	—	Mini-Card x 1	Mini-Card x 1 (full size), SIM x 1
串口	—		COM1, COM2 RS-232 by Pin Header COM3, COM4 RS-232 on Rear I/O
SIM	—	SIM Slot x 1	—
DIO	—		

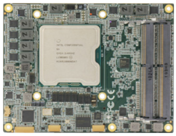
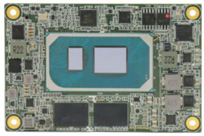
型号	BIO-ST03-P2U1	BIO-ST02-C14D32
系统		
板型	2.5" Board	
BIO	80-Pin high speed board to board connector	
电源要求	Power Supplied from MB via board to board connector	
尺寸	3.94" x 2.84" (100mm x 72mm)	
总重量	0.44 lb (0.2 kg)	
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40 °F ~ 176°F (-40°C ~ 80°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
认证	—	CE,FCC
操作系统支持	Windows 10 (64 bit)	
I/O		
以太网	Realtek 8111E, 10/100/1000Base-TX, RJ-45 x 1	Intel® i211, 10/100/1000Base-TX x 1
USB	USB 2.0 x 2 on rear I/O	USB 3.2 Gen 1 x 1 & USB 2.0 x 3 or USB 2.0 x5(for PICO-BT01)
音频	Speaker Out with 2W Amp	Speaker output with 2W Amp.
扩展接口	SMbus x 1	PCIe [x1] x1 (optional), LPT x1
PCIe	—	
串口	—	COM x14, RS-232 by Pin Header
SIM	—	
DIO	—	32 bits

COM Express CPU模块

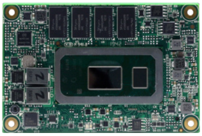
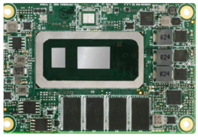
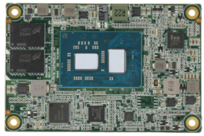




型号	COM-TGHB6	COM-CFHB6	COM-TGUC6
系统			
板型	COM Express Basic Size, Type 6		COM Express Mini size, Type 6
CPU	11th Generation Intel® Xeon/Core™ Processor	8th/9th Gen Intel® Core™/ Xeon™-E Series Processor	11th Generation Intel® Core™ Processor Family (formerly Tiger Lake UP3)
CPU频率	Up to 2.6 GHz, 8 Core, W-11865MRE/ I7-11850HE	Up to E-2276ME (2.8 GHz)	Up to 1.8 GHz, i7-1185GRE
芯片组	Intel 500 series PCH QM580E/RM590E	Intel® QM370/CM246 PCH	11th Gen Intel® Core™ Series Processor
内存类型	SODIMM DDR4 3200 Socket x 2	DDR4, SO-DIMM x 3	DDR4, SO-DIMM x 2
最大内存容量	Up to 64 GB (ECC Support by SKU)	96GB, ECC Support (only with CM246 PCH)	32 GB
BIOS	AMI BIOS (UEFI)	AMI UEFI	
网络唤醒	Yes		
看门狗定时器	255 Levels		
电源要求	+12 V and +5 VSB for ATX, +12V for AT		
电源支持类型	AT/ATX		
功耗 (标准)	5.26A@12V,W-11865MRE	12V@4.65A , full load, E-2276ME	3.5A@12V, full load, i7-1185GRE
尺寸 (L x W)	4.92" x 3.75" (125mm x 95mm)		3.75" x 3.75" (95mm x 95mm)
工作温度	32°F ~ 140°F (0°C ~ 60°C),	32°F ~ 140°F (0°C ~ 60°C) -40°F ~ 185°F (-40°C ~ 85°C) Option	32°F ~ 140°F (0°C ~ 60°C) -40°F ~ 185°F (-40°C ~ 85°C) Option
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)		
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	CE / FCC Class A		
显示			
图形控制器	Intel® UHD Graphics	Intel® GT2-P630 (Xeon series)/ GT2-630 (Core I series)	Intel® Iris® Xe Graphics Intel® UHD Graphics for 11th Gen Intel® Processors
视频输出	DDI x 3 LVDS or eDP x 1 (Default: LVDS, 18/24b 2CH LVDS, or 4 lane eDP) VGA x 1	3 Simultaneous Displays: 18/24-bit 2 Channel LVDS/eDP x 1 (Default: LVDS), DDI x 2 (Up to 3x DDI shared with VGA), VGA x 1	4 Simultaneous Displays: Single/Dual Channel LVDS (18/24bit) or eDP, DDI x 3, VGA x 1
I/O			
以太网	Intel® i225/i226LM/IT GbE x 1	Intel® i219 GbE x 1	Intel® i225LM GbE x 1
音频	High Definition Audio Interface		
USB端口	USB 2.0 x 8, USB 3.2 Gen 2 x 4		
串口	2-Wire UART (Tx/Rx) x 2		
HDD接口	SATA3 x 4		SATA 3 x 2
扩展槽	PCIe 4.0 [x16] x 1, PCIe 3.0 [x1] x 8 LPC x 1 SMBus x 1 I2C x 1	PCIe[x1] x 8 PCIe[x16] x 1 LPC SMBus I2C	PCIe[x1] x 5 PEG[x4] x 1 LPC SMBus I2C
GPIO	8-bit		
板载存储	—		
TPM	TPM 2.0		
备注			

备注: 所有规格如有变更，恕不另行通知。

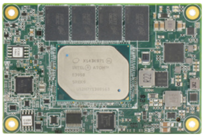




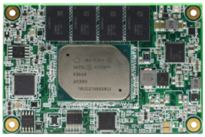
型号	COM-WHUC6	COM-ICDB7	NanoCOM-TGU
系统			
板型	COM Express Compact size, Type 6	PICMG COM Express R3.0, Type 7	COM Express Mini size, Type 10
CPU	8th Generation Intel® Core™ ULT Series Processor	Intel® Idaville Platform XEON-D1700 LCC Processor	11th Generation IntelCore™ Processor
CPU频率	—	Up to D-1746TER (2.0 GHz)	Up to i7-1185G7E, 1.8GHz
芯片组	8th Generation Intel® Core™ SoC	SoC	11th Generation Intel® Core™ SoC
内存类型	DDR4, SO-DIMM x 2	DDR4 SODIMM Socket x2	Onboard LPDDR4x
最大内存容量	64GB	Up to 64 GB (ECC Support by sku)	16 GB
BIOS	AMI UEFI	AMI BIOS (UEFI)	AMI UEFI
网络唤醒	Yes		
看门狗定时器	255 Levels		
电源要求	+12 V and +5 VSB for ATX, +12V for AT	+12 V and +5 VSB for ATX, +12V for AT	+12 V and +5 VSB for ATX, +12V for AT
电源支持类型	AT/ ATX	AT (default) / ATX	AT/ATX
功耗 (标准)	2.61A@12V, full load, i7-8665UE	7.75A @12V, D-1746TER	2.75A@12V, full load, i7-1185GRE
尺寸 (L x W)	3.75" x 3.75" (95mm x 95mm)	4.92" x 3.75" (125mm x 95mm)	3.31” x 2.17” (84mm x 55mm)
工作温度	32°F~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C),	32°F ~ 140°F (0°C ~ 60°C) -40°F ~ 185°F (-40°C ~ 85°C) Option
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	-40°F ~ 185°F (-40°C ~ 85°C)	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	CE/FCC Class A	CE / FCC Class A (Pre-test with Class B standard)	CE/FCC
显示			
图形控制器	Intel® UHD Graphics 620 / 610	—	—
视频输出	3 Simutaneous Display : Single/Dual Channel LVDS (18/24bit) or eDP, DDI x 2 (Up to 2x DDI shared with VGA)	—	Dual Display: eDP, DDI x 1
I/O			
以太网	Intel® i219 GbE x 1	1GbE: Intel® i210IT GbE 10GbE: 4x10G Base-KR to carrier	Intel i225LM 2.5GbE x 1
音频	High Definition Audio Interface	—	High Definition Audio Interface
USB端口	USB 2.0 x 8, USB 3.2 Gen 2 x 4	USB2.0 x 4, USB3.2 Gen1	USB 2.0 x 8, USB 3.2 10Gbps x 2
串口	2-Wire UART (Tx/Rx) x 2		
HDD接口	SATA 3 x 2		
扩展槽	PCIe[x1] x 4 PCIe[x4] x 1 (default) LPC SMBus I2C	PCIe [x16] x1, 4x PCIe [x4] I2C (Windows 10 Ready.) LPC SMBus	PCIe [x1] x 4 LPC x 1 SMBus x 1 I2C x 1
GPIO	8-bit		
板载存储	eMMC up to 64GB (Optional)	—	NVMe, up to 256GB
TPM	TPM 2.0		fTPM
备注			

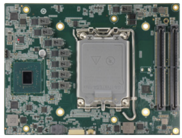




型号	NanoCOM-WHU	NanoCOM-WHU Rev.B	NanoCOM-EHL
系统			
板型	COM Express Mini size, Type 10		
CPU	8th Generation Intel® Core™/Celeron™ U Series Processor		Intel Atom® x6000E, Pentium® and Celeron® series Processor
CPU频率	Up to i5-8365UE, 1.60GHz	Up to i7-8665UE, 1.70GHz	Up to x6425E, 2.0GHz
芯片组	8th Generation Intel® Core™/Celeron™ U Series SoC		SoC
内存类型	Onboard DDR4		Onboard LPDDR4
最大内存容量	8GB 8GB		16 GB
BIOS	AMI UEFI		
网络唤醒	Yes		
看门狗定时器	255 Levels		
电源要求	+12 V and +5 VSB for ATX, +12V for AT		
电源支持类型	AT/ATX		
功耗 (标准)	2.23A@12V, full load, i5-8365UE	2.10A@12V, full load, i7-8665UE	1.44A@12V, full load, x6425E
尺寸 (L x W)	3.31” x 2.17” (84 mm x 55 mm)		
工作温度	32°F ~ 140°F (0°C ~ 60°C), -40°F ~ 185°F (-40°C ~ 85°C) Option		32°F ~ 140°F (0°C ~ 60°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)		
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	CE/FCC Class A		
显示			
图形控制器	Intel® UHD Graphics 620 / 610	Intel® UHD Graphics 620 / 610	Intel® UHD Graphics for 10th Gen Intel® Processors
视频输出	Dual Display: eDP, DDI x1	Dual Display : LVDS LCD/eDP, DDI x 1 Single Channel LVDS (18/24 bit)	Dual Display : LVDS LCD/eDP, DDI x 1 Single Channel LVDS (18/24 bit)
I/O			
以太网	Intel® i219LM GbE x 1	Intel® i219 GbE x 1	Intel i226IT 2.5GbE x 1
音频	High Definition Audio Interface		
USB端口	USB 2.0 x 8, USB 3.2 Gen 2 x 2		USB 2.0 x 8, USB 3.2 10Gbps x 2
串口	2-Wire UART (Tx/Rx) x 2		2-Wire UART (Tx/Rx) x 2
HDD接口	SATA 3 x 2		
扩展槽	PCIe[x1] x 4 LPC SMBus I2C		
GPIO	8-bit		
板载存储	eMMC up to 64GB (Optional)	—	eMMC up to 64GB (Optional)
TPM	fTPM		
备注			

备注: 所有规格如有变更，恕不另行通知。



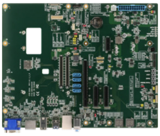
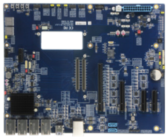
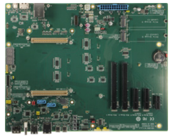




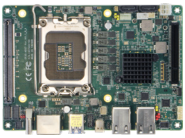
型号	NanoCOM-APL-B10	NanoCOM-APL	HPC-ADSC / HPC-RDSC
系统			
板型	COM Express, Mini size, Type 10		COM-HPC R1.0 Client size C
CPU	Intel® Atom™/Celeron®/Pentium® Processor		12th/13th Gen Intel® Core™ Series Processor (Formerly Alder Lake-S & Raptor Lake-S)
CPU频率	Up to N4200, 2.00GHz	Up to J1900, 2.00GHz	TBD
芯片组	Intel® Atom™/Celeron®/Pentium® SoC		Intel® R680E
内存类型	Onboard LPDDR4		SODIMM DDR5 4800MHz Socket x 2
最大内存容量	8GB		Up to 64GB (ECC)
BIOS	AMI UEFI		AMI BIOS (UEFI)
网络唤醒	Yes		
看门狗定时器	255 Levels		
电源要求	+12 V and +5 VSB for ATX, +12V for AT		
电源支持类型	AT/ATX		
功耗 (标准)	0.6A@12V, full load, N4200	0.82A@12V, full load, E3950	TBD
尺寸 (L x W)	3.31" x 2.17" (84mm x 55mm)	3.31" x 2.17" (84mm x 55mm)	6.30" x 4.72" (160mm x 120mm)
工作温度	32°F ~ 140°F (0°C ~ 60°C) -40°F ~ 185°F (-40°C ~ 85°C) Option		32°F ~ 140°F (0°C ~ 60°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)		
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	CE/FCC Class A		
显示			
图形控制器	Intel® HD Graphic 505/500		Intel®UHD Graphics 770
视频输出	Dual Display : LVDS LCD/eDP, DDI x 1 Single Channel LVDS (18/24 bit)		eDP x 1, DDI x 3
I/O			
以太网	Intel® i226IT 2.5GbE x 1	Intel® i210AT GbE x 1	2.5GbE: Intel® I226LM x2
音频	High Definition Audio Interface		Soundwire
USB端口	USB 2.0 x 8, USB 3.2 Gen 1 x 2		USB 2.0 x 8, USB 3.2 x 4 (Up to Gen2 support)
串口	2-Wire UART (Tx/Rx) x 2		4-Wire UART (Tx/Rx) x2
HDD接口	SATA3 x 2		
扩展槽	PCIe [x1] x 4 (up to 3 devices) LPC SMBus I2C		PEG[x16] x1 PCIe [x4] x3 PCIe [x1] x8 eSPI SPI I2C SMBus
GPIO	8-bit from PCH	8-bit	12-bit
板载存储	eMMC up to 64GB (Optional)		M.2 2280M (NVMex4)
TPM	fTPM	—	TPM 2.0
备注			

备注: 所有规格如有变更，恕不另行通知。

COM Express载板

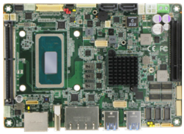




型号	ECB-920A-A11	ECB-927A	ECB-980A
系统			
板型	ATX	COM Express Basic size Type 7 Carrier board in ATX form factor	COM HPC Client sizeA/B/C
COM Express连接器	x 2 (Row A,B & Row C,D)	X 2 (Row AB and Row CD, Type 7 pin out)	X 2 (J1 and J2)
I/O芯片组	—		
前面板控制	10-pin (5x2) header		
以太网	10/100/1000/2500 Base-TX, RJ45 x 1 (From CPU Module)	Intel x557AT4: 4x 10G Base T 1x GbE (source from module)	2x 1G~2.5G 1x for 25G expansion
扩展接口	PCIe[x4] slot x 2 PCIe[x16] slot x 1	PCIe [x4] x 2 PCIe[x8] PCIe[x16] (PEG port)	PCIe [x1] x1 (for BMC) PCIe [x4] x2 (group 0 lane 0~7) PCIe [x16] x2 (group 1 and group 2)
电源支持类型	ATX	Standard 24pin ATX + 4pin 12V	Standard 24pin ATX + 4pin 12V
CMOS电池	RTC battery socket x 1	CR2032 Holder x 1	
BIOS	—		
主板尺寸	12" x 9.6"(304mm x 244mm)	305mm x 244mm	
总重量	1.32 lb (0.6 kg)	0.7 kg	
工作温度	32°F ~ 140°F (0°C ~ 60°C)		
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	-40°C ~ 80°C	-40°C ~ 80°C
工作湿度	0% ~ 90% relative humidity, non-condensing		
MTBF (小时)	—		CE/FCC Class A
显示			
DVT/CRT/VGA	D-SUB15 connector x 1	N/A. via PCIe Graphic card	HDMI x1, DP x2
LVDS / eDP	LVDS : 40pin (20x2) Dual Channel LVDS connector eDP : 30pin board wire connector	N/A. via PCIe Graphic card	eDP x1
SDVO	—	N/A. via PCIe Graphic card	—
DDI	Display Port x 3 (Dual x1, Single x 1)	N/A. via PCIe Graphic card	—
I/O			
存储	SATA3 x 4	SATA x2	SATA x2 M.2 NVMe[x4] x2
串口	COM Port (2-Wire UART Tx/Rx) x 2	2-wire UART x 2 (TX/RX)	4-wire UART x2
USB	Type A connector x 8 (USB2.0 x 4 , USB 3.2/2.0 x 4)	USB3.2 x 4	USB3.2 Gen2x2 Type C x2 USB3.2 Gen2 Type A x2
音频	Audio Jack, supports Line-in, Line-out, Microphone	N/A	Board to board connector reserved
PS/2端口	—		
GPIO	8-bit Programmable	8-bit	12-bit
开关/按钮	Power Button x 1 / Reset Button x 1		
调试LED	80 Port	7-seg LED x2 80 Port Post code indicator	7-seg LED x2 80 Port Post code indicator
I2C	1		
扩展接口	LPC, SMBus, eSPI, CAN Bus, 4 pin fan connector, Micro SD Card Slot x 1	SMBus, LPC/eSPI slot	I2C, SMBus, LPC/eSPI slot
备注			



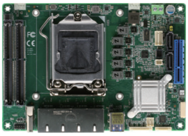
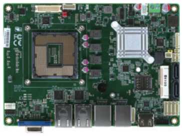
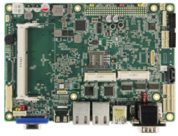
型号	EPIC-ADS7	EPIC-ADS7-PUC
系统		
板型	4" EPIC Board	4" EPIC System
CPU	12th Generation Intel® Core™ Series Processor (TDP : 35W/65W)	12th Generation Intel® Core™ Series Processor
CPU频率	12C/20T (Up to 4.8 GHz)	—
芯片组	Intel® 600 Series Desktop Chipsets	Intel® 600 Series Desktop Chipsets
内存类型	DDR5 SODIMM x 2 , up to 4800MT/s	DDR5 SODIMM x 2 (up to 4800MT/s)
最大内存容量	Up to 64GB	
BIOS	AMI	UEFI
网络唤醒	Yes	
看门狗定时器	255 Levels	
电源要求	+12V	
电源支持类型	AT/ ATX	
功耗 (标准)	TBD	TBD
尺寸 (L x W)	4.53" x 6.50" (115mm x 165mm)	10.2" x 6.3" x 2.1" (260mm x 160mm x 55mm)
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C) with 0.5 m/s airflow
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	TBD	TBD
认证	CE/FCC ClassA	
显示		
VGA/LCD 控制器	Intel® UHD Graphics 770 / Intel® UHD Graphics 730 (by CPU sku)	
视频输出	4 Display Simultaneously : Dual Channel (24/48bit) LVDS or eDP x 1 DP++ 1.4a x 2 HDMI 2.0b x 1	DP++ 1.4b x 2 , HDMI 2.0a x 1 3 Simultaneous Displays
背光逆变器支持	12V	—
I/O		
以太网	Intel® i225, 10/100/1000/2500Base, RJ-45 x 1 Intel® i219, 10/100/1000Base, RJ-45 x 1	Intel® I211AT, 10/100/1000Base, RJ45 x2 Intel® I219LM, 10/100/1000Base, RJ45 x1 Intel® I225LM, 10/100/2500Base, RJ45 x1
音频	Line in / Line Out / Mic (Pin header)	—
USB端口	USB3.2 Gen2x2 (Type C) x 1 USB3.2 Gen2 (Type A) x 4 USB 2.0 (Pin Header) x 4	USB3.2 Gen 2x 2 (Type C) x 1 USB3.2 Gen 2 (Type A) x 2 USB2.0 (Type A) x 2
串口	COM RS232/422/485 (Pin Header) x 4	COM RS232/422/485 x 2
并口	—	
HDD接口	SATA III x 2 , +5V SATA Power Connector x 2	—
SSD	The same as HDD Interface	SATA3 x 2 with +5V SATA power connector onboard
扩展槽	M.2 3052 B-key x 1 M.2 2280 M-key x 1 M.2 2230 E-key x 1 PCIe [x4] Gen3 FPC Connector x 1 PCIe [x8] Gen5 Slot x 1	M.2 3052 B key x 1 (PCIe + USB3.0/USB2.0) M.2 2280 M key x 1 (PCIe Gen4 [x4] x 1) M.2 2230 E key x 1 (PCIe + USB2.0) 3pin TCC/TSN x 1 (Optional)
DIO	8 bit (Pin Header)	DIO 8 bit x 1 (Front Panel),
TPM	TPM2.0 (Optional)	TPM 2.0
触摸	—	
SIM	Nano SIM (optional)	Nano SIM Slot x 1
其他	SMBUS x 1, LPC	—
备注		

EPIC主板



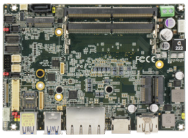
型号	EPIC-TGH7	EPIC-TGH7-PUC
系统		
板型	4" EPIC Board	4" EPIC System
CPU	11th Generation Intel® 11th Xeon™ / Core™ Processor	11th Generation Intel® Xeon / Core™ Processor Xeon W-11865MRE (8C/16T, 2.60GHz, up to 4.70GHz) i7-11850HE (8C/16T, 2.60GHz, up to 4.70GHz) i5-11500HE (6C/12T, 2.60GHz, up to 4.50GHz) i3-11100HE (4C/8T, 2.40GHz, up to 4.40GHz)
CPU频率	Xeon W-11865MRE (8C/16T, 2.60GHz, up to 4.70GHz) i7-11850HE (8C/16T, 2.60GHz, up to 4.70GHz) i5-11500HE (6C/12T, 2.60GHz, up to 4.50GHz) i3-11100HE (4C/8T, 2.40GHz, up to 4.40GHz) Celeron 6600HE (2C/2T, 2.60GHz)	Up to 4.70 GHz
芯片组	Intel® 500 Series Mobile Chipset (RM590E / HM570E)	Intel® 500 Series Chipsets
内存类型	DDR4 3200 SODIMM x 2 (ECC supported by Xeon only)	DDR4 3200 SODIMM x 2
最大内存容量	Up to 64GB	
BIOS	AMI	UEFI
网络唤醒	Yes	
看门狗定时器	255 Levels	
电源要求	+9-24V	
电源支持类型	AT/ ATX	AT/ATX, DC Jack Connector
功耗 (标准)	12V@8.32A with Xeon W-11865MRE, with 100% full loading steady status.	TBD
尺寸 (L x W)	4.53" x 6.50" (115mm x 165mm)	260 x 160 x 50 mm
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (-20°C ~ 55°C), with 0.5 m/sec air flow
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (小时)	—	TBD
认证	CE/FCC ClassA	
显示		
VGA/LCD 控制器	Intel® UHD Graphics for 11th Gen Intel® Processors	
视频输出	Dual Channel 24/48bit LVDS (Default) or eDP x 1 HDMI2.0b x 1 , DP 1.2a (DP++) x 2 , VGA x 1	DP++ 1.2a x 2, HDMI 2.0b x 1, VGA x 1 4 Simultaneous Displays
背光逆变器支持	12V/5V (Default : 5V)	—
I/O		
以太网	Intel® i225, 10/100/1000/2500Base, RJ-45 x 1 Intel® i219, 10/100/1000Base, RJ-45 x 1	Intel® I211AT, 10/100/1000Base, RJ45 x2 Intel® I219LM, 10/100/1000Base, RJ45 x1 Intel® I225LM, 10/100/2500Base, RJ45 x1
音频	Realtek ALC269 (2W Amplifier)	—
USB端口	USB3.2 Gen 2 x 4 USB2.0 x 4	USB3.2 Gen 2 (Type A) x 4, USB2.0 (Type A) x 2
串口	RS-232 x 4 RS-232/422/485 x 2	COM RS232/422/485 x 2
并口	—	
HDD接口	SATA III x 2 +5V SATA Power Connector x 1	—
SSD	Half size mSATA/mPCIe x 1 (Default mPCIe, select by BIOS)	SATA III x 2 (2.5"" SSD x 2 containable) +5V SATA Power Connector x 1 (Total up to +5V@2A limitation for 2 SATA SSD use)
扩展槽	M.2 B key 3052 x 1 (Default PCIe[x1]+USB3.0+USB2.0 , PCIe[x2]+ USB2.0 by BOM change) M.2 M key 2280 x 1 (PCIe 4.0[x4]) PCIe 4.0[x8] slot x 1 (Supply maximum 25W to the PCIe peripheral) Board to board FPC connector (PCIe[x4] x 1)	M.2 3052 B key x 1 M.2 2280 M key x 1 Mini Card (Half Size) x 1
DIO	16-bits	
TPM	TPM2.0 (Optional)	TPM 2.0
触摸	Optional	—
SIM	Nano SIM	NanoSIM x 1
其他	SMBus / I2C (Supported by BOM Change)	—
备注		

备注: 所有规格如有变更，恕不另行通知。

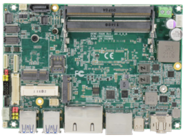




型号	EPIC-KBS9	EPIC-KBS7	EPIC-BT07
系统			
板型	4" EPIC Board		
CPU	CPU Socket Type	6th/7th Generation CPU (Socket Type, TDP 35W, 54W Only)	Intel® Atom™ E3845/Celeron® J1900/N2807
CPU频率	6th/7th Generation Intel® Core™ i3/i5/i7/Celeron® (Support up to 65W SKU)	6th/7th Generation Intel® Core™ i3/i5/i7/Celeron®	Up to 2.0 GHz
芯片组	H110/Q170 (6W)	H110, Q170 (6W)	Intel® Atom™/ Celeron® SoC
内存类型	DDR4 (Non-ECC) SODIMM x 2, 2133MHz, up to 32GB	DDR4 (Non-ECC), 2133MHz	DDR3L 1333, SODIMM x 1
最大内存容量	Up to 32GB	Up to 16GB	Up to 8GB
BIOS	AMI		
网络唤醒	Yes		
看门狗定时器	255 Levels		
电源要求	+12V, AT/ATX	12V or 9-24V (Default)	4 Pin Connector (Default) 2 Pin Phoenix Connector (Option)
电源支持类型	AT/ ATX		
功耗 (标准)	Power consumption : 12V@7.2A, total 86W (with i7-7700U, during 100% loading)	50W@Full loading	12W
尺寸 (L x W)	4.53" x 6.50" (115 mm x 165 mm)		
工作温度	32°F ~ 140°F (0°C ~ 60°C)		32°F ~ 140°F (0°C ~ 60°C) or WiTAS 2 (E3845 sku , -40°C ~ 85°C)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing		
MTBF (小时)	135,399	110,000	358,806 hrs
认证	CE/FCC		
显示			
VGA/LCD 控制器	6th/7th Generation Intel® Core™ i3/i5/i7/Celeron®		Intel® Atom™/ Celeron® SoC
视频输出	HDMI (Rear), VGA (Internal Only)	CRT/LVDS/HDMI	CRT, LVDS, HDMI
背光逆变器支持	—	Max. 12V	Max. 12V
I/O			
以太网	Intel® i211 Gigabit Ethernet x 4	LAN x 2 (Real IO) (i211 x 2)	Intel® i211 Gigabit Ethernet, RJ-45 x 2
音频	ALC269 (With Amp)	ALC892, no Amp	High Definition Audio Interface
USB端口	USB 3.2 Gen 1 x 2 (Real IO) USB2.0 x 2 (Internal)	USB 3.2 Gen 1 x 4 (Real IO) USB2.0 x 2 (Internal)	USB 2.0 x 5 USB 3.2 Gen 1 x 1
串口	COM x 2 (All Internal), RS-232/422/485	COM x 4 (COM2: RS-232/422/485)	COM1, 4, 5, 6 : RS-232 x 4 COM2, 3 : RS-232/422/485 x 1 (Ring/ +5V/ +12V)
并口	—		SPP/EPP/ECP x 1
HDD接口	SATA 3.0 x 2	SATA 3.0 x 2, SATA Power (5V)	SATA 2.0 x 1
SSD	mSATA x 1 (Full size)	mSATA x 1 (optional for mini-Card)	mSATA x 1 (Share with full-size Mini-Card by BOM)
扩展槽	Mini-card x 1 (Full Size) (No SIM) PCIe[x4] Slot x 1	Mini-card x 1, Micro SIM x 1 (Optional)	Full-size mPCIe x 1 Full size mSATA/mPCIe x 1 (Default mSATA, select by BOM Change) Micro-SD x 1 (Optional, only E3800 series) PCI-104 x 1 (Optional, only E3800 series) 16-bit DIO or LPT SMbus x 1, I2C x 1 (optional), PS/2 x 1
DIO	8-bit		16-bit
TPM	—		Optional
触摸	—		Optional
SIM	—		SIM
其他	—		
备注			

3.5” 嵌入式主板/系统

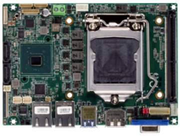


型号	GENE-APD6	GENESYSM-ADP6
系统		
板型	3.5” SubCompact Board	3.5" SubCompact Board System
CPU	Intel® 12th Generation Core™/Celeron CPU i7-1270PE (12C/16T, 3.30GHz, up to 4.50GHz, 28W, TDP-up 64W) i7-1265UE (10C/12T, 3.50GHz, up to 4.70GHz, 15W, TDP-up 55W) i5-1250PE (12C/16T, 3.20GHz, up to 4.40GHz, 28W, TDP-up 64W) i3-1220PE (8C/12T, 3.10GHz, up to 4.20GHz, 28W, TDP-up 64W) Celeron® 7305E (5C/5T, 1.00GHz, 15W)	Intel® 12th Generation Core™/Celeron CPU i7-1270PE (12C/16T, 3.30GHz, up to 4.50GHz, TDP 28W, up to 64W) i5-1250PE (12C/16T, 3.20GHz, up to 4.40GHz, TDP 28W, up to 64W) i3-1220PE (8C/12T, 3.10GHz, up to 4.20GHz, TDP 28W, up to 64W)
芯片组	Integrated with Intel® SoC	
内存类型	DDR5 4800 MHz, Dual Channel SODIMM x 2,up to 64GB	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM2.0 (NPCT750AABYX)	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75” x 4” (146mm x 101.7mm)	7.00" x 5.28" x 1.69" (178mm x 134.1mm x 43mm)
操作系统支持	Windows 10/11 (64bit), Linux Ubuntu 22.04/Kernel 5.15	
电源		
电源要求	+9-36V or +12V	+9-36V
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel® Core™ i7-1270 PE, DDR5 32GB x 2, 5.72A@ +12V(TYPICAL) Intel® Core™ i7-1270 PE, DDR5 32GB x 2, 7.95A@ +12V(MAX)	
显示		
控制器	Intel® Iris® Xe Graphics, Intel® UHD Graphics	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080 eDP1.4b HBR3, up to 3840 x 2160	—
显示接口	HDMI 2.1 x 1, up to 8K x 4K@60Hz or 4K2K 120Hz DP1.4a x 1, up to 7680 x 4320 60Hz 30bpp	HDMI 2.1 x 1, up to 8K x 4K@60Hz or 4K2K 120Hz DP1.4a (Support DP++) x 1, up to 7680 x 4320 60Hz 30bpp Type C DP1.4a
多路显示	Up to 4 Simultaneous Displays	Up to 3 Simultaneous Displays
音频		
解码器	Realtek ALC897	
音频接口	Line-in/Line-out/MIC	
扬声器	—	
外置 I/O		
以太网	Intel® i219, 10/100/1000Base Intel® i226, 10/100/1000/2500Base	Intel® i219, 10/100/1000Base Intel® i226, 10/100/2500Base
USB	USB3.2 Gen 2 x 3 USB Type C x 1 (DP1.4a, PD 5V/3A)	USB3.2 Gen 2 x 3 USB Type C x 1 (USB4.0, DP1.4a, PD 5V/3A) USB2.0 x 2
串口	—	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)
视频	HDMI 2.1 x 1, DP1.4a x 1	
内置 I/O		
USB	USB2.0 x 4	—
串口	COM1,COM2 (RS232/422/485,supports 5V/12V/RI) COM3,COM4 (RS232/422/485)	—
视频	LVDS/eDP x 1 Inverter x 1 (12V/2A)	—
SATA	SATA III x 1, +5V SATA Power Connector x 1	
音频	Audio Header x 1	
DIO/GPIO	8-Bit	
SMBus/I2C	SMBus/I2C x1 (Default: SMBus)	
触摸	—	
风扇	Smart Fan x 1	4pins Smart Fan x 1
SIM	Nano SIM x 1	
前面板	PWR LED, HDD LED, PWR button, HW Reset	HDD LED, PWR LED, Power Button, Buzzer, Reset
其他	—	
扩展		
Mini PCI-E/mSATA	—	—
M.2	M-Key 2280 x 1 (PCIe x4 Gen4) B-Key 3052/3042/2242 x 1 (PCIe x2, USB3.2+SATA, USB2.0, default: USB3.2+SATA) E-Key 2230 x 1 (PCIe, USB2.0)	M-Key 2280 x 1 (PCIe x4 Gen4) B-Key 3052/3042/2242 x 1 (PCIe x2, USB3.2+SATA, USB2.0, default: USB3.2+SATA) E-Key 2230 x 1 (PCIe, USB2.0)
其他	FPC x1 (PCIe x4 Gen4, Only support Graphic or NVME)	—
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C) 0.5 m/s air flow
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	344,735	
EMC	CE/FCC Class A	



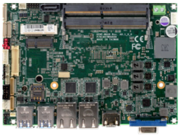

型号	GENE-TGU6	GENESYSM-TGU6
系统		
板型	3.5" SubCompact Board	3.5" SubCompact Board System
CPU	Intel® 11th Generation Core™/Celeron CPU: i7-1185G7E (4C, 1.8GHz, up to 4.4GHz, TDP-up 28W) i5-1145G7E (4C, 1.5GHz, up to 4.1GHz, TDP-up 28W) i3-1115G4E (2C, 2.2GHz, up to 3.9GHz, TDP-up 28W) Celeron® 6305E (2C, 1.8GHz,TDP 15W)	Intel® 11th Generation Core™/Celeron CPU i7-1185G7E (4C/8T, 1.80GHz, up to 4.40GHz, TDP-up 28W) i5-1145G7E (4C/8T, 1.50GHz, up to 4.10GHz, TDP-up 28W) i3-1115G4E (2C/4T, 2.20GHz, up to 3.90GHz, TDP-up 28W) Celeron® 6305E (2C/2T, 1.80GHz, TDP 15W)
芯片组	Integrated with Intel® SoC	
内存类型	DDR4 3200MHz, Dual Channel SODIMM x 2,up to 64GB,Support IBECC (select SKUs)	DDR4 up to 3200MHz, Dual Channel SODIMM x 2,up to 64GB,Support IBECC(select SKUs)
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM2.0	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	7.00" x 5.28" x 1.97" (178.0mm x 134.1mm x 50.0mm)
操作系统支持	Windows 10 (64bit) Linux Ubuntu 20.04.2/Kernel 5.8	Windows 10 (64bit) Linux Ubuntu 20.04.3(IOT)/Kernel 5.13
电源		
电源要求	+9-36V (Optional: +12V)	
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel® i7-1185G7E, DDR4 3200MHz 32GB x2, 4.96A@ +12V(TYPICAL) Intel® i7-1185G7E, DDR4 3200MHz 32GB x2, 7.32A@ +12V(MAX)	
显示		
控制器	Intel® Iris® Xe Graphics, Intel® UHD Graphics	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080 (Option: eDP1.4b up to 3840 x 2160)	—
显示接口	HDMI 2.0b x 1, up to 4K x 2K 60Hz DP1.4 x 2, up to 4K x 2K 60Hz Type C DP1.4a x 1, up to 4K x 2K 60Hz	HDMI 2.0b x 1 DP1.4 x 2 Type-C DP1.4 x 1
多路显示	Up to 4 Simultaneous Displays	
音频		
解码器	Realtek ALC897/892	
音频接口	Line-in/Line-out/MIC	Line-in/Line-out/MIC (Optional)
扬声器	—	
外置 I/O		
以太网	Intel® i219LM, 10/100/1000Base, RJ-45 x1 Intel® i225LM, 10/100/2500Base, RJ-45 x1	Intel® i219, 10/100/1000Base,RJ-45 x 1 Intel® i225/i226, 10/100/2500Base,RJ-45 x 1
USB	USB3.2 Gen 2 x 4 USB3.2 Gen 2 Type C x 1 (PD 5V/3A)	USB3.2 Gen 2 x 4 USB3.2 Gen 2 Type C x 1 (PD 5V/3A) USB2.0 x 2
串口	—	COM1 (RS232/422/485) COM2 (RS232/422/485,supports 5V/12V/RI)
视频	HDMI 2.0b x 1, DP1.4 x 2, Type C DP1.4a x 1	
内置 I/O		
USB	USB2.0 x 2	—
串口	COM1, COM3, COM4 (RS232/422/485) COM2 (RS232/422/485,supports 5V/12V/RI)	—
视频	LVDS/eDP x 1 (Default: LVDS) eDP: up to 1080P@60Hz	—
SATA	SATA III x 1, +5V SATA Power Connector x 1	
音频	Audio Header x 1	
DIO/GPIO	8-Bit	—
SMBus/I2C	SMBus/I2C x 1(Default: SMBus)	
触摸	4/5/8-wire Touch Controller x 1 (optional)	—
风扇	Smart Fan x 1	4pins Smart Fan x 1
SIM	Nano SIM x 1	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	Full-Sized mSATA/mPCIe x 1 (default: mSATA, select with BIOS)	
M.2	M-Key 2280 x 1 (PCIex4), E-Key 2230 x 1 (PCIe, USB2.0)	
其他	—	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C), WiTAS1 -4°F ~ 158 °F (-20°C ~70°C), WiTAS2 -40°F ~ 185°F (-40°C ~ 85°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	329,884	
EMC	CE/FCC Class A	

备注: 所有规格如有变更，恕不另行通知。



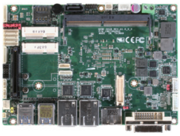
型号	GENE-CML5	GENESYS-CML5
系统		
板型	3.5" SubCompact Board	3.5" SubCompact Board System
CPU	Intel® 10th Generation Core™/Pentium/Celeron processor: i7-10700TE (8C/16T, 2.00 GHz, up to 4.40 GHz, TDP-up 35W) i5-10500TE (6C/12T, 2.30 GHz, up to 3.70 GHz, TDP-up 35W) i3-10100TE (4C/8T, 2.30 GHz, up to 3.60 GHz, TDP-up 35W) G6400TE (2C/4T, 3.20 GHz, TDP-up 35W) G5900TE (2C/2T, 3.00 GHz, TDP-up 35W)	Intel® 10th Generation Core™/Pentium/Celeron processor: i7-10700TE (8C/16T, 2.00 GHz, up to 4.40 GHz, TDP-up 35W) i5-10500TE (6C/12T, 2.30 GHz, up to 3.70 GHz, TDP-up 35W) i3-10100TE (4C/8T, 2.30 GHz, up to 3.60 GHz, TDP-up 35W) G6400TE (2C/4T, 3.20 GHz, TDP-up 35W) G5900TE (2C/2T, 3.00 GHz, TDP-up 35W)
芯片组	Intel® Q470E / H420E / Q470	Integrated with Intel® SoC
内存类型	DDR4 up to 2933MHz Dual Channel,SODIMM x 2,up to 64GB,Non-ECC	DDR4 up to 2933MHz Dual Channel,SODIMM x 2,up to 64GB,Non-ECC
BIOS	UEFI	UEFI
网络唤醒	Yes	Yes
看门狗定时器	255 Levels	255 Levels
安全	TPM2.0	TPM2.0
RTC电池	Lithium Battery 3V/240mAH	Lithium Battery 3V/240mAH
尺寸	5.75" x 4" (146mm x 101.7mm)	8.27* x 5.28" x 3.23" (210mm x 134mm x 82mm)
操作系统支持	Windows 10 (64bit) Linux Ubuntu 20.04.1/Kernel 5.4	Windows 10 (64bit) Linux Ubuntu 20.04.1/Kernel 5.4
电源		
电源要求	+12V	+12V
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel® i7-10700TE, DDR4 3200Mhz 32GB x2, 5.64A @ +12V(Typical) Intel® i7-10700TE, DDR4 3200Mhz 32GB x2, 10.63A @ +12V(Max)	Intel® i7-10700TE, DDR4 3200Mhz 32GB x2, 5.64A @ +12V(Typical) Intel® i7-10700TE, DDR4 3200Mhz 32GB x2, 10.63A @ +12V(Max)
显示		
控制器	Intel® HD Graphics 610/630	Intel® HD Graphics 610/630
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080	—
显示接口	DP++ x 1, up to 4K x 2K VGA x 1, up to 1920 x 1200	DP++ x 1 VGA x 1
多路显示	3 Simultaneous Displays	2 Simultaneous Displays
音频		
解码器	Realtek ALC897/892	—
音频接口	Line-in/Line-out/MIC	—
扬声器	—	—
外置 I/O		
以太网	Intel® i210/i211,10/100/1000Base, RJ45 x1 Intel® i219,10/100/1000Base, RJ45 x1 (Support Vpro only with i5/i7 + Q470/Q470E variant)	Intel® i210,10/100/1000Base, RJ45 x1 Intel® i219,10/100/1000Base, RJ45 x1 (support vPro on i5/i7 processors with Q470E)
USB	USB3.2 Gen 2 x 2 (Gen 2 for Q470/Q470E only)	USB3.2 Gen 2 x 2 (Q470E) USB3.2 Gen1 x 2 (H420E)
串口	—	COM RS232/422/485 x 2 (Optional)
视频	DP++ x 1,VGA x 1	DP++ x 1,VGA x 1
内置 I/O		
USB	USB2.0 x 4	USB2.0 x 4 (Optional)
串口	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)	—
视频	LVDS x 1	—
SATA	SATA III x 2 +5V SATA Power Connector x 1	SATA III x 2 +5V SATA Power Connector x 1
音频	Audio Header x 1	—
DIO/GPIO	8-bit	—
SMBus/I2C	I2C/SMbus x 1 (Default: I2C)	I2C/SMbus x 1 (Optional)
触摸	—	—
风扇	4pins Smart Fan x1	4pins Smart Fan x1
SIM	—	—
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	PWR LED, Power Button
其他	FPC x 1 (For Q470/Q 470E only)	FPC x 1 (Q470E only)
扩展		
Mini PCI-E/mSATA	—	—
M.2	M-Key 2280 x 1 (PCIe x4,SATA)	M-Key 2280 x 1 (PCIe x4,SATA)
其他	—	—
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
MTBF (小时)	380,571	380,571
EMC	CE/FCC Class A	CE/FCC Class A
备注		

3.5” 嵌入式主板/系统



型号	GENE-WHU6	GENESYS-WHU6
系统		
板型	3.5" SubCompact Board	3.5" SubCompact Board System
CPU	Intel® 8th Generation Core™ /Celeron Processor: Core i7-8665UE (4C/8T, 1.7GHz, up to 4.40GHz, TDP-up 25W) Core i5-8365UE (4C/8T, 1.6GHz, up to 4.10GHz, TDP-up 25W) Core i3-8145UE (2C/4T, 2.2GHz, up to 3.90GHz, TDP-up 25W) Celeron 4305UE (2C/2T, 2.00GHz, TDP-up 15W)	Intel® 8th Generation Core™ i7/i5/i3/Celeron SoC i7-8665UE (4C/8T, 1.7GHz, up to 4.4GHz, TDP 15W) i5-8365UE (4C/8T, 1.6GHz, up to 4.1GHz, TDP 15W) i3-8145UE (2C/4T, 2.2GHz, up to 3.9GHz, TDP 15W) Celeron® 4305UE (2C/2T, 2GHz, TDP 15W)
芯片组	Integrated with Intel® SoC	
内存类型	DDR4 up to 2400MHz Dual Channel,SODIMM x 2,up to 64GB,Non-ECC	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	—	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	7.00* x 5.28" x 1.69" (178mm x 134.1mm x 43mm)
操作系统支持	Windows 10 (64bit) Linux Ubuntu 21.04.0/Kernel 5.10	
电源		
电源要求	+9-36V (Optional: +12V)	+9-36V (Optional: +12V)
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel® i7-8665UE, DDR4 2400MHz 16GB x2, 4.83A@ +12V(TYPICAL) Intel® i7-8665UE, DDR4 2400MHz 16GB x2, 7.3A@ +12V(MAX)	Intel® i7-8665UE, DDR4 2400 MHz 16GB, 2.8A@ +12V(Typical)
显示		
控制器	Intel® UHD Graphics 610/620	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080 (Optional: eDP1.4, , up to 1920X1200)	—
显示接口	HDMI2.0a x 1, up to 3840 x 2160 VGA x 1, up to 1920 x 1200	HDMI2.0a x 1 VGA x 1
多路显示	Up to 3 Simultaneous Displays	Up to 2 Simultaneous Displays
音频		
解码器	Realtek ALC897/892	
音频接口	Line-in/Line-out/MIC	Line-in/Line-out/MIC(Optional)
扬声器	—	
外置 I/O		
以太网	Intel® i210/i211 & i219, 10/100/1000Base, RJ-45 x2	
USB	USB 3.2 Gen2 x4	
串口	—	
视频	HDMI2.0a x 1,VGA x 1	
内置 I/O		
USB	USB 2.0 x 2	
串口	COM1(RS232/422/485, supports RI) COM2 (RS232/422/485, supports 5V/12V/RI)	
视频	LVDS/eDP x 1 (Default: LVDS)	—
SATA	SATA III x 1, +5V SATA Power Connector x 1	
音频	Audio Header x 1	Audio Header x 1 (optional)
DIO/GPIO	8-bit	—
SMBus/I2C	I2C/ SMbus x 1 (Default: I2C)	
触摸	4/5/8-wire Touch Controller x 1 (optional)	—
风扇	DC Fan x 1 (optional: Smart Fan)	DC Fan x 1 (optional: Smart Fan)
SIM	Nano SIM x 1	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	PWR LED, Power Button
其他	—	
扩展		
Mini PCI-E/mSATA	Full-size mSATA/mPCIe x 1 (Default mSATA, select by BIOS)	
M.2	B-Key 2280 x1 (PCIe x 2, SATA, USB2.0, selected by BIOS) E-Key 2230 x 1 (PCIe, USB2.0)	
其他	—	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C), WiTAS2 -40°F ~ 185°F (-40°C ~85°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	354,194	
EMC	CE/FCC Class A	
备注		

3.5” 嵌入式主板/系统

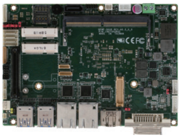


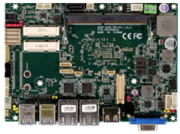
型号	GENE-KBU6	GENESYS-KBU6
系统		
板型	3.5" SubCompact Board	3.5" SubCompact Board System
CPU	Intel® 7th Generation Core™ /Celeron Processor: Intel® i7-7600U (2C/4T, 2.80GHz, up to 3.90GHz, TDP-up 25W) Intel® i5-7300U (2C/4T, 2.60GHz, up to 3.50GHz, TDP-up 25W) Intel® i3-7100U (2C/4T, 2.40GHz, TDP-up 25W) Intel® Celeron 3965U (2C/2T, 2.20GHz, TDP-up 15W)	
芯片组	Integrated with Intel® SoC	
内存类型	DDR4 up to 2133MHz, SODIMM x 1, up to 16GB, Non-ECC	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM 2.0 (Optional)	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	6.69* x 5.39" x 1.91" (170mm x 137mm x 48.5mm)
操作系统支持	Windows 10 (64bit) Linux Ubuntu 21.04.0/Kernel 5.10	
电源		
电源要求	+9-36V (Optional: +12V)	+9-36V (Optional: +12V)
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel® i7-7600U, DDR4 2666MHz 32GB, 3.26A@ +12V(TYPICAL) Intel® i7-7600U, DDR4 2666MHz 32GB, 4.22A@ +12V(MAX)	Intel® i7-7600U, DDR4 2400MHz 16GB, 1.85A@ +12V(Typical)
显示		
控制器	Intel® HD Graphics 610/620	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080	—
显示接口	Default: DP1.2 x 1(up to 3840 x 2160) + DVI-D x 1 Optional: DVI-I x 1(with VGA signal)	DP1.2 x 1 + DVI-D x 1
多路显示	Up to 3 Simultaneous Displays	Up to 2 Simultaneous Displays
音频		
解码器	Realtek ALC897/892	—
音频接口	Line-in/Line-out/MIC	—
扬声器	—	
外置 I/O		
以太网	Intel® i210/i211, 10/100/1000Base-TX, RJ-45 x 2	
USB	USB 3.2 Gen 1 x 4	
串口	—	
视频	DP1.2 x 1,DVI-D x 1	
内置 I/O		
USB	USB 2.0 x 2	
串口	COM1(RS232), COM2, COM3, COM4(RS232/422/485, support 5V/12V/RI)	
视频	LVDS x 1	—
SATA	SATA III x 1, +5V SATA Power Connector x 1	
音频	Audio Header x 1	—
DIO/GPIO	8-bit	—
SMBus/I2C	SMBus x 1	
触摸	4/5/8-wire Touch Controller x 1 (optional)	—
风扇	DC Fan x 1 (optional: Smart Fan)	Fanless
SIM	Micro SIM x 1 (Optional)	Micro SIM x 1 (Optional)
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	HDD LED, PWR LED, Power Button
其他	—	
扩展		
Mini PCI-E/mSATA	Full-size mPCle x 1 , Half size mSATA/mPCle x 1(Default mSATA, select by BIOS)	
M.2	—	
其他	BIO x 1	—
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	375,577	123,000
EMC	CE/FCC Class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

3.5” 嵌入式主板/系统

3.5” 嵌入式主板/系统

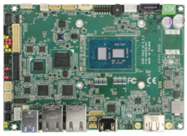




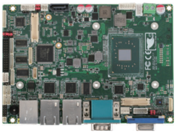
型号	GENE-SKU6	GENE-SKU6 Rev. B
系统		
板型	3.5" SubCompact Board	
CPU	Intel® 6th Generation Core™ /Celeron Processor: Intel® i7-6600U (2C/4T, 2.6GHz, up to 3.4GHz, TDP-up 25W) Intel® i5-6300U (2C/4T, 2.4GHz, up to 3.0GHz, TDP-up 25W) Intel® i3-6100U (2C/4T, 2.3GHz, TDP-up 25W) Intel® Celeron 3955U (2C/2T, 2.20GHz, TDP-up 15W)	
芯片组	Integrated with Intel® SoC	
内存类型	DDR4 up to 2133MHz, SODIMM x 1, up to 16GB, Non-ECC	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM 2.0 (Optional)	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	
操作系统支持	Windows 7/10 (64bit) Linux Ubuntu 21.04.0/Kernel 5.10	
电源		
电源要求	+9-36V (Optional: +12V)	
电源类型	AT/ATX	
连接器	Phoenix 2-pin Connector	
功耗	Intel® i7-6600U, DDR4 2666MHz 32GB, 3.42A@ +12V(TYPICAL) Intel® i7-6600U, DDR4 2666MHz 32GB, 4.24A@ +12V(MAX)	Intel® i7-6600U, 6600U, DDR4 2400MHz 16GB, 0.73A at +36V
显示		
控制器	Intel® HD Graphics 510/520	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080	
显示接口	Default: DP1.2 x 1 (up to 3840 x 2160)+ DVI-D x 1 Optional: DVI-I x 1(with VGA signal)	VGA x1, Up to 1920 x 1200 HDMI1.4 x1, up to 4096 x 2304
多路显示	Up to 3 Simultaneous Displays	
音频		
解码器	Realtek ALC897/892	
音频接口	Line-in/Line-out/MIC	
扬声器	—	3W Amplifier (Optional)
外置 I/O		
以太网	Intel® i210/i211, 10/100/1000Base-TX, RJ-45 x 2	Intel® i210, 10/100/1000Base-TX, RJ-45 x 2
USB	USB 3.2 Gen 1 x 4	
串口	—	
视频	DP1.2 x 1, DVI-D x 1	HDMI 1.4 x 1 VGA x 1
内置 I/O		
USB	USB 2.0 x 2	
串口	COM1(RS232), COM2, COM3, COM4(RS232/422/485, support 5V/12V/RI)	
视频	LVDS x 1	
SATA	SATA III x 1, +5V SATA Power Connector x 1	
音频	Audio Header x 1	
DIO/GPIO	8-bit	
SMBus/I2C	SMBus x 1	I2C/SMBus x 1 (Default: SMBus)
触摸	4/5/8-wire Touch Controller x 1 (optional)	4/5/8-wire Touch Controller x 1 (optional)
风扇	DC Fan x 1 (optional: Smart Fan)Micro SIM x 1 (Optional)	DC Fan x 1 (optional: Smart Fan)
SIM	Micro SIM x 1 (Optional)	—
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	Full-size mPCIe x 1 Half size mSATA/mPCIe x 1(Default mSATA, select by BIOS)	Full-size mSATA/mPCIe x 1 (Default mPCIe, select by BIOS) Half size mSATA/mPCIe x 1 (Default mSATA, select by BIOS)
M.2	—	
其他	BIO x 1	BIO x 1 (optional)
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C), WiTAS1 -4°F ~ 158°F (-20°C ~70°C)	32°F ~ 140°F (0°C ~ 60°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	-40°F ~ 176°F (-40°C ~ 80°C)
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	375,577	371,039
EMC	CE/FCC Class A	
备注		

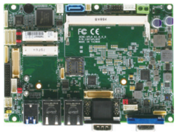
备注: 所有规格如有变更，恕不另行通知。

3.5” 嵌入式主板/系统



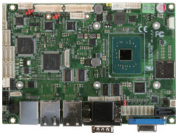
型号	GENE-EHL5	GENESYSM-EHL5
系统		
板型	3.5" SubCompact Board	3.5" SubCompact Board System
CPU	Intel® Atom™ x6000E series, Intel® Pentium®, and Celeron® N and J series processors: Intel® Atom™ x6425RE (4C, 1.9GHz, TDP-up 12W) Intel® Atom™ x6425E (4C, 2.0GHz, up to 3GHz, TDP-up 12W) Intel® Atom™ x6211E (2C, 1.2GHz, up to 3GHz, TDP-up 6W) Intel® Pentium® J6426 (4C, 2.0GHz, up to 3GHz, TDP-up 10W) Intel® Celeron® J6412 (4C, 2.0GHz, up to 3GHz, TDP-up 10W) Intel® Celeron® N6210 (2C, 1.2GHz, up to 3GHz, TDP-up 6.5W) (Intel® Atom™ x6414RE/x6413E/x6427FE/x6200FE/N6415 by customer's request)	Intel® Atom™ x6000E series, Intel® Pentium®, and Celeron® N and J series processors: Intel® Atom™ x6425E (4C, 2.0GHz, up to 3GHz, TDP-up 12W) Intel® Celeron® J6412 (4C, 2.0GHz, up to 3GHz, TDP-up 10W) Intel® Celeron® N6210 (2C, 1.2GHz, up to 3GHz, TDP-up 6.5W)
芯片组	Integrated with Intel® SoC	
内存类型	DDR4 3200 MHz, SODIMM x 1, Up to 32GB, Support IBECC (select SKUs)	DDR4 up to 3200 Hz, SODIMM x 1,up to 32GB, in band ECC
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM 2.0	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	7.00" x 5.28" x 2.08" (178mm x 134.1mm x 53mm)
操作系统支持	Windows 10 (64bit), Linux Ubuntu 20.04.3(IOT)/Kernel 5.13	
电源		
电源要求	+9-36V (Optional: +12V)	+12V/+9-36V
电源类型	AT/ATX	ATX
连接器	Phoeix 2-pin Connector	DC Jack Connector
功耗	Intel® AtomTM x6425E, DDR4 32GB, 3.26A@ +12V(balance), 3.26A@+12V(TYPICAL) Intel® AtomTM x6425E, DDR4 32GB, 3.26A@ +12V(balance), 3.42A@+12V(Max)	
显示		
控制器	Intel® UHD Graphics for 10th Gen Intel® Processors	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080 (Optional eDP 1.3, up to 1920X1200)	—
显示接口	HDMI2.0b x 1, up to 4K 60Hz DP1.4 x 1, up to 4K x 2K 60Hz (Optional: VGA x 1)	HDMI2.0b x 1, up to 4K 60Hz VGA x 1
多路显示	3 Simultaneous Displays	Up to 2 Simultaneous Displays
音频		
解码器	REALTEK ALC269	Realtek ALC897
音频接口	Line-in/Line-out/MIC	
扬声器	2W Speaker	
外置 I/O		
以太网	Intel® i210, 10/100/1000Base x 2	
USB	USB3.2 Gen 2 x 2	USB3.2 Gen 2 x 2 USB2.0 x 2
串口	—	COM1, COM2 (RS232/422/485, supports 5V/12V/RI)
视频	HDMI 2.0b x 1, DP1.4 x 1 (Optional VGA x 1)	HDMI 2.0b x 1 VGA x 1
内置 I/O		
USB	USB2.0 x 4	—
串口	RS-232/422/485 x 4	—
视频	LVDS/eDP x 1	—
SATA	SATA3.0 x 1, +5V SATA Power Connector x 1	SATA III x 1, +5V SATA Power Connector x 1, eMMC5.1 32GB
音频	Audio Header x 1	
DIO/GPIO	16 Bits (8 In/8 Out)	16 Bits (Optional: with E-Base)
SMBus/I2C	SMBus/I2C x 1 (Default: SMBus)	
触摸	4/5/8-wire Touch Controller x 1 (optional)	—
风扇	4 wire Smart Fan x 1	4pins Smart Fan x1
SIM	Nano SIM x 1	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	eMMC5.1 32GB CANBUS x 2, TX/RX (Celeron J6412 and Celeron N6210 don't support CANBUS)	—
扩展		
Mini PCI-E/mSATA	—	
M.2	E-Key 2230 x 1 (PCIe, USB2.0) B-Key 2242 x 1 (PCIe x 2/PCIe/SATA x 1, USB2.0) Default: PCIe x 2, PCIe x 1 select by BIOS, SATA select by BOM B-Key 2280 x 1 (PCIe x 1/PCIe x 2, USB2.0) Default: PCIe x 1, PCIe x 2 select by BIOS B-Key 3052 x 1 (USB3.2 Gen2)	
其他	—	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C), WiTAS2 -40°F ~ 185°F (-40°C ~ 85°C)	32°F ~ 122°F (0°C ~ 50°C) with 0.5 m/s air flow
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	335,427	
EMC	CE/FCC Class A	



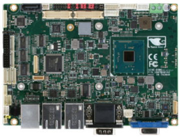


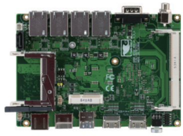
型号	GENE-APL5	GENE-APL6
系统		
板型	3.5" SubCompact Board	
CPU	Intel® Atom™/Celeron®/Pentium® Processor: Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, 6W) Atom E3950 (4C/4T,1.60GHz,up to 2.00GHz, 9.5W) Atom E3940 (4C/4T,1.60GHz,up to 1.80GHz, 9.5W) Atom E3930 (2C/2T,1.30GHz,up to 1.80GHz, 6.5W)	
芯片组	Integrated with Intel® SoC	
内存类型	DDR3L up to 1866MHz, SODIMM x 1,up to 8GB,Non-ECC	DDR3L 1600MHz (max.8GB)/1866MHz (max.4GB), SODIMM x 1, Non-ECC *1866MHz is limited to the verified DDR module in AAEON's Approved Vendor List
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM 2.0 (Optional)	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	
操作系统支持	Windows 10 (64bit) Linux Ubuntu 21.04.0/Kernel 5.10	
电源		
电源要求	+12V (Optional: +9-19V)	+9-36V (Optional: +12V)
电源类型	AT/ATX	
连接器	Phoenix 2-pin Connector	
功耗	Intel® E3950,DDR3L 1866MHz 8GB,2.03A @+12V(TYPICAL) Intel® E3950,DDR3L 1866MHz 8GB,2.45A @+12V(MAX)	Intel® E3950, DDR3L 1866MHz 8G, 2.36A @+12V(TYPICAL) Intel® E3950, DDR3L 1866MHz 8G, 2.41A @+12V(MAX)
显示		
控制器	Intel® HD Graphics 500/505	
LVDS/eDP	LVDS1 Dual Channel 18/24bit x 1, up to 1920 x 1080 LVDS2 Dual Channel 18/24bit x 1 (Optional: HDMI1.4b, up to 3840 x 2160)	
显示接口	VGA x 1, up to 1920 x 1200	
多路显示	Up to 3 Simultaneous Displays	
音频		
解码器	Realtek ALC897/892	
音频接口	Line-in/Line-out/MIC	
扬声器	—	
外置 I/O		
以太网	Intel® i210/i211, 10/100/1000Base, RJ-45 x 2	
USB	USB3.2 Gen 1 x 2	
串口	COM1 (RS232, supports RI)	COM1 (RS232)
视频	VGA x 1	
内置 I/O		
USB	USB2.0 x 4	USB 2.0 x 2
串口	COM2, COM3 (RS232/422/485, supports 5V/12V/RI),COM4 (RS232, supports RI)	COM2, COM3 (RS232/422/485, support 5V/12V/RI) COM4 (RS232)
视频	LVDS1 x 1, LVDS2/HDMI x 1(Default: LVDS2)	
SATA	SATA III x 1,+5V SATA Power Connector x 1	
音频	Audio Header x 1	
DIO/GPIO	8-bit	
SMBus/I2C	I2C x1,SMBus x 1	I2C/SMBus x 1 (Default: I2C)
触摸	4/5/8-wire Touch Controller x 1 (optional)	
风扇	DC Fan x 1 (optional: Smart Fan)	
SIM	Micro SIM x 1 (Optional)	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	Parallel Port(SPP/EPP/ECP) x 1 (optional, select by BIOS)	eMMC 16G/32G/64G (optional) Parallel Port(SPP/EPP/ECP) x 1 (optional, select by BIOS)
扩展		
Mini PCI-E/mSATA	mSATA x 1 (Full-Size),Mini Card x 1 (Half-Size)	Full-size mPCIe x 1 Half-size mSATA x 1
M.2	—	
其他	—	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C), WiTAS2 -40°F ~ 185°F (-40°C ~ 85°C)	
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	365,976	374,567
EMC	CE/FCC Class A	
备注		

3.5” 嵌入式主板/系统



型号	GENE-APL7	GENESYS-APL7
系统		
板型	3.5" SubCompact Board	3.5" SubCompact Board System
CPU	Intel® Atom™/Celeron®/Pentium® Processor: Pentium N4200 (4C/4T,1.10GHz,up to 2.50GHz, 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, 6W) Atom E3950 (4C/4T,1.6GGHz,up to 2.00GHz, 9.5W) Atom E3940 (4C/4T,1.60GHz,up to 1.80GHz, 9.5W) Atom E3930 (2C/2T,1.30GHz,up to 1.80GHz, 6.5W)	Intel ® Atom™/Celeron®/Pentium® Processor: Pentium N4200 (4C/4T, 1.10GHz, up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 6W)
芯片组	Integrated with Intel® SoC	
内存类型	DDR3L 1600MHz (max.8GB)/1866MHz (max.4GB), SODIMM x 1, Non-ECC *1866MHz is limited to the verified DDR module in AAEON's Approved Vendor List	DDR3L up to 1866MHz, SODIMM x 1,up to 8GB,Non-ECC
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	—	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	7.00" x 5.28" x 1.69" (178mm x 134.1mm x 43mm)
操作系统支持	Windows 10 (64bit) Linux Ubuntu 21.04.0/Kernel 5.10	
电源		
电源要求	12V Only	+12V
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel® E3950,DDR3L 1866MHz 8GB,4.15A @+12V(TYPICAL) Intel® E3950,DDR3L 1866MHz 8GB,4.29A @+12V(MAX)	Intel® N4200,DDR3L 1600MHz 8GB,1.61A@+12V(Typical)
显示		
控制器	Intel® HD Graphics 500/505	Intel® HD Graphics 500/505
LVDS/eDP	LVDS1 Dual Channel 18/24bit x 1(Optional: eDP1.3, up to 3840 x 2160) LVDS2 Dual Channel 18/24bit x 1, up to 1920 x 1080	—
显示接口	VGA x 1, up to 1920 x 1200	VGA x 1
多路显示	Up to 3 Simultaneous Displays	—
音频		
解码器	Realtek ALC897/892	—
音频接口	Line-in/Line-out/MIC	—
扬声器	2W Amplifier(Optional)	—
外置 I/O		
以太网	Realtek RTL8119-CG,10/100/1000Base, RJ-45 x 2	
USB	USB 3.2 Gen1 x 2	USB 3.2 Gen1 x 2
串口	COM1 (RS232) COM2 (RS232/422/485, support 5V/12V/RI)	COM1 (RS232)
视频	VGA x 1	
内置 I/O		
USB	USB2.0 x 8	USB2.0 x 2
串口	COM3~COM6 (RS232, COM3~COM5 support 5V/12V/RI) Optional: COM3~COM12	Optional: COM3,COM4(RS232, COM3~COM5 support 5V/12V/RI) Optional: COM9~COM12
视频	LVDS1/eDP (Default: LVDS1) LVDS2	—
SATA	SATA III x 1 +5V SATA Power Connector x 1	
音频	Audio Header x 1 Speaker Header x 2 (optional)	—
DIO/GPIO	8-bit	—
SMBus/I2C	I2C/SMBus x1 (Default: SMBus)	
触摸	—	
风扇	DC Fan x 1 (optional: Smart Fan)	
SIM	Micro SIM x 1 (Optional)	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	PWR LED, Power Button
其他	—	
扩展		
Mini PCI-E/mSATA	Full-size mPCIe x 1 Full-Size mSATA/mPCIe x 1 (Default mSATA, BOM Option: mPCIe)	
M.2	—	
其他	—	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	409,108	126,000
EMC	CE/FCC Class A	
备注		

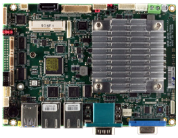




型号	GENE-BSW5	GENE-BT04
系统		
板型	3.5" SubCompact Board	
CPU	Intel® Celeron® N Processor: Intel® Celeron® N3160 (4C/4T,1.60GHz,up to 2.24GHz)	Intel® Atom™/ Celeron® Processor: Celeron® J1900 (4C/4T, 2.00GHz, up to 2.42GHz, 10W) Celeron® N2807 (2C/2T, 1.58GHz, up to 2.16GHz, 4.3W)
芯片组	Integrated with Intel ® SoC	
内存类型	DDR3L up to1600MHz, SODIMM x 1, up to 8GB, Non-ECC	DDR3L up to 1333MHz, SODIMM x 1,up to 8GB,Non-ECC
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	—	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	
操作系统支持	Windows 7/10 (64bit) Linux Ubuntu 21.04.0/Kernel 5.10	Windows 7/10 (64bit) Linux Ubuntu 20.04.3/Kernel 5.11
电源		
电源要求	+12V Only	+12~24V
电源类型	AT/ATX	
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel®N3160,DDR3L 1600MHz 8GB,1.63A @+12V(TYPICAL) Intel®N3160,DDR3L 1600MHz 8GB,1.95A @+12V(MAX)	Intel® N2807, DDR3L 1600MHz 4G, 0.65A@ +12V(TYPICAL)
显示		
控制器	Intel® HD Graphics for Intel® Celeron® Processor N3000 Series	Intel® HD Graphics for Intel Atom® Processor Z3700 Series
LVDS/eDP	LVDS1 Dual Channel 18/24bit x 1, up to 1920 x 1080 LVDS2 Dual Channel 18/24bit x 1(Optional: HDMI1.4b)	—
显示接口	VGA x 1, up to 1920 x 1200	HDMI x 2: HDMI 1(w/Audio), HDMI 2(w/o Audio)
多路显示	Up to 3 Simultaneous Displays	Up to 2 Simultaneous Displays
音频		
解码器	Realtek ALC897/892	—
音频接口	Line-in/Line-out/MIC	—
扬声器	—	
外置 I/O		
以太网	Realtek RTL8119-CG, 10/100/1000Base-TX, RJ-45 x2	Intel® i210, 10/100/1000Base, RJ-45 x 4
USB	USB 3.2 Gen1 x 2	USB 2.0 x 2, USB 3.2 Gen 1 x 1
串口	COM1 (RS232)	
视频	VGA x 1 HDMI x1(optional)	HDMI x2
内置 I/O		
USB	USB2.0 x 3	—
串口	COM2,COM3 (RS232/422/485, supports 5V/12V/RI) COM4,COM5,COM6 (RS232)	—
视频	LVDS1 x 1 LVDS2/HDMI x 1(Default: LVDS2)	—
SATA	SATA III x 1 +5V SATA Power Connector x 1	
音频	Audio Header x 1	—
DIO/GPIO	8-bit	4-bit
SMBus/I2C	I2C/SMBus x1 (Default: SMBus)	—
触摸	4/5/8-wire Touch Controller x 1 (optional)	—
风扇	DC Fan x 1 (optional: Smart Fan)	—
SIM	—	SIM X1
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	CFast™ x 1
扩展		
Mini PCI-E/mSATA	Full-size mPCIe x 1 Half size mPCIe/mSATA x 1(Default mSATA, BOM Option: mPCIe)	Mini-Card x 1 (for USB only)
M.2	—	
其他	—	
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	325,391	155,000
EMC	CE/FCC Class A	
备注		

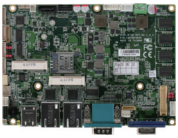
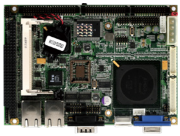
备注: 所有规格如有变更，恕不另行通知。

3.5” 嵌入式主板/系统

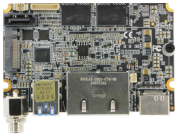


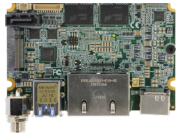
型号	GENE-BT05	GENESYS-BT05
系统		
板型	3.5" SubCompact Board	3.5" SubCompact Board System
CPU	Intel® Atom™/ Celeron® Processor: Celeron® J1900 (4C/4T, 2.00GHz, up to 2.42GHz, 10W) Celeron® N2930 (4C/4T, 1.83GHz, up to 2.16GHz, 7.5W) Celeron® N2807 (2C/2T, 1.58GHz, up to 2.16GHz, 4.3W) Atom™ E3845 (4C/4T, 1.91 GHz, 10W) Atom™ E3825 (2C/2T, 1.33 GHz, 6W)	
芯片组	Integrated with Intel ® SoC	
内存类型	DDR3L up to 1333MHz, SODIMM x 1,up to 8GB,Non-ECC	
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	TPM 1.2(Optional)	
RTC电池	Lithium Battery 3V/240mAh	
尺寸	5.75" x 4" (146mm x 101.7mm)	7.00* x 5.28" x 1.69" (178mm x 134.1mm x 43mm)
操作系统支持	Windows 7/10 (64bit) Linux Ubuntu 20.04.3/Kernel 5.11	
电源		
电源要求	+12V Only	
电源类型	AT/ATX	ATX
连接器	Phoenix 2-pin Connector	DC Jack Connector
功耗	Intel® J1900, DDR3L 1600MHz 8GB,1.73A @ +12V(TYPICAL) Intel® J1900, DDR3L 1600MHz 8GB,1.88A @ +12V(MAX)	
显示		
控制器	Intel® HD Graphics for Intel Atom® Processor Z3700 Series	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080	—
显示接口	HDMI 1.4a x 1, up to 3840 x 2160 VGA x 1, up to 1920 x 1200	HDMI 1.4a x 1 VGA x 1
多路显示	Up to 3 Simultaneous Displays	Up to 2 Simultaneous Displays
音频		
解码器	Realtek ALC897/892	—
音频接口	Line-in/Line-out/MIC	—
扬声器	—	
外置 I/O		
以太网	Intel® i210/i211, 10/100/1000Base, RJ-45 x 2	Intel® i210, 10/100/1000Base, RJ-45 x 2
USB	USB 3.2 Gen 1 x 1 USB 2.0 x 1	
串口	COM1 (RS232)	
视频	VGA x 1,HDMI 1.4a x 1	
内置 I/O		
USB	USB2.0 x 2	
串口	COM2, COM3 (RS232/422/485, supports 5V/12V/RI),COM4 (RS232)	COM2, COM3 (RS232/422/485, supports 5V/12V/RI)(Optional)
视频	LVDS x 1	—
SATA	SATA III x 1,+5V SATA Power Connector x 1	SATA III x 1 +5V SATA Power Connector x 1
音频	Audio Header x 1	—
DIO/GPIO	8-bit	—
SMBus/I2C	I2C/SMBus x1 (Default: SMBus)	I2C/SMBus x1 (Optional)
触摸	4/5/8-wire Touch Controller x 1 (optional)	—
风扇	DC Fan x 1 (optional: Smart Fan)	Heatsink x 1 (Optional: DC Fan)
SIM	SIM X1	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	CFast™ (option with mSATA by BOM, occupies one Mini Card location)	—
扩展		
Mini PCI-E/mSATA	Full-Size mPCIe/ USB2.0 x 1 Half-Size mSATA/ mPCIe x 1 (BOM optional)	Full-Size mPCIe x 1 Half-Size mSATA/ mPCIe x 1
M.2	—	
其他	—	CFast™(Optional)
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C) or WiTAS 2 (E3825)	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	344,859	
EMC	CE/FCC Class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

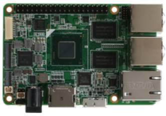



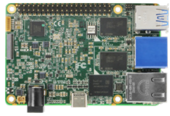

型号	GENE-BT06	GENE-5315 Rev. A	GENE-5315 Rev. B
系统			
板型	3.5" SubCompact Board		
CPU	Intel® Atom™/ Celeron® Processor: Celeron® J1900 (4C/4T, 2.00GHz, up to 2.42GHz, 10W) Celeron® N2930 (4C/4T, 1.83GHz, up to 2.16GHz, 7.5W) Celeron® N2807 (2C/2T, 1.58GHz, up to 2.16GHz, 4.3W) Atom™ E3845 (4C/4T, 1.91 GHz, 10W) Atom™ E3825 (2C/2T, 1.33 GHz, 6W)	AMD Geode™ LX800 Processor AMD Geode™ LX 800(500MHz, 3.6W)	
芯片组	Integrated with Intel ® SoC	CS5536	
内存类型	On Board DDR3L 1066/1333MHz,up to 4GB,Non-ECC	DDR333 SODIMM x 1 (DDR400 optional),up to 1GB	
BIOS	UEFI	Award 1MB	
网络唤醒	Yes		
看门狗定时器	255 Levels		
安全	TPM 2.0 (BOM optional)	—	—
RTC电池	Lithium Battery 3V/240mAh		
尺寸	5.75" x 4" (146mm x 101.7mm)		
操作系统支持	Windows 7/10 (64bit) Linux Ubuntu 20.04.0/Kernel 5.11	Windows XP 32-bit	
电源			
电源要求	+9~24V	+5V	
电源类型	AT/ATX		
连接器	Phoenix 2-pin Connector	4Pin Connector	
功耗	Intel® E3845,DDR3L on board RAM 4GB,2.10A @ +12V(TYPICAL) Intel® E3845,DDR3L on board RAM 4GB,2.26A @ +12V(MAX)	LX 800 500 MHz, DDR400 1 GB, 1.17A@+5V(Typical)	
显示			
控制器	Intel® HD Graphics for Intel Atom® Processor Z3700 Series	AMD Geode™	
LVDS/eDP	LVDS Dual Channel 18/24bit x 1, up to 1920 x 1080	Up to 24-bit Single Channel LVDS/ TTL LCD	
显示接口	HDMI 1.4a, up to 3840 x 2160 (Opctional: DP1.1a) VGA x 1, up to 1920 x 1200	VGA x1, up to 1920 x 1200	VGA x1, up to 1920 x 1200
多路显示	Up to 3 Simultaneous Displays	Up to 2 Simultaneous Displays	Up to 2 Simultaneous Displays
音频			
解码器	Realtek ALC897/892	High Definition Audio Interface	High Definition Audio Interface
音频接口	Line-in/Line-out/MIC	Line-in/Line-out/MIC/CD-in	Line-in/Line-out/MIC/CD-in
扬声器	2W Amplifier(Optional)	—	—
外置 I/O			
以太网	Intel® i210, 10/100/1000Base, RJ-45 x 2	10/100Base-TX x 2, Realtek RTL 8139DL	
USB	USB 3.2 Gen1 x 1,USB2.0 x 1	—	
串口	COM1(RS232)		
视频	VGA x 1,HDMI 1.4a x 1(Optional)	VGA x1	
内置 I/O			
USB	USB2.0 x 2	USB2.0 x 4	
串口	COM2, COM3 (RS232/422/485, supports 5V/12V/ RI),COM4 (RS232)	COM2(RS-232/422/485)	COM2, COM3, COM4(RS-232/422/485)
视频	LVDS x1	TTL LCD x1 LVDS LCD x1	
SATA	SATA II x 1,+5V SATA Power Connector x 1	—	
音频	Audio Header x 1		
DIO/GPIO	8-bit		
SMBus/I2C	SMBus x 1	—	
触摸	4/5/8 wire Touch Controller x 1 (Optional)	—	
风扇	DC Fan x 1 (optional: Smart Fan)	System Fan x1	
SIM	SIM x 1	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset		
其他	—	SPP/EPP/ECP x 1,CompactFlash™ x1,UDMA33 x 1	
扩展			
Mini PCI-E/mSATA	Full-size mPCIe/USB2.0 x 1 Half-size mSATA/mPCIe x 1(BOM optional)	—	
M.2	—		
其他	—	Mini-PCI x1,PC/104 x1,Floppy Disk Drive x 1	Mini-PCI x 1, Floppy Disk Drive x 1
环境 & 认证			
工作温度	32°F ~ 140°F (0°C ~ 60°C) or WiTAS 2 -40°F ~ 185°F (-40°C ~ 85°C)	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C), WiTAS1 -4°F ~ 158°F (-20°C ~ 70°C)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)		-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% relative humidity, non-condensing		
MTBF (小时)	403,079	90,000	
EMC	CE/FCC Class A		





型号	de next-TGU8	de next-V2K8
系统		
板型	86mm x 55mm, Single board computer	
CPU	Onboard 11th Gen. Intel® Core™ Processor i7-1185G7E (4C/8T, 1.80GHz, up to 4.40GHz) i5-1145G7E (4C/8T, 1.50GHz, up to 4.10GHz) i3-1115G4E (2C/4T, 2.20GHz, up to 3.90GHz)	AMD Ryzen™ Embedded V2718 with Radeon™ Graphics , AMD Ryzen™ Embedded V2516 with Radeon™ Graphics
CPU TDP	15W, (TDP up to 28W)	10W, TDP-up to 25W : V2718 / V2516
芯片组	Integrated with Intel® SoC	Integrated with AMD Ryzen™Embedded SoC
内存类型	Onboard LPDDR4x, 3733, up to 16GB	Onboard LPDDR4x 3200, up to 16GB
BIOS	UEFI	
网络唤醒	Yes	
看门狗定时器	255 Levels	
安全	fTPM	
RTC电池	Lithium Battery 3V/240mAh	
尺寸 (L X W)	3.38” x 2.17” (86 mm x 55 mm)	
电源		
电源要求	DC in +12V	
电源支持类型	AT/ATX	
连接器	DC Jack (Optional: 2 Pin Phoenix Connector)	
功耗	With i7-1185G7E + LPDDR4x 16GB : 12V@7A, 84W (Peak during full loading) With i7-1185G7E + LPDDR4x 16GB : 12V@4.58A, 55W (steady state during full loading)	AMD Ryzen™V2718 Processor, LPDDR4 3200MHz16GB, 3.92A@12V, 47.04W during full loading test (Peak) AMD Ryzen™V2718 Processor, LPDDR4 3200MHz16GB, 3.07A@12V, 36.84W during full loading test (Steady)
显示		
控制器	Intel® UHD Graphics for 11th Gen Intel® Processors	AMD Radeon™ Graphics
LVDS/eDP	eDP only, up to 3840 X 2160 Resolution	
显示接口	eDP x 1 HDMI 1.4b x 1	
多路显示	Up to 2 Simultaneous Displays	
音频		
解码器	—	
音频接口	—	
扬声器	—	
外置 I/O		
以太网	Intel® i219LM, 10/100/1000Base,RJ-45 x1 Intel® i225LM, 10/100/2500Base,RJ-45 x1	REALTEK RTL8111H, 10/100/1000Base,RJ-45 x1 , Intel® i225LM, 10/100/2500Base,RJ-45 x1
USB	USB3.2 Gen 2 x 2 (Type A)	
串口	—	
视频	HDMI 1.4b x 1	
内置 I/O		
USB	USB2.0 x 4 (pin header) Note : USB2.0 x 2 shared with adapter card	USB2.0 x 4 (pin header)
串口	COM Port (RS232/422/485) x 2 (pin header)	
视频	eDP x 1	
SATA	SATA3 x 1 +5V SATA Power Connector x 1	
音频	—	
DIO/GPIO	8-Bit (pin header)	
SMBus/I2C	Optional	
触摸	—	
风扇	Smart Fan x1	
SIM	—	
前面板	HDD LED, PWR LED, Power Button, Buzzer, Reset	
其他	—	
扩展		
Mini PCI-E/mSATA	—	
M.2	M-Key 2280 x 1 (PCIe[x2])	M-Key 2280 x 1 (PCIe[x2])
其他	PCIe[x4] Gen3 x 1 (by FPC Connector)	—
环境 & 认证		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	594,420	609,263
EMC	CE/FCC Class A	CE/FCC Class A
备注		





型号	UP Board	UP 4000
系统		
处理器	Intel® Atom® x5-Z8350 Processor SoC	Intel® Celeron® N3350/ Intel® Pentium® N4200/ Intel Atom® x7-E3950 Processor SoC
显卡	Intel® HD 400 Graphics, 12 EU GEN 8, up to 500MHz Support DX*11.1/12, Open GL*42, Open CL* 1.2 OGL ES3.0, H.264, HEVC(decode), VP8	Intel® Gen 9 HD, supporting 4K Codec Decode and Encode for HEVC4, H.264,VP8
I/O	HDMI x 1 I2S Audio port x 1	2 pin wafer for Fan (12V) x 1 2 pin wafer for RTC Battery x 1 6 pin wafer for Audio (Line out + MIC in) x 1 10 pin wafer (2 USB2.0 + 1 HSUART) x 1 HAT 40 pin header x 1 4pin wafer power button for front panel x 1 41 pin FPC connector for high speed expend x 1 power button x 1
摄像头	MIPI-CSI (4 MEGA pixel)	—
USB	USB 2.0 x4 USB 2.0 pin header (10 pins in total) x 2 USB3.0 OTG x 1	USB 3.2 Gen 1 (Type A) x 3 USB 2.0 pin header (10 pins in total) x 2 USB 3.2 Gen 1 OTG via USB Type-C x 1
扩展	40 pin General Purpose bus, supported by Altera Max V. ADC 8-bit@188ksos	40 pin GPIO x 1 via carrier board: M.2 2230/2242/2280 x 1 M.2 3052 x 1
RTC	Yes	
电源	5V DC-in @ 4A 5.5/2.1mm jack	12V DC-in @5A (phoenix Terminal co-lay)
尺寸	3.34” x 2.20” (85mm x 56mm)	
内存	1GB/ 2GB/ 4GB DDR3L-1600	onboard LPDDR4 max to 8GB
存储	eMMC 16GB / 32GB/ 64GB	
显示接口	DSI/eDP	HDMI 1.4bx 1 DP 1.2 via USB TYPE C Connector
以太网	Gb Ethernet (full speed) RJ-45 x 1	1 Gb Ethernet (full speed) RJ-45 x 1
操作系统支持	Win 10 Linux (ubilinux, Ubuntu, Yocto)	Microsoft Windows 10 (full), Windows IOT Core Yocto project 3.1 Kernel 5.4 Ubuntu 18.04
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C), 0.5m/s airflow
工作湿度	10% ~ 80% relative humidity, non-condensing	
认证	CE/FCC Class A, RoHS Compliant	
备注		

UP主板



型号	UP Squared	UP Squared Pro	UP Squared 6000
系统			
处理器	Intel® Pentium® N4200/ Celeron® N3350/ Atom™ E3940/ E3950 Processor SoC	Intel® Pentium® N4200/ Celeron® N3350/ Atom® E3950 Processor SoC	Intel® Atom® X6413E / X6425RE, Celeron® N6210 (no PSE), Pentium® J6426 Processor SoC
显卡	Intel® Gen 9 HD, supporting 4K Codec Decode and Encode for HEVC4, H.264, VP8		Intel® UHD Graphics
I/O	HDMI x 1 DP x 1 I2S Audio Port	HDMI x 1 DP x 1 COM port (RS422/RS232/RS485) x 2 Audio Jack x 1	HDMI 2.0b x 1 DP 1.2 x 1 eDP x 1 (Limited to Atom series) Audio wafer x 1 RS-232/422 x 1 (Limited to Atom series)
摄像头	CSI 2-Lane + CSI 4-Lane	—	
USB	USB 2.0 x 2 USB3.0 OTG x 1 USB3.0 (Type A) x 3	USB 2.0 x 2 USB 3.2 Gen 1 OTG x 1 USB 3.2 Gen 1 (Type A) x 3	USB 2.0 x 2 (from wafer x 1) USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C (support OTG) x 1 (Limited to Atom series)
扩展	40 pin GPIO x 1 Full-sized Mini-PCIe x 1 (PCIe & SATA + USB2.0) M.2 2230 x 1 SATA3 x 1 60 pin EXHAT x 1	40 pin GPIO x 1 M.2 2230 E-key x 1 M.2 2280 M-key x 1 SATA3 x 1 M.2 3042/3052 B-key x 1	40 pin GPIO x 1 M.2 2230 E-key x 1 M.2 2280 PCIe Gen3.0x2 M-key x 1 SATA3 x 1 M.2 3052 B-key x 1 Nano SIM slot x 1 100 pin high speed board-board connector x 1 (Limited to Atom series) TPM 2.0 (Limited to Atom series)
RTC	Yes		
电源	5V DC-in @ 4A-6A	12V-24V DC-in (Lockable plug)/ Phoenix connector (optional)	12V DC-in (Lockable plug)
尺寸	3.37" x 3.54" (85.6 mm × 90 mm)	4" x 4" (101.6mm x 101.6mm)	
内存	2GB (single channel) LPDDR4 4GB/8GB (dual channel) LPDDR4)	2GB (single channel) LPDDR4 4GB/8GB (dual channel) LPDDR4	Up to 8GB DDR4
存储	eMMC 32 GB / 64 GB / 128 GB	eMMC 32 GB / 64 GB	UP to 64GB eMMC
显示接口	eDP	HDMI1.4 x 1 DP1.2 x 1 eDP x 1	HDMI 2.0b x 1 DP 1.2 x 1 eDP x 1 (Limited to Atom series)
以太网	Gb Ethernet (full speed) RJ-45 x 2		GbE x 1, 2.5GbE x 1 Atom: Intel® i210-IT, i225-IT PC Client: Intel® i211-AT, i225-V
操作系统支持	Microsoft Windows 10 (full), Windows IOT Core, Linux (ubilinux, Ubuntu, Yocto), Android Nougat	Microsoft Windows 10 (full), Windows IOT Core Linux: Ubuntu 18.04.5, Ubuntu 20.04.1, Yocto 3.1	Microsoft Windows 10 (full), Windows IOT Core Linux: Ubuntu 20.04 LTS, Yocto 3.1
工作温度	32°F ~ 140°F (0°C ~ 60°C)	with Fan: 32°F ~ 140°F (0°C ~ 60°C, with airflow 0.5m/s) with Heatsink: 32°F ~ 122°F (0°C ~ 50°C, with airflow 0.5m/s)	With Heatsink: 32°F ~ 140°F (0°C ~ 60°) / 0.5 airflow
工作湿度	0% ~ 90% relative humidity, non-condensing		
认证	CE/FCC Class A, RoHS Compliant, REACH		
备注			

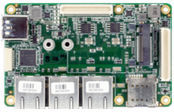
备注: 所有规格如有变更，恕不另行通知。

型号	UP Squared V2	UP Squared Pro 7000
系统		
处理器	Intel® Celeron® N6210 Pentium® J6426 Processor SoC	Intel®Core™ i3-N305 Intel Atom®x7425E Intel®Processor N97 Intel®Processor N50 (formerly Alder Lake N)
显卡	Intel® UHD Graphics	Intel® UHD Graphics Gen 12
内存	Up to 16GB LPDDR4	Up to 16GB LPDDR5
存储	Up to 64GB eMMC	
I/O	HDMI 1.4b x 1 DP 1.2 x 1 eDP 1.3 x 1 Audio 6 pin wafer (Line out + MIC in) x 1 RS-232/422 6 pin header x 1	HDMI 2.0b x 1 DP 1.2 x 1 DP 1.2 via USB Type C Audio Jack x 1 (Mic-in+Line-out) RS-232/422/485 from 10 pin header x 2
摄像头	—	
USB	USB 2.0 x 2 (from 10 pin wafer x 1) USB 3.2 Gen 2 Type A x 3	USB 2.0 x 2 (from 10 pin header x 1) USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C x 1
扩展	40 pin GPIO x 1 M.2 2230 E-Key x 1 (PCIe x2, USB2.0 x1) M.2 2280 M-key x 1 (PCIe x2) SATA3 x 1	40 pin GPIO x 1 M.2 2230 E-key x 1 (CNVI , PCIE X1, USB2.0) M.2 2280 M-key x 1 (PCIE X2, USB2.0) M.2 3052 B-key x 1 (USB3.0 only) SATA3 x 1
显示接口	HDMI 1.4b x 1 DP 1.2 x 1 eDP 1.3 x 1	HDMI 2.0b x 1 DP 1.2 x 1 DP 1.2 via USB Type C
以太网	Gb Ethernet (full speed) RJ-45 x 2	2.5GbE x 2 (Intel®/i226-IT)
安全	Onboard TPM 2.0	
RTC	Yes	
操作系统支持	Microsoft Windows 10 (full) Windows IOT Core Ubuntu 20.04 LTS Yocto 3.1	Windows 10 IoT Enterprise Windows IoT Core Ubuntu 22.04 LTS Yocto 4
电源要求		
电源	12V DC-in, 5A	12V DC-in, 6A
电源支持类型	AT/ATX	
功耗 (标准)	30~38W	TBD
机构		
尺寸	3.37" x 3.54" (85.6 mm × 90 mm)	4" x 4" (101.6 mm × 101.6 mm)
重量	0.52 lbs (0.24kg)	0.44 lbs (0.20kg)
总重量	0.66 lbs (0.3kg)	0.77 lbs (0.35kg)
环境		
工作温度	32°F ~ 140°F (0°C ~ 60°) / 0.5 airflow	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF	465,586	465586
认证	CE/FCC Class A, RoHS Compliant, REACH	
备注		

型号	UP Xtreme	UP Xtreme i11
系统		
处理器	8th generation Intel® Core i7/i5/i3/Celeron® Processor SoC	11th Gen Intel® Core™ Processor SoC Core i7-1185G7E Core i7-1185GRE Core i5-1145 G7E Core i5-1145GRE Core i3-1115GRE Celeron® 6305E
显卡	Intel® Graphics , GEN 9	Intel® Iris® Xe graphics
I/O	RJ45 Ethernet Connector x 2 HDMI/DP STACK Connector x 1 Power Button / LED x 1 Audio Jack (Line out + MIC) x 1 DC connector (Lockable) x 1 STM32 connector x 1 eDP with Backlight control Header x 1 10 pin 1xUSB2.0 x 1 / HSUART (TTL) x 1 SATA Connector with power connector (5V, GND) x 1 4 pin Fan connector x1 Power Button header x 1 Reset Pin header x 1 M.2 2230 E Key x 1 M.2 2280 M Key x 1 40 pin HAT connector x 1 mPCIe slot x 1 10 pin RS232/422/485 pin header x 2 100pin connector x 1	RJ45 Ethernet Connector x 2 HDMI/DP Stack Connector x 1 Power Button / LED x 1 DC Connector (Lockable) x 1 10-pin USB 2.0 x 2 / HSUART x 1 SATA Connector with Power Connector (5V, GND) x 1 4pin Fan Connector x1 6pin Front Panel Header M.2 2230 E Key x 1 M.2 2280 M Key x 1 USB 4.0 40-pin HAT Connector x 1 M.2 3052 B Key x 1 with SIM 10-pin RS232/422/485 Pin Header x 2 Alternative 4pin ATX Connector Behind DC Connector
摄像头	—	
USB	USB 3.2 Gen 2 STACK Connector for 2 ports (Front) x 1 USB 3.2 Gen 2 STACK Connector for 2 ports (Rear) x 1	USB 3.2 Gen 2 Type A x 3 USB 2.0 x 1 USB4.0 x 1 Type-C
扩展	M.2 2230 E Key x 1 M.2 2280 M key x 1 mPCIe slot x 1 100pin connector x 1 40pin HAT	M.2 2230 E Key x 1 M.2 2280 M Key x 1 M.2 3052 B Key x 1 40-pin HAT Connector x 1 PCIe x 4 Slot
RTC	RTC battery, CR2032 x 1	
电源	12V - 60VDC	12V
尺寸	122 x 120 mm	120.35 x 122.5 mm
内存	Onboard DDR4 memory, Max 16GB Single Channel: 4GB Dual Channel: 8GB, 16GB	DDR4 SO-DIMM Slot x 2 (up to 64GB 3200Mhz)
存储	SATA3 (6Gb/s) x 3: a.SATA connector x 1 b. M.2 2280 SATA option (auto detect) x 1 c. minicard mSATA option (auto detect) x 1	SATA3 (6Gb/s) x 1: a. SATA Connector x 1 b. M.2 2280 M Key NVMe(PCIe [x2])
显示接口	HDMI2.0 x 1 DP1.2 x 1 eDP x 1 CEC support with STM32 on HDMI x 1	HDMI 2.0 x 1 DP 1.4 x 1 + eDP x 1, 4K at 60hz internal panel
以太网	i7/i5 SKU LAN (i210 AT) x 1, LAN (i219 LM) x 1 i3/Celeron® LAN (i210 AT) x 1, LAN (i219 V) x 1	Intel® i225IT x 1, Intel® i219 (vPRO) x 1
操作系统支持	Win 10 Linux Ubuntu 18.04 with Kernel 5.0 Linux Yocto 2.7 with Kernel 4.19	Win 10/IOT Linux Ubuntu 20.04.02 Linux Yocto 3.1
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
认证	CE/FCC Class A, RoHS Compliant, REACH	
备注		

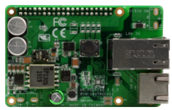
型号	UP Xtreme i12
系统	
处理器	12th Gen Intel® Core™ Processor SoC Core i7-1270PE Core i5-1250PE Core i3-1220PE Celeron® 7305E
显卡	Intel® Iris® Xe graphics
内存	Up to 32GB on board LPDDR5 4800MHz (Dual Channel)
存储	M.2 2280 (PCIe Gen4.0 x 4) M-key x 2 SATA3 x 1
I/O	10-pin USB 2.0 x 2 / HSUART x 1 4pin Fan Connector x1 6pin Front Panel Header x 1 10-pin RS232/422/485 Pin Header x 2 DC Connector x 1 Power Button/LED x 1 Audio Jack x 1 (Mic-in, Line out) RJ45 x 2
摄像头	—
USB	USB 2.0 x 2 (from wafer x 1), USB2.0 Type A x 1 USB 3.2 Gen 2 Type A x 3 USB4.0 Type C x 1
扩展	40 pin GPIO x 1 M.2 2230 E-key x 1 M.2 2280 (PCIe Gen4.0 x 4) M-key x 2 SATA3 x 1 M.2 3052 B-key x 1 Nano SIM slot x 1
显示接口	HDMI 2.0b x 1 DP 1.4a x 1 DP 1.4b via USB type C x 1 eDP1.4b x 1
以太网	Intel® i226IT (TSN) x 1, Intel® i219 (vPRO) x 1
安全	TPM 2.0
RTC	Yes
操作系统支持	Windows* 10 Enterprise 2021 LTSC Ubuntu 22.04 Yocto (TBD)
电源要求	
电源	12-36V DC input (AT/ATX mode)
电源支持类型	Lockable
功耗 (标准)	Intel® Core™ i7-1270PE, LPDDR5 4800MHz 16GB, 5.86A@+ 12V (Typical) Intel® Core™ i7-1270PE, LPDDR5 4800MHz 16GB, 8.05A@+ 12V (Max)
机构	
尺寸	4.74" x 4.82" (120.35 x 122.5 mm)
重量	0.88lb (0.4kg)
总重量	1.32lb (0.6kg)
环境	
工作温度	With Heatsink: 32°F ~ 140°F (0°C ~ 60°) / 0.5 airflow
工作湿度	0% ~ 90% relative humidity, non-condensing
MTBF	362,068 Hours
认证	CE/FCC Class A, RoHS Compliant, REACH
备注	

UP主板：UP扩展模块

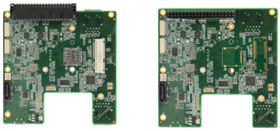


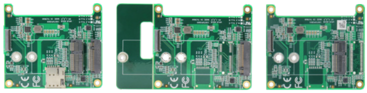
型号	Connect Plus
系统	
VPU	—
以太网	Intel I211-AT x 3 (A10-001) Intel I210-IT for wide temperature x 3 (A10-002)
电源要求	12V5A
电源支持类型	12VDC from M/B
功耗 (标准)	Max 13.5W w/o 5G module
尺寸 (L x W)	3.54" x 2.2" (90 mm x 56 mm)
工作温度	32°F ~ 140°F (0°C ~ 60°C)
工作湿度	10 ~ 80% relative humidity, non-condensing
认证	CE/FCC Class A
操作系统支持	Microsoft Windows 10 Linux: ubilinux, Ubuntu, Yocto Android-IA 9.0
I/O	
以太网	001: Intel® I211-AT x 3 002: Intel® I210-IT for wide temperature
USB	USB 3.0 Type A x 1
SATA	—
扩展槽	M.2 3042/3052 B-key DOCKING I DOCKING II UART x 1 SPI x 1
备注	

型号	UP-3G HAT
系统	
IC	2-CH FULL-SPEED USB UART x 1 USB 2.0 Hub x 1 RS-232/RS-485/RS-422 transceiver x 2
I/O 配置	
外置端口	RS-232/422/485 Connector (DB9) x 1
内置连接器	RS-232 wafer (RS-232/422/485) x 1 USB wafer x 1 Minicard x 1 uSIM Card Reader x 1 HAT 40 GPIO male (4x GPIO, 3.3V, 5V, GND) x 1 WIFI LED x 1 3G LED x 1 Power LED x 1
其他	
板型	2.56" x 2.2" (65 mm × 56 mm)
认证	CE/FCC Class A
工作温度	32°F ~ 140°F (0°C ~ 60°C)
工作湿度	10%~80% RH, non-condensing
选配	
WiFi模块	UP-WIFIMD-A20-7001 (WiFi module: 7M02) UP-WIFIMD-A20-4001 (WiFi module: 4M02)
BT模块	UP-BTMD-A20-0001
3G模块	9741UC20G0 (3G module: UC20-G)
备注	



型号	UP-POE HAT
系统	
IC	LT4321I (PoE Ideal Diode Bridge Controller) x 1 LT4276B (PD Forward / Flyback Controller) x 1
I/O 配置	
外置端口	RJ45 input x 1 RJ45 output x 1
内置连接器	HAT 40 GPIO male (5V, GND) x 1
其他	
板型	3.37" x 2.22" x 0.98" (85.6 mm x 56.5 mm x 25 mm)
认证	CE / FCC Class A
工作温度	32°F ~ 140°F (0°C ~ 60°C)
操作系统支持	No OS limitation
备注	

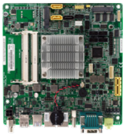




型号	UP Squared 6000 PSE Carrier Board	UP 4000 M.2 Plus
系统		
I/O	UPN-EHLCB-A10-001: Gbe via Marvell Alaska x 2 Micro USB (PSE DEBUG PORT) x 1 40pin HAT2 PSE header x 1 (CAN x 2, QEP x 4, I2C x 1, PWM x 4, ADC x 4) SATA with power connector x 1 100pin board-to-board high speed connector x 1 Full-sized Mini-PCIe (via USB2.0) x 1 SIM card slot x 1 SWD 10pin wafer (connect to MB) x 1 UART 10pin wafer (connect to MB) x 1 RS232 wafer x 1 UPN-EHLCB-A10-002: Micro USB (PSE DEBUG PORT) x 1 40pin HAT2 PSE header x 1 (CAN x 2, QEP x 4, I2C x 1, PWM x 4, ADC x 4) SATA with power connector x 1 100pin board-to-board high speed connector x 1 SWD 10pin wafer (connect to MB) x 1 UART 10pin wafer (connect to MB) x 1 RS232 wafer x 1	UP-APL03CB-A10-0001: M.2 3052/3042 B Key x1 (USB3.0) M.2 2230 E Key x1 (PCIe x1) (w/o Bluetooth) Push-push Nano SIM card x1 41pin FPC connector x1 UP-APL03CB-A10-0002: M.2 2280 M Key x1 (PCIe x1) 41pin FPC connector x1 UP-APL03CB-A10-0003: M.2 2230 E Key x1 (PCIe x1, USB 2.0 x1) 41pin FPC connector x1
尺寸	4" x 4" (101.6mm x 101.6mm)	UP-APL03CB-A10-0001: 2" x 2.36" (51mm x 60mm) UP-APL03CB-A10-0002: 2" x 3.5" (51mm x 89 mm) UP-APL03CB-A10-0003: 2" x 2.36" (51mm x 60mm)
重量	0.08 kg	UP-APL03CB-A10-0001: 16g UP-APL03CB-A10-0002: 19g UP-APL03CB-A10-0003: 15g
总重量	0.14 kg	UP-APL03CB-A10-0001: 55g UP-APL03CB-A10-0002: 58g UP-APL03CB-A10-0003: 54g
工作温度	32°F ~ 140°F (0°C ~ 60°C)	32°F ~ 140°F (0°C ~ 60°C), 0.5m/s airflow
工作湿度	0% ~ 90% relative humidity, non-condensing	10% ~ 80% relative humidity, non-condensing
认证	CE/FCC Class A	CE/FCC Class A, RoHS Compliant
备注		

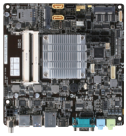
型号	EMB-APL1	EMB-APL3
系统		
处理器	N4200, (4C @ 2.50GHz CPU [Burst Mode], 750MHz GFX [Turbo], ~6W TDP) N3350, (2C @ 2.40GHz CPU [Burst Mode], 650MHz GFX [Turbo], ~6W TDP)	
芯片组	Intergrated into SoC	
内存	DDR3L 1333/1600/1867MHz SODIMM x 2, max. 8GB, non-ECC, un-buffered memory	
I/O 芯片组	NCT6116D	
以太网	Realtek PCIe Gb LAN 8111H x 2	
音频	Realtek® ALC897	
TPM	Nuvoton NPCT652ABCYX TPM2.0 (default: No)	
扩展槽	PCIe2.0 [x1] x 1 M.2 M key (22 x 42mm) x 1, for SATA M.2 E Key (22 x 30mm) x 1, for PCIe	
BIOS	128Mbit Flash ROM x 1, AMI BIOS	
硬件监控	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	Chassis Fan (Fanless)	
网络唤醒/ PXE	Yes (WOL/PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® HD Graphics	
图形多显示端口	Three Independent Display	
VGA	Up to 1920 x 1200 @60Hz	
DVI	—	
HDMI	Up to 3840 x 2160 @ 30Hz	Up to 3840 x 2160 @30 Hz(HDMI 1.4b)
显示端口	—	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz (Colay with VGA)
LVDS	Up to 1920 x 1200 @60Hz, dual-channel 18/24 bit (via PS8625) (colay with eDP)	
eDP	Up to 4096 x 2160 @60Hz	
背光控制	Voltage/PWM	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	12V~24V wide-range voltage input back panel DC jack x 1; 4-pin ATX Power connector x 1	12V DC jack (screw type) 4-pin internal power connector
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% RH, non-condensing	
认证	CE & FCC Class A	CE & FCC
板型	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	263,080	230,820
后面板 I/O 端口		
USB	USB 3.2 Gen 1 (5 Gbps) x 2, USB 2.0 x 2	USB 3.2 Gen 1 (5 Gbps) x 4
显示 I/O	HDMI x 1, VGA x 1	VGA/DP x 1, HDMI x 1
音频 I/O	Mic-in, Line-out	Line-out x 1
LAN I/O	RJ-45 x 2	LAN (RJ-45) port x 2
串口	—	
PS/2端口	—	
其他	DC power jack x 1	
内置 I/O 连接器		
存储	SATA 6.0Gb/s x 2(1 colay with M.2 M-key), M.2 M-key (22 x 42mm) x 1	
USB	USB 2.0 headers support additional 3 USB ports (2*5-pin, p=2.00mm) x 2	USB 2.0 headers support additional 6 USB ports (2*5-pin, p=2.00mm) x 3
显示 I/O	40-pin LVDS/eDP connector x 1 (default LVDS)	
音频 I/O	—	AAFP
串口	RS-232/422/485 x 1, RS-232 x 5	
PS/2端口	—	
并口	—	
DIO	8-bit x 1 (In/Out programmable)	
风扇	4-pin Chassis Fan x 1	
电源	—	
其他	Front panel header x 1, Clear CMOS jumper x 1, AT/ATX mode select jumper (optional) x 1, SATA power connector x 1, M.2 E key (22 x 30mm) for PCIe x 1	
操作系统		
操作系统支持	Windows® 10 64bit, Ubuntu16.04.02/Kernel4.8.0	
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	EMB-BT1	EMB-BT2
系统		
处理器	Intel® Celeron® J1900 Processor (4C @ 2.00 GHz CPU, 688/854 MHz GFX, 10W TDP), Intel® Celeron® N2807 Processor (2C @ 1.58 GHz CPU, 313/750 MHz GFX, 4.3W TDP), Intel® Atom® E3845 Processor (4C @ 1.91 GHz CPU, 542/792 MHz GFX, 10W TDP)	Intel® Celeron® J1900 Processor (4C @ 2.00 GHz CPU, 688/854 MHz GFX, 10W TDP)
芯片组	—	
内存	DDR3L 1333 MHz SODIMM x 2 up to 8 GB (for J1900 / E3845), DDR3L 1333 MHz SODIMM x 1 up to 4 GB (for N2807), Non-ECC, un-buffered memory, Dual-channel memory architecture flat type	DDR3L 1333 MHz SODIMM x 1 up to 8 GB, Non-ECC, un-buffered memory
I/O 芯片组	Fintech 81866D	
以太网	Realtek® PCIe Gb LAN 8111H x 2	
音频	Realtek® ALC897	
TPM	Infineon SLB9635 TT 1.2 (default : No)	
扩展槽	Full-size Mini-Card (mSATA default) (PCIe+USB optional) + SIM Card (default: No) x 1, Half-size Mini-Card (PCIe+USB) x 1, PCIe [x1] x 1	Full-size Mini-Card (mSATA default PCIe+USB optional) x 1, PCIe [x1] x 1
BIOS	64 M bit Flash ROM, AMI BIOS	
硬件监控	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	Chassis Fan (fanless)	
网络唤醒/ PXE	Yes (WOL/PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® HD Graphics	
图形多显示端口	VGA+LVDS, VGA+HDMI, LVDS+HDMI	VGA+LVDS, Dual LVDS
VGA	Up to 1920 x 1200 @60 Hz	
DVI	—	
HDMI	Up to 1920 x 1200 @60 Hz	—
显示端口	—	
LVDS	Up to 1920 x 1080 @60Hz, dual-channel 18/24-bit (via CH7511)	Dual LVDS, Up to 1920 x 1080 @60Hz, dual-channel 18/24-bit (via CH7511)
eDP	—	
背光控制	Voltage/PWM	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	12VDC	ATX
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0% ~ 90% R/H, non-condensing	
认证	CE & FCC	
板型	Mini-ITX 6.7" x 6.7" (170mm x 170mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	111,131	290,990
后面板 I/O 端口		
USB	USB 3.2 Gen 1 (5 Gbps)/2.0 x 1, USB 2.0 x 2	USB 2.0 x 6
显示 I/O	VGA x 1, HDMI x 1	VGA x 1
音频 I/O	Line-out x 1	Mic-in x 1, Line-out x 1
LAN I/O	LAN (RJ-45) port x 2	
串口	COM (RS-232) (optional) x 1	COM (RS-232/422/485) x 1, COM (RS-232) x 2
PS/2端口	—	PS/2 Keyboard Mouse combo x 1
其他	DC port (12V) Screw type x 1	—
内置 I/O 连接器		
存储	SATA3 (6.0Gb/s) x 2, SATA2 (3.0Gb/s) x 2 (1 colay with mSATA), SATA power connector x 1, Ful Size Mini-Card slot (mSATA) x 1	SATA2 (3.0Gb/s) x 2 (1 colay with mSATA), Ful Size Mini-Card slot (mSATA) x 1
USB	USB 2.0 (2 x 5-pin, 2.54mm) x 2 ports support additional 4 USB, USB 2.0 (1x 5-pin, 2.0mm) x 1 port supports additional 1 USB	USB 2.0 (2 x 5-pin, 2.54mm) x 2 ports support additional 4 USB
显示 I/O	LVDS connector x 1, LVDS 3V /5V jumper x 1, LCD DC / PWM mode jumper x 1, LCD backlight connector (inverter) x 1, LCD backlight 12V /5V jumper x 1	LVDS connector x 2, LVDS 3V /5V jumper x 2, LCD DC / PWM mode jumper x 2, LCD backlight connector (inverter) x 2, LCD backlight 12V /5V jumper x 2, LCD push button for backlight control (2PIN) x 2
音频 I/O	AAFP x 1	AAFP x 1, Speaker x 1
串口	Box header for COM (RS-232) x 4, Box header for COM (RS-232/422/485) x 1	Box header for COM (RS-232) x 3
PS/2端口	PS/2 Keyboard Mouse 6 PIN Connector x 1	—
并口	SPP/EPP Mode	—
DIO	DIO (4in/4out) x 1	
风扇	Chassis Fan connector x 1	
电源	12V AUX Power Connector x 1, AT/ATX mode select jumper (default : No) x 1	24PIN ATX power connector x 1, AT/ATX mode select jumper (default : No) x 1
其他	Half-size Mini-Card (PCIe + USB) x 1, PCIe [x1] x 1, SIM Card Socket(default : No) x 1, LPT PIN header x 1, Front Panel connector x 1, CMOS jumper x 1	Front Panel connector x 1, CMOS jumper x 1
操作系统		
操作系统支持	Windows® 10 64-bit, Windows® 7 32/64-bit, Windows® 8.1 32/64-bit, Linux Fedora	

备注: 所有规格如有变更，恕不另行通知。




型号	EMB-BT4	MIX-EHLD1
系统		
处理器	Intel®Celeron®J1900 Processor (4C@2.00GHz CPU, 688/854MHz GFX, 10W TDP)	Intel® Elkhart LAKE Processor Max. 12W TDPs
芯片组	—	—
内存	DDR3L 1333 MHz SODIMM x 2 up to 8 GB (for J1900), Non-ECC, un-buffered memory, Dual-channel memory architecture flat type	SO-DIMM, max. 32GB , DDR4 3200MTS x 2
I/O 芯片组	Fintech 81866D	NCT6126D
以太网	Realtek PCIe Gb LAN 8111Hx 1	RTL8111H x 2
音频	Realtek® ALC897	Realtek® ALC897
TPM	Infineon SLB9635 TT 1.2 (default : No)	Nuvoton NPCT750 TPM2.0 onboard
扩展槽	Full-size Mini-Card (mSATA default) (PCIe+USB optional) + SIM Card (default: No) x 1, Half-size Mini-Card (PCIe+USB) x 1	M.2 Slot (B key; 3042/3052) x1, mini-PCIe(Full/Half)) x , SIM socket x 1(default for B-key)
BIOS	64 M bit Flash ROM, AMI BIOS	256Mbit Flash ROM, AMI BIOS
硬件监控	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on Chassis
看门狗定时器	1~255 steps by software program	
智能风扇控制	Chassis Fan (fanless)	Chassis Fan
网络唤醒/ PXE	Yes (WOL/PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® HD Graphics	Intel® UHD Graphics
图形多显示端口	VGA+LVDS, VGA+HDMI, LVDS+HDMI	3 Independent Display(1xVGA+1x HDMI + 1x LVDS/eDP)
VGA	Up to 1920 x 1200 @60 Hz	
DVI	—	
HDMI	Up to 1920 x 1200 @60 Hz	Up to 4096 x 2160 @ 60Hz
显示端口	—	
LVDS	Up to 1920 x 1080 @60Hz, dual-channel 18/24-bit (via CH7511)	Up to 1920 x 1080 @60Hz, Daul Channel 18/24 bit (via CH7513) co-layout eDP (default LVDS)
eDP	—	Up to 3840 x 2160 @ 30Hz
背光控制	Voltage/PWM	Voltage / PWM, use HW control
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	12VDC	12(+/-5%) DC
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0% ~ 90% R/H, non-condensing	
认证	CE & FCC	CE & FCC Class A
板型	Mini-ITX: 6.7” x 6.7” (170mm x 170mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	295,750	—
后面板 I/O 端口		
USB	USB 3.2 Gen 1/2.0 x 1, USB 2.0 x 2	USB 3.2(Gne1) ports x 2, USB 2.0 ports x 4 (upper 2 ports by BOM Optional)
显示 I/O	HDMI x 1	HDMI x 1, VGA x 1
音频 I/O	Line in x 1, Line-out x 1	Mic-in x 1, Line out x 1
LAN I/O	LAN (RJ-45) port x 1	1GbE x 2
串口	COM (RS-232) x 1	RS232 by BOM Optional
PS/2端口	—	
其他	DC port (12V) Screw type x 1	DC Jack x 1
内置 I/O 连接器		
存储	SATA3 (6.0Gb/s) x 2, SATA2 (3.0Gb/s) x 2 (1 colay with mSATA), SATA power connector x 1, Ful Size Mini-Card slot (mSATA) x 1	M.2 Slot (M key; 2280;PCIex2), SATA 6Gb/s x 1, SATA power connector (5V / 12V @1A) x 1
USB	USB 2.0 (2 x 5-pin, 2.54mm) x 2 ports support additional 4 USB, USB 2.0 (1x 5-pin, 2.0mm) x 1 port supports additional 1 USB	USB2.0 ports x 2
显示 I/O	VGA pin header x 1, LVDS connector x 1, LVDS 3V /5V jumper x 1, LCD DC / PWM mode jumper x 1, LCD backlight connector (inverter) x 1, LCD backlight 12V /5V jumper x 1	40-pin LVDS / eDP connector x 1
音频 I/O	AAFP x 1	AAFP follow ASUS pin out x 1
串口	Box header for COM (RS-232) x 4, Box header for COM (RS-232/422/485) x 1	Box header x 5 for COM (COM1: RS-232/422/485 supports 5V/12V/RI; COM2~6: RS-232)
PS/2端口	PS/2 Keyboard Mouse 6 PIN Connector x 1	—
并口	SPP/EPP Mode	—
DIO	DIO (4in/4out) x 1	Digital I/O box header x 1
风扇	Chassis Fan connector x 1	4-pin Chassis Fan connector x 1
电源	12V AUX Power Connector x 1, AT/ATX mode select jumper (default : No) x 1	—
其他	Half-size Mini-Card (PCIe + USB) x 1, SIM Card Socket(default : No) x 1, LPT PIN header x 1, Front Panel connector x 1, CMOS jumper x 1	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, Clear CMOS jumper x 1, AT/ATX mode select jumper x 1
操作系统		
操作系统支持	Windows® 10 64-bit, Windows® 7 32/64-bit, Windows® 8.1 32/64-bit, Linux Fedora	Windows® 10 64-bit, Linux Ubuntu 64 bit (20.04.2/Kernel 5.4)

备注: 所有规格如有变更，恕不另行通知。

型号	MIX-KLUD1	MIX-TLUD1
系统		
处理器	Core™ i3-7100U, 2C/4C, 2.4GHz, 3M, 300MHz/1.00GHz (Turbo) GFX, ~15W TDP	Intel® 11th Gen (Tiger Lake-UP3) Core™ Processors, up to 28W TDPs - i7-1185G7E, QC, Max Speed up to 4.4GHz - i5-1145G7E, QC, Max Speed up to 4.1GHz - i3-1115G4E, DC, Max Speed up to 3.9GHz - Celeron 6305E, DC, 1.8GHz
芯片组	—	
内存	SODIMM x 2, max. 32GB, DDR4-2133 non-ECC, un-buffered memory	DDR4 2666/3200 MHz SODIMM x 2, Up to 64GB
I/O 芯片组	NCT6793D	IT5121E
以太网	Intel® PCIe Gb LAN 219LM (vPro for i7-7600U/i5-7300U) x 1 Intel® PCIe Gb LAN 210AT x 1	Intel® PCIe Gb LAN 219LM x 1 Intel® PCIe Gb LAN 225LM x 1
音频	Realtek® ALC897 with Amp.	Realtek® ALC897
TPM	NPCT650 TPM2.0 onboard (default: No)	Nuvoton NPCT750 TPM2.0 onboard
扩展槽	PCIe 3.0 [x1] x 1 M.2 M key (22 x 80 mm) x 1, SATA & PCIe [x4] M.2 E key (22 x 30 mm) x 1 for Wireless-wifi module (PCIe+USB)	PCIe 3.0 [x4] x 1, mini-card x 1(PCIe/SATA; BOM Optional)
BIOS	128Mbit Flash ROM, AMI BIOS	256Mbit Flash ROM, AMI BIOS
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/Chassis Fan	
网络唤醒/ PXE	Yes (WOL/PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® UHD Graphics	Intel® Xe(Gen 12) Graphics
图形多显示端口	HDMI x 2, eDP x 1 or LVDS x 1	Quad Display
VGA	—	
DVI	—	
HDMI	HDMI 1.4 up to 4096 x 2340 @24Hz	HDMI 2.0
显示端口	—	DP1.4
LVDS	Up to 1920 x 1200 @ 60 Hz, Dual Channel 18/24 bit	Up to 1920 x 1200 @60Hz, Dual Channel 18/24 bit (via CH7511B)
eDP	UP to 4096 x 2304 @ 60Hz	eDP1.4b
背光控制	Voltage/PWM; Max 1A	—
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	12V DC	12(+/-5%) DC
工作温度	32°F ~ 131°F (0°C ~ 55°C)	32°F ~122°F (0°C ~ 50°C)
存储温度	-40°F ~ 185°F (-40°C ~85°C)	-40°F ~185°F (-40°C ~85°C)
工作湿度	0% ~ 90%RH, non-condensing	
认证	CE & FCC (Class A)	
板型	Mini-ITX: 6.7" x 6.7" (170 mm x 170 mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	400,330	—
后面板 I/O 端口		
USB	USB 3.2 Gen 1 (5 Gbps) x 4	USB 3.2 Gen2 x 2, USB2.0 x 4
显示 I/O	HMDI x 2	HDMI x 2, DP++ x 2
音频 I/O	Mic-in x 1, Line-out x 1	
LAN I/O	LAN (RJ-45) port x 2	1GbE x 1, 2.5GbE x 1
串口	—	
PS/2端口	—	
其他	DC Power Jack x 1	—
内置 I/O 连接器		
存储	M.2 M key (22 x 80mm) for PCIe [x4]/SATA storage x 1, SATA 6.0Gb/s x 2, 4-pin SATA power x 1	M.2 M key (2280) for (NVMe;PCIex4) storage x 1 SATA 6.0Gb/s x 1
USB	USB 2.0 pin header x 2 support additional 4 USB ports	USB 3.0 Box header x 1 (support additional USB3.2 Gen1 x 2ports)
显示 I/O	40-pin LVDS connector x 1, 40-pin eDP connector x 1, LCD backlight connector(inverter) x 1	40-pin LVDS connector x 1, 40-pin eDP connector x 1
音频 I/O	Speaker for 2W@4Ω x 1, AAFP follow ASUS pin out x 1	AAFP follow ASUS pin out x 1
串口	Box header x 2 for COM (COM1: RS-232/422/485 supports 5V/12V/RI)	Box header x 2 for COM (COM1/2: RS-232)
PS/2端口	—	
并口	—	
DIO	8-bit programmable (4-in/4-out) x 1	Digital I/O box header x 1
风扇	4-pin CPU Fan connector x 1, 4-pin Chassis Fan connector x 1	4-pin CPU Fan connector x 1 4-pin Chassis Fan connector x 1
电源	—	
其他	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, CMOS jumper x 1	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, Clear CMOS jumper x 1, AT/ATX mode select jumper x 1; SIM socket x 1
操作系统		
操作系统支持	Windows® 10 64-bit	Windows® 10 64-bit, 20.04.2/Kernel 5.8

备注: 所有规格如有变更，恕不另行通知。


型号	MIX-H310A1	MIX-H310A2
系统		
处理器	8th/9th Gen. Intel® Core™ LGA 1151 socket Processor (formerly Coffee Lake-S), Max. 65W TDPs	
芯片组	Intel® H310 Express Chipset	
内存	DDR4 2666/2400/2133 MHz SODIMM x 2, Up to 32GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture	
I/O 芯片组	NCT6793D	
以太网	Intel® PCIe Gb LAN 219V x 1, Intel® PCIe Gb LAN i210AT x 3	Intel® PCIe Gb LAN 219V x 1, Intel® PCIe Gb LAN i210AT x 1
音频	Realtek® ALC897 with Amp.	
TPM	Firmware TPM	
扩展槽	PCIe3.0 [x16] x 1, M.2 M-key(22x80mm) at bottom side x 1 for SATA, M.2 E-key(22x30mm)	PCIe3.0 [x16] x 1
BIOS	128Mbit Flash ROM, AMI BIOS	256Mbit Flash ROM, AMI BIOS
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ Chassis Fan	
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® UHD Graphics	
图形多显示端口	HDMI+VGA	HDMI+VGA, HDMI+DP, HDMI+LVDS, VGA+DP, VGA+LVDS, DP+LVDS
VGA	Up to 1920 x 1200 @ 60 Hz	
DVI	—	
HDMI	Up to 4096 x 2160 @30Hz(HDMI 1.4)	Up to 3840 x 2160 @30 Hz(HDMI 1.4b)
显示端口	—	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz
LVDS	—	LVDS Up to 1920 x 1200 @60 Hz, Dual Channel 18/24 bit (1 x inverter)
eDP	—	
背光控制	—	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	ATX	
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0%~90%RH, non-condensing	
认证	CE & FCC	
板型	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	288,900	333,520
后面板 I/O 端口		
USB	USB 3.2 Gen 1 (5 Gbps) x 4, USB 2.0 x 2	USB 3.2 Gen 1 (5 Gbps) x 4
显示 I/O	VGA x 1, HDMI x 1	VGA x 1, HDMI x 1, DP x 1
音频 I/O	Mic-in x 1, Line-out x 1	
LAN I/O	LAN (RJ-45) port x 4	LAN (RJ-45) port x 2
串口	—	1x COM(RS485/422/232)
PS/2端口	—	
其他	—	
内置 I/O 连接器		
存储	SATA3.0 (6.0Gb/s) x 2, M.2 M-key (22 x 80mm) at bottom side x 1 (SATA only)	SATA3.0 (6.0Gb/s) x 2, M.2 M-key (22 x 80mm) x 1
USB	USB 2.0 (2 x 5-pin, 2.00mm) x 1 port support additional 2 USB.	
显示 I/O	—	LVDS x 1
音频 I/O	AAFP x 1, Speaker x 1	
串口	Box header for COM (RS-232/422/485) x 1, Box header for COM (RS-232) x 1	Box header for COM (RS-232) x 1
PS/2端口	—	
并口	—	
DIO	Digital I/O box header x 1	
风扇	4-pin CPU Fan connector x 1, 4-pin Chassis Fan connector x 1	
电源	—	
其他	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, CMOS jumper x 1	
操作系统		
操作系统支持	Windows® 10 64-bit, ,Linux Ubuntu 18.04 LTS	
备注		

备注: 所有规格如有变更，恕不另行通知。

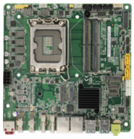

<table>
<tr><th>型号</th><th>MIX-H310D1</th><th>MIX-H310D2</th></tr>
<tr><td>系统</td><td></td><td></td></tr>
<tr><td>处理器</td><td colspan="2">8th/9th Gen. Intel® Core™ LGA 1151 socket Processor (formerly Coffee Lake-S), Max. 65W TDPs</td></tr>
<tr><td>芯片组</td><td colspan="2">Intel® H310 Express Chipset</td></tr>
<tr><td>内存</td><td>DDR4 2666 MHz SODIMM x 2, Up to 32GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture</td><td>DDR4 2666/2400/2133 MHz SODIMM x 2, Up to 64GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture</td></tr>
<tr><td>I/O 芯片组</td><td colspan="2">NCT6793D</td></tr>
<tr><td>以太网</td><td>Realtek ® PCIe Gb LAN RTL8111H</td><td>Intel® GbE LAN i219V x 1, Intel® GbE LAN i210AT x 1</td></tr>
<tr><td>音频</td><td colspan="2">Realtek® ALC897</td></tr>
<tr><td>TPM</td><td>Firmware TPM</td><td>NPCT750 TPM2.0 (default: No)</td></tr>
<tr><td>扩展槽</td><td>PCIe3.0 [x4] x 1
M.2 E-key(22 x 30 mm) x 1 for Wireless-wifi module (PCIe+USB)</td><td>PCIe3.0 [x16] x 1
M.2 E-key(22 x 30 mm) x1 for Wireless-wifi module (PCIe+USB; CNVi)</td></tr>
<tr><td>BIOS</td><td>128Mbit Flash ROM, AMI BIOS</td><td>256Mbit Flash ROM, AMI BIOS</td></tr>
<tr><td>硬件监控</td><td colspan="2">Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis</td></tr>
<tr><td>看门狗定时器</td><td colspan="2">1~255 steps by software program</td></tr>
<tr><td>智能风扇控制</td><td colspan="2">CPU Fan/ Chassis Fan</td></tr>
<tr><td>网络唤醒/ PXE</td><td colspan="2">Yes (WOL / PXE)</td></tr>
<tr><td>电源状态</td><td colspan="2">S3, S4, S5</td></tr>
<tr><td>显卡</td><td></td><td></td></tr>
<tr><td>显示芯片组</td><td colspan="2">Intel® UHD Graphics</td></tr>
<tr><td>图形多显示端口</td><td>HDMI1+HDMI2, HDMI1+DP2, DP1+HDMI2, HDMI1+LVDS, HDMI2+LVDS, HDMI1+eDP, HDMI2+eDP, DP1+DP2, DP1+LVDS, DP2+LVDS, DP1+eDP, DP2+eDP</td><td>HDMI+HDMI, HDMI+eDP, HDMI+VGA, VGA+eDP</td></tr>
<tr><td>VGA</td><td>—</td><td>Up to 1920 x 1200 @ 60 Hz (Optional)</td></tr>
<tr><td>DVI</td><td colspan="2">—</td></tr>
<tr><td>HDMI</td><td>Up to 4096 x 2304@24Hz (HDMI 1.4b)</td><td>Up to 3840 x 2160 @30 Hz(HDMI 1.4)</td></tr>
<tr><td>显示端口</td><td>Up to 4096 x 2304@60Hz</td><td>—</td></tr>
<tr><td>LVDS</td><td>Up to 1920 x 1200 @ 60 Hz, dual-channel 18/24 bit (via CH 7511)</td><td>—</td></tr>
<tr><td>eDP</td><td colspan="2">UP to 4096 x 2304 @ 60Hz</td></tr>
<tr><td>背光控制</td><td>Voltage/PWM</td><td>Support eDP</td></tr>
<tr><td>环境 & 电源 & 机构</td><td></td><td></td></tr>
<tr><td>电池</td><td colspan="2">Lithium battery</td></tr>
<tr><td>电源要求</td><td colspan="2">12V DC</td></tr>
<tr><td>工作温度</td><td colspan="2">32°F ~140°F (0°C ~ 60°C)</td></tr>
<tr><td>存储温度</td><td colspan="2">-40°F ~185°F (-40°C ~85°C)</td></tr>
<tr><td>工作湿度</td><td colspan="2">0%~90%RH, non-condensing</td></tr>
<tr><td>认证</td><td colspan="2">CE & FCC</td></tr>
<tr><td>板型</td><td colspan="2">Mini-ITX: 6.7” x 6.7” (170 mm x 170 mm)</td></tr>
<tr><td>重量</td><td colspan="2">1.1 lb (0.5 kg)</td></tr>
<tr><td>MTBF (小时)</td><td>246,210</td><td>373,720</td></tr>
<tr><td>后面板 I/O 端口</td><td></td><td></td></tr>
<tr><td>USB</td><td>USB 3.2 Gen 1 (5 Gbps) x 4</td><td>USB 3.2 Gen 1 x 4, USB 2.0 x 4</td></tr>
<tr><td>显示 I/O</td><td>HDMI x 2, DP x 1 + HDMI x 1 (Optional), DP x 2 (Optional)</td><td>HDMI x 2, VGA x 1 (Optional)</td></tr>
<tr><td>音频 I/O</td><td colspan="2">Mic-in x 1, Line-out x 1</td></tr>
<tr><td>LAN I/O</td><td colspan="2">LAN (RJ-45) port x 2</td></tr>
<tr><td>串口</td><td colspan="2">—</td></tr>
<tr><td>PS/2 端口</td><td colspan="2">—</td></tr>
<tr><td>其他</td><td>DC Jack</td><td>12V DC Jack (max:192W)</td></tr>
<tr><td>内置 I/O 连接器</td><td></td><td></td></tr>
<tr><td>存储</td><td>SATA3.0 (6.0Gb/s) x 2
M.2 M-key (SATA) (22 x 42mm) x 1</td><td>SATA3.0 (6.0Gb/s) x 2
M.2 M-key (22 x 42/80mm; PCIe) x 1</td></tr>
<tr><td>USB</td><td>USB 2.0 (2 x 5-pin, 2.00mm) x 3 ports support additional 5 USB.</td><td>USB 2.0 (2 x 5-pin, 2.00mm) x 1 port support additional 1 USB</td></tr>
<tr><td>显示 I/O</td><td>—</td><td>eDP x 1</td></tr>
<tr><td>音频 I/O</td><td>AAFP x 1, Speaker header x 1</td><td>AAFP x 1</td></tr>
<tr><td>串口</td><td>Box header for COM (RS-232/422/485) x 1
Box header for COM (RS-232) x 1</td><td>Box header for COM (RS-232) x 1; RS-232/422/485 x 1</td></tr>
<tr><td>PS/2 端口</td><td colspan="2">—</td></tr>
<tr><td>并口</td><td colspan="2">—</td></tr>
<tr><td>DIO</td><td colspan="2">Digital I/O box header x 1</td></tr>
<tr><td>风扇</td><td colspan="2">4-pin CPU Fan connector x 1, 4-pin Chassis Fan connector x 1</td></tr>
<tr><td>电源</td><td colspan="2">—</td></tr>
<tr><td>其他</td><td>Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, CMOS jumper x 1</td><td>Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, CMOS jumper x 1, ATX/AT mode select x 1, ME disable x 1, eDP Tcon IC voltage select x 1, eDP panel backlight voltage select x 1, COM RI select jumper x 1, SATA PWR x 1</td></tr>
<tr><td>操作系统</td><td></td><td></td></tr>
<tr><td>操作系统支持</td><td>Windows® 10 64-bit
Linux Ubuntu 18.04 LTS</td><td>Windows® 10 64-bit, Linux Ubuntu 18.04.2</td></tr>
</table>

型号	MIX-Q370A1	MIX-Q370D1
系统		
处理器	8th/9th Gen. Intel® Core™ LGA 1151 socket Processor (formerly Coffee Lake-S), Max. 65W TDPs	8th/9th Generation Intel® Core™ i7/ i5 /i3, Pentium® LGA 1151 socket Processor (formerly Coffee Lake-S), Max. 65W TDPs
芯片组	Intel® Q370 Express Chipset	
内存	DDR4 2666/2400/2133 MHz SODIMM x 2, Up to 32GB, Non-ECC, Un-buffered Memory, dual-channel memory architecture	SODIMM x 2, Max. 32GB, DDR4 2666/2400 MHz, Non-ECC, Un-buffered Memory, Dual channel
I/O 芯片组	NCT6793D	
以太网	Intel® PCIe Gb LAN 219LM x 1, Intel® PCIe Gb LAN i210AT x 3	Intel® PHY i219LM Giga LAN (support Intel® AMT 12.0) x 1 Intel® i210AT Giga LAN x 1
音频	Realtek® ALC897 with Amp.	Realtek® ALC897
TPM	Firmware TPM	Nuvoton TPM version 2.0
扩展槽	PCIe3.0 [x16] x 1 M.2 E-key (22 x 30mm; Support CNVi)	PCIe 3.0 [x4] x 1 M.2 M key (22 x 80 mm) x 1 at Bottom side, SATA & PCIe [x4] M.2 E key (22 x 30 mm) x 1 for Wireless-wifi module (PCIe+USB)
BIOS	256Mbit Flash ROM, AMI BIOS	
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on Chassis
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ Chassis Fan	
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® UHD Graphics	
图形多显示端口	HDMI+VGA	Three Independent Display
VGA	Up to 1920 x 1200 @ 60 Hz	—
DVI	—	
HDMI	Up to 4096 x 2160 @30Hz (HDMI 1.4)	—
显示端口	—	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz, with Digital Audio, DP++ supported
LVDS	—	LVDS Up to 1920 x 1200 @ 60 Hz, dual-channel 18/24 bit (via Chrontel 7511)
eDP	—	eDP UP to 4096 x 2304 @ 60Hz
背光控制	—	Voltage/PWM
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	ATX	12V DC
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0%~90%RH, non-condensing	
认证	CE & FCC	CE & FCC (Class A)
板型	Mini-ITX: 6.7” x 6.7” (170mm x 170mm)	
重量	1.1 lb (0.5 kg)	
MTBF (小时)	—	256,310
后面板 I/O 端口		
USB	USB 3.2 Gen 2 (10 Gbps) x 4, USB 2.0 x 2	USB 3.2 Gen 2 (10 Gbps) x 4
显示 I/O	VGA x 1, HDMI x 1	DP x 2
音频 I/O	Mic-in x 1, Line-out x 1	
LAN I/O	LAN (RJ-45) port x 4	LAN (RJ45) port x 2
串口	—	
PS/2端口	—	
其他	—	DC Jack
内置 I/O 连接器		
存储	SATA3.0 (6.0Gb/s) x 2, M.2 M-key (22 x 80mm) at bottom side x 1(SATA only)	SATA 6.0Gb/s x 4, M.2 M key (22 x 80 mm) x1 (Support Intel® NVMe M.2 SSD)
USB	USB 2.0 (2 x 5-pin, 2.00mm) x 1 ports support additional 2 USB	3 x USB 2.0 pin header support additional 6 USB ports
显示 I/O	—	40-pin LVDS connector x 1, 40-pin eDP connector x 1 LCD backlight connector (inverter) x 1
音频 I/O	AAFP x 1, Speaker x 1	Speaker for 2W/4Ω x 1, AAFP follow ASUS pin out x 1
串口	Box header for COM (RS-232/422/485) x 1 Box header for COM (RS-232) x 1	Box header x 1 for COM (COM1: RS-232/422/485 supports 5V/12V/RI)
PS/2端口	—	
并口	—	
DIO	Digital I/O box header x 1	8-bit x 1 (In/Out programmable)
风扇	4-pin CPU Fan connector x 1, 4-pin Chassis Fan connector x 1	
电源	—	12V DC Power jack x 1
其他	Front Panel connector x 1, Chassis Intrusion x 1 Buzzer onboard x 1, CMOS jumper x 1	Front panel header x 1, Clear CMOS jumper x 1 AT/ATX select jumper x 1,Chassis Intrusion x 1, 4-pin SATA power x 1
操作系统		
操作系统支持	Windows® 10 64-bit, Linux Ubuntu 18.04. 64-bit	Windows® 10 64 bit, Ubuntu 16.04 LTS

备注: 所有规格如有变更，恕不另行通知。

型号	MIX-Q370D2	MIX-Q670A1
系统		
处理器	8th/9th Gen. Intel® Core™ LGA 1151 socket Processor (formerly Coffee Lake-S), Max. 65W TDPs	Intel® Alder lake-S Core™ Processors, 8+8;65W
芯片组	Intel® Q370 Express Chipset	Q670E
内存	DDR4 2666/2400/2133 MHz SODIMM x 2, Up to 64GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture	SODIMM x 2, max. 64GB, Dual Channel DDR5 4800 MHz
I/O 芯片组	NCT6793D	Intel® UHD Graphics
以太网	Intel® GbE LAN i219V x 1, Intel® GbE LAN i210AT x 1	Intel® GbE LAN 219LM x 1 Intel® GbE LAN 210AT x 1
音频	Realtek® ALC897	Realtek® ALC897 with Amp
TPM	NPCT750 TPM2.0	TPM2.0 IC on board
扩展槽	PCIe3.0 [x16] x 1 M.2 E-key(22 x 30 mm) x1 for Wireless-wifi module (PCIe+USB; CNVi)	PCIex16 slot x 1, M.2 B key (3042/3052;PCIex1) x 1
BIOS	256Mbit Flash ROM, AMI BIOS	
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/Chassis Fan	
网络唤醒/ PXE	Yes (WOL/PXE)	
电源状态	S3, S4, S5	
显卡		
显示芯片组	Intel® UHD Graphics	
图形多显示端口	HDMI+VGA+eDP, HDMI+HDMI+VGA,HDMI+HDMI+eDP	HDMIx2+DPx2, HDMIx2+DPx1+LVDSx1, HDMIx2+DPx1+eDPx1, HDMIx1+DPx2+LVDSx1, HDMIx1+DPx2+eDPx1
VGA	Up to 1920 x 1200 @ 60 Hz	—
DVI	—	
HDMI	Up to 3840 x 2160 @30 Hz(HDMI 1.4b)	Up to 4096 x 2160 @60 Hz(HDMI 2.0)
显示端口	—	Up to 4096 x 2160 @60 Hz
LVDS	—	Up to 1920 x 1080 @60Hz, Daul Channel 18/24 bit
eDP	eDP UP to 4096 x 2304 @ 60Hz	UP to 1920x 1080 @60Hz (via CH7513) co-layout LVDS
背光控制	Support eDP	PWM
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	12V DC	ATX
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% R/H, non-condensing	
认证	CE & FCC	
板型	Mini-ITX: 6.7” x 6.7” (170 mm x 170 mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	319,160	—
后面板 I/O 端口		
USB	USB 3.2 Gen2 x 6, USB2.0 x 4	USB 3.2 Gen1/2 x 8, USB 2.0 x 4
显示 I/O	VGA x 1, HDMI x 2	HDMI x 2, DP x 2
音频 I/O	Mic-in x 1, Line-out x 1	
LAN I/O	LAN (RJ-45) port x 2	
串口	—	
PS/2 端口	—	
其他	12V DC Jack (max:192W)	—
内置 I/O 连接器		
存储	SATA3.0 (6.0Gb/s) x 2, M.2 M-key (22 x 42/80mm; NVME/SATA) x 1	SATA3.0 (6.0Gb/s) x 2, M.2 M-key (2280)
USB	USB 2.0 (2 x 5-pin, 2.00mm) x 1 port support additional 2 USB	USB 3.0 pin header x 1 (support additional USB3.2 Gen1 x 2ports)
显示 I/O	eDP x 1	—
音频 I/O	AAFP x 1	AAFP x 1, Speaker x 1
串口	Box header for COM (RS-232) x 1; RS-232/422/485 x 1	Box header for COM (RS-232/422/485) x 1, Box header for COM (RS-232) x 1
PS/2 端口	—	
并口	—	
DIO	Digital I/O box header x 1	
风扇	4-pin CPU Fan connector x 1, 4-pin Chassis Fan connector x 1	
电源	12V ATX Power Connector x 1	—
其他	Front Panel connector x 1, Chassis Intrusion x 1 Buzzer onboard x 1, CMOS jumper x 1 SATA Power connector x 1, SPI ROM programming header x 1 ATX/AT mode jumper x 1, eDP backlight power jumper x 1 eDP T-con IC power jumper x 1	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, CMOS jumper x 1
操作系统		
操作系统支持	Windows® 10 64-bit, Linux Ubuntu 18.04.2	Windows® 10 64-bit, Windows® 11 64bit
备注		

备注: 所有规格如有变更，恕不另行通知。



型号	MIX-Q670D1	EMB-Q170A
系统		
处理器	Intel® Alder lake-S Core™ Processors, 8+8;65W	6th/7th Generation Intel® Core™ i7/i5/i3, LGA1151 Socket Processor, Max. 65W TDPs
芯片组	Q670E	Intel® Q170
内存	SODIMM x 2, max. 64GB, Dual Channel DDR5 4800 MHz(Non-ECC)	DDR4 2133/1867 MHz SODIMM x 2, Up to 32GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture
I/O 芯片组	Intel® UHD Graphics	NCT6791D
以太网	Intel® GbE LAN 219LM x 1 Intel® GbE LAN 210AT x 1	Intel® PCIe Gb LAN 219LM x 1, Intel® PCIe Gb LAN i210AT x 1
音频	Realtek® ALC897 with Amp.	Realtek® ALC897
TPM	TPM2.0 IC on board	Infineon SLB96XX TT 1.2/2.0 (default: No)
扩展槽	M.2 B-key (3042/3052; PCIex1; USB3.2 Gen1/USB2.0) x 1 M.2 E-key (2232; PCIex1(Optional: dual PCIex1); USB2.0) x 1	PCIe3.0 [x16] x 1, M.2 M-key(22 x 80 mm) at bottom side x 1
BIOS	256Mbit Flash ROM, AMI BIOS	128M bit Flash ROM, AMI BIOS
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ System Fan	
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® UHD Graphics	Intel® HD Graphics
图形多显示端口	HDMIx2+DPx2, HDMIx2+DPx1+LVDSx1, HDMIx2+DPx1+eDPx1, HDMIx1+DPx2+LVDSx1, HDMIx1+DPx2+eDPx1	DP+DP, DP+VGA, DP+DP+VGA, DP+DP+DP
VGA	—	Up to 1920 x 1200 @60 Hz
DVI	—	
HDMI	Up to 4096 x 2160 @60 Hz(HDMI 2.0)	—
显示端口	Up to 4096 x 2160 @60 Hz(DP1.2)	Up to 4096 x 2160 @24 Hz / 3840 x 2160 @60 Hz, with Digital Audio
LVDS	Up to 1920 x 1080 @60Hz, Daul Channel 18/24 bit (via CH7513) co-layout eDP (default LVDS)	—
eDP	Up to 1920 x 1080 @ 60Hz	—
背光控制	PWM	—
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	DC 12V	ATX
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0%~90%RH, non-condensing	
认证	CE & FCC	
板型	Mini-ITX: 6.7” x 6.7” (170mm x 170mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	—	221,850
后面板 I/O 端口		
USB	USB 3.2 Gen2 x 4	USB 3.2 Gen 1 (5 Gbps) x 4, USB 2.0 x 2
显示 I/O	HDMI x 2, DP x 2	VGA x 1, DP x 3
音频 I/O	Line-out x 1	Mic-in x 1, Line-out x 1
LAN I/O	LAN (RJ-45) port x 2	
串口	—	
PS/2端口	—	PS/2 for KB/MS x 1
其他	—	
内置 I/O 连接器		
存储	SATA 6.0Gb/s x 2 with SATA power conn x 2(1A) M.2 M key(2280) x1, [PCIex4/NVMe]	SATA3.0 (6.0Gb/s) x 2, M.2 M-key (22 x 80 mm) at bottom side x 1
USB	USB2.0 x 4 ports using 2 x 5-pin headers x 2	USB 2.0 (2 x 5-pin, 2.00mm) x 2 ports support additional 4 USB.
显示 I/O	40-pin LVDs/eDP connector x 1 with Inverter	—
音频 I/O	HD Audio using AAFP header x 1, Internal Speaker (2W/4Ohm)x 1	Speaker x 1
串口	Box header for COM (RS-232/422/485) x 1, Box header for COM (RS-232) x 1	
PS/2端口	—	
并口	—	
DIO	Digital I/O box header x 1	
风扇	4-pin CPU Fan connector x 1, 4-pin System Fan connector x 1	
电源	—	ATX Power Connector x 2, AT/ATX mode select jumper (optional) x 1
其他	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, CMOS jumper x 1	
操作系统		
操作系统支持	Windows® 10 64-bit, Windows® 11 64bit	Windows® 7 32/64-bit, Windows® 8.1 32/64-bit, Windows® 10 64-bit, Ubuntu16.04.02/Kernel4.8.0

备注: 所有规格如有变更，恕不另行通知。


型号	EMB-Q170B	EMB-H110B
系统		
处理器	6th/7th Generation Intel® Core™ i7/i5/i3, LGA1151 Socket Processor, Max. 65W TDPs	
芯片组	Intel® Q170	Intel® H110
内存	DDR4 2133/1867 MHz SODIMM x 2, Up to 32GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture	
I/O 芯片组	NCT6791D	
以太网	Intel® PCIe Gb LAN 219LM for vPro x 1, Intel® PCIe Gb LAN 210AT x 1	Realtek® PCIe Gb LAN 8111H x 2
音频	Realtek® ALC897	
TPM	Infineon SLB96XX TT 1.2/2.0 (default: No)	
扩展槽	PCIe 3.0 [x4] x 1 M.2 M key (22 x 80 mm) at Bottom side x 1 M.2 E key (22 x 30 mm) at Top side x 1	PCIe2.0 [x1] x 1, Full-size Mini-Card (mSATA default) (PCIe+USB optional)x 1, Half-size Mini-Card (PCIe+USB) x 1
BIOS	128M bit Flash ROM, AMI BIOS	64 M bit Flash ROM, AMI BIOS
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on VCore™ 5V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ Chassis Fan	
网络唤醒/ PXE	Yes (WOL/PXE)	
电源状态	S3, S4, S5	
显卡		
显示芯片组	Intel® HD Graphics	—
图形多显示端口	2DP + LVDS, DP + eDP + LVDS, 2DP + eDP	HDMI1+HDMI2, HDMI1+DP2, DP1+HDMI2, HDMI1+LVDS, HDMI2+LVDS, HDMI1+eDP, HDMI2+eDP, DP1+DP2, DP1+LVDS, DP2+LVDS, DP1+eDP, DP2+eDP
VGA	—	
DVI	—	
HDMI	—	Up to 4096 x 2160 @24 Hz / 2560 x 1600 @60 Hz, with Digital Audio (HDMI/ DP Combo)
显示端口	Up to 4096 x 2160 @24 Hz / 3840 x 2160 @60 Hz, with Digital Audio	Up to 1920 x 1200 @60 Hz, with Digital Audio (HDMI/DP Combo)
LVDS	Up to 1920 x 1200 @60 Hz, dual-channel 18/24-bit	Up to 1920 x 1200 @60 Hz, dual-channel 18/24-bit colay
eDP	UP to 4096 x 2340 @60Hz	UP to 4096 x 2340 @60Hz
背光控制	Voltage/PWM Voltage/PWM	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	12VDC	
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~ 185°F (-40°C ~85°C)	
工作湿度	0% ~ 90% RH, non-condensing	
认证	CE & FCC	
板型	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)	
重量	1.1 lb (0.5 Kg)	
MTBF (小时)	292,450	315,210
后面板 I/O 端口		
USB	USB 3.2 Gen 1 x 4	
显示 I/O	DP x 2	DP/HDMI (BOM Change) x 2
音频 I/O	Mic-in x 1, Line-out x 1	
LAN I/O	LAN (RJ-45) port x 2	
串口	—	
PS/2 端口	—	
其他	DC Jack x 1	
内置 I/O 连接器		
存储	SATA3 (6.0Gb/s) x 4, SATA power connector x 1, M.2 M key (22 x 80mm) at Bottom side x 1, M.2 E key (22 x 30mm) at Top side x 1	SATA3 (6.0Gb/s) x 2, Full Size Mini-Card (mSATA) x 1, SATA power connector x 1
USB	USB 2.0 (2 x 5-pin, 2.00mm) x 3 ports support additional 6 USB.	USB 2.0 (2 x 5-pin, 2.00mm) x 2 ports support additional 4 USB.
显示 I/O	40-pin LVDS connector x 1, 40-pin eDP connector x 1, LVDS 3.3V /5V jumper x 1, LCD DC / PWM mode jumper x 1, LCD backlight connector (inverter) x 1, LCD backlight 12V /5V jumper x 1	40-pin LVDS connector x 1, 40-pin eDP connector x 1, LVDS 3.3V /5V jumper x 1, LCD DC / PWM mode jumper x 1, LCD backlight connector (inverter) x 1, LCD backlight 12V /5V jumper x 1
音频 I/O	AAFP x 1, Speaker x 1 (pin out refer to manual)	AAFP x 1, Speaker x 1
串口	Box header for COM (RS-232/422/485) x 1	Box header for COM (RS-232/422/485) x 1, Box header for COM (RS-232) x 1
PS/2 端口	—	
并口	—	
DIO	Digital I/O box header x 1	
风扇	4-pin CPU Fan connector x 1, 4-pin Chassis Fan connector x 1	
电源	12V AUX Power Connector x 1, AT/ATX mode select jumper (optional) x 1	
其他	Front Panel connector x 1, Chassis Intrusion x 1,Buzzer onboard (pin header) x 1, CMOS jumper x 1	
操作系统		
操作系统支持	Windows® 7 32/64-bit, Windows® 8.1 32/64-bit, Windows® 10 64-bit, Ubuntu16.04.02/Kernel4.8.0	

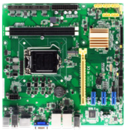
备注: 所有规格如有变更，恕不另行通知。

型号	MAX-Q470A	MAX-Q370A
系统		
处理器	Intel® 10th Generation (Comet Lake-S) Core™ i9 /i7/ i5 /i3, Pentium 14nm LGA 1200 socket Processor, Max. 10 Core 80W	8th/9th Generation Intel® (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium™ 14nm LGA 1151 socket processor, max. TDP 8 Core 95W
芯片组	Intel® Q470E Express Chipset	Intel® Q370 Express Chipset
内存	DIMM x 4, DDR4 (2933/2666/2400 MHz, max. 128GB) non-ECC, un-buffered memory Dual channel memory architecture	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 128GB) Non-ECC, un-buffered memory Dual-channel memory architecture
I/O 芯片组	IT5121E + F81216HD	NCT6793D+ F81216HD
以太网	Intel® PHY i219LM Giga LAN (supports Intel® AMT 12.0) x 1, Intel® i210AT Giga LAN x 1, , RJ45 x 2	
音频	Realtek® ALC897 6-Channel High Definition Audio CODEC	
TPM	Nuvoton NPCT750AADYX TPM2.0 onboard (optional; default: onboard)	Nuvoton NPCT750 TPM2.0 onboard
扩展槽	PCIe 3.0[x16] Slot (16 lanes) (8 lanes when dual use PCIe[x16]) x 1, PCIe 3.0[x16] (8 lanes) x 1, PCIe 3.0[x4] Slot x 1, PCIe 3.0[x4] Slot (2 lanes) x 1, M.2 2230 E-key (PCIe/CNVI) x 1, Micro SIM card Slot x 1 M.2 3042/3052/2242 B-key (PCIe/USB/SATA) x 1,	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot (open edge) x 2 PCIe 3.0[x1] Slot (open edge) x 1, M.2 2230 E-key (PCIe/USB) x 1 M.2 2280 M-key (PCIex4/SATA3) x 1
BIOS	256Mbit Flash ROM, AMI BIOS	
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ Chassis Fan x 2	
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® Graphics Media Accelerator	Intel® UHD Graphics
图形多显示端口	HDMI+HDMI+VGA, HDMI+HDMI+LVDS, HDMI+VGA+LVDS, HDMI+HDMI+HDMI	HDMI+VGA+DP, HDMI+HDMI+VGA, HDMI+HDMI+DP
VGA	Up to 1920 x 1200 @60Hz (via IT6516B)	
DVI	—	
HDMI	Up to 4096 x 2160 @ 60 / 30 Hz, with Digital Audio	Up to 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz, with Digital Audio
显示端口	—	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz, with Digital Audio
LVDS	Up to 1920 x 1200 @ 60 Hz, Dual Channel 18/24 bit	—
eDP	—	
背光控制	Yes	—
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	24-pin ATX connector x 1, 8-pin (2x4) ATX 12V Power connector x 1	
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0%~90%RH, non-condensing	
认证	CE & FCC Class A	
板型	Micro-ATX Form Factor, 9.6"x9.6" (244 mm x 244 mm)	
重量	1.76 lb (0.8 Kg)	
MTBF (小时)	259,360 Hrs	264,820
后面板 I/O 端口		
USB	USB 3.2 Gen2 ports (10 Gbps) x 2, USB 3.2 Gen1 ports (5 Gbps) x 4	USB 3.2 Gen 2 ports (10 Gbps) x 6, USB 3.2 Gen 1 ports (5 Gbps) x 4
显示 I/O	VGA x 1, HDMI x 3 (2.0 x 1, 1.4 x 2)	DP x 1, VGA x 1, HDMI x 2
音频 I/O	Audio Jack x 3: Line-in, Mic-in, Line-out	
LAN I/O	LAN (RJ45) ports x 2	
串口	DB-9 COM (supports RS-232/422/485, 5V/12V/RI) x 1	—
PS/2端口	—	PS/2 combo Port (Keyboard & Mouse) x 1
其他	BIOS recovery button	—
内置 I/O 连接器		
存储	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280/2242 M-key (PCIex4) x 1	SATA3 (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1
USB	USB3.2 Gen1 box header support additional 2 USB ports (2x5PIN, p=2.54mm) x 1, USB3.2 Gen1 Type A (vertical) connector x 1, USB 2.0 header support additional 2 USB ports (2x5PIN, p=2.54mm) x 1	USB 2.0 headers support additional 3 USB ports (2x5PIN, p=2.54mm)
显示 I/O	40-pin LVDS connector x 1	—
音频 I/O	speaker header (Line-out) x 1, AAFP x 1	—
串口	RS-232 headers x 3	RS-232 Box headers x 5 RS-232/422/485 Box header (COM1, Pin9 supports 5V/12V/RI optional) x 1
PS/2端口	—	
并口	—	
DIO	8-bit Digital I/O interface (In/Out programmable) x 1	
风扇	CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 2	CPU Fan connector (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 2
电源	24-pin EATX Power header x 1, 8-pin EATX 12V Power connector x 1	—
其他	Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1, 3-pin ME lock header x 1, Buzzer on board x 1	
操作系统		
操作系统支持	Windows® 10 64bit, Windows® 11 64bit, Linux Ubuntu 64bit (20.04.0/Kernel 5.4)	Windows® 10 64bit, Windows® 11 64bit, Linux Ubuntu 64bit (18.04.1/Kernal4.8.0)

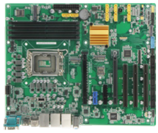

型号	MAX-Q370C	MAX-C246A
系统		
处理器	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9 / i7/ i5 /i3, Pentium 14nm LGA 1151 socket Processor, Max. 6 Core 95W	8th/9th Generation Intel® (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium™ 14nm, Celeron™, Xeon™ E-2200/2100, LGA 1151 socket Processor, max. TDP 8 Core 95W
芯片组	Intel® Q370 Express Chipset	Intel® C246 Express Chipset
内存	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 128GB) non-ECC, un-buffered memory Dual channel memory architecture	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 128GB) ECC, un-buffered memory Dual-channel memory architecture
I/O 芯片组	NCT6793D+ F81216HD	
以太网	Intel® PHY i219LM Giga LAN (supports Intel® AMT 12.0) x 1, Intel® i210AT Giga LAN x 1 , RJ45 x 2	
音频	Realtek® ALC897 6-Channel High Definition Audio CODEC	
TPM	Nuvoton NPCT750 TPM2.0 onboard	
扩展槽	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot (open edge) x 3 M.2 2280/2242 M-key (PCIe SSD (Ideal speed: 800MB/S)) x 1	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot x 2(open edge) PCIe 3.0[x1] Slot x 1(open edge) M.2 2230 E-key x 1(PCIe/USB), M.2 2280 M-key x 1(PCIex4/SATA3)
BIOS	256 Mbit Flash ROM x 1, AMI BIOS	
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ Chassis Fan x 2	
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
显示芯片组	Intel® Graphics Media Accelerator	Intel® UHD Graphics
图形多显示端口	HDMI+VGA+DP, HDMI+HDMI+VGA, HDMI+HDMI+DP	
VGA	Up to 1920 x 1200 @60Hz (via IT6516B)	
DVI	—	
HDMI	Up to 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz, with Digital Audio	
显示端口	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz, with Digital Audio	
LVDS	—	
eDP	—	
背光控制	—	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	24-pin ATX connector x 1, 8-pin (2x4) ATX 12V Power connector x 1	
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0%~90%RH, non-condensing	
认证	CE & FCC Class A	
板型	Micro-ATX Form Factor, 9.6"x9.6" (244 mm x 244 mm)	
重量	1.76 lb (0.8 Kg)	
MTBF (小时)	264,820	
后面板 I/O 端口		
USB	USB 3.2 Gen 1 ports (5 Gbps) x 6, USB 2.0 ports x 4	USB 3.2 Gen 2 ports (10 Gbps) x 6, USB 3.2 Gen 1 ports (5 Gbps) x 4
显示 I/O	DP x 1, VGA x 1, HDMI x 2	
音频 I/O	Audio Jack x 3: Line-in, Mic-in, Line-out	
LAN I/O	LAN (RJ45) ports x 2	
串口	—	
PS/2 端口	PS/2 combo Port (Keyboard & Mouse) x 1	
其他	—	
内置 I/O 连接器		
存储	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280/2242 M-key (PCIe SSD (Ideal speed: 800MB/S)) x 1	SATA3 (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1
USB	USB 3.2 Gen 1 box header x 1, support additional 2 ports (2x5PIN, p=2.54mm), USB 3.2 Gen 1 Type A (vertical) connector x 1	USB 2.0 headers support additional 3 USB ports (2x5PIN, p=2.54mm)
显示 I/O	—	
音频 I/O	AAFP x 1	Speaker for 2W@4Ω x 1
串口	RS-232 headers x 5 RS-232/422/485 (COM1, supports 5V/12V/RI optional) x 1	RS-232 Box headers x 5 RS-232/422/485 Box header (COM1, Pin9 supports 5V/12V/RI optional) x 1
PS/2 端口	—	
并口	—	
DIO	8-bit Digital I/O interface (In/Out programmable) x 1	
风扇	CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 2	
电源	—	
其他	Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1 Clear CMOS jumper x 1, 3-pin ME lock header x 1, Buzzer on-board x1	
操作系统		
操作系统支持	Windows® 10 64bit, Windows® 11 64bit, Linux Ubuntu 64bit (18.04.1/Kernal4.8.0)	

备注: 所有规格如有变更，恕不另行通知。

板卡产品线
工业主板

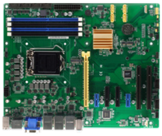


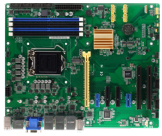
型号	MAX-H310A	IMBM-Q170A
系统		
处理器	8th/9th Generation Intel® (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm LGA 1151 socket Processor	7th/6th Generation Intel® Core™ i7/i5/i3/Pentium®/ Celeron® 14nm LGA1151 Socket Processor
芯片组	Intel® H310 Express Chipset	Intel® Q170 Express Chipset
内存	DIMM x 2, DDR4 (2666/2400/2133 MHz, max. 64GB) non-ECC, un-buffered memory Dual-channel memory architecture	288-pin DIMM x 4, max. 64GB, DDR4 2133/1867 MHz, non-ECC, un-buffered memory, dual-channel memory architecture
I/O 芯片组	NCT6793D+ F81216HD	NCT6791D, F81216HD
以太网	Intel® PHY i219V Gb LAN x 1, Intel® i210AT Gb LAN x 1 RJ45 x 2	LAN 1: Intel® PHY i219LM Gb LAN (supports iAMT 11.0) x 1 LAN 2: Intel® i210AT Gb LAN x 1 ,RJ-45 x 2
音频	Realtek® ALC897 6-Channel High Definition Audio CODEC	
TPM	Nuvoton NPCT750 TPM2.0 onboard	Nuvoton NPCT750 TPM2.0 onboard (optional; default: not onboard)
扩展槽	PCIe 3.0[x16] Slot x 1, PCIe 2.0[x1] Slot (open edge) x 3, M.2 2280 M-key (BOM option: PCIe or SATA; default: SATA) x 1	PCIe 3.0/2.0[x16] Slot x 1, PCIe 3.0/2.0[x4] Slot (open edge) x 1, PCIe 3.0/2.0[x1] Slot (open edge) x 1, PCI x 1
BIOS	128Mbit Flash ROM, AMI BIOS	
硬件监控	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan x 1, Chassis Fan x 2	CPU Fan/ Chassis Fan x 2
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® UHD Graphics	Intel® HD Graphics
图形多显示端口	VGA+DP; VGA+HDMI; DP+HDMI	DVI-I+HDMI, HDMI+HDMI
VGA	Up to 1920 x 1200 @60Hz (via IT6516B)	Up to 1920 x 1200 @60Hz
DVI	—	Up to 1920 x 1200 @60Hz
HDMI	Up to 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz, with Digital Audio	HDMI 1.4 up to 4096 x 2304 @30Hz
显示端口	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz, with Digital Audio	—
LVDS	—	
eDP	—	
背光控制	—	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	24-pin ATX connector x 1, 8-pin (2x4) ATX 12V Power connector x 1	24-pin ATX connector x 1, 8-pin ATX 12V Power connector x 1
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0%~90%RH, non-condensing	
认证	CE & FCC Class A	
板型	Micro-ATX Form Factor, 9.6"x9.6" (244 mm x 244 mm)	
重量	1.76 lb (0.8 Kg)	
MTBF (小时)	261,090	193,470
后面板 I/O 端口		
USB	USB 3.2 Gen 1 ports (5 Gbps) x 4, USB 2.0 ports x 4	USB 3.2 Gen 1 port x 10
显示 I/O	DP x 1, VGA x 1, HDMI x 1	DVI-I x 1, HDMI x 2
音频 I/O	Audio Jack x 3: Line-in, Mic-in, Line-out	
LAN I/O	LAN (RJ45) ports x 2	
串口	—	RS-232/422/485 DB-9 connector x 1 (COM1, supports 5/12V on RI pin)
PS/2端口	PS/2 stack Port (Keyboard & Mouse) x 1	PS/2 Combo Port (Keyboard & Mouse) x 1
其他	—	
内置 I/O 连接器		
存储	SATA III (6.0Gb/s) ports x 3; BOM option: can support additional 2 SATA M.2 2280 M-key (BOM option: PCIex1 or SATA; default: SATA) x 1	SATA3 (6.0Gb/s) port x 6, supports RAID 0/1/5/10
USB	USB 2.0 header support additional 2 USB ports (2x5PIN, p=2.54mm) x 1	USB 2.0 header supports additional 2 USB ports x 2
显示 I/O	—	
音频 I/O	AAFP x 1	Speaker header x 1 (Line-out)
串口	RS-232Box headers x 5 RS-232/422/485Box header (COM1, Pin9 supports 5V/12V/RI optional) x 1	RS-232 header x 5
PS/2端口	—	
并口	—	
DIO	8-bit Digital I/O interface x 1 (In/Out programmable)	
风扇	CPU Fan connector (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 2	
电源	—	
其他	Chassis intrusion x 1, AT/ATX mode select jumper x 1 Front panel header x 1, Clear CMOS jumper x 1 LPC box header x 1, 3-pin ME lock header x 1, Buzzer on-board x 1	Front panel header x 1, Clear CMOS jumper x 1, BIOS flash header (2[x4]P p=1.27mm) x 1, Chassis Intrusion x 1
操作系统		
操作系统支持	Windows® 10 64bit, Windows® 11 64bit, Linux Ubuntu 64bit (18.04.1/Kernal4.8.0)	Windows® 7 32/64-bit, Windows® 8.1 64-bit, Windows® 10 64-bit, ,Linux Fedora 64bit



型号	IMBM-H110A	ATX-Q670A
系统		
处理器	7th/6th Generation Intel® Core™ i7/i5/i3/Pentium®/ Celeron® 14nm LGA1151 Socket Processor	Intel® Alder Lake-S, LGA 1700 socket, Processor Max. 125W TDPs
芯片组	Intel® H110	Intel® Q670 Express Chipset
内存	288-pin DIMM x 2, max. 32GB, DDR4 2400/2133/1867, dual-channel	DIMM x4, DDR5 (4000MHz x 4, Up to 128GB) Non-ECC, Un-buffered Memory, Dual-Channel Memory Architecture
I/O 芯片组	NCT6791D, F81216HD	NCT6126D
以太网	Intel® i210AT Gb LAN x 2	Intel® PHY i219LM Giga LAN x 1 (supports Intel® AMT 12.0) Intel® i210AT Giga LAN x 1, Intel® i225LM Giga LAN x 1 (Optional) RJ45 x 2 (Option: RJ45 x 3, LAN3 with USB3.2 Gen2 x 1)
音频	Realtek® ALC897 6-Channel High Definition Audio CODEC	
TPM	Nuvoton NPCT650 TPM2.0 (default : No)	TPM 2.0 onboard
扩展槽	PCIe [x16] x 1, PCIe [x1] (open edge) x 2, PCI x 1, M.2 M key (22 x 42mm) x 1	PCIe [x16] Slot (16 lanes, Gen5) x 1,PCIe [x1] Slot (open Slot) (1 lane, Gen3) x 1 PCIe [x4] Slot (open Slot) (4 lanes, Gen4) x 1, PCIe [x16] Slot (4 lanes, Gen4) x 1 PCI Slot x 3, M.2 3042/3052 B Key (PCIe 3.0 x1 / USB3.2 Gen1) x 1, Mini PCIe Slot (PCIe 3.0 / USB2.0) x 1, Micro SIM Card Slot x1 (either with M.2 B-Key or Mini PCIe Slot)
BIOS	128M bit Flash ROM x 1, AMI BIOS	256Mbit Flash ROM, AMI BIOS
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V/ 3VSB/VBAT, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan x 1, Chassis Fan x 2	CPU Fan x1/ Chassis Fan x3
网络唤醒/ PXE	Yes (WOL/PXE)	
电源状态	S3, S4, S5	
显卡		
显示芯片组	Intel® HD Graphics	Intel® Graphics Media Accelerator
图形多显示端口	DVI-D+HDMI, HDMI+HDMI, VGA+HDMI, DVI-D+VGA	HDMI+HDMI+DP+DP, HDMI+HDMI+DP+VGA, HDMI+VGA+DP+DP
VGA	Up to 1920 x 1200 @60Hz	Up to 1920 x 1200 @60Hz (via IT6516B)
DVI	Up to 1920 x 1200 @60Hz	—
HDMI	HDMI 1.4 up to 4096 x 2304 @24Hz	Up to 4096 x 2160 @ 60 / 30 Hz, with digital audio (HDMI2.0)
显示端口	—	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz, with Digital Audio
LVDS	—	
eDP	—	
背光控制	—	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	24-pin ATX connector x 1, 8-pin ATX 12V Power connector x 1	
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	0% ~ 90% RH, non-condensing	
认证	CE & FCC Class A	
板型	Micro-ATX, 9.6" x 9.6" (244mm x 244mm)	ATX Form Factor, 12" x 9.6" (305mm x 244mm)
重量	1.76 lb (0.8 Kg)	
MTBF (小时)	245,250	—
后面板 I/O 端口		
USB	USB 3.2 Gen 1 x 4	USB 3.2 Gen2 (10Gbps) x 2 (Option: x3units if with LAN3 i225LM), USB 3.2 Gen1 (5Gbps) x 2, Type C (5Gbps, 5V, 1.5A) x 1 (Optional), (All ports are bootable, can be deactivated per BIOS function; USB Power switchable feature)
显示 I/O	HDMI x 2, VGA x 1, DVI-D x 1	HDMI2.0 x 2, DP1.4 x 2
音频 I/O	Line-in, Mic-in, Line-out	3 x Audio Jack: Line-in, Mic-in, Line-out
LAN I/O	RJ-45 x 2	LAN (RJ-45) port x 2 (Option: RJ45 x 3)
串口	DB-9 COM x 1 (supports RS-232/422/485)	DB-9 COM (supports RS-232/422/485, 5V/12V/RI) x 1
PS/2 端口	Stack Port (Keyboard & Mouse) x 1	—
其他	—	
内置 I/O 连接器		
存储	SATA 6.0Gb/s x 5, M.2 M key (22 x 42mm) x 1	SATA III ports x 8, support RAID 0/1/5/10, M.2 2280 M key (PCIe 4 lanes, Gen4.0) x 1, M.2 2242/80 M key (PCIe 1 lane, Gen3.0) x 1
USB	USB 2.0 x 6	USB 3.0 Box Header x 1 (2x5PIN, p=2.54mm) support 2 USB3.2 Gen1 ports (USB Power switchable feature), USB 2.0 Header x 1 (2x5PIN, p=2.54mm) support 2 USB2.0 ports (USB Power switchable feature), USB 2.0 Vertical type A connector x1
显示 I/O	—	VGA Header x 1
音频 I/O	—	Speaker header(Line-out), AAFP x 1
串口	RS-232 header x 5	
PS/2 端口	—	
并口	—	
DIO	8-bit x 1 (In/Out programmable)	8-bit Digital I/O interface (In/Out programmable) x 1
风扇	4-pin CPU Fan x 1, 4-pin Chassis Fan x 2	4-pin CPU Fan connector(PWM mode) x 1 4-pin Chassis Fan connector(PWM mode) x 3
电源	—	
其他	Front panel header x 1, Clear CMOS jumper x 1, BIOS flash header (2[x4]P p=1.27mm) x 1, Chassis Intrusion x 1, AT/ATX mode select jumper x 1	Chassis Intrusion x1, AT/ATX mode select jumper x1, Front panel header x 1 Clear CMOS jumper x 1, Buzzer onboard x 1, 3-pin ME lock header x 1
操作系统		
操作系统支持	Windows® 7 32/64-bit (not supported when a Kaby Lake processor is used), Windows® 8.1 64-bit (not supported when a Kaby Lake processor is used), Windows® 10 64-bit, ,Linux Fedora 64bit	Windows® 10 64-bit, Windows® 11 64-bit

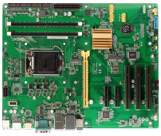
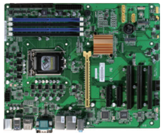
备注: 所有规格如有变更，恕不另行通知。



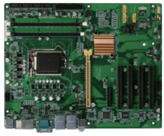


型号	ATX-Q370A	ATX-C246A
系统		
处理器	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm LGA 1151 socket Processor, max. TDP 8 Core 95W	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm, Celeron™, Xeon E-2200/2100, LGA 1151 socket Processor, max. TDP 8 Core 95W
芯片组	Intel® Q370 Express Chipset	Intel® C246 Express Chipset
内存	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 128GB) Non-ECC, un-buffered memory Dual channel memory architecture	
I/O 芯片组	NCT6793D + F81216HD	
以太网	Intel® PHY i219LM Giga LAN x 1 (supports Intel® AMT 12.0) Intel® i210AT Giga LAN x 1 (BOM option: i210AT x 2) RJ45 x 2 (BOM option: RJ45 x 3)	
音频	Realtek® ALC897 6-Channel High Definition Audio CODEC	
TPM	Nuvoton NPCT750 TPM2.0 onboard	
扩展槽	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot (open edge) x 2, PCIe 3.0[x1] Slot (open edge) x 2, PCI x 2, M.2 2230 E-key (PCIex1/USB2.0/CNVi) x 1, M.2 2280 M-key (PCIex4/SATA3) x 1	
BIOS	256Mbit Flash ROM x 1, AMI BIOS	
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ Chassis Fan x 2	
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® Graphics Media Accelerator	
图形多显示端口	HDMI+VGA+DP (BOM option: USB 3.2 Gen 2-10Gbps Type-C connector (Alternate Mode: USB+DP) x 1)	
VGA	Up to 1920 x 1200 @60Hz (via IT6516B)	
DVI	—	
HDMI	Up to 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz, with Digital Audio	
显示端口	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz, with Digital Audio	
LVDS	—	
eDP	—	
背光控制	—	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	24-pin ATX connector x 1, 8-pin (2x4) ATX 12V Power connector x 1	
工作温度	32°F ~140°F (0°C ~ 60°C)	
存储温度	-40°F ~185°F (-40°C ~85°C)	
工作湿度	0%~90%RH, non-condensing	
认证	CE & FCC Class A	
板型	ATX Form Factor, 12"x9.6" (305mm x 244mm)	
重量	1.76 lb (0.8 Kg)	
MTBF (小时)	281,410	
后面板 I/O 端口		
USB	USB 3.2 Gen 2 ports (10 Gbps) x 4, USB 3.2 Gen 1 ports (5 Gbps) x 2, USB 2.0 ports x 4	
显示 I/O	HDMI x 1, VGA x 1, DP x 1, USB Type-C x 1 (optional)	
音频 I/O	Audio Jack x 3: Line-in, Mic-in, Line-out	
LAN I/O	LAN (RJ45) ports x 2 (BOM option: RJ45 x 3)	
串口	—	
PS/2端口	—	
其他	—	
内置 I/O 连接器		
存储	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1	
USB	USB 2.0 headers x 1 support additional 2 USB ports (2x5PIN, p=2.54mm)	
显示 I/O	—	
音频 I/O	—	
串口	5 x RS-232 headers 1 x RS-232/422/485 (COM1, supports 5V/12V/RI optional)	
PS/2端口	—	
并口	—	
DIO	8-bit Digital I/O interface (In/Out programmable) x 1	
风扇	CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2	
电源	—	
其他	Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1, 3-pin ME lock header x 1, Buzzer on-board x1	
操作系统		
操作系统支持	Windows® 10 64bit, Windows® 11 64bit, Linux Ubuntu 64bit (18.04.1/Kernal4.8.0)	Windows® 10 64bit, Windows® 11 64bit, Linux Ubuntu 64bit (18.04.1/Kernal4.8.0)

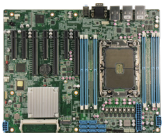
备注: 所有规格如有变更，恕不另行通知。

型号	ATX-H310A	IMBA-Q170A
系统		
处理器	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm LGA 1151 socket Processor, Max. 6 Core 95W	Intel® 7th/ 6th Generation(Kaby Lake-S/ Skylake-S) Core™ i7/i5/i3/ Pentium®/ Celeron® 14nm LGA1151 Socket Processor
芯片组	Intel® H310 Express Chipset	Intel® Q170
内存	DIMM x 2, DDR4 (2666/2400/2133 MHz, max. 64GB) non-ECC, un-buffered memory, Dual channel memory architecture	288-pin DIMM x 4, max. 64GB, DDR4 2400/2133/1867, dual-channel
I/O 芯片组	NCT6793D+ F81216HD	NCT6791D, F81216HD
以太网	Intel® PHY i219V Giga LAN x 1, Intel® i210AT Giga LAN x 1 RJ45 x 2	LAN1: Intel® PHY I219LM Gb LAN (supports iAMT 11.0), LAN2: Intel® I210AT Gb LAN
音频	Realtek® ALC897 6-Channel High Definition Audio CODEC	
TPM	Nuvoton NPCT750 TPM2.0 onboard (optional, default: on-board)	Nuvoton NPCT750AADYX TPM2.0 onboard (optional; default: onboard)
扩展槽	PCIe 3.0[x16] Slot x 1, PCIe 2.0[x4] Slot (open edge) x 2 (#1: 1Lane #2: Default: 2Lanes, only support 1Lane when Mini PCIe slot is installed.), PCI x 3, M.2 2280/2242 M-key (PCIex1/SATA3) x 1, Mini PCIe + Micro SIM card Slot (optional, default: N/A)	SKU1: PCIe [x16] x 1, PCIe [x4] (open edge) x 2, PCI x 3, M.2 E key (22 x 30mm) x 1, M.2 M key (22 x 80mm, for SATA) x 1 SKU2: PCIe [x16] x 1, PCIe [x4] (open edge) x 1, PCI x 3, M.2 E key x 1, M.2 M key (for SATA & PCIex4) x 1
BIOS	128Mbit Flash ROM x 1, AMI BIOS	
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	
看门狗定时器	1~255 steps by software program	
智能风扇控制	CPU Fan/ Chassis Fan x 2	CPU Fan x1, Chassis Fan x 2
网络唤醒/ PXE	Yes (WOL / PXE)	
电源状态	S3, S4, S5	
显卡		
图形芯片组	Intel® Graphics Media Accelerator	Intel® HD Graphics
图形多显示端口	HDMI+VGA, HDMI+DP, VGA+DP	VGA+HDMI, HDMI+HDMI, VGA+HDMI+HDMI
VGA	Up to 1920 x 1200 @60Hz (via IT6516B)	Up to 1920 x 1200 @60Hz
DVI	—	—
HDMI	Up to 4096 x 2160 @ 30 Hz	HDMI 1.4 up to 4096 x 2304 @24Hz
显示端口	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz, with Digital Audio	—
LVDS	—	
eDP	—	
背光控制	—	
环境 & 电源 & 机构		
电池	Lithium battery	
电源要求	24-pin ATX connector x 1, 8-pin (2x4) ATX 12V Power connector x 1	24-pin ATX connector x 1, 8-pin ATX 12V Power connector x 1
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40°F ~ 185°F (-40°C ~85°C)	
工作湿度	0% ~ 90%RH, non-condensing	
认证	CE & FCC Class A	
板型	ATX Form Factor, 12" x 9.6" (305mm x 244mm)	
重量	1.76 lb (0.8 Kg)	
MTBF (小时)	285,600	219,970
后面板 I/O 端口		
USB	USB 3.2 Gen 1 ports x 2, USB 2.0 ports x 4	USB 3.2 Gen 1 x 10
显示 I/O	HDMI x 1, VGA x 1, DP x 1	HDMI x 2, VGA x 1
音频 I/O	Audio Jack x 3: Line-in, Mic-in, Line-out	Line-in, Mic-in, Line-out
LAN I/O	LAN (RJ45) ports x 2	RJ-45 x 2
串口	DB-9 COM x 1 (supports RS-232/422/485, 5V/12V/RI)	
PS/2端口	—	Stack Port (Keyboard & Mouse) x 1
其他	—	
内置 I/O 连接器		
存储	SATA III (6.0Gb/s) ports x 3 M.2 2280/2242 M-key (PCIex1/SATA3) x 1	Supports RAID 0/1/5/10, SKU1: SATA 6.0Gb/s x 3, M.2 M key (SATA) x 1 SKU2: SATA 6.0Gb/s x 4, M.2 M key (PCIex4) x 1
USB	USB 3.2 Gen 1 headers support additional 2 USB ports (2x5PIN, p=2.54mm) x 1, USB 2.0 Type A (vertical) x 1	USB 2.0 x 3
显示 I/O	—	
音频 I/O	AAFP x 1	Speaker header x 1 (Line-out)
串口	RS-232 header x 5	
PS/2端口	—	
并口	—	
DIO	8-bit Digital I/O interface (In/Out programmable) x 1	8-bit DIO x 1 (In/Out programmable)
风扇	CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 2	4-pin CPU Fan x 1, 4-pin Chassis Fan x 2
电源	—	
其他	Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1, 3-pin ME lock header x 1, Buzzer on-board x 1	Front panel header x 1, Clear CMOS jumper x 1, BIOS flash header (2[x4]P p=1.27mm) x 1, Chassis Intrusion x 1, AT/ATX mode select jumper x 1
操作系统		
操作系统支持	Windows® 10 64bit, Windows® 11 64bit, Linux Ubuntu 64 bit (18.04.3/ Kernal5)	Windows® 7 32/64-bit (not supported when a Kaby Lake processor is used), Windows® 8.1 64-bit (not supported when a Kaby Lake processor is used), Windows® 10 64-bit, ,Linux Fedora 64bit



型号	IMBA-H110A
系统	
处理器	7th/6th Generation Intel® Core™ i7/i5/i3/Pentium®/ Celeron® 14nm LGA1151 Socket Processor
芯片组	Intel® H110
内存	288-pin DIMM x 2, max. 32GB, DDR4 2400/2133/1867, dual-channel
I/O 芯片组	NCT6791D, F81216HD
以太网	LAN1: Intel® PHY I219V Gb LAN, LAN2: Intel® i210AT Gb LAN
音频	Realtek® ALC897
TPM	Nuvoton NPCT750 TPM2.0
扩展槽	PCIe [x16] x 1, PCIe [x4] (open edge) x 1, PCI x 4, M.2 M key (22 x 80mm) x 1
BIOS	128M bit Flash ROM x 1, AMI BIOS
硬件监控	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis
看门狗定时器	1~255 steps by software program
智能风扇控制	CPU Fan x 1, Chassis Fan x 2
网络唤醒/ PXE	Yes (WOL/PXE)
电源状态	S3, S4, S5
显卡	
图形芯片组	Intel® HD Graphics
图形多显示端口	VGA+HDMI, VGA+DP, HDMI+DP
VGA	Up to 1920 x 1200 @60Hz
DVI	—
HDMI	HDMI 1.4 up to 4096 x 2304 @24 Hz
显示端口	DP 1.2, up to 4096 x 2304 @60 Hz
LVDS	—
eDP	—
背光控制	—
环境 & 电源 & 机构	
电池	Lithium battery
电源要求	24-pin ATX connector x 1, 8-pin ATX 12V Power connector x 1
工作温度	32°F ~ 140°F (0°C ~ 60°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)
工作湿度	0% ~ 90% RH, non-condensing
认证	CE & FCC Class A
板型	ATX, 12" x 9.6" (305 mm x 244 mm)
重量	1.76 lb (0.8 Kg)
MTBF (小时)	244,580
后面板 I/O 端口	
USB	USB 3.2 Gen 1 x 4, USB 2.0 x 2
显示 I/O	HDMI x 1, DP x 1, VGA x 1
音频 I/O	Line-in, Mic-in, Line-out
LAN I/O	RJ-45 x 2
串口	DB-9 COM x 1 (supports RS-232/422/485)
PS/2端口	Stack Port (Keyboard & Mouse) x 1
其他	—
内置 I/O 连接器	
存储	SATA 6.0Gb/s x 3, M.2 M key (22 x 80mm) x 1
USB	USB 2.0 x 4
显示 I/O	—
音频 I/O	Speaker header x 1 (Line-out)
串口	RS-232 header x 5
PS/2端口	—
并口	—
DIO	8-bit x 1 (In/Out programmable)
风扇	4-pin CPU Fan x 1, 4-pin Chassis Fan x 2
电源	—
其他	Front panel header x 1, Clear CMOS jumper x 1, BIOS flash header (2[x4]P p=1.27mm) x 1, Chassis Intrusion x 1, AT/ATX mode select jumper x 1
操作系统	
操作系统支持	Windows® 7 32/64-bit (not supported when a Kaby Lake processor is used), Windows® 8.1 64-bit (not supported when a Kaby Lake processor is used), Windows® 10 64-bit, ,Linux Fedora 64bit
备注	



第一季度推出

型号	ARES-WHI0	ARES-EAG0
系统		
板型	ATX Sever Board Whitely Platform	EATX Sever Board Whitely Platform
处理器	Single Intel® Xeon® Processor Ice Lake-SP processor, supports up to 270W	Dual Intel® Xeon® Processor Sapphire Rapid-SP processor, supports up to 350W
系统内存	DDR4 2666MHz R-DIMM Slot x 6, supports up to 192GB (32GB per DIMM)	DDR5 4800 MHz R-DIMM Slot x 12
芯片组	Intel®C621A	Intel® Emmitsburg PCH
以太网	Intel® i210 Gigabit Ethernet x 2	Intel® i226LM LAN controller x 1, Intel® X550-AT2 x 1
COM	RS-232 x 1	Pin header x 1
BIOS	AMI BIOS	
SATA	SATA III port x 8	SATA III port x 2, miniSAS x 1 (up to 4x SATA)
音频和视频	1	VGA x 1, Audio In Out (Optional)
扩展接口	PCIE 1: 1 x PCIe x16 (Gen4 x16) slot PCIE 2: 1 x PCIe x8 (Gen3 x4) slot PCIE 3: 1 x PCIe x16 (Gen4 x16) slot PCIE 4: 1 x PCIe x8 (Gen4 x4) slot PCIE 5: 1 x PCIe x16 (Gen4 x16) slot PCIE 6: 1 x PCIe x8 (Gen3 x4) slot PCIE 7: 1 x PCIe x8 (Gen4 x8) slot	PCIE 1: 1 x PCIe Gen. 5 [x16] slot PCIE 2: 1 x PCIe Gen. 5 [x16] slot PCIE 3: 1 x PCIe Gen. 5 [x16] slot PCIE 4: 1 x PCIe Gen. 5 [x16] slot PCIE 5: 1 x PCIe Gen. 5 [x16] slot PCIE 6: 1 x PCIe Gen. 5 [x16] slot
看门狗定时器	1~255 steps by software programming	
RTC	Internal RTC	
系统风扇	4-pin fan headers x 5(up to 5 fans)	
前面板 I/O	—	
后面板 I/O	USB 3.0 x 6, 1Gb RJ45 LAN x 2, AUDIO in and out x 1, VGA x 1	USB 3.2 Gen.1 x 4, 2.5Gb RJ45 LAN x 1, 10Gb RJ45 LAN x 2, VGA x 1, COM x 1
颜色	—	
电源支持	ATX	
尺寸	12.0” x 9.6” (305mm × 244 mm)	305 × 330 mm
功耗	269W (Based on Intel® Xeon® Platinum 8352S)	TBD
MTBF (小时)	292,321	TBD
显示		
芯片组	SM750	AST2510
图形引擎	—	
分辨率	1920x1080 (WIN Server 2019); 800x600 (CentOS 7.3)	TBD
连接器	VGA	
I/O		
串口	COM x 1 Pin	
键盘和鼠标	—	
USB	USB 3.0 x 6	USB 3.2 Gen. 1 x 4
环境		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10%~80% relative humidity, non-condensing	
存储湿度	10%~80% @40°C; non-condensing	
抗振动	0.5 g rms/ 5 ~ 500Hz / operation (2.5” Hard Disk Drive) 1.5 g rms/ 5 ~ 500Hz / non operation	
防冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
备注		

工业服务器系统

型号	ZEUS-PUR0	ZEUS-WHI0
系统		
板型	4U Rackmount Server System	
处理器	Intel® Xeon® Skylake-SP and Cascade Lake-SP Processors	Single Intel® Xeon® Processor Ice Lake-SP processor, supports up to 205W
系统内存	DDR4 2133/2400/2666 R-DIMM, Up to 512 GB	DDR4 2666MHz R-DIMM Slot x 6, supports up to 192GB (32GB per DIMM)
芯片组	Intel® C621	Intel®C621A
以太网	Intel® i211 Gigabit Ethernet x 2	Intel® i210 Gigabit Ethernet x 2
BIOS	AMI BIOS	
SATA	SATA II port x 6	SATA III port x 8
存储	2.5" HDD x 6 or 3.5" HDD x 6, M.2 x 1	2.5" HDD x 8 or 3.5" HDD x 8, M.2 2280 M key socket x 1
扩展接口	NIM slot x 4 (Project Base NIM Slot x 8) Option front PCIe [x16] slots x 2 Option rear side PCIe [x4] x 4 (or PCIe [x8] x 2) + PCIe [x8] x 2 (Or PCIe [x16] x 1) M.2 Slot x 1 Mini PCIe x 1	PCIE 1: 1 x PCIe x16 (Gen4 x16) slot PCIE 2: 1 x PCIe x8 (Gen3 x4) slot PCIE 3: 1 x PCIe x16 (Gen4 x16) slot PCIE 4: 1 x PCIe x8 (Gen4 x4) slot PCIE 5: 1 x PCIe x16 (Gen4 x16) slot PCIE 6: 1 x PCIe x8 (Gen3 x4) slot PCIE 7: 1 x PCIe x8 (Gen4 x8) slot
看门狗定时器	1~255 steps by software programmable	
RTC	Internal RTC	
系统风扇	5	3 x middle fans default; 2 x rear fans, optional
前面板 I/O	Power LED x 1, Status LED x 1, HDD Active LED x 1	Power LED x 1, HDD Active LED x 1
后面板 I/O	AC Power Input x 1, Power Switch x 1, VGA port (Optional), Rear Expansion Slot (Option)	AC Power Input x 1, Power Switch button x 1, USB 3.0 x 6, 1Gb RJ45 LAN x 2, AUDIO in and out x 1, VGA x 1, Rear Expansion Slots x7
颜色	Black	
电源支持	800 ~1600W Redundant PSU	800 mini redundant PSU; 1600W CRPS PSU, optional
尺寸	(480mm x 600mm x 176mm)	597.2(D) x 430(W) x 174.8(H)mm
功耗	TBD	—
MTBF (小时)	TBD	—
显示		
芯片组	AST2500	SM750
图形引擎	From IPMI or Mini PCIE Option	—
分辨率	—	1920x1080 (WIN Server 2019); 800x600 (CentOS 7.3)
连接器	VGA Option	VGA
I/O		
串口	RJ-45 Console x 1	COM x 1
键盘和鼠标	—	
USB	USB 3.0 x 2	USB 3.0 x 6
环境		
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10% ~ 80% relative humidity, non-condensing	
存储湿度	10% ~ 80% @40°C; non-condensing	
抗振动	0.5 g rms/ 5 ~ 500Hz / operation (2.5" Hard Disk Drive) 1.5 g rms/ 5 ~ 500Hz / non operation	0.5 g rms/ 5 ~ 500Hz / operation (3.5" Hard Disk Drive) 1.5 g rms/ 5 ~ 500Hz / non operation
防冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
备注		

备注: 所有规格如有变更，恕不另行通知。

专注 · 灵活 · 竞争力

02

系统产品线

02

型号	BOXER-8221AI	BOXER-8222AI
系统		
AI 加速器	NVIDIA® Jetson Nano™	
CPU	Quad Core Arm® Cortex®-A57 MPCore Proccessor	
系统内存	4GB LPDDR4	
存储设备	32GB Micro-SD (A version) or 16GB eMMC (B version)	32 GB MicroSD Card (Version A) 16 GB eMMC (Version B) Mini-Card (Full Size) x 1 (PCIE+SATA+USB)
显示接口	HDMI 2.0	HDMI 2.0 x 1
以太网	10/100/1000Base-TX x 1	10/100/1000Base-TX x 2
I/O	USB 3.2 Gen 1 x 4 LAN x 1 RS-232 x 2 HDMI x 1 MicroSD x 1 DC Power Input x 1 Recovery Button x 1 Micro-USB for Flash OS x 1	USB 3.2 Gen 1 x 4 LAN x 1 PD x1 (Powered Device) 40-pin I/O x 1 (GPIO/I2S/I2C/Audio/SPI/UART) RS-232 x 1 HDMI x 1 Mico-USB x 1 for Flash OS DC Power Input x 1 Recovery Button x 1 Micro-USB for Flash OS x 1
扩展	M.2 E-Key 2230 x 1(for WiFi)	Antenna x 2 M.2 2230 E Key x 1 (for Wi-Fi)
指示灯	Power LED x 1	Power LED x 1
操作系统支持	Linux (AAEON ACLinux 4.9), Linux (NVIDIA Jetpack 4.5)	
供电方式		
电源模式	12Vdc w/ 2-pin terminal block	DC 12V~24V 2-pin terminal
机构		
安装方式	Wallmount	
尺寸 (W x D x H)	3.39" x 2.87" x 1.3" (88mm x 75mm x 39mm)	6.92" x 3.94" x 1.54" (175.8 mm x 100.0 mm x 39.0 mm)
总重量	1.10 lb (0.5 Kg)	2.31 lbs (1.05 kg)
净重	0.66 lb (0.3 Kg)	1.28 lbs (0.58 kg)
环境		
工作温度	-4°F ~ 122°F (-20°C ~ 50°C, according to IEC60068-2 with 0.5 m/s AirFlow)	
存储温度	-49°F ~176°F (-45°C ~ 80°C)	
存储湿度	95% @ 40°C, non-condensing	
抗振动	3 Grms/ 5 ~ 500Hz/ operation – MicroSD or eMMC	Random, 3.5Grm, 5~500Hz
防冲击	—	
认证	CE/FCC class A	
备注	TAIWAN EXCELLENCE 2021	

第一季度推出

型号	BOXER-8223AI	BOXER-8224AI
系统		
AI 加速器	NVIDIA® Jetson Nano	
CPU	Quad Core ARM® Cortex®-A57 MPCore Proccessor	ARM® Cortex® -A57 Quad-Core Processor
系统内存	4GB LPDDR4	4GB 64-Bit LPDDR4x 25.6GB/s
存储设备	16GB eMMC + Micro SD card slot 2.5” SATA drive bay x 1	16GB eMMC 5.1 x 1 MicroSD slot x 1
显示接口	HDMI Type A 2.0 *1 (Output) HDMI Type A 1.4 *1 (Input)	Wafer connector for HDMI 2.0 x 1
以太网	POE PSE LAN x2 (802.3at)	Pin header for 10/100/1000 Base-T LAN x 2
I/O	USB Type A x 4 for USB 3.2 Gen1 GbE LAN with LED Indicator POE PSE LAN x2 (802.3at) DB-9 x 1 for RS-232/485 DB15 x 1 Female for 13 Channel DIO O.S Flash port x 1 Recovery port x1 Antenna opening x 2 HDMI Type A 2.0 *1 (Output) HDMI Type A 1.4 *1 (Input via MIPI CSI) Power bottom *1	Wafer connector for Dual USB 3.2 Gen 1 x 2 Wafer connector for HDMI 2.0 x 1 Wafer connector for Dual RS-232/485 (by switch) x 2 Wafer connector for UART TX/ RX +GPIO x 6 (5V) x 1 Wafer connector for 5V and GND x 1 Wafer connector for I2C x2 (I2C_1_SDA+I2C_1_SCL) x 1 MicroSD slot x 1 MIPI connector for four MIPI camera x 2 M.2 E key (for Wifi) x 1 Micro USB for flashing x 1 Recovery bottom x 1 Debug port / reset pin header x 1
扩展	Minicard*1 w/ SIM slot M.2 E-Key 2230 x 1(for WiFi)	M.2 E key (for Wifi) x 1 Mini-Card (for 4G LTE) x 1 SIM card slot x 1
指示灯	Power LED x 1	TBD
操作系统支持	Nvidia Jetpack 4.5 or above	Linux (NVIDIA Jetpack 4.6 and above)
供电方式		
电源模式	DC 12V~24V with 2-pin terminal block ATX mode	12V ~ 24V DC with Wafer connector
机构		
安装方式	Wall mount kit (default)	—
尺寸 (W x D x H)	7.09” x 5.35” x 2.41” (180.0 mm x 136 .0 mm x 61.1 mm)	TBD
总重量	4.63 lbs. (2.1 kg)	TBD
净重	2.87 lbs. (1.3 kg)	TBD
环境		
工作温度	14°F ~ 158°F (-10°C ~ 70°C), with 0.5m/s airflow	-4°F ~ 140°F (-20°C ~ 60°C with 0.5 m/s airflow)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	-49°F ~ 176°F (-40°C ~ 70°C)
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	Random, 3 Grms, 5~500Hz	5Grm / 5~500Hz / X/Y/Z axis, random (by M.2 storage)
防冲击	50G peak acceleration (11 msec. duration,eMMC)	TBD
认证	CE / FCC class A / UKCA	TBD
备注		

型号	BOXER-8230AI	BOXER-8231AI
系统		
AI 加速器	NVIDIA® Jetson™ TX2 NX	
CPU	NVIDIA® Denver 2 (Dual-Core) Processor & ARM® Cortex® -A57 MPCore (Quad-Core) Processor	4 Core ARM A57 Complex and 2 core NVIDIA Denver2 64-bit CPU
系统内存	4GB 128-bit LPDDR4 @ 1600 MHz	4GB LPDDR4
存储设备	eMMC 5.1 16GB MicroSD card slot x 1 2.5” SATA drive bay x 1 (A4/JP46E-A2 only)	16GB eMMC + MicroSD
显示接口	HDMI Type A x 1 for HDMI 2.0	HDMI 2.0
以太网	RJ-45 x 5 for GbE LAN	10/100/1000Base-TX x 1
I/O	USB Type A x 4 for USB 3.2 Gen 1 DB-9 x 2 for RS-232 HDMI Type A x 1 for HDMI 2.0 MicroSD slot x 1 Micro USB x 1 for O.S Flash Recovery button x 1 Power button with power LED x 1	USB 3.2 Gen 1 x 4 LAN x 1 RS-232 x 2 HDMI x 1 MicroSD x 1 DC Power Input x 1 Recovery Button x 1 Micro-USB for Flash OS x 1
扩展	SATA III Port x 1 for 2.5” SATA drive (A4/JP46E-A2 only)	M.2 E-Key 2230 x 1(for WiFi)
指示灯	Power LED x 1	
操作系统支持	Linux (NVIDIA Jetpack 4.5 or above)	Linux (AAEON ACLinux 4.9) Linux (NVIDIA Jetpack 4.5 and above)
供电方式		
电源模式	DC-in 10V~24V with 2-pin terminal block ATX mode	12Vdc w/ 2-pin terminal block
机构		
安装方式	Wall mount kit	Wallmount
尺寸 (W x D x H)	A3/JP46E-A1 : 6.92” x 3.94” x 1.54”(175.8mm x 100.0mm x 39.0mm) A4/JP46E-A2 : 6.92” x 3.94” x 2.41”(175.8mm x 100.0mm x 61.3mm)	3.46” x 2.95” x 1.53” (88mm x 75mm x 39mm)
总重量	A3/JP46E-A1 : 2.91lbs (1.3kg) A4/JP46E-A2 : 3.5lbs (1.6kg)	1.10 lb (0.5 kg)
净重	A3/JP46E-A1 : 1.51lbs (0.67kg) A4/JP46E-A2 : 2.0lbs (0.91kg)	0.66 lb (0.3 kg)
环境		
工作温度	A3/JP46E-A1 : -13°F ~ 149°F(-25°C ~ 65°C,according to IEC60068-2 with 0.5 m/s AirFlow) A4/JP46E-A2 : -13°F ~ 167°F(-25°C ~ 75°C,according to IEC60068-2 with 0.5 m/s AirFlow)	-25°C ~ 45°C, according to IEC60068-2 with 0.5 m/s AirFlow
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	3.5Grm / 5~500Hz / operation (eMMC, MicroSD, or SSD)	3.5 Grms/ 5 ~ 500Hz/ operation – eMMC
防冲击	50G peak acceleration (11 msec. duration, eMMC, microSD, or SSD)	50G peak acceleration (11 msec. duration) – eMMC
认证	CE / FCC class A	
备注		


型号	BOXER-8233AI	BOXER-8240AI
系统		
AI 加速器	NVIDIA® Jetson™ TX2 NX	NVIDIA® AGX Xavier
CPU	NVIDIA® Denver 2 (Dual-Core) Processor & ARM® Cortex® -A57 MPCore (Quad-Core) Processor	8-core ARM v8.2 64bit CPU, 8MB L2 + 4MB L3
系统内存	4GB 128-bit LPDDR4	32GB 256-Bit LPDDR4x 137GB/s
存储设备	eMMC 16GB MicroSD slot x 1 Full-size mSATA (sharing slot with Full-size minicard module) 2.5" SATA drive bay x 1	32GB eMMC 5.1 Micro SD card slot 2.5" SATA drive bay M.2 Key M 2280
显示接口	HDMI Type A x 1 for HDMI 2.0	HDMI 2.0 x 1
以太网	RJ-45 x 2 for GbE PoE/PSE (802.3at) RJ-45 x 1 for GbE LAN	10/100/1000 Base-TX with IEEE 802.11 af PoE LAN x 4
I/O	USB Type A x 4 for USB 3.2 Gen 1 , USB Micro A/B x 1 for OS Flash, RJ45 x 2 for GbE PoE/PSE x 2 (802.3at) (Total 60W), RJ-45 x 1 for GbE LAN, DB-9 x 1 for RS-232/485 & CANbus, DB15 x1 for Digital I/O 13-Channel (programmable), Recovery port x1, MicroSD slot x 1, Antenna opening x 4, HDMI Type A for HDMI 2.0 output x 1 , HDMI Type A for HDMI 1.4 input x 1 , Power Button x 1,	PoE x 4 (IEEE 802.af, total 60W), USB Type A x 1 for USB 3.2 Gen 1, USB Type C x 2 for USB 3.2 Gen 1, USB Type A x 1 for USB 2.0, RS-232/422/485 x1, CANBUS x 1, HDMI 2.0 x1 , DP 1.4 x 1 Mic-in x 1, Line-out x 1, MicroSD slot x 1, Micro USB x 1 for OS Flash, Recovery button x 1, Power button x 1, 40-pin header compliance with NVIDIA Dev Kit 40 pins (4 pins CANBUS occupied)
扩展	Full-size minicard slot x1 (PCIe/USB/mSATA, default PCIe) M.2 E-Key 2230 x 1 (for WiFi) SIM socket x 1 SATA III (6.0 Gbps) port x 1 for 2.5" drive	USB 2.0 header x 1 (Optional, circuit reserved) M.2 Key E 2230 x 1 for WiFi/Bluetooth (PCIe[x1] + USB) M.2 Key M 2280 x 1 (PCIe[x4]) SATA x 1 RS-232/422/485 pin header x 1
指示灯	Power LED x 1	
操作系统支持	Linux (NVIDIA Jetpack 4.5.1)	Linux (NVIDIA Jetpack 4.5 and above) Linux (AAEON AClinux 4.9)
供电方式		
电源模式	DC 12V~24V with 2-pin terminal block ATX mode	DC 12V~24V 2-pin terminal
机构		
安装方式	Wall mount kit	Wallmount
尺寸 (W x D x H)	7.09" x 5.35" x 2.41" (180.0 mm x 136 .0 mm x 61.1 mm)	8.26" x 6.46" x 2.32" (210mm x 164.2mm x 59mm)
总重量	4.63 lbs. (2.1kg)	6 lbs (2.72kg)
净重	2.87 lbs. (1.3kb)	4.23 lbs (1.92kg)
环境		
工作温度	5°F ~ 131°F (-15°C ~ 55°C, according to IEC60068-2 with 0.5 m/s airflow)	14°F ~ 131°F (-10°C ~ 55°C, according to IEC60068-2 with 0.5 m/s AirFlow)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	-40 °F ~ 158°F(-40°C ~ 70°C)
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	3.5Grm / 5~500Hz / operation (eMMC, MicroSD, mSATA, or SSD)	Random, 3 Grms, 5 ~ 500Hz
防冲击	50G peak acceleration (11 msec. duration, eMMC, microSD, mSATA, or SSD)	—
认证	CE / FCC class A / UKCA	CE/FCC class A
备注		BC Best Choice AWARD TAIWAN EXCELLENCE 2022

AI@Edge解决方案

型号	BOXER-8250AI	BOXER-8251AI
系统		
AI 加速器	NVIDIA Jetson Xavier NX	
CPU	6-core NVIDIA Carmel ARM® v8.2 64-bit CP	6 Core ARM® Carmel®V8.2 64bit CPU 6MB L2 + 4MB L3
系统内存	8GB LPDDR4x	
存储设备	16 eMMC and MicroSD card slot (A1, A3) 16 eMMC and MicroSD card slot and 2.5" HDD drive(A4)	16GB eMMC + MicroSD
显示接口	HDMI 2.0	
以太网	10/100/1000Base-TX x 5	10/100/1000Base-TX x 1
I/O	USB Type A x 4 for USB 3.2 Gen 1 RJ-45 x 5 for GbE LAN DB-9 x 2 for RS-232 HDMI Type A x 1 for HDMI 2.0 MicroSD slot x 1 Micro USB x 1 for O.S Flash Recovery button x 1 Power button with power LED x 1	USB 3.2 Gen 1 x 4 LAN x 1 RS-232 x 2 HDMI x 1 MicroSD x 1 DC Power Input x 1 Recovery Button x 1 Micro-USB for Flash OS x 1
扩展	—	M.2 E-Key 2230 x 1(for WiFi)
指示灯	Power LED x 1	
操作系统支持	Linux (AAEON ACLinux 4.9) Linux (NVIDIA Jetpack 4.5)	Linux (AAEON ACLinux 4.9) Linux (NVIDIA Jetpack 4.5) Ubuntu18.04
供电方式		
电源模式	10 ~ 24V DC with 2-pin terminal block	12Vdc w/ 2-pin terminal block
机构		
安装方式	Wallmount	
尺寸 (W x D x H)	A1, A3 : 6.92" x 3.94" x 1.54"(175.8mm x 100.0mm x 39.0mm) A4 : 6.92" x 3.94" x 2.41"(175.8mm x 100.0mm x 61.3mm)	Standard: 3.46" x 2.95" x 1.53" (88mm x 75mm x 39mm) High heatsink Dimension: 3.54" x 3.30" x 2.04"(90mm x 84mm x 52mm)
总重量	A1, A3 : 2.48 lbs (1.12 kg) A4 : 3.5lbs (1.6kg)	Standard: 1.10 lb (0.5 kg) High heatsink: 1.76lb(0.8kg)
净重	A1, A3 : 1.46 lbs (0.66 kg) A4 : 2.0lbs (0.91kg)	Standard: 0.66 lb (0.3 kg) High heatsink: 1.3lb(0.6kg)
环境		
工作温度	A1, A3 : 14°F ~ 149°F (-10°C ~ 65°C, according to IEC60068-2 with 0.5 m/s AirFlow) A4 : -13°F ~ 158°F (-25°C ~ 70°C, according to IEC60068-2 with 0.5 m/s AirFlow)	TBC
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	-40°F ~ 158°F (-40°C ~ 70°C)
存储湿度	95% @ 40°C, non-condensing	
抗振动	3.5Grm / 5~500Hz / operation (eMMC, MicroSD, or SSD)	3 Grms/ 5 ~ 500Hz/ operation – MicroSD or eMMC
防冲击	—	
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	BOXER-8253AI	BOXER-8256AI
系统		
AI 加速器	NVIDIA® Jetson Xavier™ NX	
CPU	6 Core ARM® Carmel®V8.2 64bit CPU 6MB L2 + 4MB L3	6-core NVIDIA Carmel Arm®v8.2 64-bit CPU
系统内存	8GB LPDDR4x	
存储设备	eMMC 16GB MicroSD slot x 1 Full-size mSATA (sharing slot with Full-size minicard module) 2.5" SATA drive bay x 1	16GB eMMC x 1 MicroSD Slot x 1 M.2 M-Key 2280 x 1 (PCIE[x4])
显示接口	HDMI Type A for HDMI 2.0 x 1	HDMI 2.0 x 2
以太网	RJ-45 x 2 For GbE PoE/PSE (802.3at) RJ-45 x 1 For GbE LAN	RJ-45 x 1 for GbE LAN
I/O	USB Type A x 4 for USB 3.2 Gen 1 USB Micro A/B x 1 for OS Flash RJ-45 x 2 for PoE/PSE (802.3at) (Total 60W) RJ-45 x 1 for GbE LAN DB-9 x 1 for RS-232/485 & CANbus DB15 x1 for Digital I/O 13-Channel (programmable) Recovery Button x 1 MicroSD card slot x 1 Antenna opening x 4 HDMI Type A for HDMI 2.0 output x 1 HDMI Type A for HDMI 1.4 input x 1 Power Button x 1	USB Type A x 3 for USB 3.2 Gen 1 DB9 for RS-232/422/485 (By switch) and CANbus x1 HDMI x 2 for Video Display 2.0 HDMI x 4 for Video Input 1.4 (Limitation have stated in User manual) Mic-in x 1, Line-Out x 1 Micro USB for OS Flash x 1 Power ON/OFF switch x 1 Recovery button x 1 SMA Antenna hole x 2
扩展	Full-size minicard slot x1 (PCIe/USB/mSATA, default PCIe) M.2 E-Key 2230 x 1 (for WiFi) SIM socket x 1 SATA III (6.0 Gbps) port x 1 for 2.5" drive	M.2 B-Key 3042/3052 x 1 (PCIE[x2] + USB 3.0) M.2 E-key x 1(PCIE[x1] + USB 2.0) SATA connector and 5V x 1
指示灯	Power LED x 1	
操作系统支持	Linux (AAEON ACLinux4.9) Linux (NVIDA Jetpack 4.5)	Linux (NVIDIA Jetpack 4.6.2 or above)
供电方式		
电源模式	12~24V DC with 2-pin terminal block	
机构		
安装方式	Wall mount kit	
尺寸 (W x D x H)	7.09 " x 5.35 " x 2.41" (180.0 mm x 136 .0 mm x 61.1 mm)	7.09" x 5.35" x 2.64" (180 mm x 136 mm x 67 mm)
总重量	4.63 lbs. (2.1 kg)	4.23 lb (1.92 kg)
净重	2.87 lbs. (1.3 kg)	2.87 lb (1.3 kg)
环境		
工作温度	5°F ~ 131°F (-15°C ~ 55°C with 0.5 m/s airflow)	-5°F ~ 140°F (-15°C ~ 60°C with 0.5 m/s airflow)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	3.5Grm / 5~500Hz / operation-eMMC,MicroSD or mSATA	3.5 Grms/ 5 ~ 500Hz/ operation – eMMC
防冲击	50G peak acceleration (11 msec. duration,eMMC,microSD,or mSATA)	50G, IEC 60068-2-27, half sine, 11 ms duration – eMMC
认证	CE / FCC class A	
备注	TAIWAN EXCELLENCE 2022	

型号	BOXER-8621AI	BOXER-8623AI
	第一季度推出	第一季度推出
系统		
AI 加速器	NVIDIA Jetson Orin NANO	
CPU	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU	
系统内存	4GB LPDDR5	
存储设备	mSATA x 1, M.2 2230 E Key x 1	M.2 2230 E Key x 1, 2.5" SATA drive bay x 1
显示接口	HDMI 1.4 type A x 1	
以太网	RJ-45 x 1 for GbE LAN	RJ-45 x 1 for GbE LAN RJ-45 x 2 for GbE PoE/PSE 802.3af/each (Max.30W)
I/O	USB 3.2 Gen 1 type A x 3 USB 2.0 type A x 1 DB-9 for RS232(Rx/Tx/CTS/RTS)/RS485 x 1 and CANBus FD x 1 RS232(Rx/Tx)/RS485 x 1 and DIO x 9 HDMI 1.4 type A x 1 Micro USB x 1 for OS Flash Power button x 1 Recovery button x 1 Antenna x 2	USB 3.2 Gen 1 type A x 3 USB 2.0 type A x 1 DB-9 for RS232(Rx/Tx/CTS/RTS)/RS485 x 1 and CANBus FD x 1 RS232(Rx/Tx)/RS485 x 1 and DIO x 9 HDMI 1.4 type A x 1 Micro USB OTG x 1 for OS Flash Power button x 1 Recovery button x 1 Antenna x 4
扩展	Full size Mini-PCIe slot x 1 (USB + PCIe + SATA), Default: PCIe M.2 2230 E Key (Wifi/BT/Storage) x 1 SIM Slot x 1	Full size mini-PCIe slot x 1 (USB + PCIe + SATA), Default: PCIe M.2 2230 E Key x 1 2.5"SATA Drive Bay x 1 SIM Slot x 1
指示灯	Power LED x 1	
操作系统支持	Linux (NVIDIA Jetpack 5.0 up)	
供电方式		
电源模式	12V DC in with 2 pins terminal block x 1	12V~24V DC in with 2 pins terminal block x 1
机构		
安装方式	Wall Mount (default)	
尺寸 (W x D x H)	TBD	TBD
总重量	TBD	TBD
净重	TBD	TBD
环境		
工作温度	-13°F ~ 131°F (-25°C ~ 55°C), according to IEC60068-2 with 0.5 m/s AirFlow	-13°F ~ 158°F (-25°C ~ 70°C), according to IEC60068-2 with 0.5 m/s AirFlow
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
存储湿度	5% ~ 95% @ 40°C, non-condensing	
抗振动	3.5Grm / 5~500Hz / Operation	
防冲击	50G peak acceleration	
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	BOXER-8640AI	BOXER-8641AI
系统		
AI 加速器	NVIDIA Jetson AGX Orin 32GB	NVIDIA® Jetson AGX Orin
CPU	8-core ARM v8.2 64bit CPU, 2MB L2 + 4MB L3	
系统内存	32GB 256-Bit LPDDR5 205GB/s	
存储设备	64GB eMMC 5.1 Micro SD card slot x 1 2.5" SATA drive bay x 1 M.2 Key M 2280 x 1	64GB eMMC 5.1 x 1 MicroSD slot x 1 SATA drive bay x 1
显示接口	HDMI 2.0 x 1	HDMI Type A for HDMI 2.0 x 1
以太网	RJ-45 for GbE PoE/PSE 802.3af x 4 (Max. 60W)	RJ-45 for GbE LAN x 2
I/O	USB Type A x 2 for USB 3.2 Gen 2 USB Type C x 2 for USB 3.2 Gen 2 RS-232/422/485 x1 CANBUS x 1 Mic-in x 1 Line-out x 1 MicroSD slot x 1 Micro USB x 1 for OS Flash Recovery button x 1 Power button x 1 40-pin header compliance with NVIDIA Dev Kit 40 pins (without CANBus)	USB Type A for USB 3.2 Gen 2 x 2 USB Type C for USB 3.2 Gen 2 x 1 USB Type A for USB 2.0 x 1 Micro USB x 1 for OS Flash Mic in and Line out x1 Reset Button x 1 Recovery Button x 1 MicroSD card slot x 1 Antenna opening x 2 Power Button x 1 DB-9 x 2 for RS-232/422/485 DB-9 x 1 for DIO x 8
扩展	USB 2.0 header x 1 (Optional, circuit reserved) M.2 E Key 2230 (for Wifi/BT) x 1 M.2 M Key 2280 (NVMe) x 1 2.5" SATA drive bay x 1 RS-232/422/485 pin header x 1	M.2 E-Key 2230 (for Wifi/BT) x 1 M.2 B-Key 3052 x 1 M.2 M-Key 2280 (NVMe) x 1 2.5" SATA drive bay SIM Slot x 1
指示灯	Power LED x 1	
操作系统支持	Linux (NVIDIA Jetpack 5.0 or above)	
供电方式		
电源模式	DC 12V~24V 2-pin terminal	12V DC with lockable DC Jack
机构		
安装方式	Wallmount	Wall mount kit
尺寸 (W x D x H)	8.26" x 6.46" x 2.32" (210mm x 164.2mm x 59mm)	7.09 " x 5.35 " x 2.41" (180.0 mm x 136 .0 mm x 61.1 mm)
总重量	8.3lb (3.76kg)	7.8lb (3.55kg)
净重	6.4lb (2.9kg)	5.5lb (2.5kg)
环境		
工作温度	-4°F ~ 131°F (-20°C ~ 55°C, according to IEC60068-2 with 0.5 m/s AirFlow)	-4°F ~ 131°F (-20°C ~ 55°C with 0.5 m/s airflow)
存储温度	-40 °F ~ 158°F(-40°C ~ 70°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	Random, 3.5 Grms, 5 ~ 500Hz	3.5Grm / 5~500Hz / operation-eMMC,MicroSD or SSD
防冲击	50G Peak Acceleration	50G peak acceleration (11 msec. duration,eMMC,microSD,or SSD)
认证	CE/FCC class A	CE / FCC Class B
备注		

备注: 所有规格如有变更，恕不另行通知。

第一季度推出

型号	BOXER-8646AI	BOXER-8650AI
系统		
AI 加速器	NVIDIA® AGX Orin	NVIDIA Jetson Orin NX
CPU	8-core ARM v8.2 64bit CPU, 2MB L2 + 4MB L3	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
系统内存	32GB 256-Bit LPDDR5 205GB/s	8GB LPDDR5
存储设备	64GB eMMC 5.1 x 1	M.2 2230 E Key x 1, 2.5” SATA Drive Bay x 1
显示接口	HDMI Type A for HDMI 2.0 x 1	HDMI 1.4 type A x 1
以太网	RJ-45 for GbE PoE/PSE (802.3af/at, total 120W) x 12 RJ-45 for 10G x 1 RJ-45 for 1G (PHY) x 1	RJ-45 x 5 for GbE LAN
I/O	USB Type A for USB 3.2 Gen 1 x 2 USB Type A for USB 2.0 x 2 Line-in x 1 Line-out x 1 DB-9 x 1 for CANbus FD x 2 DB-9 x 2 for RS-232/422/485 DB-9 x 1 for DIO x 8 3-pin terminal block for 24V power input Power ON/OFF switch x 1 Antenna hole x 6	USB 3.2 Gen 1 type A x 3 USB 2.0 type A x 1 DB-9 for RS232(Rx/Tx/CTS/RTS)/RS485 x 1 and CANBus FD x 1 RS232(Rx/Tx)/RS485 x 1 and DIO x 9 HDMI 1.4 type A x 1 Micro USB x 1 for OS Flash Power button x 1 Recovery button x 1 Antenna x 2
扩展	M.2 Key E 2230 for WiFi/Bluetooth (PCIe[x1] + USB) x1 M.2 Key B 3042/3052 for 4G/5G x 1 M.2 Key M 2280 (PCIe[x4]) x 1 SIM Slot x 1	Full size Mini-PCIe slot x 1 (USB + PCIe) 2.5” SATA Drive Bay x 1 M.2 2230 E Key x 1 SIM Slot x 1
指示灯	Power LED x 1	
操作系统支持	Linux (NVIDIA Jetpack 5.0 or above)	Linux (NVIDIA Jetpack 5.0 up)
供电方式		
电源模式	DC-in 19-24V with 3-pin terminal block	12V ~ 24V DC in with 2 pins terminal block x 1
机构		
安装方式	Wall mount kit	Wall Mount (default)
尺寸 (W x D x H)	10.42 " x 7.24 " x 3.67" (264.76 mm x 184.00 mm x 93.30 mm)	TBD
总重量	TBD	TBD
净重	TBD	TBD
环境		
工作温度	-4°F ~ 122°F (-20°C ~ 50°C with 0.5 m/s airflow)	-13°F ~ 158°F (-25°C ~ 70°C), according to IEC60068-2 with 0.5 m/s AirFlow
存储温度	-40°F ~ 158°F (-40°C ~ 70°C)	-40°F ~ 185°F (-40°C ~ 85°C)
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	3.5Grm / 5~500Hz	
防冲击	50G peak acceleration	
认证	CE / FCC class A	
备注		

第一季度推出

型号	BOXER-8651AI	BOXER-8652AI
系统		
AI 加速器	NVIDIA Jetson Orin NX	NVIDIA® Orin NX
CPU	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
系统内存	8GB LPDDR5	16GB 256-Bit LPDDR5x 102.4GB/s
存储设备	mSATA x 1, M.2 2230 E Key x 1	M.2 M Key x 1
显示接口	HDMI 1.4 type A x 1	HDMI Type A for HDMI 2.0 x 1
以太网	RJ-45 x 1 for GbE LAN	RJ-45 x 2 for 10/100/1000 Base-T
I/O	USB 3.2 Gen 1 type A x 3 USB 2.0 type A x 1 DB-9 for RS232(Rx/Tx/CTS/RTS)/RS485 x 1 and CANBus FD x 1 RS232(Rx/Tx/CTS/RTS)/RS485 x 1 and DIO x 9 HDMI 1.4 type A x 1 Micro USB x 1 for OS Flash Power button x 1 Recovery button x 1 Antenna x 2	RJ-45 x 2 for 10/100/1000 Base-T USB Type A x 3 for USB 3.2 Gen 1 USB Type A x 1 for USB 2.0 HDMI type A for HDMI v2.0 x 1 DB-9 x 1 for CANbus DB-9 x 1 for RS-232/422/485 DB-15 x 1 for 13 DIO 2-pin terminal block for 12-24V power input Power ON/OFF switch x 1 Antenna hole x 4
扩展	Full size Mini-PCIe slot x 1 (USB + PCIe + SATA), default: PCIe M.2 2230 E Key (Wifi/BT/Storage) x 1 SIM Slot x 1	M.2 E-Key 2230 x 1 for WiFi/Bluetooth M.2 B-Key 3042/3052 x1 for 4G/5G M.2 M-Key 2280 x1
指示灯	Power LED x 1	
操作系统支持	Linux (NVIDIA Jetpack 5.0 up)	Linux (NVIDIAJetpack 5.0 and above)
供电方式		
电源模式	12V DC in with 2 pins terminal block x 1	DC-in 12-24V with 2-pin terminal block
机构		
安装方式	Wall Mount (default)	Wall mount kit
尺寸 (W x D x H)	TBD	TBD
总重量	TBD	TBD
净重	TBD	TBD
环境		
工作温度	-13°F ~ 131°F (-25°C ~ 55°C), according to IEC60068-2 with 0.5 m/s AirFlow	-4°F ~ 131°F (-20°C ~ 55°C with 0.5 m/s airflow)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	-40°F ~ 158°F (-40°C ~ 70°C)
存储湿度	5% ~ 95% @ 40C, non-condensing	5 ~ 95% @ 40°C, non-condensing
抗振动	3.5Grm / 5~500Hz / Operation	1Grm / 5~500Hz
防冲击	50G peak acceleration	20G peak acceleration
认证	CE/FCC class A	
备注		

第一季度推出

型号	BOXER-8653AI
系统	
AI 加速器	NVIDIA Jetson Orin NX
CPU	6-core Arm® Cortex®-A78AE ARMv8.2 64-bit CPU
系统内存	8GB LPDDR5
存储设备	M.2 2230 E Key x 1, 2.5" SATA Drive Bay x 1
显示接口	HDMI 1.4 type A x 1
以太网	RJ-45 x 1 for GbE LAN RJ-45 x 2 for GbE PoE/PSE 802.3af/each (Max.30W)
I/O	USB 3.2 Gen 1 type A x 3 USB 2.0 type A x 1 DB-9 for RS232(Rx/Tx/CTS/RTS)/RS485 x 1 and CANBus FD x 1 RS232(Rx/Tx)/RS485 x 1 and DIO x 9 HDMI 1.4 type A x 1 Micro USB x 1 for OS Flash Power button x 1 Recovery button x 1 Antenna x 4
扩展	Full size mini-PCIe slot x 1 (USB + PCIe) 2.5"SATA Drive Bay x 1 M.2 2230 E Key x 1 SIM Slot x 1
指示灯	Power LED x 1
操作系统支持	Linux (NVIDIA Jetpack 5.0 up)
供电方式	
电源模式	12V~24V DC in with 2 pins terminal block x 1
机构	
安装方式	Wall Mount (default)
尺寸 (W x D x H)	TBD
总重量	TBD
净重	TBD
环境	
工作温度	-13°F ~ 158°F (-25°C ~ 70°C), according to IEC60068-2 with 0.5 m/s AirFlow
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)
存储湿度	5% ~ 95% @ 40C, non-condensing
抗振动	3.5Grm / 5~500Hz / Operation
防冲击	50G peak acceleration
认证	CE/FCC class A
备注	

AI@Edge解决方案：边缘 AI 服务器

型号	BOXER-8301AI-CML	BOXER-8332AI-CFL
系统		
CPU	Intel® 10th Gen Core™ Desktop Processors	Intel® Xeon® E-2124G Intel® Core™ i7-9700TE Intel® Core™ i7-8700T Intel® Core™ i5-8500T Intel® Core™ i3-8100T Intel® Pentium® G5400T Intel® Celeron® G4900T Intel® Xeon® E-2278GEL Note: Support max. TPD 71W Processor
芯片组	Intel® Q470E	C246, No H310 downward support
系统内存	DDR4 up to 2933 Mhz 128GB, Long-DIMM x 4	DDR4 SO-DIMM socket x4 (double deck) Support max. 2666MHz up to 128GB Support un-buffered and ECC / non-ECC type SODIMM
存储设备	Hot Swappable 3.5"SATA HDD/SSD Bay x 4 M.2 M Key 2242/2260/2280 x 1	2.5" SATA Drive Bay x2 (4 SATA Port w/ RAID Function) Half-size Minicard x1 for mSATA (optional) M.2 2280 NVMe slot x1
显示接口	HDMI 2.0a x 1, 4096 x 2160 @60Hz DP 1.2 x 1, 4096 x 2160@60Hz VGA x 1, 1920 x 1200@60Hz	HDMI 1.4 x2 Support Dual Independent Display, 4K Ultra HD displays
以太网	Intel® I225LM with 10/100/1000/2500 Mbps Intel® I219LM with 10/100/1000 Mbps, support AMT / vPro Intel® X550-T2 with 10GbE/5GbE/2.5GbE/1GbE/100Mb	RJ-45 x3 for GbE LAN (Intel i211AT x2, i219LM x1)
I/O	USB 3.2 Gen2 x 4 USB 3.2 Gen1 x 2 (Front Panel) USB 3.2 Gen1 x 2 USB 2.0 x 2 RJ-45 x 4 for LAN (i225 x 1, i219 x 1, X550-T2 x 1) DB-9 x 2 for RS-232/422/485 Audio for Line-in, Line-out, Mic-in PS2 x 1	USB Type-A x6 for USB3.2 Gen1 DB9 x4 For RS-232/422/485 Mic-in x1, Line-out x1 Power ON/OFF switch x1 Remote power on/off connector x1 Reset switch x1 SMA Antenna Holes x3
扩展	PCIe [x8] Gen3 x 1 PCIe [x4] Gen3 x 1 M.2 E Key 2230 x 1 (PCIe [x1]/USB 2.0) M.2 B Key 3042/3052 w/SIM slot (PCIe [x1]/USB 3.0/USB 2.0)	Full-size Minicard x1 (PCIE + USB with 1 SIM Slot) Half-size Minicard x1 (PCIE + USB, optional for mSATA) M.2 M key (2280) x1 (PCIEx4) Built in NVIDIA A2 x1 PCIE [x4] x1
指示灯	Power Status x 1 HDD Activity x 1 LAN Activity x 2 Fan Failure and Overheat x 1	System Power LED x1 (Green) Storage Active LED x1 (Red)
操作系统支持	WIN10 IoT LTSC 2019 Multi-Language English	Windows® 10 Enterprise 64 bit Ubuntu 20.04.3/Kernel 5.40.-72
供电方式		
电源模式	600W ATX Power Supply Input voltage: 90-264Vac Input frequency: 47-63Hz Input current: 115Vac @ 6A, 230Vac @ 3A	DC In 12~24V x1 for 3-pin Terminal block
机构		
安装方式	—	Wallmount
尺寸 (W x D x H)	18.3" x 7.8" x 16.7" (465 mm x 198 mm x 425 mm)	8.66" x 5.91" x 11.02" (220 mm x 150 mm x 280 mm)
总重量	39.68 lb (18 Kg)	17.64 lb (8 kg)
净重	33.07 lb (15.5 Kg)	15.43 lb (7 kg)
环境		
工作温度	32°F ~104°F (0°C ~ 40°C), IEC68-2 with 0.5 m/s AirFlow	
存储温度	-49°F~176°F (-45°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	Random, 1Grms, 5~500Hz, Anti-vibration design	SSD : Random, 1Grms, 5~500Hz
防冲击	SSD : 5G @ Half-sine, 11ms	SSD : 5G @ wallmount, Half-sine, 11ms
认证	CE/FCC Class B, VCCI Class B	CE/FCC class A , UKCA
备注		

IoT网关解决方案 – IoT网关 & 扩展



型号	SRG-3352	SRG-3352C	SRG-IMX8P
系统			
处理器	ARM Cortex-A8 800 MHz RISC Processor		ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor (NPU Optional)
内存	Onboard DDR3L 1GB		Onboard DDR4L 2GB (Optional 4GB)
存储	eMMC 16GB		eMMC 16GB (Optional 32GB)
实时时钟	RTC, with 3V CR2032 Lithium battery x 1		RTC x 1, with 3V CR2032 Lithium battery
安全	—		TPM 2.0
指示灯	Programmable LED control x 4		Programmable LED control x 7
移动蜂窝	Mini PCIe Connector x 1		Mini PCIe Connector x 1 (USB signal)
无线Lan	—	Onboard WiFi 802.11 b/g/n, Bluetooth4.2 / BLE	Mini PCIe Connector x 1 (USB signal)
操作系统	Debian 9	Debian 10	
支持协议	Modbus / MQTT Library(by requset)		
I/O 接口			
串口	RS-485, Phoenix Connector x 2	RS-485, DB9 Connector x 2	RS-232/422/485 switchable x 2, Phoenix Connector
以太网	Gigabit Ethernet, RJ-45 x 2		Gigabit Ethernet x 2, RJ-45
USB	USB 2.0, Type A x 1	USB 2.0, Type A x 2	USB 3.0, Type-A x 2
ADC	—		
DI/DO	—		
CAN总线	—		CAN-FD x 2 CH, Phoenix Connector
显示	—		HDMI x1 (Output)
电源连接器	3 Pin Phoenix Connector	Lockable DC Jack	2 Pin 3.81mm Pitch Phoenix Connector
调试端口	Micro USB x 1		
扩展槽	SIM card slot x 1 Micro SD slot x 1		
其他接口	—		
供电方式			
电源模式	DC9-30V		DC 9-36V
功耗	2.28 W (Full Loading)	3.36 W (Full Loading)	9.36W (Full Loading)
MTBF (小时)	855590		479,374
环境和机构			
尺寸	5.67" x 3.94" x 1.73"(144 x 100 x 44mm)	4.3" x 4.33" x 1.54" (109 x 110 x 39 mm)	5.54'' x 3.86" x 1.89" (140.76 x 98.2 x 48 mm)
重量	512 g	430 g	2.6lb (1.18kg)
挂载选择	Wallmount, Din Rail (Optional)		
工作温度	32 °F ~ 140 °F (0 °C ~ 60 °C)		-4 °F ~ 158 °F (-20 °C ~ 70 °C)
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)		
工作湿度	10% ~ 95% relative humidity, non-condensing		
备注			

备注: 所有规格如有变更，恕不另行通知。

IoT网关解决方案 – IoT网关 & 扩展

型号	SRG-ADIO	SRG-ACAN	SRG-TG01
系统			
处理器	ARM Cortex-A8 800 MHz RISC Processor		11th Generation Core Intel® i7-1185G7E SoC 11th Generation Core Inte® i5-1145G7E SoC 11th Generation Core Inte® i3-1115G4E SoC 11th Generation Core Inte® Celeron 6305E SoC TDP 12W Only
内存	Onboard DDR3L 1GB		DDR4 3200MHz, SO-DIMM x 2, Up to 64GB
存储	eMMC 16GB		M.2 2280 M Key slot x 1 (PCIex4) 2.5" SATA SSD/HDD bay x 1
实时时钟	RTC x 1, with 3V CR2032 Lithium battery		RTC x 1, with 3V CR2032 Lithium battery
安全	TPM 2.0		TPM 2.0
指示灯	Programmable LED control x 4		—
移动蜂窝	Mini PCIe Connector x 1		M.2 3052 B Key slot x 1 (4G/5G)
无线Lan	Onboard WiFi 802.11 b/g/n, Bluetooth 4.2 / BLE		M.2 2230 E Key slot x 1 (Wi-Fi 802.11 ac/b/g/n, BT 5.0)
操作系统	Debian 10		Windows 10 IoT Enterprise / Linux (by request)
支持协议	Modbus / MQTT Library (by request)		—
I/O 接口			
串口	—	Switchable RS232/422/485 x 2, DB9 Connector (Optional)	RS-232/422/485 x 4, DB9 (Optional)
以太网	Gigabit Ethernet x 2, RJ-45		Intel ®i211-LM,10/100/1000Base x 1,RJ45 Intel ®i219-LM,10/100/1000Base x 1,RJ45 Intel ®i225-LM,10/100/1000Base x 1,RJ45 (Support Vpro)
USB	USB 2.0 x 2, Type A		USB3.2 Gen 2 x 1, Type A USB3.2 Gen 1 x 3, Type A
ADC	Differential x 2 CH or Single-End x 4 CH, Phoenix Connector Input Range: 0~15V, 0~20mA Resolution: 16 bit	Differential x 2 CH or Single-End x 4 CH, DB9 Connector (Optional) Input Range: 0~15V, 0~20mA Resolution: 16 bit	—
DI/DO	Isolation DI x 4 CH, Phoenix Connector Voltage Level: ON:9~24V, OFF:0~8V Isolation DO x 4 CH, Phoenix Connector Load Voltage: DC 24V Max Load Current: 100mA/ channel	—	8 bit, Phoenix Connector
CAN总线	—	CAN Bus x 2 CH, DB9 Connector (Optional)	CAN 2.0 B x 2 CH, Phoenix Connector
显示	—		HDMI 2.0b x 1
电源连接器	Lockable DC jack		2 Pin 3.81mm Pitch Phoenix Connector
调试端口	Micro USB x 1		—
扩展槽	SIM card slot x 1 Micro SD slot x 1		Micro SIM slot x 1 Micro SIM slot x 2 (Optional)
其他接口	—		SATA 3.0 x 1 (Internal) SATA Power connector x 1 (5V) (Internal)
供电方式			
电源模式	DC9-30V		DC 9 ~ 36V (Optional DC12V), AT Type
功耗	3.36 W (Full Loading)		67 W (Full Loading)
MTBF (小时)	855590		306,575
环境和机构			
尺寸	4.3” x 4.33” x 1.54” (109 x 110 x 39 mm)		8.1” x 6.1” x 2.8” (207 x 155 x 72 mm)
重量	430 g		3.3lb (1500g)
挂载选择	Wallmount, Din Rail (Optional)		Wall Mount (Optional)
工作温度	32°F ~ 140°F (0°C ~ 60°C)		32°F ~ 122°F (0°C ~ 50°C)
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)		
工作湿度	10% ~ 95% relative humidity, non-condensing		
备注			

备注: 所有规格如有变更，恕不另行通知。

IoT网关解决方案 – IoT网关 & 扩展

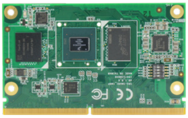


型号	SRG-APL	SRG-CM4	SRG-4858P
系统			
处理器	Intel Atom X5-E3940 Processor SoC / Intel HD 500 Graphics	Broadcom BCM2711 quad-core Cortex-A72 SoC @ 1.5GHz	ARM Cortex-A8 800 MHz RISC Processor
内存	Onboard LPDDR4 1866MHz 4GB / 8GB (Optional)	Onboard DDR4L 1GB (Optional 2GB)	Onboard DDR3L 1GB
存储	eMMC 5.1 32GB / 64GB (Optional)	eMMC 8G (Optional 16GB)	eMMC 16GB
实时时钟	RTC x 1, with 3V CR2032 Lithium battery	RTC x 1, with 3V CR2032 Lithium battery	RTC, with 3V CR2032 Lithium battery x 1
安全	—	TPM 2.0	—
指示灯	—	Programmable LED control x 3	Programmable LED control x 4
移动蜂窝	Mini PCIe Connector x 1	M.2 3042/3052 B Key x1 (USB Signal)	Mini PCIe Connector x 1 (USB signal)
无线Lan	M.2 2230 E Key slot x 1	Onboard Wifi 802.11 b/g/n/ac, BT 5.0 (Optional)	—
操作系统	Windows 10 IoT Enterprise / Linux (by request)	Raspberry Pi OS / Debian 10 (by request)	Debian 10
支持协议	—	Modbus / MQTT Library (by request)	
I/O 接口			
串口	—	RS-232/422/485 switchable x 2, phoenix connector RS-485 with isolation x 2, wafer box (Optional)	RS-485 x 10, Phoenix Connector
以太网	Gigabit Ethernet x 2, RJ-45		
USB	USB 3.0 x 4, Type A	USB 3.0 Type-A x 2 Micro USB 2.0 OTG x 1	USB 2.0 x 1, Type A
ADC	—		
DI/DO	—	DIx1 / DOx 1 with Isolation, wafer box (Optional)	—
CAN总线	—	CAN-FD x 1, phoenix connector	—
显示	HDMI 1.4 x 1	HDMI x 1 (Output)	—
电源连接器	DC Jack	2 pin 3.81mm pitch phoenix connector	3 Pin 3.81mm Phoenix Connector
调试端口	—	UART x1 (Pin Header)	Micro USB x 1
扩展槽	SIM card slot x 1 Micro SD slot x 1	SIM card slot x 1 Micro SD slot x 1(Optional)	Micro SIM slot x1 Micro SD slot x 1
其他接口	Power switch button x 1 Reset switch button x 1 Antenna x3 (Optional)	Software button x 1 (Share with DI) Reset button x 1 Hardware watchdog	Antenna x2 (Optional)
供电方式			
电源模式	12V DC-In @ 3A-5A 5.5/2.5 mm	DC 9-24V	DC9-30V
功耗	20 W (Full Loading)	TBD	6.36 W (Full Loading)
MTBF (小时)	516,789	TBD	855590
环境和机构			
尺寸	3.16" x 3.7" x 2.5" (80.28 x 95 x 63.6 mm)	5.51'' x 4.13'' x 1.96'' (140x105x50mm)	5.67" x 3.94" x 1.73"(144 x 100 x 44mm)
重量	1.94lb (880g)	0.99 lb (450g)	512 g
挂载选择	Wallmount, Din Rail (Optional)		
工作温度	32 °F ~ 140 °F (0 °C ~ 60 °C)	-4 °F ~ 158 °F (-20 °C ~ 70 °C)	32 °F ~ 140 °F (0 °C ~ 60 °C)
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)		
工作湿度	10% ~ 95% relative humidity, non-condensing		
备注			

IoT网关解决方案 – 工业现场总线网关

型号	SPG-M041
系统	
CPU/MCU	ARM Cortex M4F
内存	128 M-bit flash
存储	External Micro SD slot, Max. 32GB
操作系统	Embedded real-time OS: Zephyr Version: 3.0.99
LED 指示灯	10
实时时钟	Yes
I/O 接口	
以太网	10/100Mbps Ethernet x 2, RJ45
串口	RS232, 3W-RS485 or 2W-RS485 x 2, Terminal Block (Software selectable)
数字输入	4, Terminal Block
继电输出	1, Terminal Block
SD卡	Micro SD card slot x 1
电源输入	12/24 VDC Power input x 2, Terminal Block
供电方式	
端口/通道	Dual DC power inputs for power redundancy
电源额定电压	12 / 24 VDC
电源电压范围	9.6 ~ 31.2 VDC
输入电流	12V/2.29W, 24V/3.14W, Normal used
极性反接保护	Yes
电压变化保护	Yes
机构	
外壳	Metal housing
尺寸	6.29 x 4.17 x 1.06 (160 x 106 x 27mm)
重量	1.11 lb (504g)
安装方式	DIN mount
环境	
工作温度	-20 to 70°C (-4 to 158°F)
存储温度	-40 to 85°C (-40 to 185°F)
工作湿度	5% to 95% Non-condensing
认证	
法规	CE, FCC
备注	

IoT网关 & 扩展 - 附件



第一季度推出

型号	iEC-SIM8	iEC-SI35
系统		
板型	SMARC (82 x 50 mm) with MXM3 connector	200-pin SO-DIMM
处理器	NXP i.MX8M Plus Cortex-A53, Quad-core, 1.6GHz NXP i.MX8M Plus Cortex-A53, Dual-core, 1.6GHz (model variant)	MediaTek Genio 350/MT8365 ARM Cortex-A53, Quad-core, 2.0GHz
内存	2GB/4GB LPDDR4 (model variant)	
存储	16GB/32GB eMMC (model variant)	
网络	Gigabit Ethernet x 2	RMII x 1
显示	HDMI 2.0a x 1 dual channel 24-bit LVDS x 1 MIPI-DSI 4-lane shared with second LVDS channel x 1	LVDS x 1 DPI x 1
视频输入	2-lane MIPI-CSI x 1 4-lane MIPI-CSI x 1	MIPI-CSI x 2
连接	UART x 2 CAN bus x 2 I²C x 3 SD/SDIO x 1 JTAG x 1	UART x 1 SPI x 1 I²C x 3 SD/SDIO x 1 JTAG x 1
USB	USB 3.0 x 2	USB 2.0 OTG x 1 USB 2.0 host x 1
PCIe	PCIe Gen3 x 1	—
音频	I²S x 1	—
供电方式		
电源模式	5V DC	
环境和机构		
尺寸	67.6 x 31.0 mm	
工作温度	0°C ~ 60°C	
工作湿度	5% ~ 95% relative humidity, non-condensing	
备注		

备注: 所有规格如有变更，恕不另行通知。

紧凑型无风扇BOX PC解决方案

型号	BOXER-6614	BOXER-6615
系统		
CPU	Intel® Celeron® N2930, 1.83 GHz Intel® Celeron® N2807, 1.58GHz	Intel® Pentium® N3710 1.6GHz
芯片组	Intel® System on Chip	
系统内存	DDR3L 1333 SODIMM slot x 1, up to 8 GB (N2930) or 4 GB (N2807)	204-pin 1600 DDR3L SODIMM x 1, up to 8GB
显示接口	VGA, HDMI	
存储设备	CFast™, HDD/SSD	mSATA, 2.5” HDD/SSD
以太网	Intel® I210/I211, 10/100/1000 Base-TX x 2	Realtek® RTL-8111E, 10/100/1000 Base x2
I/O	RS-232/422/485 x 2 RS-232 x 2 USB 2.0 x 3 USB 3.2 Gen 1 x 1 VGA x 1 HDMI x 1 Line-out x 1 LAN x 2 CFast slot x 1 Antenna holes x 2 Power switch Power input	RS-232/422/485 x 2 RS-232 x 4 USB 3.2 Gen 1 x 2 USB2.0 x 2 VGA x 1 HDMI x 1 DIO x 1 Line-Out x 1 Antenna holes x 2 Power switch Power input
扩展	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Half-size Mini-Card x 1 (PCI-E + USB)	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Half-size Mini-Card x 1 (mSATA + USB)
指示灯	Power LED HDD active LED	
操作系统支持	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7 (32/64-bit), WES7/WES8, Linux Ubuntu 14.04/ Kernel 3.13.0	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7 (32/64-bit), WES7/WES8, Windows® 10 IOT, Linux
供电方式		
电源模式	9 - 30V with 3-pin terminal block, 12V with lockable DC jack	
机构		
安装方式	Wallmount DIN Rail (Mounting kit is optional)	
尺寸 (W x H x D)	8.35” x 4.21” x 2.53” (212.15mm x 107mm x 64.2mm)	7.76” x 2.17” x 4.33” (197mm x 55mm x 110mm)
总重量	6.6 lb (2.8 kg)	
净重	4.4 lb (2 kg)	
环境		
工作温度	-4°F ~ 131°F (-20°C ~ 55°C) with wide temperature CFast™ card -4°F ~ 140°F (-20°C ~ 60°C) with wide temperature HDD (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)	
存储湿度	95% @ 40°C, non-condensing	
抗振动	5 Grms/ 5 ~ 500Hz/ operation –CFast™ card 1 Grms/ 5~ 500Hz/ operation – HDD	5 Grms/ 5 ~ 500Hz/ operation –mSATA/SSD 1 Grms/ 5~ 500Hz/ operation – HDD
防冲击	—	
认证	CE/FCC class A, UL	CE/FCC class A
备注		

备注: 所有规格如有变更，恕不另行通知。

02

系统产品线

紧凑型无风扇BOX PC解决方案

型号	BOXER-6616	BOXER-6639
系统		
CPU	Intel® Pentium® N4200, 2.5 GHz Intel® Celeron® N3350, 2.4 GHz	Intel® Core™ i7-7700T, 2.9 GHz Intel® Core™ i5-7500T, 2.7 GHz Intel® Core™ i7-6700TE, 2.4 GHz Intel® Core™ i5-6500TE, 2.3 GHz Intel® Core™ i3-6100TE, 2.7 GHz Intel® Pentium® G4400TE, 2.4 GHz Intel® Celeron® G3900TE, 2.3 GHz
芯片组	Intel® System on Chip	Q170
系统内存	DDR3L 1866 SODIMM slot x 1, up to 8GB	DDR4 1866/2133 SODIMM slot x 2, up to 32 GB, ECC or Non-ECC support
显示接口	HDMI (max. 2048 x 1152) VGA (max. 2048 x 1152)	VGA, HDMI
存储设备	mSATA, HDD/SSD	CFast, SATA HDD/SSD (Optional: x2)
以太网	Intel® I211, 10/100/1000 Base-TX x 2	Intel® i210, 10/100/1000Base-TX x 3
I/O	RS-232/422/485 x 2 RS-232 x 4 USB 3.2 Gen 1 x 4 VGA x 1 HDMI x 1 LAN x 2 Remote On/Off x 1 Reset Button x 1 AT/ATX DIP Switch Mic-In x 1 Line-Out x 1 Antenna holes x 1 Power button Power input	RS-232/422/485 x 6 USB 3.2 Gen 1 x 4 USB 2.0 x 2 VGA x 1 HDMI x 2 Line-out x 1 Mic-in x 1 LAN x 3 CFast slot x 1 SIM slot x 1 Antenna holes x 2 34bit DIO x 1(A2 & A4 SKU) Power switch Power input Remote power switch Reset Button
扩展	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Half-size Mini-Card x 1 (A1:PCI-E + USB, A2: mSATA + USB)	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini-Card x 1 (PCI-E + USB, Optional for mSATA and SIM Slot)
指示灯	Power LED HDD active LED	
操作系统支持	Windows® 10 Pro 64 bit Windows® 10 IoT Ent LTSC 2019 64 bit Ubuntu 16.04 above	Windows® 7 (32/64-bit), Windows® 8/8.1 (64-bit) , Windows® 10 (64-bit)
供电方式		
电源模式	9-24V with 3-pin terminal block	9 - 36V with 3-pin terminal block
机构		
安装方式	Wallmount DIN Rail (Mounting kit is optional)	
尺寸 (W x H x D)	7.76” x 2.17” x 4.33” (197mm x 55mm x 110mm)	10.4” x 2.6” x 6.1” (264.2mm x 66.5mm x 156.2mm)
总重量	6.6 lb (2.8 kg)	7.7 lb (3.5 kg)
净重	4.4 lb (2 kg)	6.6 lb (3 kg)
环境		
工作温度	-4°F ~ 158°F (-20°C ~ 70°C) with W.T. SSD/HDD/mSATA (according to IEC682-14 with 0.5 m/s AirFlow; with industrial devices)	-4°F ~ 131°F (-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)	-49°F ~ 176°F (-45°C ~ 80°C)
存储湿度	95% @ 40°C, non-condensing	5~95% @ 40°C, non-condensing
抗振动	3 Grms/ 5 ~ 500Hz/ operation – mSATA/SSD 1 Grms/ 5~ 500Hz/ operation – HDD	2 Grms/ 5 ~ 500Hz/ operation –CFast™ card 1 Grms/ 5~ 500Hz/ operation – HDD
防冲击	—	
认证	CE/FCC class A	
备注	TAIWAN EXCELLENCE 2018	TAIWAN EXCELLENCE 2017

备注: 所有规格如有变更，恕不另行通知。


型号	BOXER-6639M	BOXER-6640
系统		
CPU	**7th Generation Intel® Core™ Processor family:** Intel® Core™ i7-7700T, 2.9 GHz Intel® Core™ i5-7500T, 2.8 GHz Intel® Core™ i3-7101TE, 3.4 GHz Intel® Pentium® G4600T, 3.0 GHz Intel® Pentium® G4560T, 2.9 GHz Intel® Celeron® G3930T, 2.7 GHz **6th Generation Intel® Core™ Processor family:** Intel® Core™ i7-6700TE, 2.4 GHz Intel® Core™ i5-6500TE, 2.3 GHz Intel® Core™ i3-6100TE, 2.7 GHz Intel® Pentium® G4500T, 3.0 GHz Intel® Pentium® G4400T, 2.9 GHz Intel® Celeron® G3900T, 2.6 GHz	Intel® Core™ i7-7700T, Quad Core, 2.9 GHz Intel® Core™ i5-7600T, Quad Core, 2.8 GHz Intel® Core™ i3-7300T, Dual Core, 3.5 GHz Intel® Core™ i7-6700TE, Quad Core, 2.4 GHz Intel® Core™ i5-6500TE, Quad Core, 2.3 GHz Intel® Core™ i3-6100TE, Dual Core, 2.7 GHz
芯片组	Intel® Q170	Intel® H110
系统内存	DDR4 1866/2133 SODIMM slot x 2, up to 32GB	DDR4 SODIMM socket (double deck) x 2 Supports 1866/2133MHz DDR4 and up to 32GB Supports un-buffered and ECC / non-ECC type SODIMM
显示接口	HDMI, VGA	VGA x 1, HDMI x 2 (Combo DP x 2) - A1 Sku VGA x 1 - A2 Sku
存储设备	CFast™, HDD/SSD	mSATA, SATA HDD/SSD
以太网	Intel® I210, 10/100/1000 Base-TX x 3	Intel® I211AT x 1, I219LM x 1
I/O	RS-232/422/485 x 6, USB Type A x 6 for USB 3.2 Gen 1, USB Type A x 2 for USB 2.0 RJ-45 x 3 for GbE LAN, RJ-45 x 4 for PoE (802.3at, max. 80W in total) DB-44 for 34-bit Digital I/O (5V), CFast™ slot x 1, SIM card slot x 1 Power On/Off Button x 1, 2 pin Remote power on/off, Reset switch Mic-in x 1, Line-out x 1, Antenna opening x 2, SYS LED indicator x 1, HDD LED indicator x 1, DB-15 x 1 for VGA, HDMI v1.3 x 2, DC-in 3-pin terminal block (12~36V)	2 pin Remote power on/off connector Audio x1 (MIC-in, Line-out) USB 2.0 x 3 DB-9 x 3 for RS-232 8-bit DIO DB-9 x 1 for RS-232/422/485 with auto flow control Power ON/OFF switch x 1 3 pin 9~36V DC Power input x 1 (+, - , GND) VGA x 1 HDMI x 2 (Combo DP x 2) USB 3.2 Gen 1 x 4 RJ-45 x 2 for GbE (i211AT x 1, i219LM x 1)
扩展	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini-Card x 1 (PCI-E + USB, Optional for mSATA and SIM Slot)	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini-Card x 1 (mSATA + USB) LPC x 1
指示灯	Power LED, HDD active LED	
操作系统支持	**7th Generation Intel® Core™ Processor family:** Windows® 10 IOT (64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above **6th Generation Intel® Core™ Processor family:** Windows® 10 IOT (64bit), Windows® 8.1 (64bit), Windows® Embedded 8 Standard (64bit), Windows® 7 (32/64bit), Windows® Embedded Standard 7 (32/64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above	Windows® 10 64-bit (Kabylake, Skylake CPU) Windows® 8.1 64-bit (Skylake CPU only) Windows® embedded 8 standard 64-bit (Skylake CPU only)
供电方式		
电源模式	12 - 36V with 3-pin terminal block	3-pin Phoenix DC Input 9~36V
机构		
安装方式	Wallmount	
尺寸 (W x H x D)	10.4” x 3.8” x 6.1” (264.2mm x 96.4mm x 154.2mm)	10.39” x 3.8” x 7.33” (264mm x 96.4mm x 186.2mm)
总重量	13.0 lb (5.9 kg)	12.76 lb (5.8 kg)
净重	8.8 lb (4.0 kg)	9.9 lb (4.5 kg)
环境		
工作温度	-13°F ~ 131°F (-25°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)	-4°F ~ 131°F (-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
存储温度	-49°F ~ 176°F (-45°C ~ 80°C)	
存储湿度	5~95% @ 40°C, non-condensing	
抗振动	5 Grms/ 5 ~ 500Hz/ operation – SSD/CFast™ card 1 Grms/ 5~ 500Hz/ operation – HDD	2 Grms/ 5 ~ 500Hz/ operation – SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
防冲击	—	
认证	CE/FCC class A	
备注		

紧凑型无风扇BOX PC解决方案

型号	BOXER-6641	BOXER-6641-PRO
系统		
CPU	Intel® Xeon® E-2124G (for A2 & A6 model only) Intel® i9-9900T Intel® i7-9700TE Intel® i7-8700T Intel® i5-8500T Intel® i3-8100T Pentium® G5400T Celeron® G4900T	Intel® i7-9700TE Intel® i7-8700T Intel® i5-8500T Intel® i3-8100T Pentium® G5400T Celeron® G4900T
芯片组	Intel® C246/H310	
系统内存	DDR4-2666 SO-DIMM slot x 2, Up to 64GB, ECC or Non-ECC Support	
显示接口	HDMI x 2	
存储设备	2.5" SATA HDD/SSD Bay x 1 (x 2 for A5 & A6 model, A6 supports RAID 0/1)	2.5" SATA HDD/SSD Bay x 2
以太网	Intel® i211 x 3, i219 x 1	
I/O	HDMI x 2 RJ-45 x 4 for GbE LAN (i211 x 3, i219 x 1) USB 3.2 Gen 1 x 4, USB2.0 x 4 (A1 & A5 model) USB 3.2 Gen 1 x 8 (A2 & A6 model) DB-9 x 6 for RS-232/422/485 Audio x 1 (MIC-in, Line-out) 3 pin 10~35V Power Input x 1 Power Button x 1 Remote Power switch x 1 Reset Button x 1 HDD LED x 1 SYS LED x 1	HDMI x 2 RJ-45 x 4 for GbE LAN (i211 x 3, i219 x 1) USB 3.2 Gen 1 x 4, USB2.0 x 4 (A1 model) USB 3.2 Gen 1 x 8 (A2 model) DB-9 x 6 for RS-232/422/485 10 pin Terminal Block for 8-bit DIO Audio x 1 (MIC-in, Line-out) 3 pin 10~35V Power Input x 1 Power Button x 1 Remote Power switch x 1 Reset Button x 1
扩展	Full-size Mini PCIe x 1 Full-size Mini PCIe x 1 (PCIe/mSATA switch by BIOS, Default: mSATA) SIM slot x 1	
指示灯	HDD LED x 1 SYS LED x 1	
操作系统支持	Windows® 10 64-bit Linux Ubuntu 20.04	Windows® 10 64-bit Linux Ubuntu 20.04.2
供电方式		
电源模式	3-pin DC Input 10~35V	
机构		
安装方式	Wallmount	
尺寸 (W x H x D)	10.4" x 3.19" x 6.15" (264.2mm x 80.92mm x 156.2mm)	
总重量	10.4 lb (4.7 kg)	
净重	8.2 lb (3.7 kg)	
环境		
工作温度	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow – with TDP ≦ 35W CPU -4°F ~ 113°F (-20°C ~ 45°C) with 0.5 m/s airflow – with TDP >35W CPU	-40°F ~ 158°F (-40°C ~ 70°C), according to IEC68-2-14 with 0.5 m/s AirFlow
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	2 Grms/ 5 ~ 500Hz/ operation – SSD/mSATA 1 Grms/ 5 ~ 500Hz/ operation – HDD	2 Grms/ 5 ~ 500Hz/ operation (with SSD)
防冲击	—	
认证	CE/FCC class A	
备注	TAIWAN EXCELLENCE 2021	

紧凑型无风扇BOX PC解决方案

型号	BOXER-6642-CML	BOXER-6643-TGU
系统		
CPU	Intel® Core™ i9-10900TE Intel® Core™ i7-10700TE Intel® Core™ i5-10500TE Intel® Core™ i3-10100TE Intel® Celeron® G5900TE	Intel® Core™ i7-1185G7E Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E
芯片组	Intel® Q470E	Intel® SoC
系统内存	DDR4 SO-DIMM x 2, up to 64GB	DDR4 3200MHz SO-DIMM x 2, max 64GB
显示接口	HDMI 1.4 x 1	HDMI 2.0 x 2
存储设备	M.2 2280 slot x 1 (PCIex4), 2.5" SATA SSD/HDD bay x 1	M.2 2280 M Key NVMe Slot x1 (PCIex4) 2.5" SATA Drive Bay x1
以太网	Intel® i211-AT x 1, i219-LM x 1	RJ-45 x 2 for 1G/2.5GbE LAN (i219x1, i225x1)
I/O	HDMI x 1 RJ-45 x 2 for GbE LAN (i211-AT x 1, i219-LM x 1) USB 3.2 Gen 2 x 4 USB 2.0 x 2 DB-9 x 4 for RS-232/422/485 DB15 x 1 for 8 channel DIO Line out x 1 3 pin 10~35V Power Input x 1 Power Button with LED x 1	HDMI 2.0 x 2 RJ-45 x 2 for 1G/2.5GbE LAN (i219 x 1, i225 x 1) USB Type-A x3 for USB3.2 Gen2 USB Type-A x1 for USB 2.0 DB-9 x 2 for RS-232/422/485 DB15 x1 Male for Digital I/O 8-channel Line out x 1 3 pin 9~36V Power Input x 1 Power Button with LED x 1
扩展	M.2 2230 E Key x 1 M.2 2280 M Key x 1 Full-Size Mini Card x1 (mSATA/PCIe switch by BIOS, default PCIe) SIM x 1	M.2 3052 B Key x 1 (for 5G module) Full-Size Minicard x1 (PCIe + USB / SATA, Default PCIe + USB) SIM Slot x 1
指示灯	Power LED	Power / System LED
操作系统支持	Windows® 10 IoT Enterprise 64-bit Linux Ubuntu 20.04.2	Windows® 10 IoT 64-bit Windows® 11 Pro 64-bit Linux Ubuntu 20.04.2
供电方式		
电源模式	10-35V DC-in with 3-pin terminal block	DC-in 9-36V x1 for 3-pin Terminal Block
机构		
安装方式	Wallmount	
尺寸 (W x H x D)	11.58" x 5.98" x 2.11" (292.4mm x 152mm x 53.5mm)	9.84” x 5.62” x 2.03” (250 x 143 x 51.5) with bracket 7.87” x 5.62” x 1.75” (200 x 143 x 44.5) w/o bracket
总重量	8.4lb (3.8kg)	4.4 lb (2.0 kg)
净重	6.2lb (2.8kg)	3.3 lb (1.5 kg)
环境		
工作温度	32°F ~ 113°F (0°C ~ 45°C) (35W CPU), according to IEC68-2-14 with 0.5 m/s AirFlow	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	2 Grms/5 ~ 500Hz/operation (with SSD)	3 Grms/ 5 ~ 500Hz/ operation (with SSD)
防冲击	50G peak acceleration (11msec) (with SSD)	50G, IEC 68-2-27, half sine, 11 ms duration (with SSD)
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

紧凑型无风扇BOX PC解决方案

型号	BOXER-6645-ADS	BOXER-6646-ADP
系统		
CPU	i9-12900E i7-12700TE i7-12700E i5-12500TE i5-12500E i3-12100TE i3-12100E G6900TE G6900E	Intel® Core™ i7-1270PE Intel® Core™ i5-1250PE Intel® Core™ i3-1220PE
芯片组	Intel H610E/Q670E	Intel® System on Chip
系统内存	DDR5 4800MHz Slot x2, max up to 64GB	DDR5 SODIMM slot x 2
显示接口	HDMI Type A x2 for HDMI 1.4b DisplayPort x2 for DP1.4a	HDMI x2, Display Port x 2
存储设备	2.5” SATA-III Drive Bay x 2 (A2 sku supports RAID 0/1) M.2 2280 M key for NVMe SSD x 1 (extra heatsink is needed, refer to optional accessories) (A2 sku only)	Removable 2.5" SATA Drive Bay x 1 M.2 2280 M Key NVMe Slot x 1
以太网	Intel® I210AT, 10/100/1000 Base-TX x 2 Intel® I219LM, 10/100/1000 Base-TX x 1 Intel® I226LM, 2.5GbE Base-TX x 1	RJ-45 x 2 for 2.5GbE LAN i225-LM x 2 RJ-45 x 1 for GbE LAN i219-LM x 1
I/O	USB 3.2 Gen2 5Gbps x 4 (A1 sku) USB 3.2 Gen2 10Gbps x 8 (A2 sku) USB2.0 x 4 (A1 sku) Audio x 1 (MIC-in, Line-out) DB-9 x 6 for RS-232/422/485 SMA Antenna Hole x6 DIO x 8	USB Type-A x 3 for USB3.2 Gen2 (10Gbps) USB Type-A x 3 for USB 2.0 DB-9 x 4 for RS-232/422/485 Line out SMA Antenna Holes x 6 DB-9 for DIO 8 bit x 1 Power Button with LED indicator x 1 Remote Power on/off 2pin connector x 1
扩展	M.2 2230 E-Key x 1 for WiFi module M.2 3052 B-Key x 1 for 4G / 5G module	M.2 E key 2230 x 1 M.2 B Key 3052 x 1 (for 5G/LTE module)
指示灯	System LED x 1 HDD LED x 1	System Power LED x 1
操作系统支持	Windows® 10 IoT Enterprise 64-bit Windows® 11 PRO 64-bit Linux Ubuntu 20.04 (Kernel 15.5 or above)	Windows® 10 IoT Ent LTSC, Windows® 11 PRO, Ubuntu 22.04
供电方式		
电源模式	3-pin DC Input 12~24V	DC-in 10~35V in 3pin Terminal block connector
机构		
安装方式	Wallmount	
尺寸 (W x H x D)	10.39" x 3.8" x 7.33" (264mm x 80.92mm x 186.2mm)	8.66”x 6.06” x 2.42” (220 mm x 154 mm x 61.6 mm)
总重量	11.7 lb (5.3 kg)	6.6 lbs. (3.0 kg)
净重	9.5 lb (4.3 kg)	4.9 lbs. (2.2 kg)
环境		
工作温度	-4°F ~122°F (-20°C ~ 50°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory / Storage (TDP 65W CPU) -4°F ~140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory (Max. 32G)/ Storage (TDP 35W CPU)	-4°F ~140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow, with wide temperature Memory/Storage
存储温度	-40°F ~176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	3 Grms/ 5 ~ 500Hz/ operation – SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD	SSD: Random, 3Grms, 5~500Hz
防冲击	50G, IEC68-2-27, half sine, 11ms duration (with SSD)	SSD: 50G @ wallmount, Half-sine, 11ms
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

第一季度推出

型号	BOXER-6617-ADN
系统	
CPU	Intel® Pentium®/Celeron®/Atom® Processor (formerly codenamed ADL-N)
芯片组	Intel® SoC
系统内存	DDR5 4800 MT/s SO-DIMM slot x 1, up to 32GB
显示接口	HDMI x 2 (Support 4K @60Hz)
存储设备	M.2 2280 M Key Slot x1 (PCIex2) 2.5" SATA HDD/SSD x1
以太网	RJ-45 x 2 for 2.5GbE LAN (Intel® I226)
I/O	HDMI x 2 RJ-45 x 2 for 2.5GbE LAN (Intel® I226) USB Type-A x2 for USB3.2 Gen2 USB Type-A x4 for USB 2.0 DB-9 x6 for RS-232/422/485 Mic-in/Line-out 10pin Terminal Block x1 for Digital I/O 8-channel 3pin Terminal Block for DC in x 1 2pin Remote On/Off x 1 Reset Button x 1 Power Button with LED x 1
扩展	M.2 2280 M Key x 1 (PCIex2 for Storage) M.2 2230 E Key x 1 (for WiFi) M.2 3052 B Key x 1 (for 5G/LTE) SIM Slot x 1
指示灯	Sys LED Storage active LED
操作系统支持	Windows® 10 IoT Enterprise Windows® 10 Pro Linux Ubuntu 22.04
供电方式	
电源模式	DC-in 9-36V x1 for 3-pin Terminal Block
机构	
安装方式	Wall Mount
尺寸 (W x H x D)	TBD
总重量	TBD
净重	TBD
环境	
工作温度	-4°F ~ 158°F (-20°C ~ 70°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)
存储湿度	5 ~ 95% @ 40°C, non-condensing
抗振动	3 Grms/ 5 ~ 500Hz/ operation (with SSD)
防冲击	50G, IEC 68-2-27, half sine, 11 ms duration (with SSD)
认证	CE/FCC class A
备注	

超薄型无风扇BOX PC解决方案

型号	BOXER-6404U	BOXER-6404
系统		
CPU	Intel® Celeron® J1900, 2.0 GHz Intel® Celeron® N2807, 1.58 GHz	
芯片组	Intel® System on Chip	
系统内存	DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900) or 4 GB (N2807)	
显示接口	VGA	HDMI (max. 1920 x 1080)
存储设备	mSATA, HDD/SSD	CFast™
以太网	Intel® I211-AT x 2	Intel® I210AT, 10/100/1000Base-TX x 4
I/O	RS-232 x 1 USB 2.0 x 1 USB 3.2 Gen 1 x 1 VGA x 1 LAN x 2 Digital I/O x 8 bit Antenna holes x 3 Power switch Power input	RS-232 x 1 USB 2.0 x 2 USB 3.2 Gen 1 x 1 HDMI x 2 LAN x 4 CFast slot x 1 Antenna holes x 1 Power button Power input
扩展	Full-size Mini-Card x 1 Half Mini-Card x 1 (for mSATA) SIM card slot x 1	Full-size Mini-Card (USB interface only) x 1
指示灯	Power LED HDD active LED	Power LED on power button
操作系统支持	Windows® 10, Windows® 8.1, Windows® 7, Windows® Embedded 8, Windows® Embedded 7, Linux Fedora	
供电方式		
电源模式	12 - 24V with 3-pin terminal block	12V - 24V with lockable DC jack
机构		
安装方式	Wallmount VESA (Mounting kit is optional) DIN rail (Mounting kit is optional)	VESA (Mounting kit is optional) DIN rail (Mounting kit is optional)
尺寸 (W x H x D)	6.53” x 4.20” x 1.63” (166 mm x 106.6 mm x 41.5 mm)	6.53” x 4.20” x 1.18” (166 mm x 106.6 mm x 30 mm)
总重量	3.6 lb (1.6 kg)	2.9 lb (1.3 kg)
净重	1.76 lb (0.8 kg)	1.9 lb (0.86 kg)
环境		
工作温度	-13°F ~ 140°F (-25°C ~ 60°C) with wide temperature HDD/ mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)	-22°F ~ 149°F (-30°C ~ 65°C) with wide temperature CFast™ card (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
存储温度	-22°F ~ 176°F (-30°C ~ 80°C)	
存储湿度	95% @ 40°C, non-condensing	
抗振动	5 Grms/ 5 ~ 500Hz/ operation –mSATA	5 Grms/ 5 ~ 500Hz/ operation –CFast™ card
防冲击	—	
认证	CE/FCC class A	
备注		

超薄型无风扇BOX PC解决方案

型号	BOXER-6404WT	BOXER-6404M
系统		
CPU	Intel® Celeron® J1900, 2.0 GHz Intel® Celeron® N2807, 1.58 GHz	
芯片组	Intel® System on Chip	
系统内存	DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900) or 4 GB (N2807)	
显示接口	HDMI	
存储设备	CFast™	CFast™, HDD/SSD
以太网	Intel® I210AT, 10/100/1000Base-TX x 4	
I/O	RS-232 x 1 USB 2.0 x 2 USB 3.2 Gen 1 x 1 HDMI x 2 LAN x 4 CFast™ slot x 1 Antenna hole x 1 Power button Power input	
扩展	Full-size Mini-Card (USB interface only) x 1	
指示灯	Power LED on power button	
操作系统支持	Windows® 10, Windows® 8.1, Windows® 7, Windows® Embedded 8, Windows® Embedded 7, Linux Fedora	
供电方式		
电源模式	12V - 24V with lockable DC jack	
机构		
安装方式	VESA (Mounting kit is optional) DIN rail (Mounting kit is optional)	
尺寸 (W x H x D)	6.53” x 4.20” x 1.59” (166mm x 106.6mm x 40.5mm)	6.53” x 4.20” x 2.05” (166mm x 106.6mm x 52mm)
总重量	3.59 lb (1.63 kg)	3.81 lb (1.73 kg)
净重	2.6 lb (1.17 kg)	2.8 lb (1.27 kg)
环境		
工作温度	-22°F ~ 167°F (-30°C ~ 75°C) with wide temperature CFast™ card (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)	
存储温度	-22°F ~ 176°F (-30°C ~ 80°C)	
存储湿度	95% @ 40°C, non-condensing	
抗振动	5 Grms/ 5 ~ 500Hz/ operation –CFast™ card	5 Grms/ 5 ~ 500Hz/ operation –CFast™ card or SSD 1 Grms/ 5 ~ 500Hz/ operation –HDD
防冲击	—	
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

超薄型无风扇BOX PC解决方案

型号	BOXER-6405	BOXER-6405M
系统		
CPU	Intel® Celeron®/Pentium® processor	
芯片组	Intel® System on Chip	
系统内存	DDR3L SODIMM slot x 1 Supports 1867 MHz and up to 8GB	
显示接口	HDMI (max. 1920 x 1080)	HDMI type A x 1 for HDMI v1.4b VGA x 1
存储设备	mSATA	HDD/SSD, (mSATA BOM option)
以太网	Intel® i211-AT x 2	
I/O	Power Button x 1 USB Type A x 4 for USB 3.2 Gen 1 HDMI type A x 1 for HDMI v1.4b RJ-45 x 2 for GbE LAN with LED indicator (i211-AT x 2) Power input x 1 3-pin terminal block in default (+, - , GND) Co-layout 3-pin terminal block & lockable DC-in jack,) Co-layout internal DC Mic-in x 1, Line-out x 1 RS-232/422/485 x 3 with automatic flow control (switch by BIOS) VGA x 1 Remote On/Off Antenna opening x 2 DC-in 3-pin terminal block(9~24V) x 1	Power Button x 1 USB Type A x 4 for USB 3.2 Gen 1 HDMI type A x 1 for HDMI v1.4b RJ-45 x 2 for GbE LAN with LED indicator (i211-AT x 2) Power input x 1 3-pin terminal block in default (+, - , GND) Co-layout 3-pin terminal block & lockable DC-in jack,) Co-layout internal DC Mic-in x 1, Line-out x 1 RS-232/422/485 x 4 with automatic flow control (switch by BIOS) VGA x 1 Remote On/Off Antenna opening x 2
扩展	Full-size Mini PCIe slot x 1 (PCIe/USB/SIM slot), one screw Half-size Minicard slot x 1 (mSATA only)	Full-size Mini PCIe slot x 1 (PCIe/USB/SIM slot), one screw Half-size Minicard slot x 1 (optional for mSATA,PCIE/mSATA)
指示灯	Power LED x1, HDD active LED x1	
操作系统支持	Windows® 10, Windows® 10 IoT, Linux	
供电方式		
电源模式	9-24V with 3-pin terminal block	3-pin Phoenix DC Input 9~24V without power protection
机构		
安装方式	Wallmount	
尺寸 (W x H x D)	6.54” x 4.2” x 1.45” (166mm x 106.6mm x 37mm)	6.54” x 4.2” x 1.65” (166mm x 106.6mm x 42mm)
总重量	3.6 lb (1.6kg)	
净重	1.76 lb (0.8 kg)	1.7 lb (0.8 kg)
环境		
工作温度	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial decives)	
存储温度	-22°F ~ 140°F (-30°C ~ 60°C)	
存储湿度	95% @ 40°C, non-condensing	
抗振动	3 Grms/ 5 ~ 500Hz/ operation – mSATA 1 Grms/ 5 ~ 500Hz/ operation - HDD	
防冲击	—	
认证	CE/FCC class A	
备注		

超薄型无风扇BOX PC解决方案

第一季度推出

型号	BOXER-6406-ADN	BOXER-6450-TGU
系统		
CPU	Intel® Pentium®/Celeron®/Atom® Processor (formerly codenamed ADL-N)	Intel® Core™ i7-1185G7E, 1.80 GHz Intel® Core™ i5-1145G7E, 1.50 GHz Intel® Core™ i3-1115G4E, 2.20 GHz Intel® Celeron® 6305E Processor,1.80 GHz
芯片组	Intel® SoC	Intel® System on Chip
系统内存	DDR5 4800 MT/s SO-DIMM slot x 1, up to 32GB	LPDDR4x max 3200 MHz on board memory. Default 4GB or 8GB, max. up to 32GB by customization
显示接口	HDMI x1 / Display Port x 1	HDMI2.0b x 1, 4Kx2K 60Hz
存储设备	M.2 2280 M Key Slot x 1 (PCIex2) 2.5" SATA HDD/SSD x 1	2.5” SATA Drive Bay x 1 Full-size Minicard x 1 for mSATA (optional) M.2 2280 NVMe Slot x 1
以太网	RJ-45 x 2 for 2.5GbE LAN (Intel® I226)	RJ-45 x 1 for 2.5GbE LAN i225-LM x 1 RJ-45 x 1 for GbE LAN i219-LM x 1
I/O	HDMI x1 / Display Port x 1 RJ-45 x 2 for 2.5GbE LAN (Intel® I226) USB Type-A x2 for USB3.2 Gen2 USB Type-A x2 for USB 2.0 DB-9 x3 for RS-232/422/485 DB15 x1 Male for Digital I/O 8-channel 3pin Terminal Block for DC in x 1 Power Button with LED x 1	USB Type-A x 2 for USB3.2 Gen2 USB Type-A x 4 for USB 2.0 DB-9 x 2 for RS-232/422/485 SMA Antenna Holes x 2 DB-9 for DIO 4 bit x 1 Power Button x 1
扩展	M.2 2280 M Key x 1 (PCIex2) M.2 2230 E Key x 1 Full-Size Minicard x 1 (PCIe + USB) SIM Slot x 1	M.2 M key 2280 x 1 (PCIE + SATA, PCIE Gen4 default) Full-size Minicard x 1 (PCIE + USB + SATA)
指示灯	—	System Power LED x 1 (Green)
操作系统支持	Windows® 10 IoT Enterprise Windows® 10 Pro Linux Ubuntu 22.04	Windows® 10, Windows® 10 IoT, Ubuntu 20.04.2
供电方式		
电源模式	DC-in 9-36V x1 for 3-pin Terminal Block	DC-in 12V x 1 for Lockable DC Jack
机构		
安装方式	Wallmount	
尺寸 (W x H x D)	TBD	6.54”x 4.65” x 2.2” (166 mm x 118 mm x 56 mm)
总重量	TBD	3,3 lb (1.5Kg)
净重	TBD	2.20 lb (1Kg)
环境		
工作温度	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)	14°F ~131°F (-10°C ~ 55°C), IEC68-2 with 0.5 m/s AirFlow (Turbo boost off)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	3 Grms/ 5 ~ 500Hz/ operation (with SSD)	SSD: Random, 3.5Grms, 5~500Hz
防冲击	50G, IEC 68-2-27, half sine, 11 ms duration (with SSD)	SSD: 50G @ wallmount, Half-sine, 11ms
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

超薄型无风扇BOX PC解决方案

型号	BOXER-6451-ADP
系统	
CPU	Intel® Core™ i7-1265UE Intel® Core™ i5-1245UE Intel® Core™ i3-1215UE Intel® Celeron® 7305E
芯片组	Intel® SoC
系统内存	DDR4 SODIMM x1, up to 32GB
显示接口	HDMI Type A x 2 for HDMI 1.4b
存储设备	2.5" SATA-III Drive Bay x1 M.2 2280 M Key x1 (PCIEx4)
以太网	RJ-45 x 1 for 2.5GbE LAN i226-LM x 1 RJ-45 x 1 for GbE LAN i219-LM x 1
I/O	USB Type-A x 3 for USB3.2 Gen2 USB Type-A x 1 for USB 2.0 DB-9 x 4 for RS-232/422/485 HDMI x2 for HDMI 1.4b Power Button x 1 DC Jack 12V input Antenna opening x 6
扩展	M.2 E-Key 2230 x1 (For WiFi/Bluetooth Module) M.2 B-Key 3052 x1 w/ SIM (For LTE/5G Module) M.2 M-Key 2280 NVMe x1
指示灯	Power Button with LED
操作系统支持	Windows® 10 IoT Ent LTSC Windows® 11 PRO Ubuntu 22.04
供电方式	
电源模式	DC-in 12V x 1 for Lockable DC Jack
机构	
安装方式	Wallmount
尺寸 (W x H x D)	7.68" x 4.37" x 2.5" (195 mm x 111 mm x 63.5 mm) w/o bracket
总重量	4.4 lb (2Kg)
净重	3.3 lb (1.5Kg)
环境	
工作温度	-4°F ~140°F (-20°C ~ 60°C), IEC68-2 with 0.5 m/s AirFlow with wide temperature Memory/Storage
存储温度	-40˚F ~ 176˚F (-40˚C ~ 80˚C)
存储湿度	5 ~ 95% @ 40˚C, non-condensing
抗振动	SSD: Random, 3Grms, 5~500Hz
防冲击	SSD: 50G @ wallmount, Half-sine, 11ms
认证	CE/FCC class A
备注	

第一季度推出

型号	BOXER-6750	BOXER-6711-ADN	BOXER-6710
系统			
CPU	Intel® Core™ i3-6100U Intel® Celeron® 3955U Intel® Core™ i3-7100U Intel® Core™ i5-7300U	Intel® Pentium®/Celeron®/Atom® Processor (formerly codenamed ADL-N)	Intel® Pentium® processor N4200 Intel® Celeron® processor N3350
芯片组	Intel® System on Chip	Intel® SoC	Intel® System on Chip
系统内存	DDR4 2133MHz SODIMM slot x 1, up to 16GB	DDR5 4800 MT/s SO-DIMM slot x 1, up to 32GB	DDR3L 1866 SODIMM slot x 1, up to 8GB
显示接口	HDMI x 1, VGA x 1	HDMI x 1 / Display Port x 1	HDMI, VGA
存储设备	mSATA, HDD/SSD	M.2 2280 M Key Slot x1 (PCIex2) 2.5” SATA HDD/SSD x1	HDD/SSD, optional mSATA
以太网	Intel® i211-AT x 2		
I/O	RS-232/422/485 x 4 RJ-45 x 2 for GbE (i211AT x 2) USB 3.2 Gen 1 x 4 VGA x 1 HDMI x 1 Antenna Holes x 2 Power Switch Power Input	HDMI x1 / Display Port x 1 RJ-45 x 2 for 2.5GbE LAN (Intel® I226) USB Type-A x2 for USB3.2 Gen2 USB Type-A x2 for USB 2.0 DB-9 x2 for RS-232/422/485 3pin Terminal Block for DC in x 1 Power Button with LED x 1	VGA x 1 HDMI x 1 RJ-45 x 2 for GbE LAN USB Type A x 4 for USB 3.2 Gen 1 Mic-in x 1 Line-out x 1 RS-232/422/485 x 3 with automatic flow control Power On/Off Button x 1 DC-in 3-pin terminal block (9~24V) x 1
扩展	Full-size minicard x 1 (PCIe+USB with SIM slot, optional for mSATA) Full-size minicard x 1 (PCIe+USB)	M.2 2280 M Key x 1 (PCIex2) M.2 2230 E Key x 1 Full-Size Minicard x1 (PCIe + USB) SIM Slot x 1	Full-size Minicard x 1 w/ SIM Slot Half-size Minicard x 1 (optional for mSATA)
指示灯	Power LED on power button	—	Power LED on power button
操作系统支持	Windows® 10 (64-bit) Windows® 8.1 (64-bit) Windows® 7 (32/64-bit) Linux	Windows® 10 IoT Enterprise Windows® 10 Pro Linux Ubuntu 22.04	Windows® 10 (64-bit) Windows® 10 IoT (64-bit) Linux Ubuntu 16.04.4
供电方式			
电源模式	9 - 30V with 3-pin terminal block	DC-in 9-36V x1 for 3-pin Terminal Block	9 - 24V with 3-pin terminal block
机构			
安装方式	DIN Rail Mount Wallmount (Monting kit is optional)	Wall Mount	DIN Rail Mount
尺寸 (W x H x D)	2.72” x 7.2” x 6.1” (69mm x 183mm x 155mm)	TBD	1.73” x 6.54” x 4.17” (44mm x 166mm x 106mm)
总重量	6.1 lb (2.8kg)	TBD	3.08lb (1.4kg)
净重	3.9 lb (1.8kg)	TBD	1.32lb (0.6kg)
环境			
工作温度	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)	-4°F ~ 140°F (-20°C ~ 60°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
存储温度	-49°F ~ 176°F (-45°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)
存储湿度	95% @ 40°C, non-condensing	5 ~ 95% @ 40°C, non-condensing	95% @ 40°C, non-condensing
抗振动	3 Grms/ 5 ~ 500Hz/ operation – mSATA/ SSD 1 Grms/ 5~ 500Hz/ operation – HDD	3 Grms/ 5 ~ 500Hz/ operation (with SSD)	3 Grms/ 5 ~ 500Hz/ operation – mSATA/ SSD 1 Grms/ 5~ 500Hz/ operation – HDD
认证	CE/FCC class A		
备注			

可扩展无风扇BOX PC解决方案

型号	BOXER-6839	BOXER-6839-CFL
系统		
CPU	7th Generation Intel® Core™ Processor family: Intel® Core™ i7-7700T, 2.9 GHz, Intel® Core™ i5-7500T, 2.8 GHz, Intel® Core™ i3-7101TE, 3.4 GHz, Intel® Pentium® G4600T, 3.0 GHz Intel® Pentium® G4560T, 2.9 GHz, Intel® Celeron® G3930T, 2.7 GHz 6th Generation Intel® Core™ Processor family: Intel® Core™ i7-6700TE, 2.4 GHz, Intel® Core™ i5-6500TE, 2.3 GHz Intel® Core™ i3-6100TE, 2.7 GHz, Intel® Pentium® G4500T, 3.0 GHz Intel® Pentium® G4400T, 2.9 GHz, Intel® Celeron® G3900T, 2.6 GHz	Intel® Xeon® E-2124G Intel® i9-9900T Intel® i7-9700TE Intel® i7-8700T Intel® i5-8500T Intel® i3-8100T Pentium® G5400T Celeron® G4900T
芯片组	Intel® Q170	C246
系统内存	DDR4 1866/2133 SODIMM slot x 2, up to 32GB	DDR4-2666 SO-DIMM slot x 2 Up to 64GB, ECC or Non-ECC Support
显示接口	HDMI, VGA	HDMI x 2
存储设备	CFast™, HDD/SSD	2.5" SATA HDD/SSD Bay x 2
以太网	Intel® I210, 10/100/1000 Base-TX x 3	RJ-45 x 4 for GbE LAN (i211-AT x 3, i219-LM x 1)
I/O	RS-232/422/485 x 6 USB Type A x 6 for USB 3.2 Gen 1 USB Type A x 2 for USB 2.0 RJ-45 x 3 for GbE LAN DB-44 for 34-bit Digital I/O (5V) CFast™ slot x 1 SIM card slot x 1 Power On/Off Button x 1 2 pin Remote power on/off Reset switch Mic-in x 1 Line-out x 1 Antenna opening x 2 SYS LED indicator x 1 HDD LED indicator x 1 DB-15 x 1 for VGA HDMI v1.3 x 2 DC-in 3-pin terminal block (9~36V)	HDMI x 2 RJ-45 x 4 for GbE LAN (i211 x 3, i219 x 1) USB 3.2 Gen 1 x 8 DB-9 x 6 for RS-232/422/485 Audio x 1 (MIC-in, Line-out) DB-15 for DIO 8 bit x 1 3 pin 10~35V Power Input x 1 Power Button x 1 Remote Power switch x 1 Reset Button x 1
扩展	Full-size Mini-Card x 2 PCIe [x4] x 1 & PCIe [x1] x 1 (for A1) PCIe [x4] x 1 & PCI x 1 (for A2) PCI x 2 (for A3)	Full-size Mini card x 1 (PCIe) Full-size Mini card x 1 ((PCIe/mSATA switch by BIOS, Default: mSATA) SIM slot x 1 PCIE slot : Riser card type 1: PCIe[x4] slot x 1 & PCIe[x1] x 1 (A1) Riser card type 2: PCIe[x4] slot x 1 & PCI x 1 (A2) Riser card type 3: PCI x 2 (A3) Max. size of expansion card 150 x 105 x 40 mm
指示灯	Power LED HDD active LED	HDD LED x 1 System LED x 1
操作系统支持	7th Generation Intel® Core™ Processor family: Windows® 10 IOT (64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above 6th Generation Intel® Core™ Processor family: Windows® 10 IOT (64bit), Windows® 8.1 (64bit), Windows® embedded 8 standard (64bit), Windows® 7 (64bit/32bit), Windows® embedded standard 7 (32/64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above	Windows® 10 64-bit, Linux Ubuntu 20.04
供电方式		
电源模式	9 - 36V with 3-pin terminal block	3-pin Phoenix DC Input 10~35V
机构		
安装	Wallmount	
尺寸 (W x H x D)	10.40" x 4.90" x 6.15" (264.2mm x 124.5mm x 156.2mm)	264mm x 156mm x 125mm
总重量	13.2 lb (6.0 kg)	
净重	9.9 lb (4.5 kg)	
环境		
工作温度	-4°F ~ 131°F (-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)	-4°F~131°F (-20°C ~ 55°C) with 0.5 m/s airflow (with TDP ≦ 35W CPU) -4°F~113°F (-20°C ~45°C) with 0.5 m/s airflow (with TDP > 35W CPU)
存储温度	-49°F ~ 176°F (-45°C ~ 80°C)	
存储湿度	5~95% @ 40°C, non-condensing	
抗振动	5 Grms/ 5 ~ 500Hz/ operation – SSD/CFast™ card 1 Grms/ 5~ 500Hz/ operation – HDD	5 Grms/ 5 ~ 500Hz/ operation –SSD
防冲击	—	SSD: 50G @ wallmount, Half-sine, 11ms
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	BOXER-6840-CFL	BOXER-6841M-A1
系统		
CPU	Intel® Xeon® E-2124G Intel® Core™ i9-9900T Intel® Core™ i7-8700T Intel® Core™ i5-8500T Intel® Core™ i3-8100T Intel® Pentium® G5400T Intel® Celeron® G4900T Note: Support max. TPD 71W Processor	6th / 7th Generation Intel® Core™-i desktop Processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz
芯片组	C246, No H310 downward support	Intel® H110 PCH
系统内存	DDR4 SO-DIMM socket x4 (double deck) Support max. 2666MHz up to 128GB Support un-buffered and ECC / non-ECC type SODIMM	DDR4 ECC or Non-ECC SODIMM, up to 32GB
显示接口	HDMI 1.4 x2 Support Dual Independent Display, 4K Ultra HD displays	HDMI type A x 2 for HDMI v1.4b
存储设备	2.5" SATA Drive Bay x2 (4 SATA Port w/ RAID Function) Half-size Minicard x1 for mSATA (optional) M.2 2280 NVMe slot x1	2.5" Drive Bay x 2
以太网	RJ-45 x3 for GbE LAN (Intel i211AT x2, i219LM x1)	RJ-45 x 5 for GbE (Intel i211AT x 4, i219LM x 1)
I/O	USB Type-A x6 for USB3.2 Gen1 DB9 x4 For RS-232/422/485 Mic-in x1, Line-out x1 Power ON/OFF switch x1 Remote power on/off connector x1 Reset switch x1 SMA Antenna Holes x3	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, - , GND)
扩展	Full-size Minicard x1 (PCIE + USB with 1 SIM Slot) Half-size Minicard x1 (PCIE + USB, optional for mSATA) M.2 M key (2280) x1 (PCIEx4) PCIE [x4] x1 PCIE [x16] x1 - Max. Power Consumption of GPU card 250W - Max. Size of GPU card 250mm x 125mm x 20mm Note: If the GPU card dimension is 250mm x 125mm x 40mm, we can change the riser card inside to support.	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 180W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)
指示灯	System Power LED x1 (Green) Storage Active LED x1 (Red)	Power LED x 1, HDD active LED x 1
操作系统支持	Windows® 10 Enterprise 64 bit Ubuntu 20.04.1/Kernel 5.4	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8 .1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
供电方式		
电源模式	DC In 12~24V x1 for 3-pin Terminal block	DC-In 12~24V - CPU < 65W, No Graphic Card: 120W Adapter - CPU ≤ 65W, 180W Graphic Card: 330W Adapter
机构		
安装	Wallmount	
尺寸 (W x H x D)	8.66" x 5.91" x 12.6" (220 mm x 150 mm x 320 mm)	6.10" x 7.87" x 15.75" (155mm x 200mm x 400mm)
总重量	17.64 lb (8 kg)	18.29 lb (8.3 Kg)
净重	15.43 lb (7 kg)	14.53 lb (7 Kg)
环境		
工作温度	-4°F~140°F (-20°C ~ 60°C) IEC68-2 with 0.5 m/s AirFlow	-4°F ~ 131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor)
存储温度	-49°F ~ 176°F (-45°C ~ 80°C)	-4°F ~ 176°F (-40°C ~ 80°C)
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	SSD: Random, 1Grm,5~500Hz	Random, 1 Grms, 5~500Hz, Anti-vibration design
防冲击	SSD: 50G @ wallmount, Half-sine, 11ms	—
认证	CE/FCC class A , UKCA	CE/FCC class A
备注		

备注: 所有规格如有变更，恕不另行通知。

可扩展无风扇BOX PC解决方案

型号	BOXER-6841M-A2	BOXER-6841M-A3
系统		
CPU	6th / 7th Generation Intel® Core™-i desktop Processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz
芯片组	Intel® H110 PCH	Intel® C236 PCH
系统内存	DDR4 ECC or Non-ECC SODIMM, up to 32GB	
显示接口	HDMI type A x 2 for HDMI v1.4b	
存储设备	2.5" Drive Bay x 2	
以太网	RJ-45 x 5 for GbE (Intel® i211AT x 4, i219LM x 1)	
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, - , GND)	
扩展	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 250W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 180W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)
指示灯	Power LED x 1, HDD active LED x 1	
操作系统支持	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8 .1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2	
供电方式		
电源模式	DC-In 12~24V For System power, 12V only for Graphic Card - CPU < 65W, No Graphic Card: 120W Adapter - CPU ≤ 65W, 180W < Graphic Card < 250W: 240W Adapter x 2	DC-In 12~24V - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 180W Graphic Card: 330W Adapter
机构		
安装	Wallmount	
尺寸 (W x H x D)	6.10" x 7.87" x 15.75" (155mm x 200mm x 400mm)	
总重量	18.29 lb (8.3 Kg)	
净重	14.53 lb (7 Kg)	
环境		
工作温度	-4°F ~ 131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor)	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)
存储温度	-4°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	Random, 1 Grms, 5~500Hz, Anti-vibration design	
防冲击	—	
认证	CE/FCC class A	
备注		

备注: 所有规格如有变更，恕不另行通知。

可扩展无风扇BOX PC解决方案


型号	BOXER-6841M-A4	BOXER-6841M-A5
系统		
CPU	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz	
芯片组	Intel® C236 PCH	
系统内存	DDR4 ECC or Non-ECC SODIMM, up to 32GB	
显示接口	HDMI type A x 2 for HDMI v1.4b	
存储设备	2.5” Drive Bay x 2	
以太网	RJ-45 x 5 for GbE (Intel i211AT x4, i219LM x 1)	
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, - , GND)	
扩展	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 250W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x8] x 2 Extension card size limit: 114.55mm(H) x 192mm (L) PCIe [x1] x 1
指示灯	Power LED x1, HDD active LED x1	
操作系统支持	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8 .1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2	
供电方式		
电源模式	DC-In 12~24V For System Power, 12V only for Graphic Card - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 250W Graphic Card: 240W Adapter x 2	DC-In 12~24V - CPU = 35W: 120W Adapter - 35W < CPU ≤ 73W: 240W Adapter
机构		
安装	Wallmount	
尺寸 (W x H x D)	6.10” x 7.87” x 15.75” (155mm x 200mm x 400mm)	6.10” x 7.87” x 10.24” (155mm x 200mm x 260mm)
总重量	18.29 lb (8.3 Kg)	12.75 lb (5.8 kg)
净重	14.53 lb (7 Kg)	9.9 lb (4.5 Kg)
环境		
工作温度	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)	
存储温度	-4°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	Random, 1Grm, 5~500Hz, Anti-vibration design	
防冲击	—	
认证	CE/FCC class A	
备注		

型号	BOXER-6841M-A6	BOXER-6841M-A7
系统		
CPU	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz	
芯片组	Intel® C236 PCH	
系统内存	DDR4 ECC or Non-ECC SODIMM, up to 32GB	
显示接口	HDMI type A x 2 for HDMI v1.4b VGA x 1	HDMI 1.4b
存储设备	2.5" Drive Bay x 2	
以太网	RJ-45 x 5 for GbE (Intel® i211AT x4, i219LM x1)	
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 VGA x 1 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 DB-9 x 4 for RS-232 3 pin DC Power input x 1 (+, - , GND)	Audio x 2 (MIC-in, Line-out) RJ-45 x 5 for GbE LAN USB Type A x 4 for USB 3.2 Gen 1 DB-9 x 1 for RS-232/422/485 HDMI type A x2 for HDMI v1.4b Power ON/OFF Switch x 1 2 pin Remote Power on/off connector x1 Power input x 1
扩展	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe[x8] x 2 Extension card size limit: 114.55mm(H) x 192mm (L) PCIe[x1] x 1	Full-size Mini card x2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 180W - Max. size of GPU card 190 x 113 x 40 mm (Option) Max. size of GPU card 190 x 113 x 60 mm (Riser Card: 9697T50300)
指示灯	Power LED x 1, HDD active LED x 1	
操作系统支持	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8 .1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2	
供电方式		
电源模式	DC-In 12~24V - CPU = 35W: 120W Adapter - 35W < CPU ≤ 73W: 240W Adapter	DC-In 12~24V - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 180W Graphic Card: 330W Adapter
机构		
安装	Wallmount	
尺寸 (W x H x D)	6.10" x 7.87" x 10.24" (155mm x 200mm x 260mm)	
总重量	12.75 lb (5.8 kg)	
净重	9.9 lb (4.5 Kg)	
环境		
工作温度	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)	
存储温度	-4°F ~ 176°F (-40°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	Random, 1 Grms, 5~500Hz, Anti-vibration design	
防冲击	—	
认证	CE/FCC class A	
备注		

可扩展无风扇BOX PC解决方案

第一季度推出

型号	BOXER-6842M	BOXER-6843-ADS
系统		
CPU	Intel® Xeon® E-2124G; Intel® Core™ i9-9900T; Intel® Core™ i7-8700T; Intel® Core™ i5-9500TE; Intel® Core™ i5-8500T; Intel® Core™ i3-8100T; Intel® Pentium® G5400T; Intel® Celeron® G4900T Note: Support max. TPD 71W Processor	Intel 10nm LGA-1700 Socket (formerly codenamed Alder Lake-S) Support Max. 65W TDP Processor (LGA 6+0, LGA 8+8) I9-12900TE / I9-12900E, I7-12700TE / I7-12700E, I5-12500TE / I5-12500E, I3-12100TE / I3-12100E, G6900TE / G6900E
芯片组	C246, No H310 downward support	Q670E or R680E
系统内存	DDR4 SO-DIMM socket x4 (double deck) Support max. 2666MHz up to 128GB Support un-buffered and ECC / non-ECC type SODIMM	DDR5 4800 UDIMM x4, max. up to 128GB
显示接口	HDMI x 2 Support Dual Independent Display, 4K Ultra HD displays	HDMI Type A x2 DisplayPort x2
存储设备	2.5” SATA Drive Bay x2 (4 SATA Port w/ RAID Function) mSATA x 1 (optional) M.2 2280 NVMe SSD slot x 1	2.5” SATA-III Drive Bay x2 (External Swappable) M.2 2280 M Key x2 (PCIEx4 Gen4) 3.5” SATA Drive bay (internal, non-swappable, Optional)
以太网	RJ-45 x 3 for GbE (Intel i211AT x 2, i219LM x 1)	GbE LAN x4 with LED Indicator - Intel i219-LM x1 (PHY) - Intel i226 x3
I/O	HDMI x 2 Audio (Mic-in, Line-out) USB 3.2 Gen1 x 6 DB-9 x4 for RS-232/422/485 with automatic flow control 3 pin DC Power input x 1 (+, - , GND) Power ON/OFF switch x 1 2 pin Remote power on/off connector Reset switch	HDMI x2 / Display Port x 2 RJ-45 x 4 Type A x 8 for 3.2 Gen2 DB-9 Male x 6 for RS-232/422/485 (Autoflow, Programmable) DB-15 Male x1 for 8bit DIO Audio (Mic-in / Line-out) DC 19~36V 3-pin Terminal Block Connector for DC-in Power Button with LED x 1 Remote Power On/Off x1 Reset Button x1
扩展	A2/A3/A4/A5 Full-size Minicard x 1 (PCIE + USB with 1 SIM Slot) Half-size Minicard x 1 (PCIE + USB, optional for mSATA) M.2 M key (2280) x 1 (PCIEx4) - Max. Power Consumption of GPU card 250W - Max. Size of GPU card 280mm x150mm x 40mm A2: PCIE [x4] x 1 + PCIE [x16] x 1 A3: PCIE [x4] x1 + PCIE [x8] (in x16 slot) x 2 A4: PCIE [x4] x1 + PCIE [x8] (in x16 slot) x2, Support dual Graphics Cards with two power inputs A5: Built in Nvidia A2 x1,PCIE [x4] x 1 + PCIE [x8] x 1 (in x16 slot) Note: A3 is fanless system. A2 & A4 & A5 is fan system with PWM function.	M.2 2230 (Key E) x1 M.2 3052 (Key B) x1 w/ SIM M.2 2280 (Key B+M or M) x2 Full-Size Minicard x1 (PCIe + USB)
指示灯	System Power LED x 1 (Green), Storage Active LED x 1 (Red)	—
操作系统支持	Windows® 10 Enterprise 64 bit, Ubuntu 18.04.4	Windows 10 IoT Enterprise LTSC 2021, Windows® 10 Pro Windows® 11 Pro, Linux Ubuntu 22.04
供电方式		
电源模式	A2/A3/A4 DC In 12~24V with 3-pin terminal block No Graphics Card: CPU 35W->120W Adapter x 1, CPU 71W->240W Adapter x 1 With 250W Graphics Card x1: 480W Adapter x 1 A4: DC In 12~24V with 3-pin terminal block, With 250W Graphics Card x2: 330W Adapter x 1 + 480W Adapter x 1 A5: DC In 12~24V with 3-pin terminal block, With A2 x 1: 240W Power Adapter x 1 , With A2 x 2: 330W Power Adapter x 1	DC 19~36V 3-pin Terminal Block
机构		
安装	Wallmount	
尺寸 (W x H x D)	A2/A3/A5: 6.17” x 8.92” x 12.8” (156.7mm x 226.5mm x 325mm) A4: 7.77” x 8.92” x 12.8” (197.3mm x 226.5mm x 325mm)	TBD
总重量	A2/A3: 18.52 lb (8.4 Kg); A4: 20.72 lb (9.4 Kg); A5: 20.5 lb (9.3 Kg)	TBD
净重	A2/A3: 15.65 lb (7.1 Kg); A4: 17.86 lb (8.1 Kg); A5: 17.64 (8 Kg)	TBD
环境		
工作温度	Without Graphics Cards: -4°F ~ 149°F (-20°C ~ 65°C) with 0.5m/s airflow With 250W Graphics Card: 32°F ~ 113°F (0°C ~ 45°C) with 0.5m/s airflow A5: 32°F ~ 113°F (0°C ~ 40°C) with 0.5m/s airflow	-4°F ~ 131°F (-20°C ~ 55°C), according to IEC68-2 with 0.5 m/s AirFlow (w/ Industrial wide Temp. SSD/RAM)
存储温度	-49°F ~ 176°F (-45°C ~ 80°C)	-40°F ~ 176°F (-40°C ~ 80°C)
存储湿度	5 ~ 95% @ 40°C, non-condensing	
抗振动	HDD: Random, 1Grm, 5~500Hz	3 Grms/ 5 ~ 500Hz/ operation (with SSD)
防冲击	—	50G, IEC 68-2-27, half sine, 11 ms duration (with SSD)
认证	CE / FCC class A	
备注	TAIWAN EXCELLENCE 2021	

备注: 所有规格如有变更，恕不另行通知。

可扩展无风扇BOX PC解决方案：图像采集卡

型号	PER-T479	PER-T499
系统		
总线接口	PCI-Express® [x4], Gen 2 PCI-Express Specification Revision 2.1 at 5GT/s	PCI-Express® [x4], Gen 3 PCI-Express Specification Revision 3.0 at 8GT/s
USB	4 independent USB 3.2 Gen 1 host controllers 900mA @ 5V for each port Compliant with USB 3.2 Gen 1 Specification Revision 1.0 4 downstream USB ports support SS/HS/FS/LS data rates (5Gbps/480Mbps/12Mbps/1.5Mbps)	1 independent USB 3.2 Gen 2 host controllers 900mA @ 5V for each port Compliant with USB 3.2 Gen 2 specification Revision 1.0
USB连接器	4 USB 3.2 Gen 1 Type-A connectors with lockable screw threads	2 USB 3.2 Gen 2 Type-A connectors with lockable screw threads
操作系统支持	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7(32/64-bit) Linux	
供电方式		
电源模式	12V from external IDE 4-pin power connector	From PCIe bus
机构		
尺寸 (W x D)	4.72" x 4.21" (120mm x 107mm)	3.94" x 2.8" (100mm x 71mm)
环境		
工作温度	32°F ~ 140°F (0°C ~ 60°C) (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)	
存储温度	-49°F ~ 176°F (-45°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	

型号	PER-T481	PER-T514
系统		
总线接口	PCI-Express® [x4], Gen 2 PCI-Express Specification Revision 2.0 at 5GT/s	PCI-Express® [x4], Gen 2 PCI-Express Specification Revision 2.1 at 5GT/s
USB	—	
USB连接器	—	
以太网	LAN: Intel® i211AT Ethernet Controller x 4 (A10) Intel® i211AT Ethernet Controller x 2 (A20) Fully compliant with IEEE 802.3 and IEEE 802.3u Support IEEE 1588 precision time synchronization POE: Intel® i211AT Ethernet Controller x 4 (A30) Intel® i211AT Ethernet Controller x 2 (A40) Fully compliant with IEEE 802.3 and IEEE 802.3u Support IEEE 1588 precision time synchronization Support IEEE 802.3 at	2 Ports 10GbE Ethernet w/ Intel X550 Controller Fully compliant with IEEE 802.3 and IEEE 802.3u Support IEEE 1588 precision time synchronization Support 15.5 KB Jumbo Frame, teaming Support IEEE 802.3 Ethernet interface for 10GBASE-T (IEEE 802.3an) Support NBASE-T (IEEE 802.3bz) and 1000BASE-T (IEEE 802.3ab)
操作系统支持	LAN: Windows® 10(32/64-bit), Windows® 8.1 (32/64-bit), Windows® 7(32/64-bit), Linux POE: Windows® 10(32/64-bit), Windows® 8.1 (32/64-bit), Windows® 7(32/64-bit) (Linux not Supported)	Windows® 10(64-bit), Windows® 8.1 (64-bit), Windows® 7(64-bit), Linux 18.04.1
供电方式		
电源模式	LAN: Max. 10W POE: 4POE DUAL SATA Power (15 pin) DC Input 12~24V,Max. 90W for 4ports (A30) 2POE DUAL SATA Power (15 pin) DC Input 12~24V,Max. 60W for 2ports (A40)	Max. 7.84W
机构		
尺寸 (W x D)	LAN: 4.33" x 5.35" (110mm x 136mm) POE: 4.41" x 5.91" (112mm x 150mm)	3.94" x 5.35" (100mm x 136mm)
环境		
工作温度	LAN: -4°F ~ 140°F(-20°C ~ 60°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices) POE: -4°F ~ 131°F(-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; 90W loading) (A30) -4°F ~ 131°F(-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; 60W loading) (A40)	32°F ~ 140°F(0°C ~ 60°C) (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
存储温度	-49°F ~ 176°F (-45°C ~ 80°C)	
存储湿度	5 ~ 95% @ 40°C, non-condensing	

备注: 所有规格如有变更，恕不另行通知。

型号	VPC-3350S	VPC-5600S
系统		
类型	Multi-PoE & Fanless Appliance	
处理器	Intel® Pentium®/ Celeron®/ Atom® Processor (Default: E3940; Project base: N4200/N3350, or E3950 w/ customized chassis)	Intel® 7th Gen. Core™ i3/i5/i7 Processor (Default: i3-7100U; Project base: i5-7300U, i7-7600U)
芯片组	—	
主内存	Up to 8GB, DDR3L 204-pin SODIMM	Up to 32GB, DDR4 260-pin SODIMM
显示	HDMI x 1, DP x 1	
以太网	Intel® i211 (colay i210)	LAN x 2 + 4 PoE Ports, RTL8111E 10/100/1000 Base
智能PoE	4 ports, sharing 60W of power budget for every four PoE ports	
RAID支持	—	0/1
扩展槽	Mini-Card slot x 2 (USB 2.0 + PCIe, full size), up to 4 slots (In-vehicle platform) SATA x 1 Built-in CANBus (In-vehicle platform)	Mini-Card slot x 3 (USB2.0 x 2 + PCIe & USB 2.0 x 1) Built-in CAN 2.0B x 1
全球定位系统, 重力感应	Built-in GPS & G-Sensor (In-vehicle platform)	On board (GPS/GLONASS), G Sensor
前置 I/O面板	Power Button x 1 Reset Button x 1 Power/HDD, LED x 2 USB 3.2 Gen 1 x 2 GbE port (RJ-45) x 1 PoE LAN x 4 (IEEE 802.3 at/af) HDMI x 1 CanBus connector x 1 (In-vehicle platform) RS-232 x 3 (In-vehicle platform)	Power Button x 1 3G/4G/WIFI LED x 3 USB 3.2 Gen 1 x 4 GbE port (RJ-45) x 2 PoE LAN x 4 (IEEE 802.3 at/af) DP x 1 Reset Button x 1
后置 I/O面板	DC-In power x 1 8-bit DIO x 1, 4-ch digital input , 4-ch digital output RS-232/422/485 x 2 DP x 1 Audio Line-out x 1, Mic-In x 1 Micro SIM slot x 2	DC-In power x 1 Remote Power x 1 8-bit DIO x 1, 4-ch digital input (Wet/dry contact with Isolation Protection 3,000 VDC) , 4-ch digital output (Compatible 5 V/TTL, 31 mA max. per channel) DC 12V/1A Output x 1 RS-232/422/485 x 2 HDMI x 1 CanBus connector x 1, Audio Line-out x 1, Mic-In x 1 SIM slot x 2
存储		
HDD托架	2.5" HDD/SSD Bay x 1	2.5" SSD x 2
CF/CFast/mSATA插槽	—	mSATA Slot x 1 (If mSATA x 1 used, then only one SATA available)
环境		
工作温度	-4°F ~ 158°F (-20°C ~ 70°C)	
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
存储湿度	10%~80% @40°C, non-condensing	
振动/冲击	MIL-STD-810G	
认证	CE & FCC Class A, eMark Compliance Available Per Project Basis	CE & FCC Class A, EMARK
电源模式		
供电方式	DC 12-24V; DC9-36V with power ignition (In-vehicle platform)	DC 10-36V, with ignition pin
机构		
可拆卸的HDD托架	—	Hot swappable 2.5" SSD x 2 (Project base) via extension module
内置系统HDD托架	—	2.5" HDD x 2
尺寸	6.3" x 5.28" x 2.44" (160mm x 134mm x 62mm) 6.3" x 5.28" x 2.95" (160mm x 134mm x 75mm), In-vehicle platform.	6.85" x 7.87" x 2.52" (174mm x 200mm x 64mm)
总重量	3.96 lb (1.8 kg)	5.7 lb (2.6 kg)
备注		TAIWAN EXCELLENCE 2018 COMPUTEX d&i awards 2017 by iF

备注: 所有规格如有变更，恕不另行通知。

智能车载 & AMR BOX PC

第一季度推出

型号	VPC-5620S
系统	
类型	Multi-PoE & Fanless Appliance
处理器	Intel® Whisky Lake Processor (Default: i7-8665UE; Project base: i5-8365UE, i3-8145UE or 4305UE)
芯片组	—
主内存	Up to 64GB, DDR4 260-pin SODIMM
显示	HDMI x 1, DP x 1
以太网	1x GbE, Intel i211, support Wake on LAN and PXE supported
智能PoE	4 ports, IEEE 802.3 at/af, sharing 60W of power budget for every four PoE ports. Able to power management in each independent PoE port (SDK available)
RAID支持	0/1
扩展槽	IS: mPCIe Full-Size (USB+PCIe) x 1 mPCIe Full-Size (USB+SATA) colay SATA x 1 M.2 2280 (USB+PCIe), support NVME PCIe [x4] SSD x 1 VS: mPCIe Full-Size (USB+PCIe) x 3 mPCIe Full-Size (USB+SATA) colay SATA x 1 M.2 2280 (USB+PCIe), support NVME PCIe [x4] SSD x 1
全球定位系统, 重力感应	VS:Built-in GPS, Gyro & G-Sensor
前置I/O面板	RJ45 Smart PoE Port (60W) x 4,USB 3.2 Gen 1 x 4, Giga LAN x 1, DP x 1, Power button, Status LED, HDD LED, Wireless LED, Micro SIM slots(IS) x 2, Micro SIM slots(VS) x 4, Antenna holes x 2, CANbus (VS) x 1, RS-232 (VS) x 3
后置I/O面板	jack for Line out & MIC in x 1 HDMI x 1 RS-232/422/485 (Isolated by BOM option) x 2 HW Reset x 1, 3pin Power input x 1 8 bits DIO (Isolated 4DI & 4DO / 8DI/ 8DO by BOM option) Antenna holes x 2
存储	
HDD托架	IS:2.5" HDD/SSD Bay x 2 VS:2.5" HDD/SSD Bay x 1
CF/CFast/mSATA插槽	—
环境	
工作温度	-4°F ~ 158°F (-20°C ~ 70°C)
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)
存储湿度	10%~80% @40°C, non-condensing
振动/冲击	MIL-STD-810G
认证	CE & FCC Class A
电源模式	
供电方式	IS:DC 12-24V; VS:DC10-36V with power ignition
机构	
可拆卸的HDD托架	—
内置系统HDD托架	IS:2.5" HDD/SSD Bay x 2 VS:2.5" HDD/SSD Bay x 1
尺寸	IS:6.3" x 5.87" x 2.16" (180mm x 149mm x 55mm) VS:6.3" x 5.87" x 2.95" (180mm x 149mm x 75mm)
总重量	TBD
备注	

型号	BOXER-8647AI
系统	
AI加速器	NVIDIA® AGX Orin
CPU	8-core ARM v8.2 64bit CPU, 2MB L2 + 4MB L3
系统内存	32GB 256-Bit LPDDR5x 205GB/s
存储设备	64GB eMMC 5.1 x 1 M.2 Key M 2280 (PCIe[x4]) x 1
显示接口	HDMI Type A for HDMI 2.0 x 1
以太网	RJ-45 for PoE (802.3af/at, total 100W) x 8 RJ-45 for 10G x 1
I/O	USB Type A for USB 3.2 Gen 1 x 1 USB Type A for USB 2.0 x 3 Line-in x 1 Line-out x 1 HDMI type A for HDMI v2.0 x 1 DB-9 for two CANbus x 1 DB-9 for RS-232/422/485 x 2 DB-15 for 13 DIO x 1 Power ON/OFF switch x 1 Antenna hole x 7
全球定位系统	GPS/Glonass/Galileo/Beidou
感应器	G-sensor, Gyro
扩展	M.2 Key E 2230 for WiFi/Bluetooth (PCIe[x1] + USB) x1 M.2 Key B 3042/3052 for 4G/5G x 1 SIM Slot x 1
指示灯	Power LED x 1
操作系统支持	Linux (NVIDIA Jetpack 5.0 and above)
供电方式	
电源模式	3-pin Terminal Block x 1 for DC in 9-36V ACC Ignition delay on/off
机构	
安装	Wall mount kit
尺寸 (W x D x H)	10.42 " x 7.24 " x 3.67" (264.76 mm x 184.00 mm x 93.30 mm)
总重量	TBD
净重	TBD
环境	
工作温度	-4°F ~ 140°F (-20°C ~ 60°C with 0.5 m/s airflow)
存储温度	-40°F ~ 176°F (-40°C ~ 80°C)
存储湿度	5% ~ 95% @ 40°C, non-condensing
抗振动	MIL-STD-810G, 514.6C Procedure 1, Category 4 Trucker/ Semitrailer on US highway (Figure 514.6C-1-Category 4-Common carrier) by SSD
防冲击	MIL-STD-810G, Method 516.6, Procedure I, flight vehicle equipment by SSD
认证	CE / FCC class A
备注	

备注: 所有规格如有变更，恕不另行通知。

型号	UP-GWS01	UPS-GWS01
系统		
CPU	Intel® Atom® x5-Z8350 Processor (2M Cache, 1.44 GHz up to 1.92 GHz) CPU with 64 bit architecture; Quad Core	Intel® Pentium® N4200/ Celeron® N3350 Processor SoC/ Atom® E3950
内存	Onboard DDR3L memory	Onboard Single/ Dual Channel LPDDR4 memory, Max. 8GB
显卡	Intel® HD 400 Graphics ,12 EU GEN 8, up to 500MHz Support DX*11.1/12, Open GL*4.2, Open CL*1.2 OGL ES3.0, H.264, HEVC (decode), VP8	Intel® Graphics, GEN 9
存储	Onboard eMMC	eMMC ver 5.0 x 1, Max. 128G Optional: Full-sized Mini-PCIe x 1 SATA3 x 1
以太网	Gb LAN x 1	Realtek® 8111G x 2
WIFI/BT	Optional	Optional: M.2 2230 x 1
音频	HDMI x 1	HDMI x 1, DP x 1
USB	USB2.0 x 4, USB3.0 OTG x 1	USB3.0 x 3
扩展槽	—	Full-sized Mini-PCIe x 1 (PCIe & SATA + USB2.0) M.2 2230 x 1
I/O 配置		
电源	DC-in Jack x 1	DC-in Jack x 1, Power Button x 1
USB	USB2.0 x 4, USB3.0 OTG x 1	USB3.0 x 2, USB3.0 OTG x 1/ USB3.0 x 1
显示端口	HDMI x 1	HDMI x 1, DP x 1
以太网	Gb LAN x 1	Realtek® 8111G x 2
COM	—	
环境		
电源	5V/4A DC Only	5V DC Only
板型	3.74” x 3.58” x 1.46” (95mm x 91mm x 37mm)	3.74” x 3.74” x 1.97” (95mm x 95mm x 50mm)
总重量	—	
工作温度	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 113°F (0°C ~ 45°C)
工作湿度	0% ~ 90% relative humidity non-condensing	0% ~ 90% relative humidity non-condensing
认证	CE/FCC Class A	CE, FCC Class A, UL
操作系统支持	Windows® 10, Linux, Windows® 10 IoT core	Windows® 10, Linux, Android 7.0, Windows® 10 IoT core
备注		

型号	UP 4000 Edge	UP Squared V2 Edge
系统		
CPU	Intel® Pentium® N4200/ Celeron® N3350/ Atom® E3950	Intel® Celeron® N6210 Pentium® J6426 Processor SoC
内存	Onboard LPDDR4 Memory up to 8GB	Up to 16GB LPDDR4
显卡	Intel® Gen 9 HD, supporting 4K Codec Decode and Encode for HEVC4, H.264,VP8	Intel® UHD Graphics
存储	Onboard eMMC Storage up to 64GB	Up to 64GB eMMC
以太网	Gb Ethernet (full speed) RJ-45 x 1	Gb Ethernet (full speed) RJ-45 x 2
WIFI/BT	—	
扩展槽	—	M.2 2230 E-Key x 1 (PCIe x2, USB2.0 x1) M.2 2280 M-key x 1 (PCIe x2) SATA3 x 1
安全	TPM 2.0	Onboard TPM 2.0
操作系统支持	Microsoft Windows 10 (full), Windows IOT Core Yocto project 3.1 Kernel 5.4 Ubuntu 18.04	Microsoft Windows 10 (full) Windows IOT Core Ubuntu 20.04 LTS Yocto 3.1
I/O 配置		
USB	USB 3.2 Gen 1 (Type A) x 3 USB 3.0 OTG via USB type C x1	USB 2.0 x 2 (from 10 pin wafer x 1) USB 3.2 Gen 2 Type A x 3
显示端口	HDMI 1.4b DP via USB type C	HDMI 1.4b x 1 DP 1.2 x 1
以太网	RJ45 x1	Gb Ethernet (full speed) RJ-45 x 2
COM	—	RS-232/422 x 1
音频	Line out x 1 Mic in x 1	Line out x 1 Mic in x 1
GPIO	—	
供电方式		
电源模式	12V DC-in @5A	
供电方式	DC Jack, 5.5-2.1mm /phoenix co-lay	AT/ATX
功耗(标准)	12V @ 1.25A (15Watt)	30~38W
机构		
安装方式	VESA Mounting	
尺寸 (WxHxD)	3.62” x 2.52” x 1.78” (92 x 64 x 45.2 mm)	3.74” x 3.74” x 2.16” (95 x 95 x 55 mm)
净重	0.64lb (290g)	0.99lb (450g)
总重量	1.21lb (549g)	1.32lb (600g)
环境		
工作温度	32°F ~ 140°F (0°C ~ 60°C) with air flow 0.5m/s	
工作湿度	10% ~ 80% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
存储温度	-4°F ~ 158°F (-20°C~70°C)	
MTBF	538,629 hrs @ 30°C	465,586
认证	CE/FCC Class A, RoHS Compliant, REACH	
备注		

型号	UPN-Edge Pro	UP Squared 6000 Edge
系统		
CPU	Intel® Apollo Lake N4200/N3350/E3950 Processor SoC	Intel® Atom® X6413E / X6425RE, Celeron® N6210 (no PSE), Pentium® J6426 Processor SoC
内存	Onboard DDR4, Max 8GB Single Channel: 2 GB Dual Channel: 4 GB, 8 GB	
显卡	Intel® Graphic ,Gen 9	Intel® UHD Graphics
存储	Emmc 32G/64G	Onboard eMMC 32G/64G Optional with M.2 2280 M-key x 1, SATA3 x 1
以太网	Intel i210 x2	GbE x 1, 2.5GbE x 1 Atom: Intel® i210-IT, i225-IT PC Client: Intel® i211-AT, i225-V
WIFI/BT	Optional	Optional with M.2 2230 E-key x 1
音频	Line out+mic in x1	Line out x 1 Mic in x 1
USB	USB 3.2 Gen 1 OTG x 1 USB 3.2 Gen 1 (Type A) x 3	USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C (support OTG) x 1 (Limited to Atom series)
扩展槽	40 pin GPIO x 1 M.2 2230 E-key x 1 M.2 2280 M-key x 1 M.2 3052/3042 B-key x 1 (support with SIM) SATA3 connector x 1 (support 2.5” HDD/SSD expansion)	40 pin GPIO x 1 M.2 2230 E-key x 1 M.2 2280 PCIe Gen3.0x2 M-key x 1 SATA3 x 1 M.2 3052 B-key x 1 Nano SIM slot x 1 TPM 2.0 (Limited to Atom series)
I/O 配置		
电源	DC-in Jack x 1, Power Button x 1	
USB	USB3.2 Gen1 OTG x 1 USB3.2 Gen1 (Type A) x 3	USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C (support OTG) x 1 (Limited to Atom series)
显示端口	HDMIx1, DP x1	HDMI 2.0b x 1 DP 1.2 x 1
以太网	Gb Ethernet (full speed) RJ-45 x 2 (Intel i210)	RJ45 x 2
COM	RS422/RS232/RS485 x 2	RS232/RS422 x 1 (Limited to Atom series)
环境		
电源	12-24VDC	12V DC-in (Lockable plug)
板型	4.61” x4.19” x3.5” (117mm x 106.5mm x 88.8mm)	4.6” x 4.2” x 2.8” (11.7 x 10.6 x 7 cm)
总重量	2.17 lb (982.5g)	2.31lb (1.05Kg)
工作温度	32°F ~ 140°F (0°C ~ 55°C) with air flow 0.5m/s	With Heatsink: 32°F ~ 140°F (0°C ~ 60°) with air flow 0.5m/s
工作湿度	0% ~ 90% relative humidity, non-condensing	
认证	CE/FCC Class A, RoHS Compliant, REACH	
操作系统支持	Microsoft Windows 10 (full), Windows IOT Core Linux: Ubuntu 18.04.5 & Ubuntu 20.04.1 Yocto 3.1	Microsoft Windows 10 (full), Windows IOT Core Linux: Ubuntu 20.04 LTS, Yocto 3.1
备注		

型号	UP Squared 6000 Edge Computing Kit	UPX-Edge
系统		
CPU	Intel® Atom® X6425RE Processor SoC	8th generation Intel® Core™ i7/i5/i3/Celeron Processor SoC
内存	Onboard 8GB DDR4	Onboard DDR4 memory, Max 16GB Single Channel: 4GB Dual Channel: 8GB, 16GB
显卡	Intel® UHD Graphics	Intel® Graphics, GEN 9
存储	Onboard eMMC 64G	eMMC 64GB
以太网	GbE x 3 (Intel® i210-IT x 1, Marvell Alaska x 2 from PSE), 2.5GbE x 1 (i225-IT)	i7/i5 SKU LAN (i210 AT) x 1, LAN (i219 LM) x 1 i3/Celeron® LAN (i210 AT) x 1, LAN (i219 V) x 1
WIFI/BT	Optional with M.2 2230 E-key x 1	Optional
音频	Line out x 1 Mic in x 1	Line out + MIC x 1
USB	USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C (support OTG) x 1 Micro USB (PSE debug port) x 1	USB 3.2 Gen 2 x 4
扩展槽	40 pin GPIO x 2 (1x from MB, 1x from CB(PSE)) M.2 2230 E-key x 1 M.2 2280 PCIe Gen3.0x2 M-key x 1 SATA3 x 2 (1x from MB, 1x from CB) M.2 3052 B-key x 1 Mini PCIe slot x 1 (via USB only) Nano SIM slot x 2 TPM 2.0	M.2 2230 E Key x 1 M.2 2280 M Key x 1 mPCIe slot x 1 100pin connector x 1 40 pin HAT x 1 SATA3 connector x 1 (support 2.5" HDD/SSD expansion)
I/O 配置		
电源	DC-in Jack x 1, Power Button x 1	
USB	USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C (support OTG) x 1 Micro USB (PSE debug port) x 1	USB 3.2 Gen 2 STACK Connector for 2 ports (Front) x 1 USB 3.2 Gen 2 STACK Connector for 2 ports (Rear) x 1
显示端口	HDMI 2.0b x 1 DP 1.2 x 1	HDMI 2.0 x 1 (Support 4K at 60 Hz), DP 1.2 x 1, 16pin GPIO connectors (1 x GPIO for SMT32, 1 x GPIO for 40pin HAT)
以太网	RJ45 x 4	RJ45 connector x 2
COM	RS232/RS422 x 1 (From MB) RS232 x 1 (From CB(PSE))	RS-232/422/485 x 2
环境		
电源	12V DC-in (Lockable plug)	12V - 60VDC
板型	4.6" x 4.2" x 3.2" (11.7 x 10.6 x 8.2 cm)	7.48" x 5.12" x 3.1" (190mm x 130mm x 78.6mm)
总重量	2.65lb (1.2Kg)	6.61lbs (3kg)
工作温度	32°F ~ 122°F (0°C ~ 50°C)	eMMC: 32°F ~ 140°F (0°C ~ 60°C) SATA: -4°F ~ 158°F (-20°C ~ 70°C) With AI module: 32°F ~ 140°F (0°C ~ 60°C)
工作湿度	0% ~ 90% relative humidity, non-condensing	
认证	CE/FCC Class A, RoHS Compliant, REACH	
操作系统支持	Preinstalled Software, Ubuntu 20.04 LTS and 5.13 Kernel Intel® Distribution of OpenVINO™ toolkit 2021 Intel® Media SDK, Intel® Distribution for Python* MRAA and UPM I/O and sensor libraries for C++, Python*, Java*, and JavaScript* Docker-CE, k3s Kubernetes, ONNX, AWS Greengrass, SQLite 3 Node.js, cmake, gcc, Openssl, Openssh-server/client, git, vim, tmux	Win 10, Linux Ubuntu 18.04 with Kernel 5.0, Linux Yocto 2.7 with Kernel 4.19
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	UP Xtreme i11 Edge	UP Xtreme i11 Edge Compute Enabling Kit
系统		
CPU	11th Gen Intel® Core™ Processor SoC Core i7-1185G7E , Core i7-1185GRE, Core i5-1145G7E, Core i5-1145GRE, Core i3-1115GRE, Celeron® 6305E	11th Gen Intel® Core™ Processor SoC Core i7-1185GRE Core i5-1145GRE
内存	DDR4 SO-DIMM Slot x 2 (up to 64GB 3200Mhz)	8GB 3200MHz SODIMM modules x 2
显卡	Intel® Iris® Xe graphics	
存储	SATA CONN x 1 with POWER CONN (2.5” SSD) M.2 2280 M Key NVMe(PCIe [x2])	128GB 2.5” SSD x 1
以太网	Intel® i225IT x 1, Intel® i219 (vPRO) x 1	Intel® i225IT (TSN) x 1, Intel® i219 (vPRO) x 1
WIFI/BT	Optional	
音频	Realtek ALC888s x 1 (Mic in /Line out)	
USB	USB 3.2 Gen2 x 3, USB 2.0 x 1 (Type A), USB 4.0 via USB type C	
扩展槽	M.2 2230 E-Key x 1 M.2 2280 M-Key x 1 M.2 3052 B-Key x 1 with Micro-SIM SATA3.0 with power connector x 1 (2.5” SSD) PCIe x 4 slot (Optional)	M.2 2230 E-Key x 1 M.2 2280 M-Key x 1 M.2 3052 B-Key x 1 with SIM
I/O 配置		
电源	12V DC-in (Lockable plug)/ Phoenix connector	
USB	USB3.2 Gen2 x 3, USB2.0 x 1 (Type A), USB4.0 via USB type C	
显示端口	HDM 2.0 x 1 /DP 1.4 x 1 eDP x 1, 4K at 60hz panel	
以太网	Intel® i225IT x 1, Intel® i219 (vPRO) x 1	
COM	RS232/422/485 x 2	
环境		
电源	12V (AT & ATX)	
板型	4.88”x 5.98” x 2.62” (124mm x 152mm x 66.5mm)	
总重量	5.07 lb (2.3kg)	
工作温度	32°F ~ 140°F (0°C ~ 60°C) Fanless Sku memory and Storage requirement: DRAM Module : 0°C ~ 85°C 2.5” SSD: -45°C ~ 85°C	32°F ~ 140°F (0°C ~ 60°C)
工作湿度	0% ~ 90% relative humidity, non-condensing	
认证	CE,FCC Class A	
操作系统支持	Windows 10 /IOT, Yocto 3.1, Ubuntu 20.04.02	Preinstalled Software Ubuntu 20.04 LTS and 5.11 Kernel Intel® Distribution of OpenVINO™ toolkit 2021 R1 Intel® Media SDK Intel® Distribution for Python* MRAA and UPM I/O and sensor libraries for C++, Python*, Java*, and JavaScript* Docker-CE k3s Kubernetes ONNX AWS Greengrass SQLite 3 Node.js cmake gcc Openssl Openssh-server/client git vim tmux
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	UP Xtreme i12 Edge	UP Element i12 Edge
系统		
CPU	Intel Core i7-1270PE/i5-1250PE/i3-1220PE/Celeron-7305E	Intel® Core™ i3-1215U / i5-1235U / i7-1255U / Celeron® 7305 Processor SoC
内存	LPDDR5 Dual Channel up to 32GB	Onboard LPDDR5, 4GB / 8GB / 16GB / 32GB
显卡	Intel® Iris® Xe graphics	
存储	M.2 2280 (PCIe Gen4.0 x 4) M-key x2 SATA3 x1	Optional with M.2 2280 M-key x 2
以太网	Intel i226IT (TSN) x1/ Intel i219 (vPRO) x1	GbE x 2 / 2.5GbE x 1 (All three support PXE function) Intel® i225-IT for 2.5G Gigabit Ethernet Intel® i219-LM for 1G Gigabit Ethernet Realtek RTL8111H for 1G Gigabit Ethernet
WIFI/BT	Optional via M.2 2230	Intel® AX211 Wi-Fi 6E (802.11ax)
扩展槽	M.2 2230 E-key x1 M.2 2280 (PCIe Gen4.0 x 4) M-key x2 SATA3 x1 M.2 3052 B-key x1 Nano SIM slot x1	M.2 3052 USB3.0/PCIe B-key x 1 (with Nano SIM slot) M.2 2280 SATA/PCIe Gen3.0 x2 M-key x 1 M.2 2280 PCIe Gen4.0 x4 M-key x 1
安全	TPM 2.0	TPM 2.0
操作系统支持	Windows* 10 Enterprise 2021 LTSC, Ubuntu 22.04, Yocto (4.0)	Microsoft Windows 10, Linux: Ubuntu 22.04 LTS
I/O 配置		
USB	USB 3.2 Gen2 Type A x3 USB2.0 USB Type A x1 USB2.0 via 10pin wafer x2 USB4.0 Type C x1	USB 3.2 Gen 2 Type A x 2 USB 2.0 Type A x 2 USB 3.2 Gen 1 Type C (support DP1.4) x 1
显示端口	HDMI 2.0b x1 DP 1.4a x1 DP 1.4b via USB type C x1 eDP1.4b x1	HDMI 2.0b x 1 DP 1.4 x 1
以太网	RJ45 x 2 for 1G/2.5GbE LAN	RJ45 x 3
COM	x 2 (RS232/422/485)	RS232/422/485 x 2 (pin header type)
音频	Mic-in x 1, Line out x 1	Mic x 1 / Line out x 1
GPIO	16pin GPIO x1	Isolation GPIO x 8in/8out (pin header type)
供电方式		
电源模式	12-36V DC input (AT/ATX mode)	9-36V
电源支持类型	Lockable	Ø2.5 Lockable connector
功耗(标准)	Intel® Core™ i7-1270PE, LPDDR5 4800MHz 16GB, 5.86A@+ 12V (Typical) Intel® Core™ i7-1270PE, LPDDR5 4800MHz 16GB, 8.05A@+ 12V (Max)	Power Consumption (Typical): Intel® Core™ i7-1255U, LPDDR5 5200MHz 32GB, 4.47A@ 12V Power Consumption (Maximum): Intel® Core™ i7-1255U, LPDDR5 5200MHz 32GB, 9.6A@ 12V
机构		
安装方式	VESA Mount/Wall Mount	75mm x 75mm VESA mount, optional Wall mount kit
尺寸 (WxHxD)	152 x 123.8 x 72.5 mm	5.98" x 4.9" x 1.8" (152 x 125 x 48 mm)
净重	1.34kg	2.21lb (1.0Kg)
总重量	1.76kg	3.31lb (1.5Kg)
环境		
工作温度	0-60 degree with air flow 0.5m/s	With Heatsink: 32°F ~ 140°F (0°C ~ 60°) with air flow 0.5m/s (According Industrial wide temp. M.2 SSD)
工作湿度	0% ~ 90% relative humidity, non-condensing	
存储温度	-40˚F ~ 176˚F (-40˚C ~ 80˚C)	—
MTBF	366,810	—
认证	CE/FCC Class A, RoHS Compliant, REACH	CE-RED/FCC Class A, RoHS Compliant, REACH Shock: MIL-STD-202G Method 213B,Table 213-I Condition A(with Absorber) Vibration: IEC 60068-2-6: 1G, 5-500Hz, 3 axes IEC 60068-2-64: Operating 5Grms, 5-500 Hz, 3 axes
备注		Built with intel. nuc element

第一季度推出

型号	UP Squared Pro 7000 Edge
系统	
CPU	Intel® Atom® Processor SoC (Alder Lake N)
内存	Up to 16GB LPDDR5
显卡	Intel® Gen 12 UHD Graphics
存储	Up to 64GB eMMC
以太网	2.5GbE x 2 (Intel® i225/i226)
WIFI/BT	—
扩展槽	M.2 2230 E-key x 1 (CNVI , PCIE X1, USB2.0) M.2 2280 M-key x 1 (PCIE X2, USB2.0) M.2 3052 B-key x 1 (USB3.0 only) SATA3 x 1
安全	Onboard TPM 2.0
操作系统支持	Windows 10 IoT Enterprise Windows IoT Core Ubuntu 22.04 LTS Yocto 4
I/O 配置	
USB	USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C x 1
显示端口	HDMI 2.0b x 1 DP 1.2 x 1 DP 1.2 via USB Type C
以太网	2.5GbE x 2 (Intel® i225/i226)
COM	RS-232/422/485 x 2
音频	Audio Jack (Line out + MIC in) x 1
GPIO	40 pin GPIO x 1
供电方式	
电源模式	12V DC-in, 6A
电源支持类型	AT/ATX
功耗(标准)	TBD
机构	
安装方式	VESA Mounting
尺寸 (WxHxD)	TBD
净重	TBD
总重量	TBD
环境	
工作温度	32°F ~ 140°F (0°C ~ 60°) / 0.5 airflow
工作湿度	0% ~ 90% relative humidity, non-condensing
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)
MTBF	TBD
认证	CE/FCC Class A, RoHS Compliant, REACH
备注	

型号		ACS-1U01-BT4
系统		
CPU		Intel® Atom® J1900 Processor (4C @ 2.00 GHz CPU, 688/854 MHz GFX, 10W TDP), Intel® Atom™ N2807 Processor (2C @ 1.58 GHz CPU, 313/750 MHz GFX, 4.3W TDP)
芯片组		—
系统内存		204-pin SODIMM x 2 up to 8 GB (for J1900) 204-pin SODIMM x 1 up to 4 GB (for N2807) DDR3L 1333 MHz , Non-ECC, un-buffered memory, Dual-channel memory architecture
I/O 芯片组		Fintech 81866D
显示接口	芯片组	Intel® Graphics Media Accelerator
	DP	VGA x 1, Up to 1920 x 1200 @60 Hz ; HDMI x 1, Up to 1920 x 1200 @60 Hz
存储设备		2.5" HDD, Full-Size Mini-Card (optional)
网络	LAN	Realtek® PCIe Gb LAN 8111G x 1
I/O		
前置 I/O	USB	USB 2.0 port x 4
	音频	—
	显示	VGA x 1
	其他	On/Off Button x 1, Power LED + HD LED x 1, (COM port optional if not use VGA port)
后置 I/O	USB	USB 3.2 Gen 1/2.0 port x 1, USB 2.0 port x 2
	音频	Line-out (green) x 1, Line-in (blue) x 1
	显示	HDMI x 1
	LAN	RJ-45 connector x 1
	电源	DC Power x 1
	其他	RS-232 connector x 1
扩展	Mini PCIe	Full-size Mini-Card (PCIe +USB or mSATA) + SIM Card (mSATA default) x 1, Half-size Mini-Card (PCIe +USB) x 1
	存储	Full-size Mini-Card slot (mSATA default) x 1, SATA3 (6.0Gb/s) x 1, SATA2 (3.0Gb/s) x 1, SATA power connector x 1
	其他	RS-232 9-pin int. box header x 1, RS-232/422/485 9-pin box header x 1, 5-pin USB 2.0 header(p=2.00mm) x 2
指示灯	前置	Power LED x 1, HDD Active LED x 1
	后置	—
电源		
电池		Lithium battery
电源模式		DC: 12V
机构		
尺寸 (WxHxD)		8" x 8" x 1.75" (203.20mm x 203.20mm x 44.45mm)
VESA 安装方式		Wallmount
抗振动		0.5 Grms/ 5~ 500Hz/ operation – HDD
防冲击		10 G peak acceleration (11 msec. duration)
环境		
工作温度		32°F ~ 122°F (0°C ~ 50°C)
认证		CE & FCC Class A
操作系统		
MS Windows		Windows® 7 32/64-bit, Windows® 8.1 32/64-bit
Linux		Fedora
备注		

型号		ACS-1U01-H110B
系统		
CPU主板		EMB-H110B-A10-HH
CPU		Intel® Skylake 14nm LGA 1151 socket Processor, Max. 65W TDPs (follow thin mini-ITX)
芯片组		Intel® H110
系统内存		2 x SODIMM, Max. 32GB, DDR4 2133/1867 MHz, Non-ECC, Un-buffered
I/O 芯片组		NCT6791D
显示接口		Intel® HD Graphics DP(BOM Change, default HDMI): Up to 1920 x 1200 @60Hz, with Digital Audio HDMI: Up to 4096 x 2304 @24Hz / 2560 x 1600 @60Hz, with Digital Audio LVDS: Up to 1920 x 1200 @60Hz, Dual Channel 18/24-bit colay eDP: Up to 4096 x 2304 @60Hz
存储设备		2.5” HDD x 1, Full-Size Mini-Card(mSATA default, PCIe + USB optional) x 1
LAN		Realtek® PCIe Gb LAN 8111G x 2
I/O		
前置 I/O 端口		USB 2.0 port x 4 Power S/W x 1 COM port x 1 HDD LED x 1 POWER LED x 1
后置 I/O 端口		USB 3.2 Gen 1 port x 4 Mic-In (pink) x 1 Line-Out (green) x 1 HDMI x 2 (BOM Changeable to DP) RJ-45 Connector x 2 DC Power jack x 1
扩展	Mini PCIe	Half-Size Mini-Card slot (PCIe + USB) x 1, Full-Size Mini-Card (Default mSATA, PCIe + USB optional) x 1
	存储	Full-size Mini-Card slot (mSATA default) x 1, SATA3(6.0Gb/s) x 1, SATA power connector x 1
	其他	RS-232 9-pin int. box header x 1, RS/232/422/485 9-pin box header x 1, 5-pin USB 2.0 header(p=2.00mm) x 2
电源		
电池		Lithium battery
电源模式		DC: 12V
机构		
尺寸 (WxHxD)		8” x 8” x 1.75” (203.20mm x 203.20mm x 44.45mm)
VESA 安装方式		Wallmount
抗振动		0.5 Grms/ 5~ 500Hz/ operation – HDD
防冲击		10 G peak acceleration (11 msec. duration)
环境		
工作温度		32°F ~ 122°F (0°C ~ 50°C)
认证		CE & FCC Class A
操作系统		
MS Windows		WIndows® 7 32 / 64-bit, WIndows® 8.1 32 / 64-bit, WIndows® 10 32 / 64-bit
Linux		Ubuntu 16.04.02/Kernal 4.8.0
备注		

型号	ACS-1U01
系统	
M/B	Mini-ITX
尺寸 (W x D x H)	8” x 8” x 1.75” (203.20mm x 203.20mm x 44.45mm)
颜色	Black
处理器支持	TDP < 65W
驱动器托架	2.5” internal HDD bracket x 1
前置 I/O	USB 2.0 Port x 4 COM/VGA Port
按钮	Power Switch x 1
LED	Power LED x 1 HDD LED x 1
其他	Antenna Hole x 4
环境	
工作温度	32°F~122°F (0°C~50°C)
备注	

型号	ARC-645
系统	
构造	1.2 mm SECC Zinc-coated Steel
存储	External: 3.5” Drive Bay x 1 5.25” Drive Bay x 4 Internal: 3.5” Drive Bay x 2
系统风扇	12 cm Ball Bearing Fan with Removable Filter x 1
前置面板	Power ON/OFF Switch x 1 Reset Button x 1 Power ON LED x 1 Hard Disk Drive Active LED x 1 USB Port x 4
后置面板	AT Keyboard Cut-out x 1 14 Slots (including system slot), supports max. 339 mm (length) for expansion card
颜色	Black
尺寸	19” (W) x 20.8” (D) x 7” (H) (482mm x 528mm x 177mm)
包装尺寸	21.6” (W) x 27” (D) x 12.4” (H) (548mm x 685mm x 315mm)
净重	26.4 lb (12 kg)
总重量	30.8 lb (14 kg)
环境	
工作温度	32°F ~ 122°F (0°C ~ 50°C)
存储温度	-4°F ~ 176°F (-20°C ~ 80°C)
存储湿度	10 ~ 90% @ 40°C, non-condensing
抗振动	0.5 Grms/ 5 ~ 500Hz/ operation (2.5” Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz/ non operation
防冲击	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non operation
EMC	CE/FCC Class A
备注	

型号	RBX-I2000
系统	
处理器	Intel® 11th Generation Core™ i7/i5/i3/Celeron SoC i7-1185G7E (4C, 1.7GHz, up to 4.4GHz, TDP-up 28W) i5-1145G7E (4C, 1.5GHz, up to 4.1GHz, TDP-up 28W) i3-1115G4E (2C, 2.2GHz, up to 3.9GHz, TDP-up 28W)
内存	Max. up to 64G DDR4 3200MHz, SO-DIMM x 2, non-ECC type
存储	M.2 2280 M Key slot x 1 (PCIex4), up to 2TB NVMe SSD 2.5" SATA SSD/HDD bay 3.0 x 1
实时时钟	RTC x 1, with 3V CR2032 Lithium battery
安全	TPM 2.0
指示灯	—
移动蜂窝	—
无线Lan	M.2 2230 E Key slot x 1 (Wifi 802.11 ac/b/g/n, BT 5.0)
操作系统	Windows 10 IoT Enterprise / Linux (by request)
机器人框架&脚本	ROS 1/ ROS 2, LiDAR-base SLAM script (*NDT algorithm)
I/O 接口	
HDMI	HDMI 2.0 x 1, support 3840 x 2160 @ 30Hz)
以太网	10/100/1GBase-T(X) Ethernet port x 3 2.5Gigabit Ethernet port x 1
USB	USB 3.0 Gen1 x 4
多种 I/O	8-bit DIO, 2-channel CAN interface
同步输出	1pps + time date output x4 for robot external sensors *note (*note Support Velodyne VLP-16, Xsens MTi-670, stereo camera)
DB-9	RS232/485 x 2 CAN-FD x 2 PM&GPIO interface x1
天线	FAKRA Z code for Wi-Fi x 2 FAKRA C code for GPS x 1
扩展槽	Mini PCIe slot x 1, 3026 for GPS module Mini PCIe slot x 1, 3052 for PEAK CANbus
电源连接器	2 Pin 3.81mm Pitch Phoenix Connector
其他接口	—
供电方式	
电源模式	DC 9 ~ 36V (Optional DC12V), AT Type
功耗	67 W (Full Loading)
电源模式	Support system auto-power on
环境和机构	
尺寸	6.88" x 5.9" x 2.8" (175 x 150 x 72mm)
重量	4.4lb (2kg)
挂载选择	Wall Mount
工作温度	32 °F ~ 122 °F (0 °C ~ 50 °C)
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
工作湿度	10% ~ 90% relative humidity, non-condensing
抗振动	3Grm/ operation – eMMC, MicroSD (IEC68-2-64)
防冲击	30G peak acceleration (11 msec. duration, eMMC, microSD, or SSD) IEC 68-2-27
EMI	CE & FCC class A
备注	

型号	AMR-TSMC
平台	
处理器	High speed FPGA/VHDL
全球定位系统模块	Support SyncBotic's GPS module. (Use U-blox M9N, F9P module)
IMU模块	Xsens MTi-670 9-axis IMU
板对板连接器	PPS (packet per second) + ToD (Time of Day) output x7 PPS (packet per second) output x4 I2C + PPS for controller side to update the time information x1 RS-232 output (Xsens sync raw data output) x1
Xsens MTi670 9-axis IMU规格	
支持列表	Gyroscope, Accelerometer, Magnetometer, Barometer, orthogonality
翻滚和俯仰角	Static: 0.2° Dynamic: 0.5°
航向测量精确度	Dynamic: 1°
定位	Horizontal: 1.0m Vertical: 2.0m
速度	3D: 0.05m/s
U-Blox 全球定位系统规格	
模块类型	L1/L2 or RTK U-blox GPS high precision module
接收器类型	GPS L1C/A, SBAS L1C/A, QZSS L1C/A, QZSS L1 SAIF, GLONASS L10F, BeiDou B1, Galileo E1B/C, GPS/QZSS L2C, GLONASS L20F, Galileo E5b, BeiDou B2I, RTK
接收	Cold start: 26s Hot start: 2s Aided start: 3s
再收敛时间	RTK ≤ 10S (* Only on RTK module card)
电源	
存储温度	9-55V DC ±5%
工作湿度	1.2W at 12VDC input
机构	
尺寸	75 x 50 x 23mm (2.95 x 1.968 x 0.917 inch)
固定孔	M2 screw x4
环境	
工作温度	-40°C to 75°C (-40°F to 167°F)
工作湿度	Approx. 95% @40 (non-condensing)
存储温度	-40°C to 85°C (-40°F to 185°F)
防振动	IEC 60068-2-64: 5Grms, 5-500Hz, 3 axes
抗冲击	Operating: 3G, half sine, 11ms duration
EMI	CE (EN 55032, EN 55035) & FCC class A (ANSI C63.4, 4a)
备注	

路边单元

型号	iRSU
系统	
处理器	Intel® Atom® x7-E3950 Processor
内存	SO-DIMM DDR3L 8 GB
存储	Onboard eMMC 64 GB mSATA via M.2 2242 B Key slot x 1
指示灯	LED Power Light x 1
操作系统	Windows 10/ Linux (by request)
RF & AI	
移动蜂窝	4G LTE CAT 4, Mini PCIe slot
无线Lan	WiFi 802.11 b/g/n/ac, M.2 2230 E key
VPU (可选)	Intel Movidius Myriad X VPU, MA2485, M.2 2280 M key
C-V2X / DSRC (可选)	3GPP Rel.14 Compliant LTE-V2X direct communications
外置 I/O	
电源输入	AC input x 1, waterproof connector Male type
串口	RS-232 x 1, M12 waterproof connector Male type
SDI-12 (可选)	SDI-12 port x 1, M12 waterproof connector Male type
天线	Internal 4G LTE antenna x 1 Internal Wi-Fi antenna x 2
扩展槽	Mini PCIe slot x 2, for 3G/4G LTE M.2 2230 E key x 1, for WiFi M.2 2280 M key x 1, for Myriad X VPU Micro SIM slot x 1
其他接口	—
供电方式	
电源模式	80-264 VAC
物理特性	
外壳	Plastic and Metal enclosure
尺寸	11.4'' x 16.14'' x 8.2'' (290 x 410 x 209 mm)
重量	TBD
安装方式	Pole mount, Wall mount (Optional)
环境	
工作温度	32 °F ~ 140 °F (0 °C ~ 60 °C)
存储温度	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
工作湿度	10% ~ 90% relative humidity, non-condensing
备注	

专注 · 灵活 · 竞争力

03

网络平台解决方案

桌上型网安平台

型号	FWS-2365	FWS-2360
系统		
类型	Desktop Network Appliance	
处理器	Intel® Atom® Processor C3000 series (4~16 cores)	Intel® Atom™ Processor C3000 Series supports dual and quad core
芯片组	SoC	
系统内存	DDR4 SODIMM ECC x 2, up to 64GB	DDR4 SODIMM ECC DIMM (Dual core 1 slot Quad core 2 Slot) Up to 32GB
网络		
以太网	1GbE RJ-45 x 6 (2 ports co-lay SFP) 10G SFP+ x 4 (4 cores only support 2 port)	Intel® X553 (Marvell 88E1543) RJ45 x 4 Default Intel® i211 GbE x 2 (Intel® i210 SFP x 2 Optional)
旁路	Supports 1 pairs on LAN 3-4	Supports up to 2 pairs bypass function
显示		
图形控制器	—	
连接器	—	
存储		
HDD	SATA III port x 2, 2.5" HDD/SSD up to 2	2.5" HDD Bay x 1
CF/CFast/MSATA	On board 16GB eMMC, up to 128GB optional mSATA slot x 1 (co-lay with M.2 slot)	SATA 6.0 Gb/s port x 1(Onboard eMMC up to 16GB optional)
内置/ 扩展接口		
PCIe插槽	—	
Mini-PCIe插槽	Mini-card slot x 1 (Half-size, PCIe) Mini-card slot x 1 (Full-size, PCIe + USB2.0) with SIM slot M.2 B key 3052 x 1 (USB3.0) with SIM slot	Mini-Card socket (full-size) x 2 (1 with SIM socket)
键盘鼠标	Reserved pin-header	
USB	USB 3.0 x 2 (1 Port only support USB2.0 signal)	Dual Core: USB 3.2 Gen 1 x 1 + USB2.0 x 1
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	
软件按钮	GPIO programmable push button x 1	—
TPM	TPM v2.0 9665	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	4 bits input/ 4 bits output	(4 bits input, 4bits output optional)
风扇	System fan x 1	
MTBF (小时)	TBD	149683 Hours
颜色	Black	
环境参数和尺寸		
功耗	12V DC Power in connector 4 Cores: 40W Power Adapter 8 Cores and above: 60W Power Adapter	12V DC Power in connector
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10%~80% relative humidity, non-condensing	
存储湿度	10%~80% @40°C; non-condensing	
防振动	0.5 Grms/ 5 ~ 500Hz / operation (2.5" HDD) 1.5 Grms/ 5 ~ 500Hz / non operation	
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
尺寸 (W X D X H)	260mm x 178mm x 44mm	8.66" x 4.13" x 1.73" (220mm x 105mm x 44mm)
I/O		
前面板	Power LED x 1 Status LED x 1 Storage Active LED x 1 Bypass LED x 1 Ethernet LED x 20 Antenna Hole x 2 Accessible SIM slot x 2	Power LED x 1, Status LED x 1, Storage Active LED x 1, Bypass LED x 2, LAN LED x 12, (Antenna Hole x 2 Optional)
后面板	USB 3.0 Port x 2 RJ-45 Port x 6 SFP+ Port x 2 RJ-45 Console x 1 12V DC Power Input x 1 Software Reset Button x 1 Power Button x 1 Antenna Hole x 4	USB 3.2 Gen 1 Port x 2, RJ-45 Port x 6 (Optional RJ-45 x 4 + SFP x 2) RJ-45 Console x 1, 12V DC Power Input x 1, Software Reset Button x 1, Power Button x 1, (Antenna Hole x 2 Optional)
备注	Certified flexiWAN	

备注: 所有规格如有变更，恕不另行通知。

型号	FWS-2280	FWS-2276
系统		
类型	Desktop Network Appliance	
处理器	Intel Elkhart lake SoC Processor 2~4 cores	Intel® Celeron® Processor N3350 SoC
芯片组	SoC	
系统内存	260-pin DDR4 SO-DIMM x 1, 3200MHz	Onboard LPDDR4 2GB memory
网络		
以太网	Intel® i211, Gigabit Ethernet x 4 Intel® i210, SFP x 1	Intel® i211 GbE x 4
旁路	—	1 pair bypass function
显示		
图形控制器	Intel® UHD Graphics	Intel® HD graphics integrated
连接器	HDMI x 1	—
存储		
HDD	—	2.5” HDD Bay x 1
CF/CFast/MSATA	mSATA slot x 1 SATA III port x 1	Onboard 8GB eMMC, SATA 6.0 Gb/s port x 1
内置/ 扩展接口		
PCIe插槽	—	
Mini-PCIe插槽	Mini Card Socket (PCIe + USB 2.0, full size) with SIM x1 Mini Card Socket (PCIe, half size) x1 M.2 B key 3052 (USB 3.0, full size) with SIM x1(Optional)	—
键盘鼠标	—	
USB	USB 2.0 Type A x 2	USB 3.2 Gen 1 x 2
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	
软件按钮	GPIO Programmable push button x 1	—
TPM	(TPM SLB9670 VQ2.0 FW7.85 Optional)	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	4 bits input, 4bits output optional	
风扇	Smart fan x 1	1
MTBF (小时)	TBD	166,000
颜色	Black	
环境参数和尺寸		
功耗	2 x 12V DC Power Input Connector Lockable, 40W power adapter	12V DC Power
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10%~80% relative humidity, non-condensing	
存储湿度	10%~80% @40°C; non-condensing	
防振动	0.5 Grms/ 5 ~ 500Hz / operation (mSATA) 1.5 Grms/ 5 ~ 500Hz / non-operation	0.5 Grms/ 5 ~ 500Hz / operation (2.5” HDD) 1.5 Grms/ 5 ~ 500Hz / non operation
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non-operation	
尺寸 (W X D X H)	8.27” x 4.09” x 1.73” (210mm x 105mm x 44mm)	6.5” x 3.62” x 1.57” (165mm x 92mm x 40mm)
I/O		
前面板	3 x LEDs (Power, Status, Storage) 1 x Micro-SIM 2 x Antenna Hole	Power LED x 1 Status LED x 1 HDD Active LED x 1 Bypass LED x 1 LAN LEDs x 8
后面板	2 x DC Power Input Connector Lockable 1 x Power Button 2 x USB2.0 Ports 4 x 1GbE RJ45 Ports,1 SFP 1 x RJ-45 console 1 x Reset Button 3 x Antenna Hole	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 4 RJ-45 Console x 1 12V DC Power Input x 1 Software Programmable Button x 1 Antenna Hole x 2 Optional
备注	Certified flexiWAN	

桌上型网安平台

型号	FWS-2275	FWS-2273
系统		
类型	Desktop Network Appliance	
处理器	Intel® Celeron® Processor N3350 SoC	
芯片组	SoC	Intel® Celeron® N3350 Processor
系统内存	Onboard LPDDR4, 2GB	204-pin DDR3L SODIMM x 1, up to 8GB
网络		
以太网	Intel® i211 GbE x 3	Intel® i211, Gigabit Ethernet x 4 Intel® i210, SFP x 2
旁路	—	Supports up to 2 pairs bypass function
显示		
图形控制器	Intel® HD graphics integrated	Intel® HD Graphics 505 Intergrated
连接器	(HDMI Connector x1 Optional)	HDMI x 1
存储		
HDD	—	2.5" HDD Bay x 1
CF/CFast/MSATA	Onboard eMMC 16GB (Optional up to 32GB) SATA III Port x 1 for SATA DOM Micro SD card Reader x1	CompactFlash™ socket x 1 (Co-lay for BOM Optional CFast™ socket x 1) SATA 6.0 Gb/s port x 1
内置/扩展接口		
PCIe插槽	—	
Mini-PCIe插槽	Mini-Card Full Size Slot with SIM Socket x 1 (USB 2.0; PCIe co-lay with LAN 3)	Mini-Card socket (full-size) with SIM socket x 2
键盘鼠标	—	Reserved pin-header
USB	USB 3.2 Gen 1 x 2	
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	
软件按钮	GPIO Programmable push button x 1	—
TPM	(TPM2.0 9665 Optional)	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	4 bits input, 4bits output	Reserved internal pin-header 8-bit Digital I/O interface (4-in /4-out)
风扇	—	Fanless, reserved pin-header for system fan
MTBF (小时)	550,521 Hours	109,725
颜色	Black	
环境参数和尺寸		
功耗	9~24 V DC Power	12V DC Power in connector
工作温度	32°F ~ 122°F (0°C ~ 50°C)	32°F ~ 104°F (0°C ~ 40°C)
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10%~80% relative humidity, non-condensing	
存储湿度	10%~80% @40°C; non-condensing	
防振动	0.5 Grms/ 5 ~ 500Hz / operation 1.5 Grms/ 5 ~ 500Hz / non operation	0.5 Grms/ 5 ~ 500Hz / operation (2.5" HDD) 1.5 Grms/ 5 ~ 500Hz / non operation
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
尺寸 (W X D X H)	4.53" x 4.53" x 1.73 " (115mm x 115mm x 44mm)	8.66" x 4.13" x 1.73" (220mm x 105mm x 44mm)
I/O		
前面板	USB 3.2 Gen 1 Ports x 2 LED's (3 x TOP Row, 2 x Bottom Row)x 6 Power Button with LED integrated x 1 Micro-USB Console Port x 1 RS-232/422/485 x 1 GPIO 8 bits, 4-bits input, 4-bits output Reset button x 1	Power LED x 1 Status LED x 1 Storage Active LED x 1 Bypass LED x 2 LAN LED x 12
后面板	1GbE RJ45 Ports x 3 Power Input connector, lockable x 1	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 4 SFP x 2 RJ-45 Console x 1 12V DC Power Input x 1 Software Reset Button x 1 Power Button x 1 HDMI x 1 Antenna Hole x 2
备注		

备注: 所有规格如有变更，恕不另行通知。


型号	FWS-2272	FWS-2271
系统		
类型	Desktop Network Appliance	Desktop 6-port Network Appliance
处理器	Intel® Celeron® N3350 Processor	
芯片组	Intel® Celeron® N3350 Processor	Integrated
系统内存	Onboard LPDDR4 1GB memory. Optional BOM SKU supports 204-pin DDR3L SODIMM x 1, up to 8GB	204-pin DDR3L 1867MHz SODIMM Up to 1, 8 GB
网络		
以太网	Intel® i211, Gigabit Ethernet x 4	Intel® i211 (Co-lay with Intel® i210), Gigabit Ethernet x 6 (BOM Optional 4 Ports)
旁路	—	Supports up to 2 pairs bypass function
显示		
图形控制器	Intel® HD Graphics 505 Intergrated	
连接器	—	HDMI x 1
存储		
HDD	—	2.5" HDD Bay x 1
CF/CFast/MSATA	Onboard 8GB eMMC SATA 6.0 Gb/s port x 1, for SATA DOM	CFast™ socket x 1 (Co-lay for BOM Optional CompactFlash™ socket x 1)
内置/扩展接口		
PCIe插槽	—	
Mini-PCIe插槽	Mini-Card socket (full-size) with SIM socket x 1	Mini-Card socket (full-size) with SIM socket x 2
键盘鼠标	—	Reserved pin-header
USB	USB 3.2 Gen 1 x 2	USB 3.2 Gen 1 Type A on I/O side x 2
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	
软件按钮	—	GPIO Programmable push button x 1
TPM	(TPM v1.2 9660/TPM2.0 9665 Optional)	Optional TPM v1.2 9660/TPM2.0 9665
GPIO	Reserved internal pin-header 8-bit Digital I/O interface (4-in /4-out)	Reserved internal pin-header 8-bit Digital I/O interface (4-in /4-out)
风扇	Fanless	System Fan x 1
MTBF (小时)	162,469	118,725
颜色	Silver	White
环境参数和尺寸		
功耗	12V DC Power in connector	12V DC In/ 40W power adapter x 1
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10%~80% relative humidity, non-condensing	
存储湿度	10%~80% @40°C; non-condensing	
防振动	0.5 Grms/ 5 ~ 500Hz / operation (SATA DOM) 1.5 Grms/ 5 ~ 500Hz / non operation	0.5 Grms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz/ non-operation
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
尺寸 (W X D X H)	6.1" x 3.62" x 1.26" (155mm x 92mm x 32mm)	7.87" x 4.13" x 1.73"(200mm x 105mm x 44 mm)
I/O		
前面板	Power LED x 1 Status LED x 1 Storage Active LED x 1 LAN LED x 8	Bypass LED x 2 Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LED x 12
后面板	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 4 RJ-45 Console x 1 12V DC Power Input x 1 Software Reset Button x 1 Power Button x 1 Antenna Hole x 2	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 6 (BOM Optional RJ-45 Port x 4) RJ-45 Console x 1 12V DC Power Input x 1 Software Programmable button x1 HDMI x 1 Power Button x 1
备注		

桌上型网安平台

		第三季度推出	第二季度推出
型号	**FWS-2277**	**FWS-2281**	**FWS-2290**
系统			
类型	Desktop Network Appliance		
处理器	Intel® Celeron® Processor N3350 SoC	Intel Elkhart Lake SoC Processor 2~8 cores	Intel Alder lake N SoC Processor 2~8 cores
芯片组	SoC		
系统内存	Onboard LPDDR4, 4GB	260-pin DDR4 3200MHz SODIMM x 1, Up to 32GB	On board 4G LPDDR5 up to 16GB
网络			
以太网	Intel® i211, Gigabit Ethernet x 2	Intel® i226V, Gigabit Ethernet x 4 Intel® i210, SFP x 2	Intel® i226V, Gigabit Ethernet x 4
旁路	—	2 Pair	1 Pair
显示			
图形控制器	Intel® UHD Graphics		
连接器	HDMI x 1		HDMI x 1 Optional
存储			
HDD	—		
CF/CFast/MSATA	eMMC 16G	16G eMMC SATA III port x 1	
内置/ 扩展接口			
PCIe插槽	—		
Mini-PCIe插槽	Mini-Card Full Size Slot x1	Mini Card Socket with SIM push-push type (Full Size) for 4G/LTE , Co-lay M.2 (B Key 3052) for 5G/ fixable IO for reserve SATA signal for SATA M.2 storage M.2 (E Key 2230) Co-lay Mini-Card slot for WiFi	M.2 (B Key 3052) for 5G (Co-lay Mini-Card slot-2 with Push-pin SIM for 4G LTE/Wifi reserve 3042 screw hold for 4G LTE M.2 (E Key 2230) (Co–lay Mini-Card-1 slot for WiFi)
键盘鼠标	—		
USB	USB 3.2 Gen 1 x 2	USB 3.1 Type A x2 (one only have 2.0 ,share to M.2 for LTE)	
其他参数			
RTC	Internal RTC		
看门狗定时器	1~255 steps by software programmable		
软件按钮	GPIO Programmable push button x 1		
TPM	(TPM SLB9670 VQ2.0 FW7.85 Optional)		
GPIO	(4 bits input, 4bits output optional)		
风扇	Fan-less	Fan x1	
MTBF (小时)	TBD	TBD	TBD
颜色	Black		
环境参数和尺寸			
功耗	12V DC Power Input Connector non-lock, 24W power adapter	2 x 12V DC Power Input Connector Lockable, 40W power adapter	1 x 12V DC Power Input Connector Lockable, 40W power adapter
工作温度	32°F ~ 104°F (0°C ~ 40°C)		
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)		
工作湿度	10%~80% relative humidity, non-condensing		
存储湿度	10%~80% @40°C; non-condensing		
防振动	0.5 Grms/ 5 ~ 500Hz / operation (mSATA) 1.5 Grms/ 5 ~ 500Hz / non-operation		
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non-operation		
尺寸 (W X D X H)	4.53” x4.53” x 1.26”(115mm x115mm x 32mm)	8.66” x 4.09” x 1.73” (220mm x 105mm x 44mm)	6.5” x 3.62” x 1.57” (165mm x 92mm x 40mm)
I/O			
前面板	USB 3.2 Gen 1 x 2 Power Button x 1 Reset Button x 1	3 x LEDs (Power, Status, Storage) 1 x Micro-SIM 3 x Antenna Hole	3 x LEDs (Power, Status, Storage) 1 x Micro-SIM 2 x Antenna Hole
后面板	DC Power Input Connector non-lock x 1 1GbE RJ45 Ports x 2 HDMI x 1	2 x DC Power Input Connector Lockable 1 x Power Button 2 x USB2.0 Ports 4 x 1GbE RJ45 Ports,2 SFP 1 x RJ-45 console 1 x Reset Button 3 x Antenna Hole	1 x DC Power Input Connector Lockable 1 x Power Button 2 x USB2.0 Ports 4 x 1GbE RJ45 Ports 1 x RJ-45 console 1 x Reset Button 2 x Antenna Hole
备注			

备注: 所有规格如有变更，恕不另行通知。

型号	FWS-8600	FWS-7541
系统		
类型	2U Rackmount Network Platform	1U Rackmount ICE-Lake-D LCC Platform Network Appliance
处理器	Dual 2nd Gen Intel® Xeon® Scalable Processors, up to 56 cores, 112 threads	Intel® Xeon® ICE-Lake-D LCC Processors
芯片组	Intel® C621 Chipset	SoC
系统内存	DDR4 2133/2400/2666 R-DIMM x 16 (8 DIMM per CPU), Up to 512 GB	Upto DDR4 SO-DIMM ECC DIMM slots x 2
网络		
以太网	Intel® i211 Gigabit Ethernet x 2	1Gb RJ45 (I350 AM4 x 3) x 12 + Upto 4 x 10Gb SFP+ (SKU optional)
旁路	Depend on NIM module	2 Pairs LAN Bypass 3.1
NIM插槽	NIM x 4 (Project based up to 8 slots)	NIM Slot x 1 (Optional)
显示		
图形控制器	Optional support via Mini-PCIe module or IPMI	—
连接器	Optional VGA port via module	VGA from IPMI x 1 (Optional by BOM SKU)
存储		
HDD	SATA III Port x 6 External Hotswappable 3.5" HDD Bay x 4 Internal 3.5" HDD Bay x 1, option with 2.5" HDD Bay x 2	2.5" HDD x 2 (default) or 3.5" HDD x 1(If no NIM module presence)
CF/CFast/mSATA	M.2 2260 M-key x 1 mSATA slot x 1 (share same slot with Mini-Card)	—
内置/ 扩展接口		
PCIe插槽	Optional PCIe [x16] slots x 2, via riser card	—
Mini-Card插槽	Mini Card slot (full-size) x 1 (PCIe/SATA, USB2.0)	M.2 (B key 3052) for 4G/5G (USB3.0 + PCIe) x 1 with SIM M.2 (E key 2230) (PCIe) x 1
IPMI	Optional IPMI via AAEON Module (Project based)	Optional by BOM SKU
键盘鼠标	—	
USB	USB 3.2 Gen1 x 2 (Optional 2*10 pin USB 3.2 Gen1 x 2 Box Header 2.0mm)	USB3.2 GEN1 x 2
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	1~255
软件按钮	GPIO Programmable push button x 1	1
TPM	(Optional TPM2.0 9665 on board)	TPM2.0 SPI
GPIO	(4 bits input, 4 bits output optional)	N/A, DIO pin header x 1 (4-in/4-out), optional by BOM SKU
风扇	5 x Hotswappable FAN	System Fan x 1
MTBF (小时)	192,691 Hours	TBD
颜色	Black	
环境参数和尺寸		
功耗	550 ~ 600W Redundant Power	220W Power
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10% ~ 80% relative humidity, non-condensing	
存储湿度	10% ~ 80% @40°C; non-condensing	0%~80% @40°C; non-condensing
防振动	0.5 Grms/ 5 ~ 500Hz / operation (3.5" Hard Disk Drive x 5) 1.5 Grms/ 5 ~ 500Hz / non operation	0.5 g rms/ 5 ~ 500Hz / operation (2.5" Hard Disk Drive) 1.5 g rms/ 5 ~ 500Hz / non operation
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
尺寸 (W X D X H)	17.48" x 22.83" x3.46" (444mm x 580mm x 88mm)	16.93" x 7.87" x1.73"(430mm x 200mm x 44mm)
I/O 接口		
前面板	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 Software Programmable Button x1 RJ-45 LAN x 2 IPMI x 1 (Project based)	12 x 1Gb RJ45 + upto 4 x 10Gb SFP+ (Optional by BOM SKU) Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 GEN1 Ports x 2 RJ-45 Console x 1 LCM display with keypad x 1 Software Programmable Button x 1
后面板	AC Power Input x 2, Power Switch x 1, VGA port (Optional), Rear Expansion Slot x 2 (PCIe [x16] Optional)	AC Power Input x 1 Power Switch x1
备注		

机架式网安平台

型号	FWS-7840	FWS-7830
系统		
类型	1U Rackmount Network Platform	
处理器	10th Generation Intel® Core™/ Xeon® processor	8th Generation Intel® Core™/ Xeon® processor
芯片组	Intel® W480E	Intel® C246
系统内存	2 x DDR4 2666MHz U-DIMM ECC DIMM slots up to 64G	DDR4 2133/2400/2666 UDIMM Up to 128GB 288-pin DIMM x 4
网络		
以太网	8 x 1Gb RJ45 Port or 6 x 1Gb RJ45 + 2 x 1Gb SFP , with 2 xi350AM4 LAN chips 2 x 10Gb SFP+ with XL710 AM2 LAN chip (Option)	Intel® I350 AM2 Gigabit Ethernet x 2
旁路	2 Pairs	Depend on NIM module
NIM插槽	NIM slot x 2	NIM Slot x 3
显示		
图形控制器	Intel® UHD Graphics	Intel® HD graphics integrated
连接器	(HDMI x1 Optional)	VGA cable (Optional)
存储		
HDD	SATA III port x 2, 2.5" HDD/SSD up to 2	Internal 2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (Optional)
CF/CFast/mSATA	1 x Mini card socket (Option mSATA)	Default mSATA Slot (Optional CFast™ Socket)
内置/ 扩展接口		
PCIe插槽	Optional PCIe [x8] slot x 1, via riser card	
Mini-Card插槽	Mini Card x 1	
IPMI	—	
键盘鼠标	—	Pin-header
USB	USB 3.2 Gen1 x 2	USB 3.2 Gen 1 x 2, Box Header (2.0mm)
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	1~255 steps by software programmable, 1 sec per step
软件按钮	GPIO Programmable push button x 1	
TPM	TPM v2.0 9665	Optional TPM v2.0
GPIO	4 bits input/4 bits output	8bits, BIOS default 4 bits input, 4bits output.
风扇	System Fan x 2	2
MTBF (小时)	TBD	TBD
颜色	Black	
环境参数和尺寸		
功耗	220W ATX PSU or 250W ATX PSU	
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10% ~ 80% relative humidity, non-condensing	
存储湿度	10% ~ 80% @ 40°C, non-condensing	
防振动	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation	
抗冲击	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation	
尺寸 (W X D X H)	430mm x 305mm x 44mm	16.93" x 18.7" x1.73"(430mm x 475mm x 44mm)
I/O 接口		
前面板	Power LED x 1 Status LED x 1 Storage Active LED x 1 Bypass LED x 2 Ethernet LED x 16 USB 3.2 Type A port x 2 Parallel LCM display and 4 keypad x 1 Software Programmable Switch x 1 1 GbE RJ-45 x 8 or 1 GbE RJ45 x 6 + SFP x 2 10 GbE SFP+ x 2LAN port (Option by module) NIM Slot x 2	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 Software Programmable Switch x 1
后面板	AC Power Input x 1, Power Switch x 1, (Rear Expansion Slot x 1 Optional)	AC Power Input x 1 Power Switch x 1 VGA port (Optional)
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	FWS-7831	FWS-7821
系统		
类型	1U Rackmount Network Platform	
处理器	Intel® Xeon® processor E-2100 family for Intel® C246 Chipset Intel® Core™/ Celeron® processor for Intel® H310 Chipset	6th/7th Generation Intel® Core™/ Xeon® processors
芯片组	Intel®C246/H310	Intel® C236
系统内存	260-pin DDR4 1600/1866/2133 SODIMM/ECC x 2, upto 64GB	DDR4 1600/1866/2133/2400 UDIMM/ECC Up to 64GB 288-pin DIMM x 4
网络		
以太网	Intel® i211 Gigabit Ethernet x 8 or Intel ® i211 Gigabit Ethernet x 6 + SFP Ethernet ports x2 (C246) Intel® i211 Gigabit Ethernet x 6 (H310)	Intel® i211 GbE x 6 + Intel® i210 GbE x 2 (SFP) + NIM x 1(Or i211 GbE x8 +NIMx1)UDIMM/ECC
旁路	2 Pairs	Onboard 2 pairs bypass, others depend on NIM module
NIM插槽	Need to configure riser card	1
显示		
图形控制器	Intel® UHD Graphics 630	Intel® HD graphics integrated
连接器	(HDMI x1 Optional)	VGA cable (Optional)
存储		
HDD	Internal 2.5" HDD bay x 2 or (3.5" HDD bay x 1 can't use with NIM Optional)	Internal 2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (optional)
CF/CFast/mSATA	mSATA	Optional BOM CFast™ socket or mSATA slot or CF™ socket (optional)
内置/ 扩展接口		
PCIe插槽	—	Up to PCIe[x8] slot x 2
Mini-Card插槽	Mini-Card x 1 (PCIe[x1] + mSATA)	Mini Card x 1
IPMI	—	
键盘鼠标	—	Pin-header
USB	USB 3.2 Gen 1 x 2	USB 3.2 Gen 1 x 2, Box Header (2.0mm)
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	1~255 steps by software programmable, 1 sec per step
软件按钮	GPIO Programmable push button x 1	
TPM	(TPM2.0 9665/TPM v1.2 9660 optional)	TPM v1.2 9660 (TPM2.0 9665 optional)
GPIO	4 bits input, 4 bits output	
风扇	2	
MTBF (小时)	362,825 Hours	94,241
颜色	Black	
环境参数和尺寸		
功耗	220W ATX PSU	250W ATX PSU or 220W ATX PSU
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10%~80% relative humidity, non-condensing	
存储湿度	10%~80% @40°C; non-condensing	
防振动	0.5 Grms/ 5 ~ 500Hz / operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz / non operation	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
抗冲击	TBD	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation
尺寸 (W X D X H)	16.93" x 7.87" x1.73"(430mm x 200mm x 44mm)	16.93" x 12.01" x 1.73" (430mm x 305mm x 44mm)
I/O 接口		
前面板	Power LED x 1, Status LED x 1, HDD Active LED x 1 ,USB 3.2 Gen 1 Ports x 2 - RJ-45 Console x 1	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 (Optional w/ NIM slot) Software Programmable Switch x 1 Bypass LED X2 RJ45 X8 or RJ45 X6+SFPX 2
后面板	AC Power Input x 1, Power Switch x 1, (Rear Expansion Slot x 1 Optional)	AC Power Input x 1 Power Switch x 1 VGA port (Optional) Rear Expansion Slot x 2 (2 x PCIe [x8] slots, NIM slot will be disabled if PCIe Riser supported)
备注		

机架式网安平台

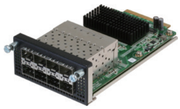
第二季度推出

型号	FWS-7360	FWS-7850
系统		
类型	1U Rackmount Network Platform	
处理器	Intel® C3758 processor SoC, optional support up to 16 core	Intel® Alder Lake-S Processors
芯片组	SoC	W680
系统内存	DDR4 Slot x 4, Support ECC UDIMM/RDIMM upto 256GB	288-pin UDIMM DDR5 ECC x 4, up to 128GB
网络		
以太网	Intel®X553 RJ45 x 2, Intel® i211 GbE x 3, SFP+ x 2 from CPU	RJ45 /SFP Ethernet ports x 2 (Intel i350-AM2 x 1)
旁路	Onboard 2 pairs bypass, others depend on NIM module	Depend on NIM module expansion
NIM插槽	1	NIM slot x 3 Option1: PCIe [x4,x4] GEN3.0 x 2 + PCI-E [x8] GEN3.0 x 1 Option2: PCI-E [x4, x4] GEN3.0 x 3)
显示		
图形控制器	—	
连接器	—	HDMI port x 1
存储		
HDD	2.5” HDD Bay x 2	Optional 1: 2.5” HDD Bay x 2 or 3.5” HDD x 1 Option 2: 2.5” HDD Bay x 2 + 3.5” HDD x 1 (Rear expansion not presented) Option 3: Upto 2.5” HDD Bay x 6 (Rear expansion not presented)
CF/CFast/mSATA	Default SATA III port x 2 (MSATA Slot X 2 Optional)	—
内置/扩展接口		
PCIe插槽	PCIe [x8] slot x 1, cannot use w/ NIM	—
Mini-Card插槽	Default Mini-Card socket (full-size) x1 (Mini-Card socket (full-size) with SIM socket x 1 Optional)	Mini Card x 1(PCIe [x1] / USB) Colay mSATA M.2 M key 2280 x 1 (PCIe [x4] or SATA [x1]) for NVMe colay SATA
IPMI	—	IPMI port x 1
键盘鼠标	—	
USB	USB 3.2 Gen 1 x 2	
其他参数		
RTC	Internal RTC	
看门狗定时器	1~255 steps by software programmable	
软件按钮	GPIO Programmable Button x 1	1
TPM	Optional TPM v1.2 / TPM v2.0	TPM2.0 SPI
GPIO	4 bits input, 4bits output	Reserve internal pin header 8-bit Digital I/O interface (4-in /4-out)
风扇	System Fan x 1	Smart Fan x 3
MTBF (小时)	142,412	TBD
颜色	Black	
环境参数和尺寸		
功耗	150W Flex ATX PSU	Single AC/DC 1U Flex ATX 220W x 1 or 1U 300W Redundant PSU(optional) x 1
工作温度	32°F ~ 104°F (0°C ~ 40°C)	
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	
工作湿度	10%~80% relative humidity, non-condensing	
存储湿度	10%~80% @40°C; non-condensing	0%~80% @40°C; non-condensing
防振动	0.5 Grms/ 5 ~ 500Hz / operation (2.5” HDD) 1.5 Grms/ 5 ~ 500Hz / non operation	
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
尺寸 (W X D X H)	16.93” x 12.01” x 1.73” (430mm x 305mm x 44mm)	16.93” x 15.75” x1.73”(430mm x 400 mm x 44mm)
I/O 接口		
前面板	SFP+ with LED x 2 RJ45 Ethernet Port with LED x 5 USB 3.2 Gen 1 x 2 RJ45 Console x 1 Software Programmable Button x 1 Parallel LCM Display and 4 Keypad x 1 LED for Power/HDD/ Status/ Bypass x 5 NIM Slot x 1 Bypass LED x 2 Power LED x1 HDD LED x1 Status LED x1	RJ45 /SFP Ethernet ports x 2 Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 GEN1 Ports x 2 HDMI port x 1 RJ-45 Console x 1 LCM display with keypad x 1 Software Programmable Button x 1 NIM Slot x 3 IPMI port x 1
后面板	Power Switch x 1 AC Power Input x 1 Rear Expansion Slot x 1	AC Power Input x 1 Power Switch x1 Rear expansion slot x 1 (PCIe [x8]): Optional
备注		

第一季度推出

型号	FWS-7851
系统	
类型	1U Rackmount Network Appliance
处理器	Intel® Alder Lake-S Processors
芯片组	W680; (Project base Q670, H610)
系统内存	DDR5 SODIMM slots x 2
网络	
以太网	2.5Gb RJ45 x 10 (I226-LM) , 1Gb SFP ports x 2 (I210); Optional for 10Gb SFP+ x 2(PER-T639 by PCIe[x4]) Note: If H610, only 8x 2.5GB RJ45 available
旁路	2 Pairs LAN Bypass 3.1 (LAN 3-4, LAN 5-6)
NIM插槽	NIM Slot x 1, support PCIe[x4] x 2 interface, optional PCIe[x8] x 1 by BOM SKU
显示	
图形控制器	—
连接器	HDMI port x 1
存储	
HDD	2.5" HDD x 2 (default) or 3.5" HDD x 1(If no NIM module presence)
CF/CFast/mSATA	—
内置/ 扩展接口	
PCIe插槽	—
Mini-Card插槽	M.2 M key 2242/2260 (PCIe[x4]) x 1
IPMI	—
键盘鼠标	—
USB	USB3.2 GEN1 x 2
其他参数	
RTC	Internal RTC
看门狗定时器	1~255
软件按钮	1
TPM	TPM2.0 SPI
GPIO	Internal pin header 8-bit Digital I/O interface (4-in /4-out)
风扇	System Fan x 2
MTBF (小时)	TBD
颜色	Black
环境参数和尺寸	
功耗	220W Power
工作温度	32°F ~ 104°F (0°C ~ 40°C)
存储温度	-4°F~ 140°F (-20°C ~ 60°C)
工作湿度	10%~80% relative humidity, non-condensing
存储湿度	0%~80% @40°C; non-condensing
防振动	0.5 g rms/ 5 ~ 500Hz / operation (2.5” Hard Disk Drive) 1.5 g rms/ 5 ~ 500Hz / non operation
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
尺寸 (W X D X H)	16.93” x 7.87” x1.73”(430mm x 200mm x 44mm)
I/O 接口	
前面板	2.5Gb RJ45 port x 10 + 10Gb SFP port x 2 + Optional 10Gb SFP+ port x 2 (via PCIe [x4] Slot) Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 GEN1 Ports x 2 HDMI port x 1 RJ-45 Console x 1 LCM display with keypad x 1 Software Programmable Button x 1 NIM Slot x 1
后面板	AC Power Input x 1 Power Switch x1
备注	

机架式网安平台：网络接口模块



型号	NIM-S13B	NIM-S13D	NIM-S13E
主要规格			
类型	1G Fiber Module		
主芯片组	Intel® 82580EB (i350-AM4; Optional by request) Ethernet Controller x 2	Intel® 82580EB (i350-AM4; Optional by request) Ethernet Controller x 1	
旁路	—	—	2
主控接口	PCI-Express [x4]		
LAN端口	SFP 1GbE Connector x 8	SFP 1GbE Connector x 4	
指示灯	LED x 8 for Active/Link	LED x 4 for Active/Link	
认证	CE/FCC Class A		
工作温度	32°F ~ 104°F (0°C ~ 40°C)		
尺寸	5.71” x 3.03” (145mm x 77mm)		
备注			



型号	NIM-C13B	NIM-C13D	NIM-S26B
主要规格			
类型	1G LAN Module	1G Copper Module	40G Fiber Module
主芯片组	Intel® 82580EB (i350-AM4; Optional by request) Ethernet Controller x 2	Intel® 82580EB (i350-AM4; Optional by request) Ethernet Controller x 1	Intel® Fortville XL710 Ethernet Controller x 1
旁路	—	2	—
主控接口	PCI-Express [x8] (x4 + x4)	PCI-Express [x4]	PCI-Express [x8]
LAN端口	1GbE Connector x 8	1GbE Connector x 4	QSFP 40GbE Connector x 2
指示灯	LED x 8 for Active/Link	LED x 4 for Active/Link	LED x 2 for Active/Link
认证	CE/FCC Class A		
工作温度	32°F ~ 104°F (0°C ~ 40°C)		
尺寸	5.71” x 3.03” (145mm x 77mm)		
备注			

机架式网安平台：网络接口模块


第一季度推出

型号	NIM-S26C	NIM-S26D	NIM-C15A
主要规格			
类型	10GbE Fiber LAN Module		2.5G Copper Module
主芯片组	Intel® XL710 Ethernet Controller x 1	Intel® XL710-BM1 Ethernet Controller x 1	Intel i226V by 2x ASM 1806(2806)
旁路	—		2
主控接口	PCI-Express [x8]		PCI-Express Gen2/3 [x2]
LAN端口	SFP+ 10 GbE Connector x 4	SFP+ 10 GbE Connector x 4 SR	2.5G GbE RJ45 x 8
指示灯	LED x 4 for Active/Link		LED x 8 for Active/Link
认证	CE/FCC Class A		
工作温度	32°F ~ 104°F (0°C ~ 40°C)		
尺寸	5.71” x 3.03” (145mm x 77mm)		
备注			

工业级网络设备

型号	ICS-6270	ICS-6280
系统		
类型	DIN Rail/ Desktop	
处理器	Intel® Celeron® Processor N3350 SoC	Intel Atom® x6000E Series Processor, 2~4 cores
系统内存	204-pin DDR3L 1866MHz x 1, SODIMM Up to 8GB	260-pin DDR4 3200Mhz SODIMM with IBECC support x 1
芯片组	—	SoC
以太网	Intel® i210AT, Gigabit Ethernet x 6	Intel® i210AT Gigabit Ethernet x 4
旁路	Supports up to 2 pairs	Supports upto 2 Pairs LAN Bypass (Optional)
BIOS	AMI SPI Flash BIOS	
SATA	SATA 6.0 Gb/s port x 1, for 2.5” HDD/SSD	SATA III port x 1 for 2.5”SSD support
CFast/mSATA	CFast™ socket x 1	mSATA (Full size) socket colay SATAIII port x 1
扩展接口	Supports Mini-Card slot x 1 with SIM socket	Supports Mini-card slot x 1 with Micro SIM socket
USB	USB 3.2 Gen 1 x 2	
串口	Supports up to RS-232/422/485 COM Port x 2	
看门狗定时器	1~255 steps by software programmable	
RTC	Internal RTC	
系统风扇	Fanless	
颜色	Dark Grey	Black
电源供应器	2 Pin Terminal Block	Dual 2-Pin Phoenix terminal block
尺寸	4.96” x 2.93” x 5.74” (126 x 74.5 x 146mm)	5.12” x 4.96” x 2.83” (130mm x 126mm x 72mm)
电源要求	+9 ~ 36V, 2-pin terminal block	Redundant 9~48Vdc power input
MTBF (小时)	101,292	TBD
显示		
芯片组	Intel® HD Graphics 500	Intel® HD Graphics
接口	VGA port x 1	HDMI port x 1, VGA port x 1
I/O		
前面板 I/O	RJ-45 GbE x 6 RS-232/422/485 COM Port x 2 VGA port x 1 USB 3.2 Gen 1 x 2 Software programmable button x 1 Power LED x 1 HDD LED x 1 Status LED x 1 Bypass LED x 2	RJ-45 GbE x 4 RS-232/422/485 COM Ports x 2 HDMI portx1 VGA port x 1 USB 3.2 Gen 1 x 2 Micro SIM slot x 1 Software programmable button x 1 Power LED x 1 HDD LED x 1 Status LED x 1
后面板 I/O	DIN Rail/ Wallmount Lock	
上面板	2-Pin Terminal Block +9~36VDC x 1	2-Pin Terminal Block +9~46VDC x 2
环境参数和尺寸		
工作温度	-40°F ~ 156°F (-40°C ~ 75°C)	
存储温度	-40°F ~ 185°F (-40°C ~ 85°C)	
工作湿度	10% ~ 80% relative humidity, non-condensing	
存储湿度	10% ~ 80% @40°C; non-condensing	
防振动	0.5 Grms/ 5 ~ 500Hz / operation (SSD) 1.5 Grms/ 5 ~ 500Hz / non operation	0.5 g rms/ 5 ~ 500Hz / operation (2.5” SSD) 1.5 g rms/ 5 ~ 500Hz / non operation
抗冲击	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation	
备注		

专注 · 灵活 · 竞争力

04

强固型移动平板电脑解决方案

强固型平板电脑

型号	RTC-710RK	RTC-710AP
系统架构		
处理器	Rockchip RK3399K Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)	Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium® N4200 1.1GHz Quad core up to 2.5GHz
操作系统	Android 8.1	Windows® 10 IOT Enterprise SAC
内存	Onboard LPDDR4 2GB (Default) / 4GB	Onboard LPDDR4 4GB (Default) / 8GB
存储	eMMC 16GB (Default) / 32GB / 64GB	eMMC 64GB (Default) / 128GB
显示	7" WXGA (1280x800) 300-nit / 700-nit TFT LCD With Projected Capacitive Multi-Touch Screen	7" WXGA (1280x800) 300-nit / 700-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O 端口	SIM card slot x 1 USB 3.2 Gen 1 Type-C x 1 Audio jack x 1 (3.5mm) DC-in jack x 1 Micro-SD card slot x 1 USB 2.0 Type-A x 1 UART Port x 1 (Via I/O Module) 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)	SIM card slot x 1 USB 3.2 Gen 1 Type-C x 1 Audio jack x 1 (3.5mm) DC-in jack x 1 Micro-SD card slot x 1 USB 2.0 Type-A x 1 RS-232 COM Port x 1 (Via I/O Module) 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)
通讯	Wi-Fi 802.11 b/g/n, Bluetooth v4.2 (EDR + BLE)	Wi-Fi 802.11 b/g/n, Bluetooth v5.1
导航	GPS + GLONASS (Default), BeiDou (Optional), External Antenna (Optional)	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional) External Antenna (Optional)
WWAN(可选)	LTE via M.2 slot (Optional) Hot-swappable Battery can not be used when LTE module is installed.	LTE via M.2 slot (Optional) Hot-swappable Battery can not be used when LTE module is installed.
摄像头	8MP front camera 8MP rear camera with flash	2MP front camera, 8MP rear camera with flash
传感器	G-sensor, E-compass, Gyro-sensor, Light-sensor	
扩展槽	M.2 slot x 1, Docking connector: USB 3.2 Gen 1 x 1	
条形码扫描器 (可选)	2D Barcode scanner, OPTICON MDI-4100-USB via I/O module (Optional)	
HF RFID (可选)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (R/W), Depend on card type	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type
音频	Speaker x 1	
物理按键	F1 (Audio On/Off), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down	F1 (Ctrl+Alt+Del as Soft Reboot), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down
机构		
颜色	Dark Gray	
尺寸 (W x H x D)	8.65" x 5.46" x 0.94" (219.8 x 138.8 x 23.9 mm)	
总重量	1.54 lb (0.7 Kg) based on configurations	
环境		
工作温度	-4°F ~ 140°F (-20°C ~ 60°C) for high-brightness version	-4°F ~ 122°F (-20°C ~ 50°C) for high-brightness version
存储温度	-22°F ~ 158°F (-30°C ~ 70°C)	
湿度	MIL-STD-810G Method 507.5	
环境密封	IP65	
抗振动	MIL-STD-810G Method 514.6	
抗跌落	MIL-STD-810G Method 516.6 Procedure IV, Height of Drop: 122 cm (48 inch; 4 ft)	
防冲击	MIL-STD-810G	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV	
认证和标准	UL62368-1, CE, FCC, IC	CE, FCC
电源		
AC / DC适配器	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W	
续航时间	Li-ion Battery 8-hour battery life based on test configurations	
主电池	7.2V, 4540mAh, 32.7W	
从电池	Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)	
显示		
LCD	7" TFT-LCD / 16:10, with LED backlight	
分辨率	1280 x 800	
最大色彩数	—	
点尺寸	0.03925(H) X 0.11775(V) mm	
亮度	700 / 300 nits	
可视角度	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)	
触摸屏		
触控类型	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)	
透光率	Min. 85%	
备注		

备注: 所有规格如有变更，恕不另行通知。


型号	RTC-1010	RTC-1010M
系统架构		
处理器	Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz, Intel® Pentium® N4200 1.1GHz Quad core up to 2.5GHz	
操作系统	Windows® 10 IOT Enterprise SAC	
内存	Onboard DDR3L 4GB (Default) / 8GB	
存储	eMMC 64GB (Up to 256GB, Optional)	
显示	10.1" WXGA (1280x800) 800-nit / 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen	10.1" WXGA (1280x800) 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O 端口	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 (3.5mm) USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1 Smart card reader x 1 (Optional, Without IP protection)	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1 Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1 RS-232/422/485 COM Port x 1 (Optional) 10/100/1000 Base-T RJ45 x 1 (Optional) Smart card reader x 1 (Optional, Without IP protection) MSR reader x 1 (Optional, Without IP protection)
通讯	Wi-Fi 802.11 b/g/n, Bluetooth v5.1 (EDR + BLE), Intel AC9260	
导航	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)	
WWAN(可选)	LTE via mini-card slot (Optional)	
摄像头	2MP front camera, 8MP rear camera with flash	
传感器	G-sensor, E-compass, Gyro-sensor, Light-sensor	
扩展槽	Inside M.2 slot x 1 (For WiFi module), Mini-card slot x 1 (For LTE module), Docking connector: USB 2.0 x 1	
条形码扫描器 (可选)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)	
HF RFID (可选)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type	
音频	Speaker x 1	
物理按键	F0 or Windows (Windows Start Key), F1 (BCR Trigger Butten (When BCR is enabled)), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)	
机构		
颜色	Black & Dark Grey	
尺寸 (W x H x D)	10.71" x 7.48" x 0.80" (272.0 x 190.0 x 20.4 mm)	
总重量	1.0 Kg (2.2 lb) based on configurations	2.1 lb (0.95 Kg) based on configurations
环境		
工作温度	-4°F ~ 122°F (-20°C ~ 50°C)	
存储温度	-67°F ~ 158°F (-55°C ~ 70°C)	-22°F ~ 158°F (-30°C ~ 70°C)
湿度	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
环境密封	IP65	IP54
抗振动	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating) ASTM 4169-99 Truck Assurance Level II, Schedule E (Unit is non-operating)	—
抗跌落	MIL-STD-810G-516.6, Procedure IV Drop height: 122 cm Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2“ plywood over concrete	Drop height: 76 cm Condition: Based on 2“ plywood over concrete
防冲击	—	
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV	
认证和标准	UL60950-1, CE, FCC	
电源		
AC / DC适配器	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W	
续航时间	Li-ion Battery 8-hour battery life based on test configurations	
主电池	Hot-swappable battery: 14.4V, 2270mAh, 32.7W	
从电池	7.4V, 1530mAh, 11.3W	
显示		
LCD	10.1” TFT-LCD Display	
分辨率	1280 x 800	
最大色彩数	16.7M	
点尺寸	0.1692 (H) x 0.1692 (V) mm	
亮度	300 nits (800 nits, Optional)	
可视角度	Horizontal: 170°, Vertical: 170° (Typical)	
触摸屏		
触控类型	Projected Capacitive Multi-Touch Screen (PCT)	
透光率	Min. 85%	
备注		

强固型平板电脑

型号	RTC-1020	RTC-1200
系统架构		
处理器	Intel® Core™ i Tiger Lake UP3 processor i5-1145G7E / i3-1115G4E / Celeron 6305E	Intel® Core™ i 7100U / 7300U Dual Core up to 3.9GHz Intel® Celeron® 3965U Dual Core 2.2GHz Processor
操作系统	Windows® 10 IOT Enterprise SAC (Default), Ubuntu	Windows® 10 IoT Enerprise 64bit (Default)
内存	Onboard LPDDR4X, 8GB (Default) / 16GB	DDR4 SO-DIMM Socket x 1, up to 16GB
存储	M.2 SSD, 64GB (Default) / 128GB / 256GB	M.2 (NGFF) SSD, 64GB (Default) / 128GB / 256GB
显示	10.1" FHD (1920x1200) 450-nit / 850-nit TFT-LCD With Projected Capacitive Multi-Touch Screen	11.6" FHD (1920x1080) 500-nit / 850-nit TFT-LCD With Projected Capacitive Multi-Touch Screen
I/O 端口	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in Jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1 Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in Jack x 1, RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1
通讯	Wi-Fi 802.11 b/g/n , Bluetooth v5.1 (EDR + BLE), Intel AC9260	Wi-Fi 802.11 b/g/n, Bluetooth v5.1
导航	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)	GPS, GLONASS ==> Located in I/O board, PER-T407 143NEOM8Q0: u-blox NEO-M8Q-0
WWAN(可选)	LTE via M.2 slot (Optional)	LTE via mini-card slot (Optional)
摄像头	5MP front camera, 8MP rear camera with flash	2MP front camera, 5MP auto-focus rear camera with flash
传感器	G-sensor, E-compass, Gyro-sensor, Light-sensor	
扩展槽	M.2 slot x 3 (One for SSD, One for WiFi module, One for LTE module) Docking connector x 1: USB 3.2 Gen 1 x 1	Mini-card slot x 1 (For LTE module), Docking connector x 1, GNSS antenna Pass-through connector x 1 WWAN antenna Pass-through connector x 1
条形码扫描器 (可选)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)	
HF RFID (可选)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type	
音频	Speaker x 1	
物理按键	F0 or Windows (Windows Start Key), F1 (BCR Trigger Butten (When BCR is enabled)), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)	F0 or Windows (Windows Start Key), F1 (Ctrl+Atl+Del & BCR Trigger Butten (When BCR is enabled)), F2 (Touch Mode Switch), F3 (Screenprint), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)
机构		
颜色	Black & Dark Grey	Gray & Black
尺寸 (W x H x D)	10.71" x 7.48" x 0.94" (272.0 x 190.0 x 24.0 mm)	12.36" x 7.87" x 0.96" (310.4 mm x 200.0 mm x 24.5 mm)
总重量	1.5 Kg (3.3 lbs) based on configurations	3.3 lbs (1.5 Kg)
环境		
工作温度	-4°F ~ 122°F (-20°C ~ 50°C)	-4°F ~ 140°F (-20°C ~ 60°C)
存储温度	-22°F ~ 158°F (-30°C ~ 70°C)	
湿度	0% ~ 90% relative humidity, non-condensing	5% ~ 90% relative humidity, non-condensing
环境密封	IP65	
抗振动	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating)	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2
抗跌落	MIL-STD-810G-516.6 Procedure IV Drop height: 122cm Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2“ plywood over concrete	MIL-STD-810G Method 516.6 Procedure IV -Height of Drop: 122cm (48 inch; 4ft) -Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2“ plywood over concrete
防冲击	—	
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV	
认证和标准	UL62368, CE, FCC, IC	UL60950-1, CE/LVD: EN60950-1, CE, FCC
电源		
AC / DC适配器	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 19V/ 3.42A/ 65W	
续航时间	Li-ion Battery 6-hour battery life based on test configurations	
主电池	Hot-swappable battery: 14.4V, 2270mAh, 32.7W 14.8V, 3450mAh, 51.1W (Optional)	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
从电池	Hot-swappable battery: 14.4V, 2270mAh, 32.7W 14.8V, 3450mAh, 51.1W (Optional)	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
显示		
LCD	10.1" TFT-LCD Display	11.6" TFT-LCD Display
分辨率	1920 x 1200	1920 x 1080
最大色彩数	16.7M	
点尺寸	—	0.117 (H) x 0.117 (V) mm
亮度	450 nits (850 nits, Optional)	500 nits (850 nits, Optional)
可视角度	Horizontal: 160°, Vertical: 160° (Typical)	Horizontal: 178°, Vertical: 178° (Typical)
触摸屏		
触控类型	Projected Capacitive Multi-Touch Screen (PCT)	Projected Capacitive Multi-Touch Screen (PCT) Gloves / Finger mode Switchable by F2
透光率	Min. 85%	Min. 87% (ASTM D1003; Wavelength = 550 nm)
备注	TAIWAN EXCELLENCE 2017	

备注: 所有规格如有变更，恕不另行通知。

型号	RTC-1010RK
系统架构	
处理器	Rockchip RK3399 Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)
操作系统	Android 10.0 (Will start from Android 8.1 for samples)
内存	Onboard LPDDR4 2GB (Default) / 4GB
存储	eMMC 16GB (Default) / 32GB
显示	10.1" WXGA (1280x800) 800-nit / 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O 端口	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 (3.5mm) USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1
通讯	Wi-Fi 802.11 b/g/n, Bluetooth v5.0 (EDR + BLE)
导航	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
WWAN(可选)	LTE via M.2 slot (Optional)
摄像头	8MP front camera, MIPI I/F 8MP rear camera with flash, MIPI I/F
传感器	G-sensor, Gyro-sensor, Light-sensor
扩展槽	Inside M.2 slot x 1, M Key (For storage or others) M.2 slot, B Key 3042 (For LTE module) Docking connector: USB 2.0 x 1
条形码扫描器 (可选)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (可选)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W) ISO 14443-B (Only Read UID), Depend on card type
音频	Speaker x 1
物理按键	F0 or Windows (TBD), F1 (BCR Trigger Butten (When BCR is enabled)), F2 (Screenprint), F3 (Audio On/Off), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)
机构	
颜色	Black & Dark Grey
尺寸 (W x H x D)	272.0 x 190.0 x 20.4 mm (10.71" x 7.48" x 0.80")
总重量	2.2 lb (1.0 Kg) based on configurations
环境	
工作温度	-20°C ~ 50°C (-4°F ~ 122°F)
存储温度	-30°C ~ 70°C (-22°F ~ 158°F)
湿度	0% ~ 90% relative humidity, non-condensing
环境密封	IP65
抗振动	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating)
抗跌落	MIL-STD-810G-516.6, Procedure IV Drop height: 122 cm Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2“ plywood over concrete
防冲击	TBC
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
认证和标准	UL62368-1, CE, FCC, IC
电源	
AC / DC适配器	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W
续航时间	Li-ion Battery 8-hour battery life based on test configurations
主电池	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
从电池	7.4V, 1530mAh, 11.3W
显示	
LCD	10.1” TFT-LCD Display
分辨率	1280 x 800
最大色彩数	16.7M
点尺寸	0.1692 (H) x 0.1692 (V) mm
亮度	300 nits (800 nits, Optional)
可视角度	Horizontal: 170°, Vertical: 170° (Typical)
触摸屏	
触控类型	Projected Capacitive Multi-Touch Screen (PCT)
透光率	Min. 85%
备注	

备注: 所有规格如有变更，恕不另行通知。

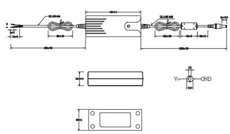
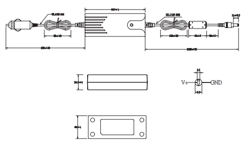
强固型平板电脑：配件

型号	RDS-0710	RDS-411	RDS-241V
系统			
I/O	Front-facing I/Os: USB 2.0 x 2 Downward-facing I/Os: USB 3.2 Gen 1 x 2 RS-232 x 1 RJ45 GbE x 1	Front-facing I/Os: USB 2.0 x 2 with protection cover Downward-facing I/Os: USB 2.0 x 2 RS-232 x 1 (Two: Optional) RJ45 GbE x 1	Front-facing I/Os: USB 2.0 x 2 with protection cover Downward-facing I/Os: USB 3.2 Gen 1 x 2 RS-232 x 2 (One with 5V in Pin 9 & the Other with GPIO x 8) RJ45 GbE x 1 M12 DC-in x 1 External GPS and WWAN SMA connectors
DC输入	Phoenix connector: DINKLE ECH381H-03P Wide Voltage Input: DC 9V to 36V Mating connector: DINKLE EC381V-03P		M12 5P Female (DC 9V to 36V)
LED指示灯	Orange: DC in w/o Tablet Blue: DC in w/ Tablet		
其他	Anti-theft lock with key & VESA mount support (75x75)	Anti-theft lock with key & VESA mount support	
机构			
颜色	Black		
结构	Metal	PC	
尺寸 (W x H x D)	8.07" x 4.96" x 2.96" (205 x 126 x 75 mm)	10.08" x 7.28" x 2.96" (256 x 185 x 75 mm)	10.28'' x 6.50'' x 2.96'' (261 x 165 x 75 mm)
总重量	1.8 lb (820g)	6.17 lb (2.8 Kg)	6.44 lb (2.92 Kg)
环境			
工作温度	-4°F ~ 140°F (-20°C ~ 60°C)	32°F ~ 122°F (0°C ~ 50°C)	32°F ~ 104°F (0°C ~ 40°C)
存储温度	-22°F ~ 158°F (-30°C ~ 70°C)	14°F ~ 140°F (-10°C ~ 60°C)	14°F ~ 122°F (-10°C ~ 50°C)
ESD	Air charge: +/- 8KV Contact charge: +/- 4KV		
EMC/ 安全	CE / FCC Class A / UL	CE / FCC Class B / UL	
电源			
AC/DC适配器	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W DC connector: DINKLE EC381V-03P		AC 100 ~ 240 V, 47 ~ 63 Hz Output: 19V/ 4.74A/ 90W
DC/DC适配器	—		
备注			

 备注: 所有规格如有变更，恕不另行通知。

型号	RTC-1010-HS-000	RTC-1010-SB-000	RTC-1010-VMP-000
机构			
颜色	Black	Black	Black
尺寸 (W x H x D)	232 x 92 x 30 mm	1050 x 65 x 5 mm	275.6 x 191.7 x 25 mm
备注	Hand Strap for RTC-1010/ RTC-1010M	Shoulder Belt for RTC-1010/ RTC-1010M	VESA Mount Plate for RTC-1010M

型号	1255900363	1255900364	RTC-1200HSP01-000
机构			
颜色	Black	Black	Black
尺寸 (W x H x D)	Adapter case: 40 x 105 x 26.5 mm Plug side length: 1200 ± 30 mm Flying Wires side length: 600 ± 30 mm Total length: 1905 ± 60 mm	Adapter case: 40 x 105 x 26.5 mm Plug side length: 1200 ± 30 mm Cigarette Plug side length: 600 ± 50 mm Total length: 1905 ± 50 mm	260 x 92 x 30 mm
备注	DC-To-DC Power Adapter, Flying Wires for RTC-1010/ RTC-1010M	DC-To-DC Power Adapter, Cigarette Plug for RTC-1010/ RTC-1010M	Hand Strap for RTC-1200

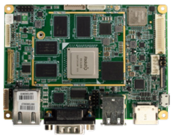
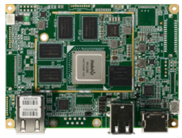
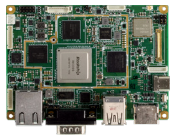
强固型平板电脑：配件

型号	RTC-1200BLT01-000	RTC-1200BLT02-000
机构		
颜色	Black	Black
尺寸 (W x H x D)	1050 x 65 x 5 mm	450 x 350 x 50 mm
备注	Shoulder Belt for RTC-1200	Shoulder Belt for RTC-1200

型号	RTC-1200BKT01-000	RTC-1010-SBG-000
机构		
颜色	Black	Black
尺寸 (W x H x D)	180 x 203.3 x 45.4 mm	Bag: 330 x 245 x 50 mm Shoulder strap: Lenghth: 710 mm (Min) ~ 1310 mm (Max)
备注	VESA Mount Bracket for RTC-1200	Shoulder Bag for RTC-1010 / RTC-1020 /RTC-1200

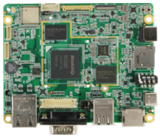
型号	RBC-1200-000	RTC-1200BAT01-000
机构		
颜色	Black	Black
尺寸 (W x H x D)	140.5 x 68.4 x 121.87 mm	71.5 x 110 x 13.3 mm
电源		
AC/DC适配器	AC power input:100-240V, 50Hz-60Hz, 65W, DC power output: 19V/3.42A	14.4V, 2270mAh, 32.7W
备注	4-bay Battery Charger for RTC-1010/ RTC-1010M, RTC-1200	Battery Pack for RTC-1010/ RTC-1010M, RTC-1200

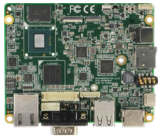
RISC主板

型号	RICO-3288	RICO-3288MINI	RICO-3399
系统			
板型	Pico-ITX (100mm x 72mm)		
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6 GHz	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6 GHz	Rockchip RK3399 Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz
GPU	Mali-T764		Mali-T864
图形	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP8, VP9, MVC Video Encode: H.264 UP to HP@level4.1, MVC and VP8
内存容量	Onboard DDR3L 2GB/4GB (Optional)	Onboard DDR3L 2GB	Onboard LPDDR3 2GB/4GB (Optional)
存储/SSD	16GB eMMC and Micro-SD card	16GB eMMC	16GB eMMC and Micro-SD card
操作系统	Android 9.0 / Debian		Android 8.1 / Debian
内核	Kernal 4.4		
看门狗定时器	Integrated		
电源要求	+12V DC input, Optional 7.4V battery	+12V DC input	
功耗 (标准)	0.6A@12V, full load, Quad-core CPU		0.6A@12V, full load, Hexa-core CPU
尺寸	3.94" x 2.84" (100mm x 72mm)		
总重量	0.44 lb (0.2 Kg)	0.22 lb (0.1 Kg)	0.44 lb (0.2 Kg)
工作温度	32°F ~ 140°F (0°C ~ 60°C)(-20°C~60°C: Optional)	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40˚F ~ 176˚F (-40˚C ~ 80˚C)		
工作湿度	0% ~ 90% relative humidity, non-condensing		
MTBF (小时)	80,000		
认证	CE/FCC		
显示			
HDMI	HDMI (1.4) up to 4K x 2K @60Hz		HDMI (2.0) up to 4K x 2K @60Hz
eDP	Up to 2560 x 1440 @60Hz	—	Up to 4K x 2K @60Hz
LVDS	Support 18/24-bit up to 1920 x 1080 @60Hz	—	
MIPI	Up to 2560 x 1440 @60Hz	—	
RF功能			
WiFi	802.11 a/b/g/n/ac	—	802.11 a/b/g/n/ac
BT	Bluetooth V4.2 + EDR	—	Bluetooth V4.2 + EDR
I/O			
以太网	GbE x 1		
USB端口	Micro-USB OTG x 1 USB 2.0 Type A x 2 USB2.0 Pin header x 1 (Integrated)	Micro-USB OTG x 1 USB 2.0 Type A x 2	USB 3.2 Gen 1 Type C OTG x 1 USB 3.2 Gen 1 (Bottom)/USB 2.0 (Top) dual port x 1 USB 2.0 Pin Header x 1 (Integrated)
串口	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port pin header x 1	—	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port pin header x 1
音频	2.5W (by 4Ω) Speaker/ Microphone/ Earphone	—	2.5W (by 4Ω) Speaker/ Microphone/ Earphone
GPIO	8-bit (4-in, 4-out)		
扩展槽	Full-size mini-PCIe slot x 1 (For 3G/4G card)	—	Full-size mini-PCIe slot x 1 (For 3G/4G card)
SIM插槽	Nano-SIM	—	Nano-SIM
SD插座	Support Micro-SD card	—	Support Micro-SD card
摄像头	—		
备注			

备注: 所有规格如有变更，恕不另行通知。





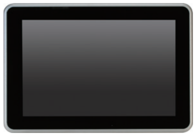
型号	RICO-3568	RICO-MX8P
系统		
板型	Pico-ITX Plus (100mm x 80mm)	
CPU	Rockchip RK3568 ARM Cortex™-A55 Quad-core NPU: 0.8 TOPS	NXP i.MX 8M Plus Quad Cortex™-A53 1.8GHz Cortex™-M7 800MHz processor for low-power processing NPU: 2.3 TOPS (Optional)
GPU	Mali-G52	GC7000UltraLite: 3D GPU (2 shaders) OpenGL ES 3.1, Vulkan, OpenCL 1.2 GC520L: 2D GPU
图形	Video Encode: 1080P@60fps H.264/H.265 Video Decode: 4K@60fps H.264/H.265/AV1 4KP60 AVS2/VP9 1080P MPEG1/VP8	Video Processing Unit (VPU): • 1080p60 H.265, VP9 decoder • 1080p60 H.264, VP8 decoder • 1080p60 H.265, H.264 encoder
内存容量	Onboard LPDDR4 2GB/4GB (Optional)	Onboard LPDDR4 2GB RAM/4GB (Optional)
存储/SSD	16GB eMMC and Micro-SD card Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)	16GB eMMC and Micro-SD card
操作系统	Android 12 Debian	Debian 10 (Default) Yocto (TBD)
内核	TBD	TBD
看门狗定时器	Integrated	
电源要求	+12V DC input SW1: Power ON/OFF SW2: Reset	+12V DC input
功耗 (标准)	TBD	TBD
尺寸	3.94" x 3.15" (100mm x 80mm)	
总重量	0.44 lb (0.2 Kg)	
工作温度	-4°F ~ 158°F (-20°C ~ 70°C)	
存储温度	-40˚F ~ 176˚F (-40˚C ~ 80˚C)	
工作湿度	0% ~ 90% relative humidity, non-condensing	
MTBF (小时)	TBD	TBD
认证	CE/FCC	
显示		
HDMI	HDMI (2.0) up to 4K x 2K @ 60Hz	HDMI Port Type A (2.0)
eDP	eDP (1.3) up to 2560 x 1600 @ 60Hz	N/A
LVDS	Support 18/24-bit up to 1280 x 800 @ 60Hz JP2, 3.3V/5V: LVDS Power Selection JP3, 5V/12V: Backlight Power Selection	4-lane or 8-lane LVDS interface
MIPI	Up to 2048 x 1536 @ 60Hz for Dual-MIPI mode	4-lane MIPI DSI interface
RF功能		
WiFi	802.11 a/b/g/n/ac, on board	Support via M.2 WiFi/BT module (Optional) (E Key) (1-lane PCIe 3.0 I/F)
BT	Bluetooth V5.0 + EDR	Support via M.2 WiFi/BT module (Optional) (E Key) (1-lane PCIe 3.0 I/F)
I/O		
以太网	GbE x 2 One RJ45 located in RICO-3568 One RJ45 located in Daughter Board	GbE x 2 One RJ45 located in RICO-MX8P One RJ45 located in Daughter Board
USB端口	USB 3.2 Gen 1 Type C OTG x 1 USB 3.2 Gen 1 (Bottom) / USB 2.0 (Top) Dual Port x 1 USB 2.0 Pin header x 1 (Integrated USB, I2C x 1, 5V)	USB 3.2 Gen 1 Type C OTG x 1 USB 2.0 Type A x 2
串口	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port pin header x 1 JPxx: UART (Tx/Rx only), I2C, GPIO, Others	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port x 1 UART (Tx/Rx only) x 2
音频	Microphone/ Earphone	Audio Line Out Jack x 1
GPIO	8-bit (4-in, 4-out) Pin header x 1	
扩展槽	Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA) Connect to Daughter board: FPC connector x 2	Full-size mini-PCIe slot x 1 (For LTE module) (USB I/F) Connect to Daughter board: FFC connector x 2
SIM插槽	Nano-SIM	
SD插座	Support Micro-SD card	Push-Push Micro-SD card slot x 1
摄像头	—	4-lane MIPI CSI interface
备注		

备注: 所有规格如有变更，恕不另行通知。

RISC盒子

型号	BOXER-RK88	BOXER-RK99
系统		
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6GHz	Rockchip RK3399 ARM Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz
GPU	Mali-T764	Mali-T864
芯片组	—	
图形	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP8, VP9, MVC Video Encode: H.264 UP to HP@level4.1, MVC and VP8
系统内存	DDR3L 2GB/4GB (Optional)	LPDDR3 2GB/4GB (Optional)
显示接口	HDMI (1.4)	HDMI (2.0) up to 4K x 2K @ 60Hz
存储/SSD	16GB eMMC and Micro-SD card	
I/O	Micro-SD Card Slot x 1 HDMI (1.4) Port x 1 Antenna Connector for WiFi 802.11 b/g/n, BT V4.2 Antenna Connector for LTE (Optional) GbE: RJ45 x 1 USB 2.0: Micro-USB OTG x 1, Type A x 2 RS-232/422/485 x 1, RS-232 x 1 (Optional)	Micro-SD Card Slot x 1 HDMI (2.0) Port x 1 Antenna Connector for WiFi 802.11 b/g/n, BT V4.2 Antenna Connector for LTE (Optional) GbE: RJ45 x 1 USB 3.2 Gen 1: Type C OTG x 1, Type A x 1 USB 2.0: Type A x 1 RS-232/422/485 x 1, RS-232 x 1 (Optional)
扩展	mPCIe Slot x 1 for LTE module	
指示灯	Power LED x 1	
操作系统支持	Android 9.0	Android 8.1
电源		
电源要求	+12V DC input	
机构		
安装方式	VESA mount, 75mm x 75mm	
尺寸 (W x D x H)	4.07" x 3.78" x 1.97" (103.4 mm x 96 mm x 50 mm)	
总重量	1.1 lb (0.5 Kg)	
净重	0.66 lb (0.3 Kg)	
环境		
工作温度	32°F ~ 140°F (0°C ~ 60°C)	
存储温度	-40˚F ~ 176˚F (-40˚C ~ 80˚C)	
存储湿度	0% ~ 90% relative humidity, non-condensing	
抗振动	—	
认证	CE/FCC/IC	
备注		

一体化平板电脑解决方案：ACP系列



第一季度推出

型号	ACP-1108	ACP-1106	ACP-1105
系统			
处理器	RockChipRK3568 ARM Cortex™-A55 Quad-core	Intel® Pentium® N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz	Intel® Pentium® N4200/ Celeron® N3350/ Atom™ Processor SoC
系统内存	LPDDR4 2GB/4GB (Optional)	204-pin DDR3L SODIMM x 1, Build-in 4GB, Max. 8GB	LPDDR4 2GB/4GB (Optional)
LCD/CRT控制器	—	Integrated in processor	—
以太网	10/100/1000 Base TX x2	10/100/1000 Base-TX, RJ-45 x 2	10/100/1000 Base TX x1
I/O端口	LAN x2 COM x2 USB 3.2 Gen 1 Type C OTG x 1 (For System Recovery) USB 3.2 Gen 1 x2 USB 2.0 x2 HDMI x 1 Audio x1	DB9 Type RS-232 x 1 USB 3.2 Gen 1 x 2 HDMI x 1 RJ-45 10/100/1000 LAN x 2 2 Pin terminal block for power input Power Button x 1 Type A USB 2.0 x 1 Expansion I/O Slot	LAN x1 COM x1 USB 3.2 Gen 1 x2 USB 2.0 x1 HDMI x 1
存储磁盘驱动器	16GB eMMC and Micro-SD card	Full Size mSATA x 1	Onboard 32GB eMMC(16 GB/64GB Optional)
扩展槽	Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)	Half size mini card x 1(Internal)	M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
操作系统支持	Android 12 / Debian	Windows® 10, Linux Kernal 4.4.0 or higher	Windows 10(64 Bit)
机构			
结构	Aluminum Front Bezel + Metal Chassis	Aluminum Front Bezel + Metal Chassis	SECC
安装方式	VESA / Panel Mount	VESA 75, Panel Mount	—
尺寸	TBD	10.47" x 7.24 x 1.89" (266 x 184 x 48mm)	TBD
包装尺寸	TBD	13.38" x 7.64 x 9.96" (340 x 194 x 253mm)	TBD
总重量	TBD	6.38 lb (2.9 kg)	TBD
环境			
工作温度	23°F ~131°F (-5°C ~ 50°C) with 0.5 m/s airflow	23°F ~ 122°F (-5°C ~ 50°C) with 0.5 m/s airflow	32°F~104°F (0°C ~ 40°C) with 0.5 m/s airflow
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 158°F (-20°C ~ 70°C)	32°F~113°F(0°C~45°C)
存储湿度	90% @40°C; non-condensing		
抗振动	1Grms / 5~ 500Hz / operation	1 Grms/ 5~ 500Hz/ operation – with HDD	—
防冲击	15 G peak acceleration (11 msec. duration)	—	—
EMC	CE/FCC Class A Compatible	CE/FCC Class A	—
电源			
DC输入	DC 9~36V	DC 9~30V	DC 12V
LCD			
显示类型	10.1" WXGA (1280 x 800) Color TFT LCD Display	10.1" TFT-LCD, LED	10.1" WXGA (1280 x 800) Color TFT LCD Display
最大分辨率	1280 x 800	1280 x 800	1280 x 800
最大色彩数	262K colors (6 bit for R,G,B)	262K colors (6 bit for R,G,B)	262K colors (6 bit for R,G,B)
亮度	300 nits	300 cd/m2	300 nits
可视角度	170° (H) ; 170° (V)		
背光	LED		
背光 MTBF (小时)	25,000 Hrs	—	25,000 Hrs
触摸屏			
类型	Projected Capacitive Multi-Touch	P-CAP Touchscreen	Projected Capacitive Multi-Touch
透光率	90%		
备注			

备注: 所有规格如有变更，恕不另行通知。

一体化平板电脑解决方案：ACP系列

第一季度推出

型号	ACP-1104	ACP-1078	ACP-1076
系统			
处理器	Intel® Celeron® J1900 processor, 2 GHz Intel® N2807 processor, 1.58 GHz	RockChipRK3568 ARM Cortex™-A55 Quad-core	Intel® Pentium®N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz
系统内存	204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 8 GB (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 4 GB (N2807)	LPDDR4 2GB/4GB (Optional)	204-pin DDR3L SODIMM x 1, Build-in 4GB, Max. 8GB
LCD/CRT控制器	—		Integrated in processor
以太网	10/100/1000 Base-TX, RJ-45 x 2	10/100/1000 Base TX x2	10/100/1000 Base-TX, RJ-45 x 2
I/O端口	RS-232/422/485 x 2 (RJ-45 connector) USB 2.0 type A x 3 USB 3.2 Gen 1 type A x 1 HDMI x 1 DI/O (4 DI, 2 DO) BIOS selection Power button x 1 Lockable power connector x 1	LAN x2 COM x2 USB 3.2 Gen 1 Type C OTG x 1 (For System Recovery) USB 3.2 Gen 1 x2 USB 2.0 x2 HDMI x 1 Audio x1	DB9 Type RS-232 x 1 USB 3.2 Gen 1 x 2 HDMI x 1 RJ-45 10/100/1000 LAN x 2 2 Pin terminal block for power input Power Button x 1 Type A USB 2.0 x 1 Expansion I/O Slot
存储磁盘驱动器	Half size mSATA x 1 (Installation by AAEON recommended)	16GB eMMC and Micro-SD card	Full Size mSATA x 1
扩展槽	Full size Mini-Card x 1	Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)	Half size mini card x 1(Internal)
操作系统支持	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher, Android 4.4.4	Android 12 / Debian	Windows® 10, Linux Kernal 4.4.0 or higher
机构			
结构	Aluminum Design	Aluminum Front Bezel + Metal Chassis	Aluminum Front Bezel + Metal Chassis
安装方式	VESA 75/ Panel mount/ Stand	VESA / Panel Mount	VESA 75, Panel Mount
尺寸	10.47" x 7.22" x 1.81" (266 x 183.5 x 30mm)	TBD	7.72" x 5.28" x 1.89" (196 x 134 x 48 mm)
包装尺寸	13.58" x 7.87" x 9.65" (345 x 200 x 245mm)	TBD	10.87" x 9.41" x 6.69" (276 x 239 x 170 mm)
总重量	5.5 lb (2.5 kg)	TBD	4.62 lb (2.1 Kg)
环境			
工作温度	32°F ~ 113°F (0°C ~ 45°C) without airflow 32°F ~ 122°F (0°C ~ 50°C) with airflow	-5°C ~ 50°C with 0.5 m/s airflow	23°F ~ 122°F (-5°C ~ 50°C) with 0.5 m/s airflow
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)	-20°C~60°C	-4°F ~ 158°F (-20°C ~ 70°C)
存储湿度	5%~90% @40°C, non-condensing	90% @40°C; non-condensing	90% @40°C; non-condensing
抗振动	1 Grms/ 5~ 500Hz/ operation	1Grms / 5~ 500Hz / operation	1 Grms/ 5~ 500Hz/ operation – with HDD
防冲击	15 G peak acceleration (11 msec. duration)	15 G peak acceleration (11 msec. duration)	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A	CE/FCC Class A Compatible	CE/FCC Class A
电源			
DC输入	DC 12V with lockable power adapter	DC 9~36V	DC 9~30V
LCD			
显示类型	10.1" TFT-LCD, LED	7" WSVGA (1024 x 600) Color TFT LCD Display	7" TFT-LCD, LED
最大分辨率	1280 x 800	1024 x 600	
最大色彩数	262k	16.7M	
亮度	300 cd/m2	320 nits	320 cd/m2
可视角度	170° (H), 170° (V)	145° (H) ; 150° (V)	150° (H), 145° (V)
背光	LED		
背光 MTBF (小时)	—	20,000	
触摸屏			
类型	Projected Capacitive Multi-Touch		P-CAP Touchscreen
透光率	—	90%	
备注			

备注: 所有规格如有变更，恕不另行通知。

一体化平板电脑解决方案：ACP系列

第一季度推出

型号	ACP-1075	ACP-1074
系统		
处理器	Intel® Pentium® N4200/ Celeron® N3350/ Atom™ Processor SoC	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
系统内存	LPDDR4 2GB/4GB (Optional)	204-Pin DDR3L SODIMM x 1, default 2GB, up to 8 GB (J1900) 204-Pin DDR3L SODIMM x 1, default 2GB, up to 4 GB (N2807)
LCD/CRT控制器	—	Integrated in processor
以太网	10/100/1000 Base TX x1	10/100/1000 Base-TX, RJ-45 x 2
I/O端口	LAN x1 COM x1 USB 3.2 Gen 1 x2 USB 2.0 x1 HDMI x 1	RJ-45 type RS-232/422/485 x 2 USB 2.0 x 3 USB 3.2 Gen 1 x 1 HDMI x 1 RJ-45 10/100/1000 LAN x 2 DI/O (4DI, 2DO) BIOS Selection Lockable power input connector Power switch x 1
存储磁盘驱动器	Onboard 32GB eMMC(16 GB/64GB Optional)	Half size mSATA storage x 1 (Installation by AAEON recommeded)
扩展槽	M.2 B Key (2280) x 1, M.2 E Key (2230) x 1	Full size Mini-Card x 1
操作系统支持	Windows 10(64 Bit)	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher
机构		
结构	SECC	Aluminum Design
安装方式	—	VESA 75/ Panel mount/ Stand
尺寸	TBD	7.71” x 5.27” x 1.18” (196mm x 134mm x 30mm)
包装尺寸	TBD	13.58” x 7.87” x 9.64” (345mm x 200mm x 245mm)
总重量	TBD	5.5 lb (2.5 kg)
环境		
工作温度	32°F~104°F (0°C ~ 40°C) with 0.5 m/s airflow	32°F ~ 122°F (0°C ~ 50°C) without airflow 23°F ~ 131°F (-5°C ~ 55°C) with airflow
存储温度	32°F~113°F(0°C~45°C)	-4°F ~ 158°F (-20°C ~ 70°C)
存储湿度	90% @40°C; non-condensing	5%~90% @40°C, non-condensing
抗振动	—	1 Grms/ 5~ 500Hz/ operation – with HDD
防冲击	—	15G peak acceleration (11 msec. duration) – with HDD
EMC	—	CE/FCC class A
电源		
DC输入	DC 12V	DC12V, with lockable power adapter
LCD		
显示类型	7” WSVGA (1024 x 600) Color TFT LCD Display	7” TFT-LCD, LED
最大分辨率	1024 x 600	
最大色彩数	16.7M	
亮度	320 nits	320 cd/m^2
可视角度	145° (H) ; 150° (V)	150° (H), 145° (V)
背光	LED	
背光 MTBF (小时)	20,000	
触摸屏		
类型	Projected Capacitive Multi-Touch	Projected capacitive multi-touch (2-point)
透光率	90%	
备注		

备注: 所有规格如有变更，恕不另行通知。

一体化平板电脑解决方案：OMNI系列

型号	OMNI-2155-CML
系统	
处理器	Intel® Core™ i9-10900TE Intel® Core™ i7-10700TE Intel® Core™ i5-10500TE Intel® Core™ i3-10100TE Intel® Celeron® G5900TE
系统内存	DDR4 SO-DIMM x 2, up to 64GB
LCD/CRT控制器	—
以太网	Intel® i211 x 1, i219 x 1
I/O端口	USB 3.2 Gen 2 x 4 RJ-45 x 2 for GbE LAN (i211-AT x 1, i219-LM x 1) HDMI x 1 Line out x 1 DB-9 x 2 for RS-232/422/485 3 pin 10~35V Power Input x 1 Power Button with LED x 1
存储磁盘驱动器	M.2 2280 slot x 1 (PCIex4), 2.5" SATA SSD/HDD bay x 1
扩展槽	M.2 2230 E Key x 1, M.2 2280 B Key x 1 Full-Size Mini Card x 1 (mSATA/PCIe switch by BIOS, default PCIe), SIM x 1
操作系统支持	Windows® 10 IoT Enterprise 64-bit, Linux Ubuntu 20.04
机构	
结构	Aluminum Design (IP65 Front Frame)
安装方式	VESA 100 / Panel Mount
尺寸	420.14mm x 264.47mm x 73.2 mm
包装尺寸	530mm x 445mm x 200mm
总重量	6.75 kg
环境	
工作温度	32°F ~ 113°F (0°C ~ 45°C) (35W CPU), according to IEC68-2-14 with 0.5 m/s AirFlow
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)
存储湿度	90% @40°C; non-condensing
抗振动	1 Grms/ 5~500Hz/random operation
防冲击	15 G peak acceleration (11 msec. duration
EMC	CE/FCC class A
电源	
DC输入	10-35V DC-in with 3-pin terminal block
LCD	
显示类型	15.6" TFT-LCD, LED
最大分辨率	1366 (H) x 768 (V)
最大色彩数	16.7M (8 bit/color)
亮度	400 cd/m^2
可视角度	170° (H), 130° (V)
背光	LED
背光 MTBF (小时)	50,000
触摸屏	
类型	Flat 5-wire Resistive / P-CAP Multi Touch
透光率	80% ± 3% / 88%± 2%
备注	

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化模式 - 面板套件

OMNI系列：模块化模式 - 面板套件

型号	OMNI-215D	OMNI-221D	OMNI-310D
机构			
结构	Aluminum Front Bezel		
安装方式	Panel Mount		
尺寸	16.54" x 10.39" x 1.14" (420mm x 264mm x 29mm)	21.61" x 14.65" x 0.87" (549mm x 372mm x 22mm)	11.02" x 9.41" x 1.1" (280mm x 239mm x 28mm)
包装尺寸	20.47" x 17.13" x 7.09" (520mm x 435mm x 180mm)	26.38" x 7.87" x 20.67" (670mm x 200mm x 525mm)	16.34" x 7.05" x 15.39" (415mm x 179mm x 391mm)
总重量	11 lb (5 kg)		3.08 lb (1.4 kg)
环境			
工作温度	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow		
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)		
存储湿度	90% @40°C; non-condensing		
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD		
防冲击	15G peak acceleration (11 msec. duration) – with HDD		
EMC	CE/FCC Class A		
电源			
DC输入	—		
LCD			
显示类型	15.6" TFT-LCD, LED	21.5" TFT-LCD, LED	10.4" TFT-LCD, LED
最大分辨率	1366 x 768	1920 x 1080	800 x 600
最大色彩数	16.2M colors	16.7M colors	16.2M colors
亮度	400 cd/m2	250 cd/m2	230 cd/m2
可视角度	160° (H), 140° (V)	178° (H), 178° (V)	120° (H), 100° (V)
背光	LED		
背光 MTBF (小时)	50,000		
触摸屏			
类型	P-CAP/ Full-flap resistive		
透光率	90%		
其他	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch		
备注			

备注: 所有规格如有变更，恕不另行通知。

强固型移动平板电脑解决方案

OMNI系列：模块化模式 - 面板套件

型号	OMNI-312D	OMNI-315D	OMNI-317D
机构			
结构	Aluminum Front Bezel		
安装方式	Panel Mount		
尺寸	12.95” x 11.34” x 0.98” (329mm x 288mm x 25mm)	14.53” x 12.36” x 1.06” (369mm x 314mm x 27mm)	16.14” x 14.57” x 1.1” (410mm x 370mm x 28mm)
包装尺寸	20.87” x 17.52” x 7.87” (530mm x 445mm x 200mm)	20.08” x 9.84” x 18.11” (510mm x 250mm x 460mm)	20.47” x 10.32” x 19.29” (522mm x 262mm x 490mm)
总重量	4.4 lb (2 kg)	11.66 lb (5.3 kg)	8.8 lb(4 kg)
环境			
工作温度	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow		
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)		
存储湿度	90% @40°C; non-condensing		
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD		
防冲击	15G peak acceleration (11 msec. duration) – with HDD		
EMC	CE/FCC Class A		
电源			
DC输入	—		
LCD			
显示类型	12.1” TFT-LCD, LED	15” TFT-LCD, LED	17” TFT-LCD, LED
最大分辨率	1024 x 768		1280 x 1024
最大色彩数	16.2M colors	16.2M (8bit/color)	16.7M colors
亮度	500 cd/m2	300 cd/m2	350 cd/m2
可视角度	160° (H), 160° (V)	176° (H), 176° (V)	170° (H), 160° (V)
背光	LED		
背光 MTBF (小时)	50,000	70,000	50,000
触摸屏			
类型	P-CAP/ Full-flap resistive		
透光率	90%		
其他	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch		
备注			

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化模式 - 面板套件

型号	OMNI-319D
机构	
结构	Aluminum Front Bezel
安装方式	Panel Mount
尺寸	16.54” x 10.39” x 1.14” (420mm x 264mm x 29mm)
包装尺寸	20.47” x 17.13” x 7.09” (520mm x 435mm x 180mm)
总重量	11 lb (5 kg)
环境	
工作温度	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)
存储湿度	90% @40°C; non-condensing
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD
防冲击	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
电源	
DC输入	—
LCD	
显示类型	15.6” TFT-LCD, LED
最大分辨率	1366 x 768
最大色彩数	16.2M colors
亮度	400 cd/m2
可视角度	160° (H), 140° (V)
背光	LED
背光 MTBF (小时)	50,000
触摸屏	
类型	P-CAP/ Full-flap resistive
透光率	90%
其他	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch
备注	

OMNI系列：模块化模式 - BOX套件

型号	OMNI-BT CPU BOX Kit	OMNI-SKU CPU-BOX Kit
系统		
处理器	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz	Intel® Core™ i7-6600U, i5-6300U, i3-6100U, Celeron® 3995 Processor
系统内存	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)	260-pin DDR4 SODIMM x 1, Max. 16GB
LCD CRT控制器	Integrated in processor	
以太网	Intel® I211, 10/100/1000 Base-TX x 2	Gigabit Ethernet, RJ-45 x 1
IO端口	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 x 1 for RS-232/422/485 RJ-45 x 2 for 10/100/1000 Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 Vdc power input LED Power on/off switch x 1 (Power on = Orange, Power off =N/A)	USB Type A x 4 for USB 3.2 Gen 1 RJ-45 x1 for GbE LAN DB-9 x 2 for RS-232, DB-9 x 1 for RS-232/422/485 Power input connector, Power ON/OFF Switch x 1, antenna hole HDMI x 1 3-pin terminal Power input x 1
存储磁盘驱动器	CFast™ x 1, 2.5" SATA HDD bay x 1	2.5" SATA HDD bay x 1
扩展槽	Mini card x 2 (Full size x 2) SIM card x 1 OMNI I/O connector x 1	Full size mini card x 1 SIM card x 1 OMNI I/O connector x 1
操作系统支持	Windows® 7, Windows® 8, Windows® 10, Linux Kernal 2.6.x or higher	Windows® 10 (64-bit), Linux kernal 2.6.3 or above
结构	Aluminum design	
安装方式	Wallmount	Wallmount (with optional Bottom cover: M0421550A0) / with OMNI-Panel Kits
尺寸	7.2" x 6.38" x 1.1" (183mm x 162mm x 28mm)	7.2" x 6.38" x 1.77" (183mm x 162mm x 45mm)
总重量	3.96 lb (1.8 kg)	3.96 lb (1.8 kg)
工作温度	14°F ~ 131°F (-10°C ~ 55°C) (J1900) 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)	-4°F ~ 131°F (-20°C ~ 55°C)
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)	
存储湿度	90% @40°C; non-condensing	
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD	
防冲击	15 G peak acceleration (11 msec. duration) – HDD	
认证	CE/FCC class A	
DC输入	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function	
显示类型	HDMI x 1, VGA	HDMI x 1
其他	Box Bottom Chassis Cover (optional): M0421550A0	
备注		

备注: 所有规格如有变更，恕不另行通知。

型号	OMNI-ADP-KIT CPU BOX
系统	
处理器	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
系统内存	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD CRT控制器	—
以太网	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
IO端口	LAN x2 USB Type A x3 USB Type C x1 HDMI x 1 Audio x1 COM x2
存储磁盘驱动器	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIex4 NVMe Storage)
扩展槽	B-Key 3052 x 1 (BOM Optional: PCIe x 2),default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
操作系统支持	Windows 10/Windows 11/Linux
结构	Aluminum design
安装方式	TBD
尺寸	TBD
总重量	TBD
工作温度	23°F~122°F(-5°C ~ 50°C) with 0.5 m/s airflow
存储温度	-4°F~140°F(-20°C~60°C)
存储湿度	90% @40°C; non-condensing
抗振动	1Grms / 5~ 500Hz / operation
防冲击	15 G peak acceleration (11 msec. duration)
认证	CE/FCC Class A Compatible
DC输入	DC 9~36V
显示类型	OMNI Series Panel Kit from 12.1 inches to 21.5 inch
其他	Flat 5-Wire Resistive / PCAP multitouch (Support Gloves)
备注	

型号	OMNI-ADB-KIT
系统	
输入信号	VGA / HDMI
屏幕显示控制	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O端口	DB-15 x 1 for VGA HDMI x 1 USB Type A x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Default Terminal Block 3pin)
操作系统支持	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
机构	
结构	Metal chassis
安装方式	Must be assembled with OMNI-Series Modules-Panels
尺寸	5.1" x 6.4" x 1.2" (128.6mm x 161.5mm x 30.7mm)
包装尺寸	12.3" x 10.1" x 7.6" (312mm x 257mm x 194mm)
总重量	5.5 lb (2.5 kg)
净重	2.6 lb (1.2 kg)
环境	
工作温度	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)
存储湿度	10%~90% @104°F (40°C); non-condensing
抗振动	1 Grms / 5~500Hz/random Operation
防冲击	—
EMC	CE/FCC, Class A
电源	
DC输入	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
显示类型 最大分辨率 最大色彩数 亮度 可视角度 背光 背光 MTBF (小时)	Depends on your OMNI Panel Modules
触摸屏	
类型 透光率 使用寿命	Depends on your OMNI Panel Modules
备注	

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化模式 - I/O模块

型号	9741215501 - Mini Card x 2 & SIM Card x 2 Module	9741215502 - Dual LAN Module
系统		
产品介绍	Mini PCIe Slot x 2, for OMNI Panel PC Only	Gigabit Ethernet x 2, for OMNI Panel PC only
产品特点	Full-size Mini-Card Slot x 2 SIM Card Slot x 2 OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above	Gigabit Ethernet x 2 Intel® i211 Chipset OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above
尺寸	161 x 80 x 31 mm	
备注		

型号	9741215506 - DIO Module	9741215508 - Audio Module
系统		
产品介绍	DIO without Isolation x 8, for OMNI Panel PC only	MIC-In x 1, Line-out x 1, for OMNI Panel PC only
产品特点	DIO x 8 (3.3 Vac) OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above	Mic in x 1 Line out x 1 OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above
尺寸	161 x 80 x 31 mm	
备注		

型号	9741215510 - HMS Kit	9741215512
系统		
产品介绍	10/100 Ethernet x 2, for OMNI Panel PC Only	WiFi 802.11 b/g/n Module
产品特点	10/100 Ethernet x 2, Anybus Support All Major Industrial Ethernet and Fieldbus Networks OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above	Supports 802.11b/g/n Supports BT 4.0 OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above
尺寸	161 x 80 x 42 mm	161 x 80 x 31 mm
备注		

型号	9741215513	9741215515
系统		
产品介绍	RS-485/422/232 Module	OMNI USB/COM/LAN Module
产品特点	RS-232/422/485 x 2 Selection by Jumper OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above	USB 2.0 x 2 RS-232/422/485 x 2 (Selection by External Switch) Gigabit Ethernet x 1 OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above
尺寸	161x 99 x 42 mm	161x 99 x 56 mm
备注		

型号	9741215516	9741215517
系统		
产品介绍	OMNI COM x 4 Module	OMNI Isolated COM Module
产品特点	RS-232/422/485 x 4 Selection by internal jumper OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above	Isolated RS-232/422/485 x 4 2K VDC Isolation Selection by internal jumper OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above
尺寸	161 x 99 x 56 mm	
备注		

型号	9741215518
系统	
产品介绍	OMNI COM, DIO Module
产品特点	DB-9 Isolated RS-232/422/485 x 4 DIO x 16 OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above
尺寸	161 x 99 x 55 mm
备注	

OMNI系列：模块化触控平板电脑解决方案



型号	OMNI-2155-BT	OMNI-3105-BT	OMNI-3125-BT
系统			
处理器	Intel® Celeron® J1900, 2.0 GHz/ N2807, 1.58 GHz	Intel® N2807 processor, 1.58 GHz, Intel® Celeron® J1900 processor, 2 GHz	
系统内存	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB (J1900), 4 GB (N2807)	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)	
LCD/CRT控制器	Integrated in Processor		
以太网	10/100/1000Base-TX, RJ-45 x 2	Intel® I211, 10/100/1000 Base-TX x 2	
I/O 端口	USB Type A x 1 for USB 3.2 Gen 1, USB Type A x 3 for USB 2.0 SMA antenna hole x 1, HDMI x 1 CFast™ x 1, DB-9 for RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 V DC power input LED Power On/Off Switch x 1 (Power on = orange, Power off =N/A)	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 x 1 for RS-232/422/485 RJ-45 x 2 for GbE LAN DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x 1 (Power on = Orange, Power off =N/A)	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1, CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
存储磁盘驱动器	CFast™ socket x 1, SATA 2.5" HDD bay x 1	CFast™ x 1, 2.5" SATA HDD bay x 1	CFast™ x 1, 2.5" SATA HDD bay x 1
扩展槽	Mini-Card x 2 (Full Size), OMNI I/O Connector x 1, SIM x 2	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1	
操作系统支持	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher	Windows® 7, Windows® 8, Windows® 10, Linux Kernal 2.6.x or higher	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
机构			
构造	Aluminum front bezel + metal chassis	Aluminum design (IP65 Front Frame)	
安装	VESA 100/ Panel mount		
尺寸	16.54" x 10.43" x 2.36" (420mm x 265mm x 60mm)	11.02" x 9.41" x 2.32" (280 mm x 239 mm x 59 mm)	12.95" x 11.34" x 2.2" (329 mm x 288 mm x 56 mm)
包装尺寸	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)	16.34" x 7.05" x 15.39" (415mm x 179mm x 391mm)	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
总重量	14.1 lb (6.4kg)	7.92 lb (3.6 kg)	11 lb (5.0 kg)
环境			
工作温度	-4°F ~ 140°F (-20°C ~ 60°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: N2807) -4°F ~ 131°F (-20°C ~ 55°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: J1900)	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)	
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)		
存储湿度	90% @40°C, non-condensing		
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD		
防冲击	15 G peak acceleration (11 msec. duration)	15 G peak acceleration (11 msec. duration) – with HDD	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A		
电源			
DC输入	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function		
LCD			
显示类型	15.6" TFT-LCD, LED backlight	10.4" TFT-LCD, LED	12.1" TFT-LCD, LED
最大分辨率	1366 x 768	800 (H) x 600 (V)	1024 (H) x 768 (V)
最大色彩数	16.7M colors (8-bit for R,G,B)	16.2M colors	
亮度	400 cd/m2	230 cd/m2	500 cd/m2
可视角度	160° (H), 140° (V)	120° (H), 100° (V)	160° (H), 160° (V)
背光	LED		
背光 MTBF (小时)	50,000		
触摸屏			
类型	P-CAP/ 5-wire resistive		
透光率	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)		
备注			

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化触控平板电脑解决方案



型号	OMNI-3155-BT	OMNI-3175-BT	OMNI-3195-BT
系统			
处理器	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz		
系统内存	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)		
LCD/CRT控制器	Integrated in processor		
以太网	Intel® I211, 10/100/1000 Base-TX x 2		
I/O 端口	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1, CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)	USB 2.0 Type A x 3, USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)	
存储磁盘驱动器	CFast™ x 1, 2.5" SATA HDD bay x 1		
扩展槽	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1	Mini card x 2, SIM card x 1, OMNI I/O connector x 1	Full Size Mini card x 2, SIM card x 2, OMNI I/O connector x 1
操作系统支持	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher		
机构			
构造	Aluminum design (IP65 Front Frame)		
安装	VESA 100 / Panel Mount		
尺寸	14.53" x 12.36" x 2.28" (369 mm x 314 mm x 58 mm)	16.14" x 14.57" x 2.32" (410mm x 370mm x 59mm)	18.15" x 16.14" x 2.32" (461 mm x 410 mm x 59 mm)
包装尺寸	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)	20.55" x 10.31" x19.29" (522mm x 262mm x 490mm)	26.02" x 8.11" x 19.53" (661mm x 206mm x 496mm)
总重量	13.97 lb (6.35 kg)	15.84 lb (7.2 kg)	19.36 lb (8.8 kg)
环境			
工作温度	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)		
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)		
存储湿度	90% @40°C; non-condensing		
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD		
防冲击	15 G peak acceleration (11 msec. duration) – with HDD		
EMC	CE/FCC class A		
电源			
DC输入	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function		
LCD			
显示类型	15" TFT-LCD, LED	17" TFT-LCD, LED	19" TFT-LCD, LED
最大分辨率	1024 (H) x 768 (V)	1280 (H) x 1024 (V)	
最大色彩数	16.2M (8bit/color)	16.7M colors (RGB 6-bits + Hi-FRC data)	16.7M colors
亮度	300 cd/m2	350 cd/m2	
可视角度	176° (H), 176° (V)	170° (H), 160° (V)	
背光	LED		
背光 MTBF (小时)	70,000	50,000	
触摸屏			
类型	P-CAP/ 5-wire resistive		
透光率	P-CAP (90%± 2%), 5-wire Resistive (80% ± 2%)	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)	
备注			

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化触控平板电脑解决方案

OMNI系列：模块化触控平板电脑解决方案

型号	OMNI-2155-SKU	OMNI-2215-SKU	OMNI-3125-SKU
系统			
处理器	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz	Intel® Core™ i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
系统内存	260-pin DDR4 SODIMM x 1, up to 16 GB		
LCD/CRT控制器	Integrated in processor		
以太网	Intel® I211, 10/100/1000 Base-TX x 1		
I/O端口	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)		
存储磁盘驱动器	2.5" SATA HDD bay x 1		
扩展槽	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1		
操作系统支持	Windows® 8.1 Windows® 10 (64 bit) Linux Kernal 2.6.x or higher		
机构			
结构	Aluminum design (IP65 Front Frame)		
安装方式	VESA 100 / Panel Mount		
尺寸	16.54" x 10.43" x 2.87" (420 mm x 265 mm x 73 mm)	21.7" x 14.7" x 2.6" (550mm x 373mm x 66mm)	12.95" x 11.34" x 2.72" (329mm x 28mm x 69 mm)
包装尺寸	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)	26.38" x 7.87" x 20.67" (670mm x 200mm x 525mm)	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
总重量	14.96 lb (6.8 kg)	20.02 lb (9.1 Kg)	12.34 lb (5.6 kg)
环境			
工作温度	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)		
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)		
存储湿度	90% @40°C; non-condensing		
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD		
防冲击	15 G peak acceleration (11 msec. duration) – with HDD		
EMC	CE/FCC class A		
电源			
DC输入	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function		
LCD			
显示类型	15.6" TFT-LCD, LED	21.5" TFT-LCD, LED	12.1" TFT-LCD, LED
最大分辨率	1366 (H) x 768 (V)	1920 (H) x 1080 (V)	1024 (H) x 768 (V)
最大色彩数	16.7M (8 bit/color)	16.7M colors	16.2M colors
亮度	400 cd/m2	250 cd/m2	500 cd/m2
可视角度	160° (H), 140° (V)	178° (H), 178° (V)	160° (H), 160° (V)
背光	LED		
背光 MTBF (小时)	50,000		
触摸屏			
类型	P-CAP/ 5-wire resistive		
透光率	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 2%)	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
备注			

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化触控平板电脑解决方案



型号	OMNI-3155-SKU	OMNI-3175-SKU	OMNI-3195-SKU
系统			
处理器	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz		
系统内存	260-pin DDR4 SODIMM x 1, up to 16 GB		
LCD/CRT控制器	Integrated in processor		
以太网	Intel® I211, 10/100/1000 Base-TX x 1		
I/O 端口	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)		
存储磁盘驱动器	2.5” SATA HDD bay x 1		
扩展槽	Full Size Mini card x 1, SIM card x 1, OMNI I/O connector x 1		
操作系统支持	Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher		
机构			
构造	Aluminum design (IP65 Front Frame)		
安装	VESA 100/ Panel Mount		
尺寸	14.53” x 12.36” x 2.79” (369mm x 314mm x 71 mm)	16.14” x 14.57” x 2.32” (410mm x 370mm x 59mm)	18.14” x 16.14” x 2.83” (460.8mm x 410mm x 72 mm)
包装尺寸	20.08” x 9.84” x 18.11” (510mm x 250mm x 460mm)	20.55” x 10.31” x 19.29”(522mm x 262mm x 490mm)	26.02” x 8.11” x 19.53” (661mm x 206mm x 496mm)
总重量	14.3 lb (6.5 kg)	16.28 lb (7.4 kg)	20.06 lb (9.1 kg)
环境			
工作温度	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)		
存储温度	-4°F ~ 158°F (-20°C ~ 70°C)		
存储湿度	90% @40°C; non-condensing		
抗振动	1 Grms/ 5~ 500Hz/ operation – with HDD		
防冲击	15 G peak acceleration (11 msec. duration) – with HDD		
EMC	CE/FCC class A		
电源			
DC输入	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function		
LCD			
显示类型	15” TFT-LCD, LED	17” TFT-LCD, LED	17” TFT-LCD, LED
最大分辨率	1024 (H) x 768 (V)	1280 (H) x 1024 (V)	
最大色彩数	16.2M (8bit/color)	16.7M colors (RGB 6-bits + Hi-FRC data)	
亮度	300 cd/m^2	350 cd/m^2	
可视角度	176° (H), 176° (V)	170° (H), 160° (V)	
背光	LED		
背光 MTBF (小时)	70,000	50,000	
触摸屏			
类型	P-CAP/ 5-wire resistive		
透光率	P-CAP (90%± 2%), 5-wire Resistive (80% ± 2%)	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)	
备注			

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化触控平板电脑解决方案

型号	OMNI-2155-ADP	OMNI-2215-ADP	OMNI-3125-ADP
	第一季度推出	第一季度推出	第一季度推出
系统			
处理器	Intel® Alder Lake-P i7/i5/i3/Celeron CPU		
系统内存	DDR5 4800 MHz, Dual Channel SODIMM x 2		
LCD/CRT控制器	—		
以太网	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base		
I/O端口	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2		
存储磁盘驱动器	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIex4 NVMe Storage)		
扩展槽	B-Key 3052 x 1 (BOM Optional: PCIe x 2),default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)		
操作系统支持	Windows 10/Windows 11/Linux		
机构			
结构	Aluminum Front Bezel + Metal Chassis		
安装方式	VESA / Panel Mount		
尺寸	TBD	TBD	TBD
包装尺寸	TBD	TBD	TBD
总重量	TBD	TBD	TBD
环境			
工作温度	-4°F~122°F (-20°C~50°C) with airflow		
存储温度	-4°F~140°F(-20°C~60°C)		
存储湿度	90% @40°C; non-condensing		
抗振动	1Grms / 5~ 500Hz / operation		
防冲击	15 G peak acceleration (11 msec. duration)		
EMC	CE/FCC Class A Compatible		
电源			
DC输入	DC 9~36V		
LCD			
显示类型	15.6" TFT-LCD, LED	21.5" TFT-LCD, LED	12.1" TFT-LCD, LED
最大分辨率	1366 (H) x 768 (V)	1920 x 1080	1024(H) x 768(V)
最大色彩数	16.7M (8 bit/color)	16.7M colors	16.2M colors
亮度	400 cd/m^2	250 cd/m^2	500 cd/m^2
可视角度	170° (H) ; 130° (V)	178° (H) ; 178° (V)	160° (H) ; 160° (V)
背光	LED		
背光 MTBF (小时)	50,000 Hrs		
触摸屏			
类型	P-CAP/ 5-wire resistive		
透光率	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
备注			

备注: 所有规格如有变更，恕不另行通知。

	第一季度推出	第一季度推出	第一季度推出
型号	OMNI-3155-ADP	OMNI-3175-ADP	OMNI-3195-ADP
系统			
处理器	Intel® Alder Lake-P i7/i5/i3/Celeron CPU		
系统内存	DDR5 4800 MHz, Dual Channel SODIMM x 2		
LCD/CRT控制器	—		
以太网	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base		
I/O 端口	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2		
存储磁盘驱动器	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIex4 NVMe Storage)		
扩展槽	B-Key 3052 x 1 (BOM Optional: PCIe x 2),default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)		
操作系统支持	Windows 10/Windows 11/Linux		
机构			
构造	Aluminum Front Bezel + Metal Chassis		
安装	VESA / Panel Mount		
尺寸	TBD	TBD	TBD
包装尺寸	TBD	TBD	TBD
总重量	TBD	TBD	TBD
环境			
工作温度	-4°F~122°F (-20°C~50°C) with airflow		
存储温度	-4°F~140°F(-20°C~60°C)		
存储湿度	90% @40°C; non-condensing		
抗振动	1Grms / 5~ 500Hz / operation		
防冲击	15 G peak acceleration (11 msec. duration)		
EMC	CE/FCC Class A Compatible		
电源			
DC输入	DC 9~36V		
LCD			
显示类型	15" TFT-LCD, LED	17" TFT-LCD, LED	19" TFT-LCD, LED
最大分辨率	1024(H) x 768(V)	1280(H) x 1024(V)	
最大色彩数	16.2M (8 bit/color)	16.7M colors (RGB 6-bits + Hi-FRC data)	16.7M colors
亮度	300 cd/m^2	350 cd/m^2	
可视角度	176° (H), 176° (V)	170° (H), 160° (V)	
背光	LED		
背光 MTBF (小时)	70,000	50,000	
触摸屏			
类型	P-CAP/ 5-wire resistive		
透光率	P-CAP (90% ± 2%), 5-wire Resistive (80% ± 2%)	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)	
备注			

备注: 所有规格如有变更，恕不另行通知。

OMNI系列：模块化显示屏解决方案



型号	OMNI-215M	OMNI-221M	OMNI-310M
系统			
输入信号	VGA/HDMI		
屏幕显示控制	5 keys OSD keypad (Up, Down, Menu, Auto, Power)		
I/O 端口	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)		
操作系统支持	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04		
机构			
构造	IP65 aluminum front bezel & SGCC chassis		
安装	Panel Mount / VESA 100 x 100 / Stand		
尺寸	16.5” x 10.4” x 2.4” (420.2mm x 264.5mm x 60.2mm)	21.6” x 14.6” x 2.1” (549mm x 372mm x 53mm)	11.0” x 9.4” x 2.33” (280mm x 239.3mm x 59.1mm)
包装尺寸	20.9” x 17.5” x 7.9” (530mm x 445mm x 200mm)	26.4” x 20.7” x 7.9” (670mm x 525mm x 200mm)	16.3” x 15.4” x 7.04” (415mm x 391mm x 179mm)
总重量	14.1 lbs (6.4 kg)	18.5 lbs (8.4 kg)	7.9 lbs (3.6 kg)
净重	11.2 lbs (5.1 kg)	15.4 lbs (7.0 kg)	1.1 lbs (2.4 kg)
环境			
工作温度	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow		
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)		
存储湿度	10%~90% @104°F (40°C); non-condensing		
抗振动	1 Grms / 5~500Hz/random Operation		
防冲击	—		
EMC	CE/FCC, Class A		
电源			
DC输入	DC 12~30V Power Input with 3 Pin Terminal Block		
LCD			
显示类型	15.6” TFT-LCD	21.5” TFT-LCD	10.4” TFT-LCD
最大分辨率	1366 x 768	1920 x 1080	800 x 600
最大色彩数	16.7M		16.2M
亮度	400 cd/m2	250 cd/m2	230 cd/m2
可视角度	170° (H), 160° (V)	178° (H), 178° (V)	160° (H), 130° (V)
背光	LED		
背光 MTBF (小时)	50,000		30,000
触摸屏			
类型	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)		
透光率	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)		
使用寿命	—		
备注			

OMNI系列：模块化显示屏解决方案



型号	OMNI-312M	OMNI-315M	OMNI-317M
系统			
输入信号	VGA / HDMI		
屏幕显示控制	5 keys OSD keypad (Up, Down, Menu, Auto, Power)		
I/O 端口	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)		
操作系统支持	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04		
机构			
构造	IP65 aluminum front bezel & SGCC chassis		
安装	Panel Mount / VESA 100 x 100 / Stand		
尺寸	12.9" x 11.3" x 2.2" (328.5mm x 288.1mm x 55.9mm)	14.5" x 12.4" x 2.3" (369mm x 314mm x 58mm)	16.1" x 14.6" x 2.3" (410mm x 370mm x 59.1mm)
包装尺寸	20.9" x 17.5" x 7.9" (530mm x 445mm x 200mm)	20.1" x 18.1" x 9.8" (510mm x 460mm x 250mm)	20.6" x 19.3" x 10.3" (522mm x 490mm x 262mm)
总重量	10.4 lbs (4.7 kg)	14 lbs (6.35 kg)	14.8 lbs (6.7 kg)
净重	7.7 lbs (3.5 kg)	11.2 lbs (5.1 kg)	11.7 lbs (5.3 kg)
环境			
工作温度	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow		
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)		
存储湿度	10%~90% @104°F (40°C); non-condensing		
抗振动	1 Grms / 5~500Hz/random Operation		
防冲击	—		
EMC	CE/FCC, Class A		
电源			
DC输入	DC 12~30V Power Input with 3 Pin Terminal Block		
LCD			
显示类型	12.1" TFT-LCD	15" TFT-LCD	17" TFT-LCD
最大分辨率	1024 x 768		1280 x 1024
最大色彩数	16.2M	16.2M (8bit/color)	16.7M
亮度	500 cd/m2	300 cd/m2	350 cd/m2
可视角度	160° (H), 160° (V)	176° (H), 176° (V)	160° (H), 140° (V)
背光	LED		
背光 MTBF (小时)	50,000	70,000	50,000
触摸屏			
类型	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)		
透光率	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)		
使用寿命	—		
备注			

OMNI系列：模块化显示屏解决方案

型号	OMNI-319M
系统	
输入信号	VGA / HDMI
屏幕显示控制	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O端口	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
操作系统支持	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
机构	
结构	IP65 aluminum front bezel & SGCC chassis
安装方式	Panel Mount / VESA 100 x 100 / Stand
尺寸	18.1” x 16.1” x 2.3” (460.8mm x 410mm x 59.1mm)
包装尺寸	26.0” x 19.5” x 8.1 (661mm x 496mm x 206mm)
总重量	18.1 lbs (8.2 kg)
净重	15.2 lbs (6.9 kg)
环境	
工作温度	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
存储温度	-4°F ~ 140°F (-20°C ~ 60°C)
存储湿度	10%~90% @104°F (40°C); non-condensing
抗振动	1 Grms / 5~500Hz/random Operation
防冲击	—
EMC	CE/FCC, Class A
电源	
DC输入	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
显示类型	19” TFT-LCD
最大分辨率	1280 x 1024
最大色彩数	16.7M
亮度	350 cd/m2
可视角度	170° (H), 160° (V)
背光	LED
背光 MTBF (小时)	50,000
触摸屏	
类型	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
透光率	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
使用寿命	—
备注	

专注 · 灵活 · 竞争力

备忘录