

X86ARM

NAVIGATOR OF IOT MOTHERBOARD IN CHINA

中国物联网设备主板领导者

30年前, 中国大陆第一片主板在信步诞生

Seavo designed the first motherboard of mainland China 30 years ago.



年销过 100 万片, 行业遥遥领先

Annual sales exceeded 1 million, far ahead in the industry.



中国物联网设备主板领导者

信步科技服务了多个国家十多个领域的上百家领先企业(包括30多家世界500强, 以及德、法、日、韩、瑞士、台湾等地区的100多家上市公司),800多款产品稳定运行在全球千万台智能设备上,为当今世界精彩纷呈的生活图景贡献了值得信赖的中国方案。



推动智慧物联的世界不断向前

Seavo, behind the smart AIOT world, is pushing it forward.



信步在您身边

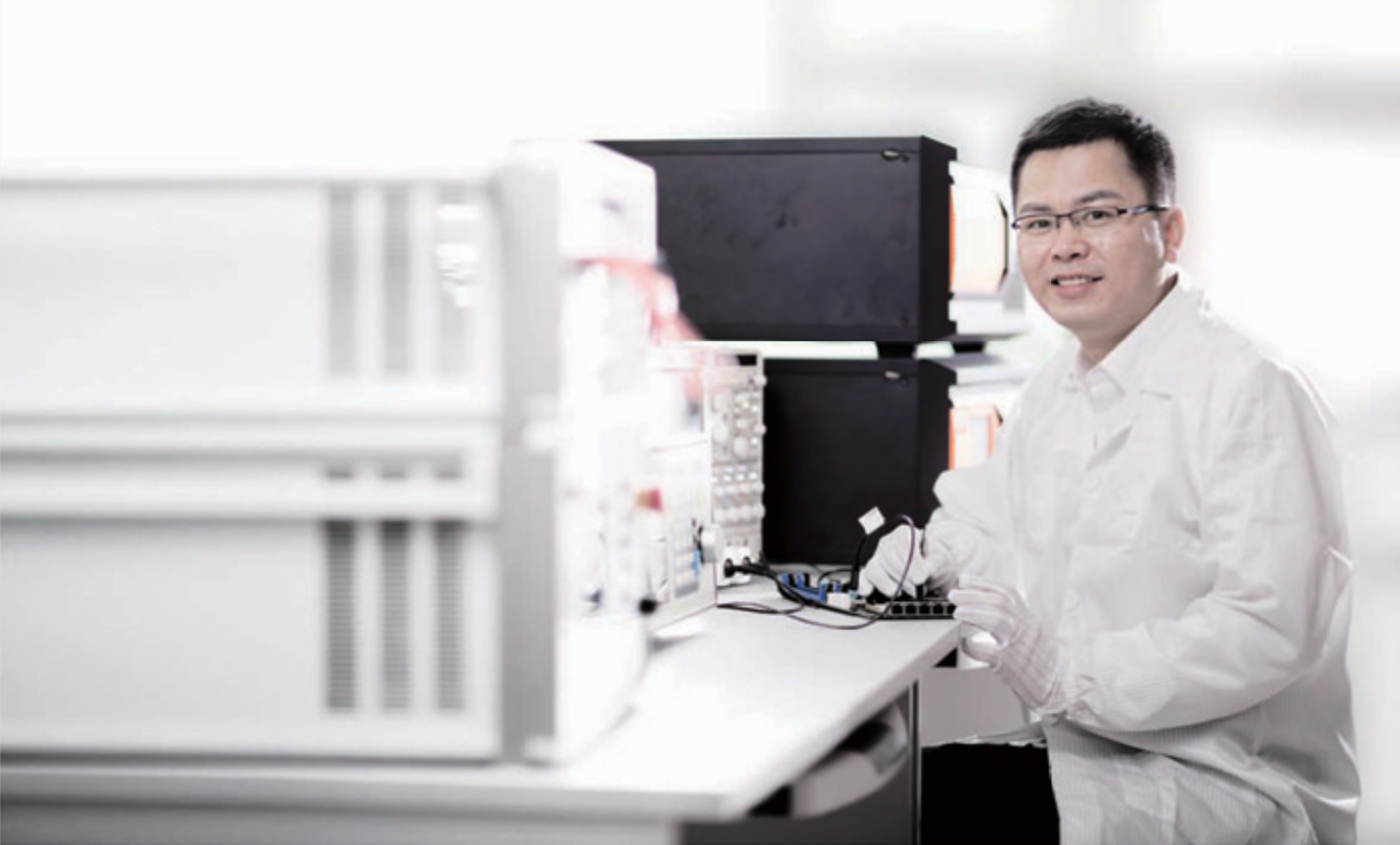
信步, 无处不在。信步方案覆盖运动控制、机器视觉、机器人、人脸识别、5G+AI、视频会议、数字医疗、智慧能源、智慧零售/自助、数字安防、网络安全、智慧教育、智慧交通、云计算/云存储等20多个领域。

信步, 在您身边。港珠澳大桥无人售票系统、“复兴号”高速WiFi覆盖系统、国家首个新冠灭活疫苗生产车间、北京机场信息发布和支付/自助终端、天安门广场人脸识别安保系统.....信步产品屡获国家工程信赖。

创新·成人之美

Innovate to help customer succeed.

信步文化氛围引导工程师不囿于以往经验, 对行业进行重新思考, 让技术插上想法的翅膀, 不断引领行业创新, 从而为客户伙伴呈现超出预期的信步方案。



成人之美

推出全球首款基于Atom平台的商业信息设备主板, 联合Intel制定全球首个智能自助模块化标准SKM, 发布业界首个x86 AI开发套件、国内首个工业核心模块标准SCM, 创新刷脸支付方案、机器视觉与运动控制高可靠IPC参考设计, 800多款主板, 150多项技术专利与专有设计.....

一个个创新的信步方案, 成为引领行业的新标准, 帮助客户缩短研发周期, 打造更加稳定可靠的设备系统, 建立技术优势, 赢得市场先机。

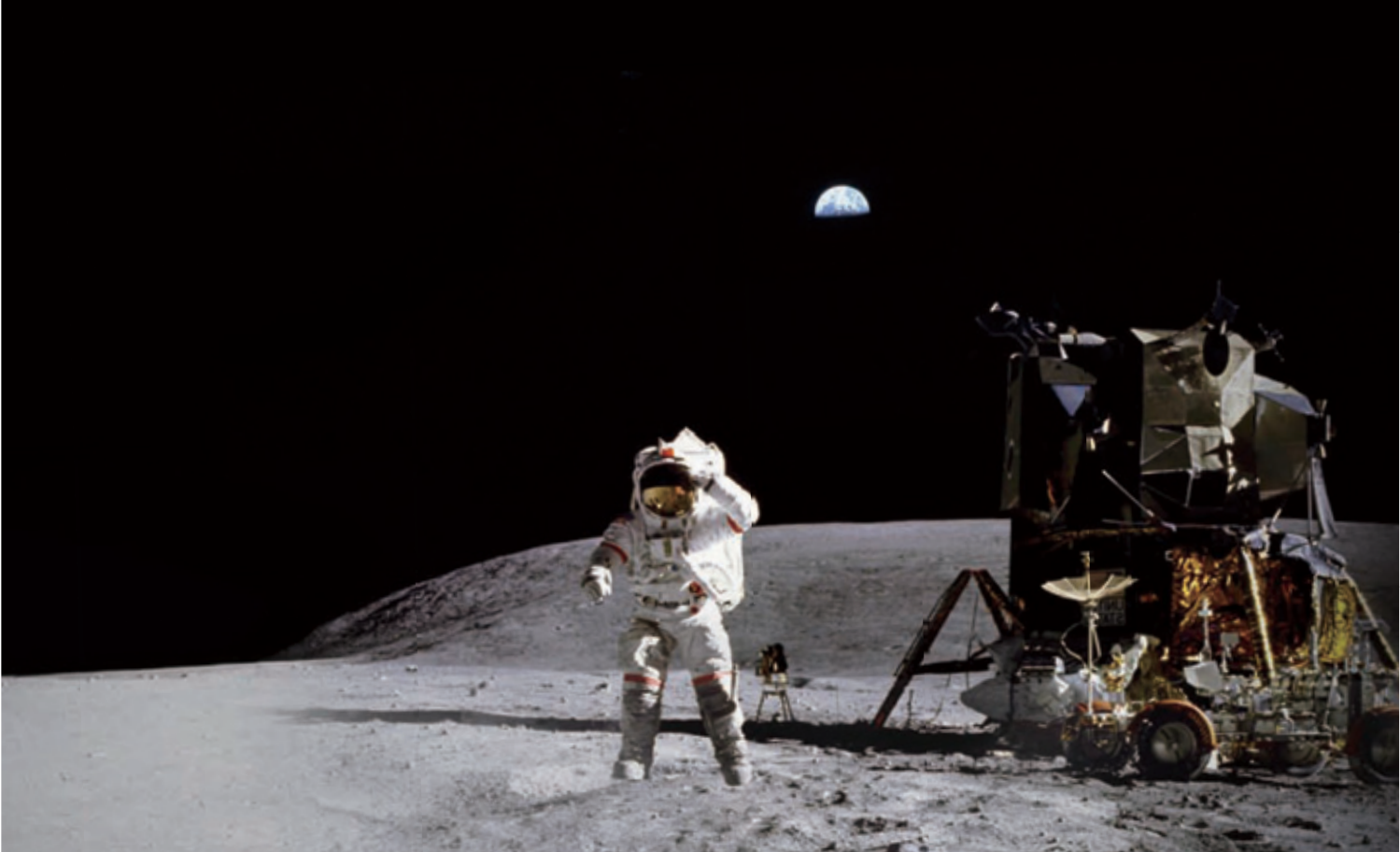


信步国际级质量的“登月工程”

Seavo explains stability with its annual RMA as low as 1‰.

千分之五的年返修率，信步做到了。

信步将低于千分之一的品质极限作为新目标，打造质量体系建设的“登月工程”，助力伙伴企业品质迈上新台阶，竞争获得新优势。



稳定的

这不仅是指企业组织和员工队伍的稳定，更指信步产品品质的高可靠性。信步坚持“持续性品质”的思想，强调品质贯穿产品全过程，从器件选型时形态的稳定性，直至售后的服务水准。

信步把“制造最好”作为一切工作的落脚点。从不向技术难题妥协，绝不放过任何一个可疑细节，以近乎偏执的态度，一次次刷新了智能设备主板品质稳定的高度。

第一时间抵达客户现场

With seavo, without worry.

不止于服务的零投诉，更要获得客户的赞誉。

让用户使用信步产品高枕无忧，才是信步成功之道。



负责的

信步服务理念：4D无忧服务

全程 (Durable)、迅速 (Direct)、负责 (Dutiful)、愉快 (Delightful)

无一例因服务品质问题而遭客户投诉的事件。

无一例关键技术难题未被解决。

客户赞誉的背后，是信步专家攻关组、技术支持团队7x24小时的付出。



把发现、关怀和塑造人作为信步终极管理哲学

Seavo regards discovering, caring for and shaping talents as the philosophy of management.



塑造人才

信步倡导员工探寻工作乐趣，让员工在长期、安心为客户创造最好的产品与服务的过程中，获得人格历练和价值提升，抵达更高的人生境界。

在信步，高素质人才梯队建设已超过10年，技术管理团队中90%为清华、中科大、交大等名校毕业生，多位教授级高工致力打造智慧、高效的研发流程。

开启“赋能国际”信步发展新阶段

Seavo opens a new development stage of “internationalization”.

信步将在技术、品质和服务水准以及合作体验等方面，对标国际一流企业，为建成“国际化企业”赋能，把成为全球最大的物联网(IoT)智能设备平台作为新目标。



赋能国际

信步率先响应国家“高质量发展”转型升级战略的号召，在研发实力、品控体系等方面，已赢得了多个发达国家和地区的市场认可，国际级客户群不断壮大，海外销量屡创新高。

未来，信步将带动行业上下游走出“中等收入陷阱”，推动国家物联网智能产业升级，提升国家在这一行业的国际地位。



创造美好 是建立信步 现代创新型企业组织的出发点

Seavo is entering the era of “Intelligent management 3.0”.



创造美好

继完成企业流程再造和信息化建设的管理1.0,和深化思维路径管理的智慧管理2.0后,信步已全面启动“创造美好”和“善”的现代创新型企业组织管理3.0时代——企业在提升自身业绩的同时,为员工的健康幸福、供应商的成长、客户的技术革新、行业生态的和谐共赢、社会乃至整个世界的美好未来做出贡献。

信步 物联网智能设备主板 选型目录(2024)

Seavo IOT Embedded Boards Selection Guide (2024)

信步科技物联网设备主板,在技术上强调多领域交叉,在产品的质量、成本控制和库存管理上,又由于多规格、小批量、定制化等特点而增添了很多难度。它需要通过4000项严苛测试,强调更稳定可靠、更长的供货周期、产品形态多元、小尺寸、低功耗、多功能、成本更具优势,它比以往更加广泛地应用到各个传统行业,以使其焕发新的生机。

除ODM/OEM定制产品外,信步科技提供基于X86、ARM等平台的行业标准应用主板、模块及配套软件支持,可广泛应用于智能零售/自助、工业自动化、数字多媒体、数字医疗、安防存储、网络安全等领域。

服务器

C741 系列	SER SV-920	1
C621 系列	SER SV-810	2
	SER SV-620	3

工业自动化

工业大母板	Q 系列	SV4-Q6761	4
		SV4-Q4752A-B	5
		SV4-Q3752A	6
		SV4-Q3752	6
		SV4-Q2752A	7
		SV4-Q1752-B	7
	H 系列	SV4-12S43-H610	8
		SV6-H6131	9
		SV4-H4734	10
		SV4-H3C34	10
		SV4-H3134	10
		SV4-H1134-B (F8)	11
		SV4-H8134-B (F8)	11
		SV4-B7534-C	11

机器视觉	Q670/H610 系列	MEV SVX-Q6764	12
		SVX-H6156	13
	Alder Lake -PS 系列	SV1-ADLPS56	14
	Q170/H110 系列	SVX-H1156-B1/B2	15
		SV-H11VC	16
	H81 系列	SV1-H8146-B1/B2	16
	Tiger Lake 系列	SVX-13554-E	17
	Alder Lake -N 系列	SV3b-12N46	18
	Alder Lake -N 系列	SV8-12N26	19
		SV8a-12N26	19

EPC/PPC	Bay Trail 系列	SV8-19026P-B	20
		SV8a-19026P-A1	20
	Raptor Lake -P 系列	SV3b-RKI	21
	Alder Lake -P 系列	SV3b-12P26	22
	Tiger Lake 系列	SV3b-13526	23
	Whiskey Lake 系列	SV3b-85626-B	24
		SV3-85626-C	24

	Kaby Lake 系列	SV3b-72026-BH	24
	Elkhart Lake 系列	SV3b-64126	25
		SV3-64126	25

	Apollo Lake 系列	SV3b-34526-B (F8)	26
		SV3-34526-C (F8)	26
	Bay Trail 系列	SV3b-19026-EH (F8)	27
		SV3-19026 (F8)	27

核心模块	SCM 核心模块	SCM-DQ673A	28
		SCM-DH113	28
		SCM-C2152A	29
		SCM-C1652	29
		SCM-C8262-A2	30
		SCM-CA6201	30
		SCM-CN952	31
		SCM-C6412	31
		SCM-CA1901-A1	31
	SCM 载板	SCM-D221	32
		SCM-B2651	33
	COMe 核心模块	SEM-B1707	34
		SEM-C2706	35
		SEM-C1356	35
		SEM-C6106	35
		SEM-C6426	36
		SEM-C1906	36

智能零售/自助

Desktop	双层IO系列	SV1-H3C26C	37
		SV1-H3126C	38
		SV1-H1126C (F8)	38
		SV1-H8126C-C (F8)	38
		SV1-12S2A-H610	39
	单板系列	SV1-H472A	40
		SV1-H312A	41
		SV1-H112A	41
		SV1-H1116	41
		SV1-H812C (F8)	42
		SV1-H8116	42
	薄型Mini-ITX系列	SV1a-H3124P	43
		SV1a-H1116P	44
		SV1a-H8112P-B	44
	Meteor Lake 系列	SV1a-4xxx	45
	Raptor Lake -P/Alder Lake -P系列	SV1a-12P26-1370P	46
	Tiger Lake系列	SV1a-13514	47
	Whiskey Lake系列	SV1a-81414P	47
		SV-POS422-B	48
	Kaby Lake/Skylake系列	SV1a-70216EP	49
		SV1a-61014P	49
	Alder Lake -N系列	SV1a-10016	50
	Elkhart Lake系列	SV1a-64126	51
	Jasper Lake系列	SV1a-51526	52
	Gemini Lake系列	SV1a-41216 (F8)	52
		SV-MPOS412-B	53
	Apollo Lake系列	SV1a-34526 (F8)	54
		SV1a-34516P	54
		SV1-34526 (F8)	54
	Bay Trail系列	SV-POS192	55
		SV1a-19016EP	56
		SV1a-19016LP –B1	56
		SV1a-19014P-C (F8)	56
		SV1-19026P (F8)	57
		SV-1900D (F8)	57
		SV3-19026 (F8)/SV3-19026-B (F8)	58
		SV3b-19016E	58

安防存储

B150 系列	NVR SV4-B15B4	59
H110 系列	NVR SV4-H11A6	59
B85 系列	NVR SV4-B85B4	60
B75 系列	NVR SV6-B75A6	60
Bay Trail 系列	NVR SV1-190A6	61

网络安全

H310 系列	NSE SVX-H31262	62
Elkhart Lake 系列	NSE SVX-642260	63
C3000 系列	NSE SVX-C35262	64
Bay Trail 系列	NSE SV5-19016P-B	65

国产化

兆芯系列	SV4-Z6843-B	66
	SV1-Z6826C	66
	NSE SV7-Z6730	67
	NSE SVX-Z68264	67
龙芯系列	SV1-L3426C	68
飞腾系列	SV1-D2026C	69

ARM

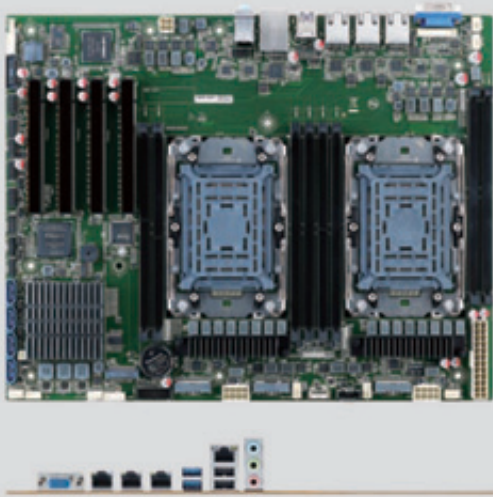
SAM 核心模块	SAM-3588AH	70
	SAM-3568A6	70
	SAM-D9PRAB	71
SAM 载板	CB-A01-N	72
	CB-A01-A	72
Rockchip 系列	SV-35AB6	73
	SV-35B54	74
	SV-33DB6	75
	SV-33A66	75
	SV-33B54	75
	SV-33C61	76
	SV-32A55-W	77
	SV-32B54	77
	SV-32D54	77
	SV-31A14A	78
	SV-45A61	79
	SV-6UA66-A1/A2	80
Qualcomm 系列		
Freescale 系列		

扩展/转换模块

网口扩展卡	SV-I350-T4P	81
	SV-I210-T4P	81
M.2网口扩展卡	SV-M2LAN2-RJ45	81
USB扩展卡	SV-PCIE TO USB3	81
CAN转接卡	SV-USB TO 2CAN	82
	SV-PCIE TO 2CAN	82
隔离型GPIO卡	SV-GPIO&RS485	82
电源转接卡	SV-PDC24V	83
	SV-PDC9-36V	83
AI加速卡	SV-MPEM2095	84
显示转接卡	SV-DHTE	84

SER SV-920

- 支持双路Intel第4代至强可扩展处理器
- 采用Intel C741芯片
- 8*DIMM支持最大512GB ECC内存
- 4*PCIe x16, 1*M.2, 4*千兆网口
- 4*SATA 3.0, 3*Slim-SAS 8i



General

CPU	Dual 4 th Gen Intel® Xeon® Scalable Processor, Socket FCLGA4677
Chipset	Intel® C741 Chipset, 11W
Memory	DDR5-4800, 8*ECC RDIMM, up to 512GB
Storage	4*SATA 3.0 1*M.2 (Key-M, PCIe x4 NVMe SSD, 2280) 1*Slim-SAS 8i (Dual 2*PCIe x4/ SATA SSD) 2*Slim-SAS 8i (Dual 2*PCIe x4)
Expansion Interface	4*PCIe x16 Gen5
BIOS	AMI UEFI BIOS
System	Linux, Windows Server 2019/2022, Windows10
TPM	SLB9670VQ2.0, TPM2.0 onboard

I/O

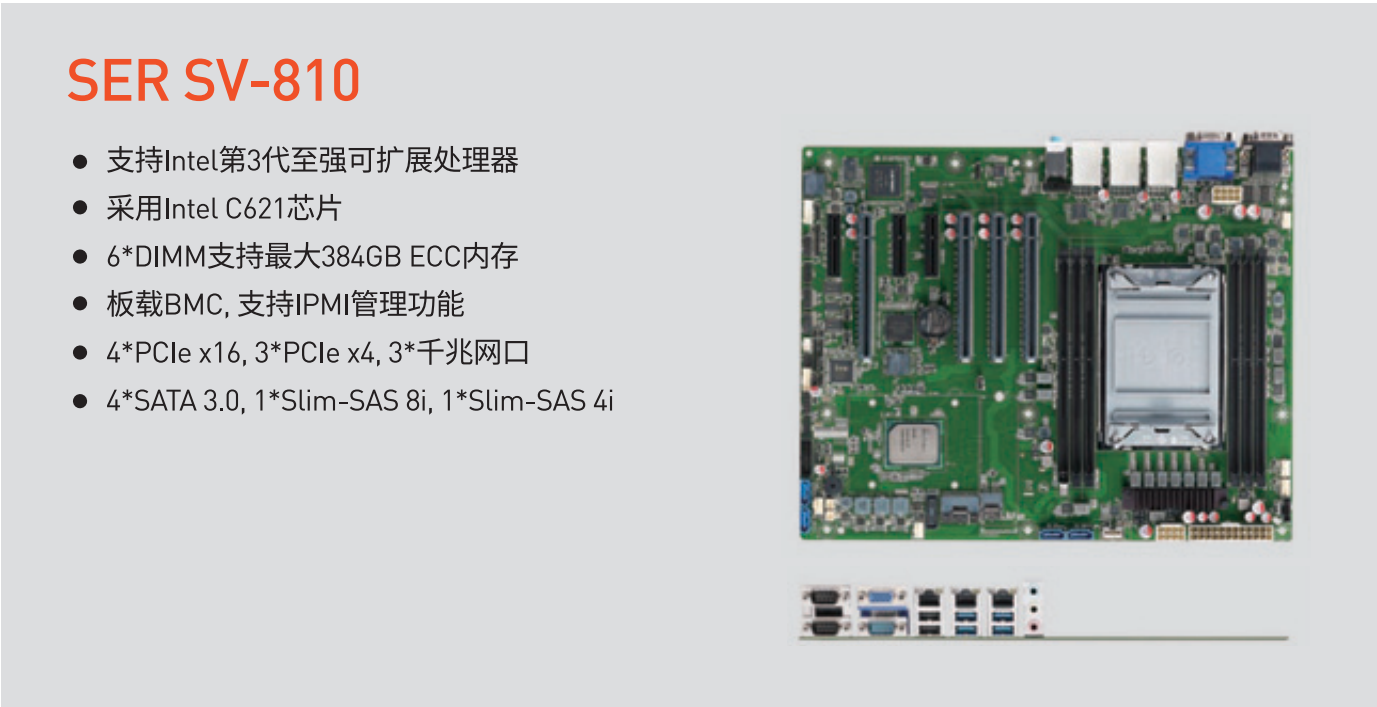
Ethernet	3*Intel® 2.5Gbps Ethernet Controller, RJ45 1*Intel® 1Gbps Ethernet Controller, RJ45, IPMI
Serial	2*RS232
USB	4*USB 3.0, 8*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in

Display

Display Interface	1*VGA: max resolution up to 1920*1200@60Hz
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Mechanical & Environment

Dimension	305*244mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



- 支持Intel第3代至强可扩展处理器
- 采用Intel C621芯片
- 6*DIMM支持最大384GB ECC内存
- 板载BMC, 支持IPMI管理功能
- 4*PCIe x16, 3*PCIe x4, 3*千兆网口
- 4*SATA 3.0, 1*Slim-SAS 8i, 1*Slim-SAS 4i

General	
CPU	3 rd Gen Intel® Xeon® Scalable Processor, Socket FCLGA4189, Intel® Ultra Path Interconnect (UPI) up to 11.2 GT/s
Chipset	Intel® C621 Chipset, 15W
BMC	ASpeed AST2500 Baseboard Management Controller (BMC), Support IPMI 2.0
Memory	DDR4-2666/2933/3200, 6*ECC RDIMM/ LRDIMM, up to 6*64GB
Storage	4*SATA 3.0 1*M.2 (Key-M, PCIe x4 NVMe/ SATA SSD, 2280) 1*Slim-SAS 8i (PCIe x4 NVMe/ SATA SSD) 1*Slim-SAS 4i (PCIe x4 NVMe/ PCIe x2/ SATA SSD)
Expansion Interface	4*PCIe x16 Slot (PCIe x16 Gen4) 2*PCIe x4 Slot (PCIe x4 Gen3) 1*PCIe x4 Slot (PCIe x2/ x1 Gen3)
BIOS	AMI UEFI BIOS
System	Linux, Windows Server 2016, Windows10/11
TPM	SLB9670VQ2.0, TPM2.0 onboard, With 1*TPM Header

I/O	
Ethernet	2*Intel® 1Gbps Ethernet Controller, RJ45 1*Realtek® 1Gbps Ethernet Controller, RJ45
Serial	2*RS232, 2*RS232/RS422/RS485
USB	6*USB 3.0, 5*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in
Others	1*GPIO Header, 1*PS/2 Header (Keyboard & Mouse) 1*Case Open Header

Display	
Display Interface	1*VGA: max resolution up to 1920*1080@60Hz

Mechanical & Environment	
Dimension	305*244mm
Power Input	ATX 28P
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



- 支持双路Intel第1/2代至强可扩展处理器
- 采用Intel C620系列芯片
- 16*DIMM支持最大2TB ECC内存
- 板载BMC, 支持IPMI管理功能
- 4*PCIe x16, 1*PCIe x8, 2*Intel万兆网口
- 14*SATA 3.0, 1*M.2

General	
CPU	Dual Intel® Xeon® Scalable Processors, Socket LGA-3647 (Socket P0), each processor supports Intel® Ultra Path Interconnect (UPI) of up to 10.4 GT/s
Chipset	Intel® C620 Series (C622/C624/C628)
Memory	DDR4-2666/2400/2133, 16*DIMM, up to 2TB, support ECC
Storage	1*M.2 (Key-M, PCIe x4 NVMe SSD, 2242/2260/2280) 12*SATA 3.0 (SAS1~3), 2*SATA 3.0 (SATA 7P)
Expansion Interface	4*PCIe 3.0 x16, 1*PCIe 3.0 x8
BIOS	AMI UEFI BIOS
System	Linux, Windows Server 2016, Windows10

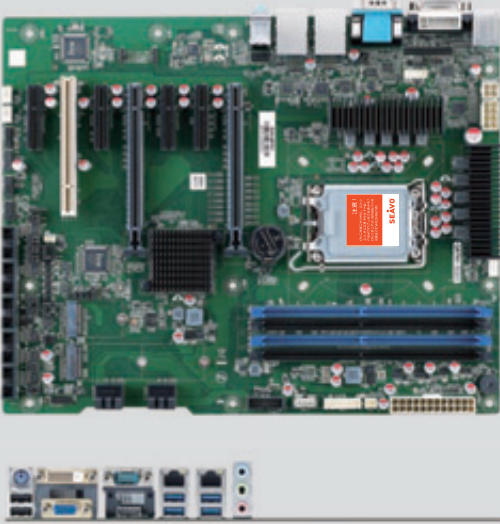
I/O	
Ethernet	DualLAN with Intel® X550 10GBase-T Ethernet Controller, 2*RJ45 1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	1*RS232
USB	4*USB 3.0, 2*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out

Display	
Display Interface	1*VGA: max resolution up to 1920*1080@60Hz

Mechanical & Environment	
Dimension	330*305mm
Power Input	ATX PSU
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV4-Q6761

- 支持Intel 12/13代Core i3/i5/i7/i9处理器
- 采用Intel Q670芯片组
- 2*Intel千兆网口, 8*USB 3.0, 5*USB 2.0, 6*COM
- 1*VGA, 1*HDMI, 1*DVI, 1*eDP
- 2*PCIe x16, 4*PCIe x4, 1*PCI
- 支持vPro, AMT, RAID, TPM 2.0, Case Open



General	
CPU	Intel® 12/13 th Generation Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1700
Chipset	Intel® Q670 Chipset, TDP 6W
Memory	DDR4-3200, 4*U-DIMM, up to 128GB
Storage	4*SATA 3.0, 1*M.2 (Key-M, 2242/2280, PCIe x4 Gen3 NVMe/ SATA SSD)
Expansion Interface	2*PCIe x16 Slot (1*PCIe x16 Gen4 or 2*PCIe x8 Gen4) 3*PCIe x4 Slot (PCIe x4 Gen4) 1*PCIe x4 Slot (PCIe x4 Gen3) 1*M.2 (Key-E, 2230, PCIe+USB 2.0+CNVi, Wifi+BT), 1*PCI
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
TPM	TPM2.0, Optional

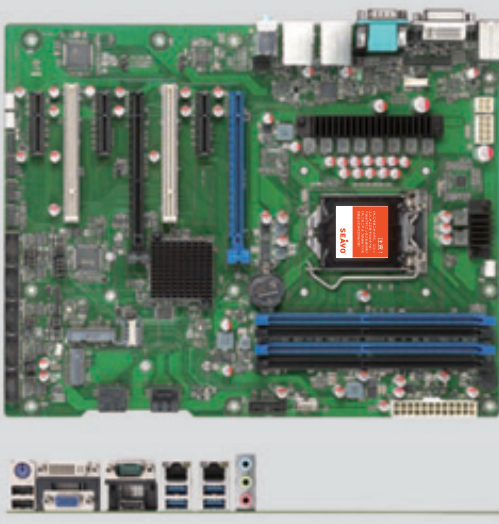
I/O	
Ethernet	1*Intel® 2.5Gbps/ 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485/RS422, 1*RS232/RS485
USB	8*USB 3.0, 5*USB 2.0
Audio	Realtek® Audio HDA Codec, with MIC/Line-out/Line-in
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*Programmable GPIO
Others	1*Case Open Header

Display	
Display Interface	1*DVI-D: max resolution up to 1920*1200@60Hz 1*HDMI 1.4b: max resolution up to 4096*2160@30Hz 1*VGA: max resolution up to 1920*1200@60Hz 1*eDP: max resolution up to 4096*2304@60Hz

Mechanical & Environment	
Dimension	305*244mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV4-Q4752A-B

- 支持Intel 10/11代Core i3/i5/i7/i9处理器
- 采用Intel Q470芯片组
- 2*Intel千兆网口, 6*USB 3.0, 7*USB 2.0, 6*COM
- 1*VGA, 1*HDMI, 1*DVI, 1*eDP, 支持三屏异显
- 2*PCIe x16, 3*PCIe x4, 2*PCI
- 支持vPro, AMT, RAID, TPM 2.0, Case Open



General	
CPU	Intel® 10/11 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1200
Chipset	Intel® Q470 Chipset, TDP 6W
Memory	DDR4-2666/2933, 4*U-DIMM, up to 128 GB
Storage	4*SATA 3.0 1*M.2 (Key-M, 2242/2280, PCIe x4/ SATA SSD)
Expansion Interface	2*PCIe x16 Slot (1*PCIe x16 Gen3 or 2*PCIe x8 Gen3) 3*PCIe x4 Slot (PCIe x4 Gen3) 2*PCI, 1*Mini-PCIe (Wifi+4G)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
TPM	SLB 9670VQ2.0, TPM2.0, Support Intel PTT

I/O	
Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485/RS422, 1*RS232/RS485
USB	6*USB 3.0, 7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*Programmable GPIO
Others	1*Case Open Header

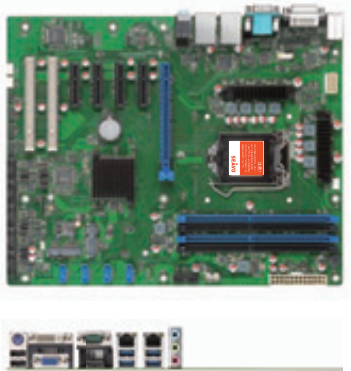
Display	
Display Interface	1*DVI-D: max resolution up to 1920*1200@60Hz 1*HDMI 1.4b: max resolution up to 4096*2160@30Hz 1*VGA: max resolution up to 1920*1200@60Hz 1*eDP: max resolution up to 4096*2304@60Hz

Mechanical & Environment	
Dimension	305*244mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV4-Q3752A



SV4-Q3752



General		
CPU	Intel® 8/9 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1151	Intel® 8/9th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151
Chipset	Intel® Q370, TDP 6W	Intel® Q370, TDP 6W
Memory	DDR4-2400/2666, 4*U-DIMM, up to 128 GB	DDR4-2400/2666, 4*U-DIMM, up to 64 GB
Storage	4*SATA 3.0, 1*M.2	4*SATA 3.0, 1*SATA 3.0/mSATA
Expansion Interface	1*PCIe x16 or 2*PCIe x8 3*PCIe x4, 2*PCI 1*Mini-PCIe(Wifi/3G/4G)	1*PCIe x16, 3*PCIe x4 1*PCIe x4 or 1*PCIe x2 + 1*Mini-PCIe(Wifi/3G/4G Supported), 2*PCI
BIOS	AMI UEFI BIOS	
System	Windows 10/11, Linux	Windows 10, Linux
Feature	vPro, AMT, RAID, TPM 2.0	

I/O		
Ethernet	1*Intel® 2.5Gbps PCIe Ethernet Controller, RJ45 1*Intel® 1Gbps PCIe Ethernet Controller, RJ45	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485/RS422, 1*RS232/RS485	
USB	6*USB 3.0, 7*USB 2.0	
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in	
PS/2	1*PS/2 Port (Keyboard & Mouse)	
GPIO	8*Programmable GPIO	

Display		
Display Interface	1*DVI-D: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@30Hz 1*VGA: up to 1920*1200@60Hz 1*eDP: up to 4096*2304@60Hz	1*DVI-D: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@24Hz 1*VGA: up to 1920*1200@60Hz 1*eDP: up to 1920*1200@60Hz

Mechanical & Environment	
Dimension	305*244mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV4-Q2752A



SV4-Q1752-B



General		
CPU	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1151	Intel® 6/7 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1151
Chipset	Intel® Q270, TDP 6W	Intel® Q170, TDP 6W
Memory	DDR4-2400/2666/2933, 4*U-DIMM, up to 128 GB	DDR4-2133/2400, 4*U-DIMM, up to 128 GB
Storage	4*SATA 3.0, 1*M.2	3*SATA 3.0, 1*SATA 3.0/ mSATA
Expansion Interface	1*PCIe x16 or 2*PCIe x8 3*PCIe x4, 2*PCI 1*Mini-PCIe(Wifi/3G/4G)	1*PCIe x16, 3*PCIe x4, 1*PCIe x1 or Mini-PCIe(Wifi/3G/4G), 2*PCI
BIOS	AMI UEFI BIOS	
System	Windows 10/11, Linux	Windows 7/8.1/10, Linux
Feature	vPro, AMT, RAID, TPM 2.0	vPro, AMT, RAID, TPM 2.0

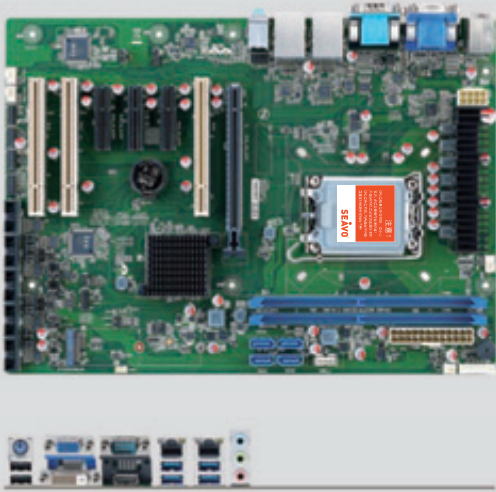
I/O		
Ethernet	1*Intel® 2.5Gbps PCIe Ethernet Controller, RJ45 1*Intel® 1Gbps PCIe Ethernet Controller, RJ45	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485/RS422, 1*RS232/RS485	
USB	6*USB 3.0, 7*USB 2.0	
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in	
PS/2	1*PS/2 Port (Keyboard & Mouse)	
GPIO	8*Programmable GPIO	

Display		
Display Interface	1*DVI-D: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@24Hz 1*VGA: up to 1920*1200@60Hz 1*eDP: up to 4096*2304@60Hz	1*DVI-D: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@24Hz 1*VGA: up to 1920*1200@60Hz 1*eDP: up to 1920x1200@60Hz

Mechanical & Environment	
Dimension	305*244mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV4-12S43-H610

- 支持Intel 12/13代Core i3/i5/i7/i9处理器
- 采用Intel H610芯片组
- 2*Intel千兆网口, 4*USB 3.0, 7*USB 2.0, 6*COM
- 1*VGA, 1*HDMI, 1*DVI, 1*eDP
- 1*PCIe x16, 3*PCIe x4, 3*PCI



General	
CPU	Intel® 12/13 th Generation Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1700
Chipset	Intel® H610 Chipset, TDP 6W
Memory	DDR4-3200, 2*U-DIMM, up to 64GB
Storage	3*SATA 3.0 1*SATA 3.0/ 1*M.2 (Key-B, 2280, SATA SSD)
Expansion Interface	1*PCIe x16 Slot , 3*PCIe x4 Slot 3*PCI
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
TPM	TPM2.0, Optional

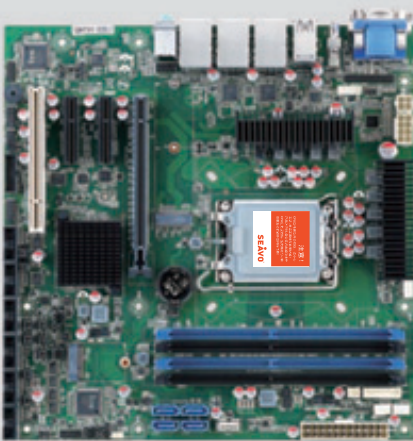
I/O	
Ethernet	1*Intel® 2.5Gbps PCIe Ethernet Controller, RJ45 1*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 2*RS232/RS485
USB	4*USB 3.0, 7*USB 2.0
Audio	Realtek® Audio HDA Codec, with MIC/Line-out/Line-in
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*Programmable GPIO
Others	1*Case Open Header

Display	
Display Interface	1*DVI-D: max resolution up to 1920*1200@60Hz 1*HDMI 1.4b: max resolution up to 4096*2160@30Hz 1*VGA: max resolution up to 1920*1200@60Hz 1*eDP: max resolution up to 4096*2304@60Hz

Mechanical & Environment	
Dimension	305*244mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV6-H6131

- 支持Intel 12/13代Core i3/i5/i7/i9处理器
- 采用Intel H610/Q670 芯片组
- 3*Intel千兆网口, 10*USB 3.0, 6*USB 2.0, 6*COM
- 1*DP, 1*DVI-D, 1*VGA, 1*eDP
- 1*PCIe x16, 2*PCIe x4, 1*PCI, 1*M.2
- 支持TPM 2.0, Case Open, WDT



General	
CPU	Intel® 12/13 th Generation Core™ i3 / i5 / i7 / i9, Pentium®, Celeron® CPU, LGA1700
Chipset	Intel® H610/Q670 Chipset, TDP 6W
Memory	DDR4-3200, 4*U-DIMM, up to 128GB
Storage	4*SATA 3.0 1*M.2 (Key-M, 2242/2280, PCIe x4 Gen4 NVMe/ SATA SSD)
Expansion Interface	1*PCIe x16 Slot 2*PCIe x4 Slot 1*PCI 1*M.2 (Key-E, 2230, PCIe+USB2.0, Support WiFi+Bluetooth)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
TPM	TPM2.0, Optional

I/O	
Ethernet	2*Intel® 1Gbps Ethernet Controller, RJ45 1*Intel® 2.5Gbps Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485, 1*RS232/RS485/RS422
USB	10*USB 3.0, 6*USB 2.0
Audio	Realtek® Audio HDA Codec, with MIC/Line-out/Line-in
GPIO	8*Programmable GPIO
Others	1*Case Open Header,1*ESPI,WDT

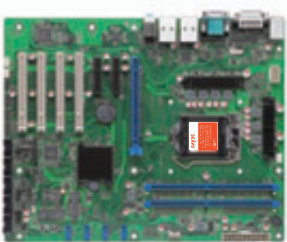
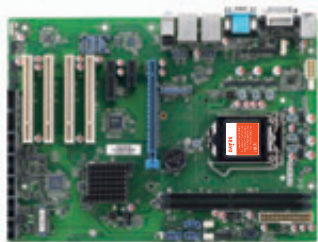
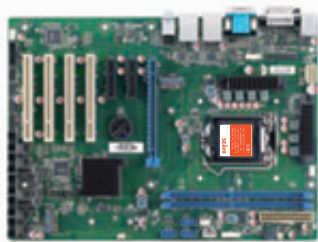
Display	
Display Interface	1*DP++: max resolution up to 4096*2160@30Hz 1*DVI-D: max resolution up to 1920*1200@60Hz 1*VGA: max resolution up to 1920*1200@60Hz 1*eDP: max resolution up to 4096*2304@60Hz

Mechanical & Environment	
Dimension	244*244mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV4-H4734

SV4-H3C34

SV4-H3134



General

CPU	Intel® 10 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1200	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1151	Intel® 8/9 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1151
Chipset	Intel® H470/H420E, TDP 6W	Intel® H310C, TDP 6W	Intel® H310, TDP 6W
Memory	DDR4-2666/2933/3200, 2*U-DIMM, up to 64 GB	DDR4-2400, 2*U-DIMM, up to 32 GB	DDR4-2400/2666, 2*U-DIMM, up to 32 GB
Storage	3*SATA 3.0	4*SATA 3.0, 1*mSATA	3*SATA 3.0, 1*SATA 3.0/ mSATA
Expansion Interface	1*PCIe x16, 2*PCIe x4, 4*PCI, 1*M.2 (Key-E, 2230), 1*M.2 (Key-B, 2280)	1*PCIe x16, 1*PCIe x4, 1*PCIe x1, 4*PCI, 2*Mini-PCIe (1*mSATA,1*Wifi/3G/4G)	1*PCIe x16, 1*PCIe x4 or 1*PCIe x2 + x1 + 1*Mini-PCIe, 4*PCI
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux	Windows 7/8.1/10, Linux	Windows 10/11, Linux

I/O

Ethernet	1*Intel® 2.5Gbps PCIe Ethernet Controller, RJ45 1*Intel® 1Gbps PCIe Ethernet Controller, RJ45		
Serial	4*RS232, 2*RS232/RS485		
USB	6*USB 3.0, 8*USB 2.0	4*USB 3.0, 5*USB 2.0	4*USB 3.0, 5*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in		
PS/2	1*PS/2 Port (Keyboard & Mouse)		
GPIO	8*Programmable GPIO		

Display

Display Interface	1*DVI-D: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@30Hz 1*VGA: up to 1920*1200@60Hz 1*eDP: up to 4096*2304@60Hz	1*DVI-D: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@24Hz 1*VGA: up to 1920*1200@60Hz 1*eDP: up to 1920*1200@60Hz	1*DVI-D: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@30Hz 1*VGA: up to 1920*1200@60Hz 1*eDP: up to 1920x1200@60Hz
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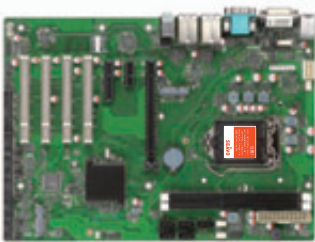
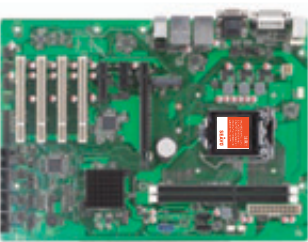
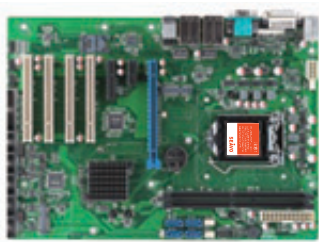
Mechanical & Environment

Dimension	305*220mm	305*217mm	305*244mm
Power Input	ATX PSU		
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃		
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing		

SV4-H1134-B (F8)

SV4-H8134-B (F8)

SV4-B7534-C



General

CPU	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	Intel® 4 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1150	Intel® 2 nd /3 rd Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1155
Chipset	Intel® H110, TDP 6W	Intel® H81, TDP 4.1W	Intel® B75, TDP 6.7W
Memory	DDR4-1866/2133, 2*U-DIMM, up to 32 GB	DDR3-1333/1600, 2*U-DIMM, up to 16 GB	DDR3-1333/1600, 2*U-DIMM, up to 16 GB
Storage	4*SATA 3.0, 1*mSATA	1*SATA 3.0, 2*SATA 2.0, 1*mSATA	5*SATA 2.0, 1*mSATA
Expansion Interface	1*PCIe x16, 1*PCIe x4, 1*PCIe x1,4*PCI, 2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G)	1*PCIe x16, 1*PCIe x4, 1*PCIe x1, 4*PCI, 1*Mini-PCIe (mSATA)	1*PCIe x16, 1*PCIe x4, 1*PCIe x1, 4*PCI, 1*Mini-PCIe(Wifi+3G/4G)
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 7/8.1/10, Linux	Windows 7/8.1/10, Linux	Windows XP/7/8.1/10, Linux

I/O

Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45		
Serial	4*RS232, 2*RS232/RS485	4*RS232, 2*RS232/RS485	4*RS232, 2*RS232/RS485
USB	4*USB 3.0, 5*USB 2.0	2*USB 3.0, 8*USB 2.0	4*USB 3.0, 7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in		
PS/2	PS/2 Port (Keyboard & Mouse)		
Parallel	1*LPT Header		
GPIO	8*Programmable GPIO		

Display

Display Interface	1*VGA: up to 1920*1200@60Hz 1*HDMI: up to 4096*2160@24Hz 1*DVI-D: up to 1920*1200@60Hz 1*eDP: up to 1920*1200@60Hz	1*VGA: up to 1920*1200@60Hz 1*DVI: up to 1920*1200@60Hz	1*VGA: up to 1920*1200@60Hz 1*HDMI: up to 1920*1200@60Hz 1*DVI-D: up to 1920*1200@60Hz 1*eDP/LVDS: up to 1920*1200@60Hz
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Mechanical & Environment

Dimension	305*217mm	305*220mm	305*220mm
Power Input	ATX PSU		
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃		
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing		

MEV SVX-Q6764

- 支持Intel 12/13代Core i3/i5/i7/i9处理器
- 采用Intel Q670芯片组
- 6*Intel千兆网口, 4个支持POE供电
- 4*USB 3.0, 4*USB 2.0, 2*COM, 2*HDMI
- 提供丰富扩展插槽, 支持多种PCIe和I/O扩展卡



General	
CPU	Intel® 12/13 th Generation Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1700
Chipset	Intel® Q670 Chipset, TDP 6W
Memory	DDR4-3200, 2*S0-DIMM, up to 64GB
Storage	4*SATA 3.0
Expansion Interface	1*Mini-PCIe (PCIe+USB 2.0, support Wifi+4G) 1*M.2 (Key-M, 2280/2242, PCIe x4 NVMe SSD) 1*M.2 (Key-M, 3052/2280, PCIex4/SATA/USB3.0/USB2.0) 1*Seavo IO Expand Slot (4*PCIe x1 + 4*USB 3.0 + 4*USB 2.0 + 1*I2C + 1*ESPI) 1*Seavo PCIe Expand Slot (1*PCIe x16 + 1*PCIe x4 + 2*PCI)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
TPM	TPM2.0 onboard

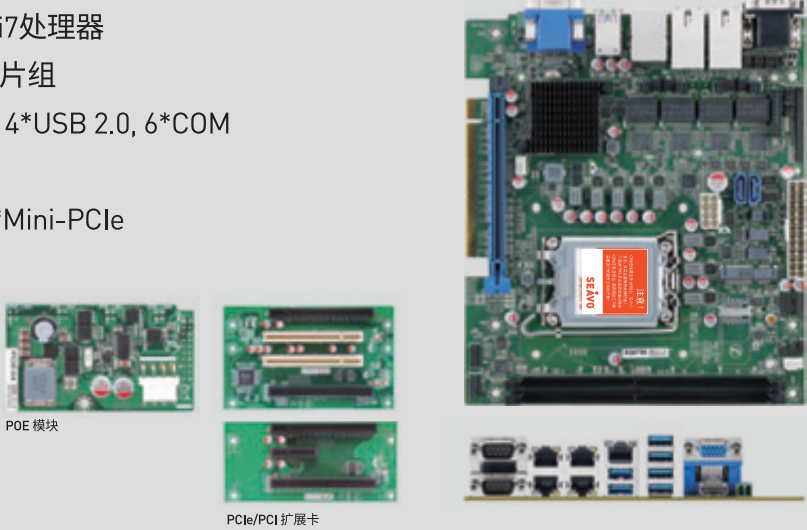
I/O	
Ethernet	6*Intel® 1Gbps Ethernet Controller, RJ45 4*LAN support POE
Serial	2*RS232/RS485/RS422
USB	4*USB 3.0, 5*USB 2.0
Audio	Realtek® Audio HDA Codec, with MIC/Line-out
GPIO	8*Programmable GPIO

Display	
Display Interface	2*HDMI: max resolution up to 3840*2160@60Hz 1*eDP: max resolution up to 4096*2304@60Hz

Mechanical & Environment	
Dimension	210*230mm
Power Input	DC 9~36V
Temperature	Operation: -10℃~60℃, Storage: -40℃~85℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SVX-H6156

- 支持Intel 12/13代Core i3/i5/i7处理器
- 采用Intel H610/Q670系列芯片组
- 5*Intel千兆网口, 6*USB 3.0, 4*USB 2.0, 6*COM
- 1*HDMI,1*VGA
- 1*PCIe x16 / PCIe x16 GF, 1*Mini-PCIe
- 支持TPM 2.0, WDT



General	
CPU	Intel® 12/13 th Generation Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1700
Chipset	Intel® H610/Q670 Series, TDP 35W 8+8; 65W 8+4 (i7-12700)
Memory	DDR4-3200, 2*U-DIMM, up to 64GB
Storage	2*SATA 3.0 1*M.2 (Key-M, 2280,SATA/NVMe x2)
Expansion Interface	1*PCIe x16 Slot / 1*PCIe x16 GF 1*Mini-PCIe (SATA 3.0/PCIe 3.0+USB 2.0, support Wifi/SATA/3G/4G)
BIOS	AMI EFI BIOS
System	Windows 10/11, Linux
TPM	TPM 2.0

I/O	
Ethernet	5*Intel® 1Gbps Ethernet Controller, RJ45 1*POE Power Connector (4*LAN support POE)
Serial	4*RS232
USB	6*USB 3.0, 4*USB 2.0
Audio	Realtek ALC897 HD Codec, with MIC/Line-out
GPIO	8*Programmable GPIO
Others	1*EXT-Card Header (1*eSPI, 2*USB2.0, 2*COM TTL, 1*SMbus)

Display	
Display Interface	1*HDMI: max resolution up to 1920*1080@60Hz 1*VGA: max resolution up to 1920*1080@60Hz

Mechanical & Environment	
Dimension	180*210mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



- 支持Intel 12代Core i3/i5/i7处理器 (Alder Lake -PS)
- 提供5*Intel千兆网口, PCIe x8插槽
- 4*USB 3.0, 5*USB 2.0, 6*COM
- Mini-ITX紧凑尺寸

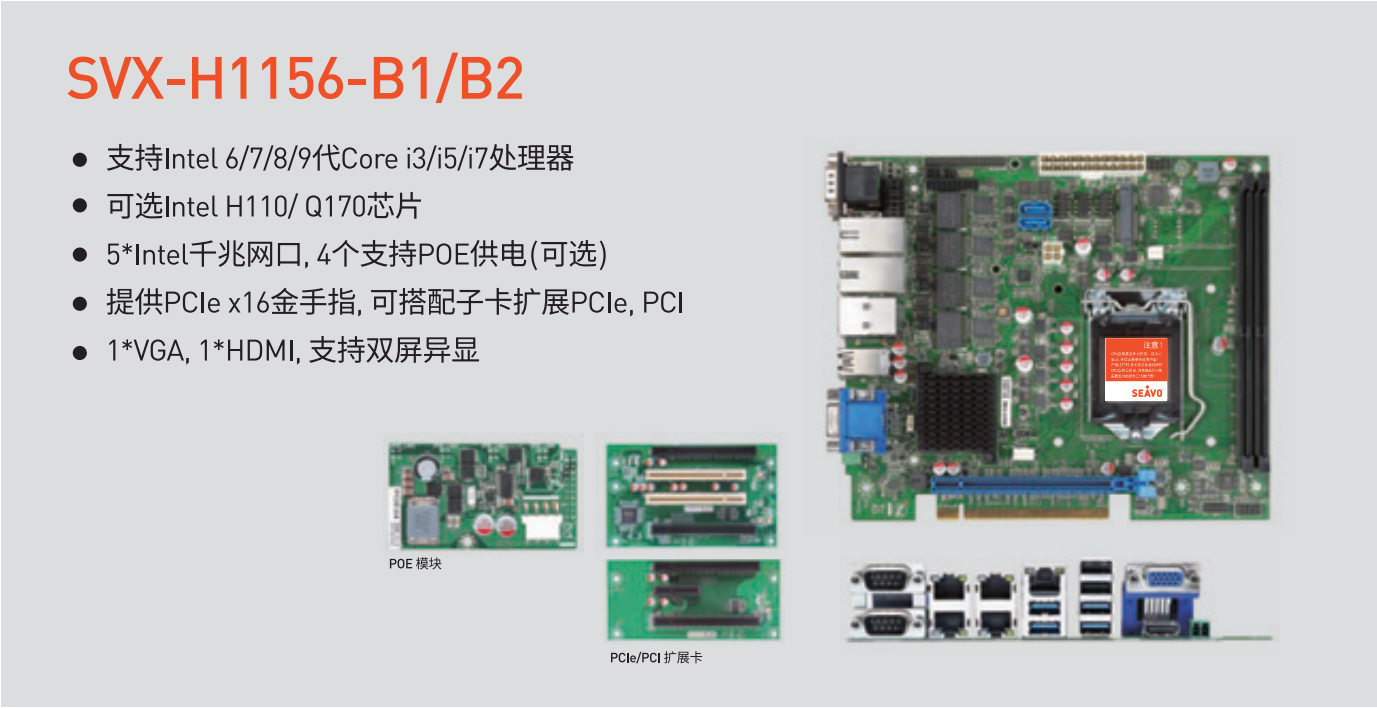


General	
CPU	Intel® 12 th Generation Core™ i3/i5/i7 CPU (Alder Lake -PS), LGA1700
Memory	DDR4-2666/2933/3200, 2*SO-DIMM, up to 64GB
Storage	1*SATA 3.0 1*M.2 (Key-M, 2280/2242, NVMe x4/ SATA)
Expansion Interface	1*M.2 (Key-E, 2230, PCIe+USB2.0) 1*PCIe x8 slot (PCIe 1x4, PCIe 1x1, PCIe CLK)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux

I/O	
Ethernet	5*Intel® 1Gbps Ethernet Controller, RJ45
Serial	2*RS232/RS485, 2*RS232, 2*TTL
USB	4*USB 3.0, 5*USB 2.0
Audio	Realtek® Audio HDA Codec, with MIC/Line-out
GPIO	8*Programmable GPIO

Display	
Display Interface	1*HDMI: max resolution up to 3840*2160@30Hz 1*DP++: max resolution up to 3840*2160@60Hz 1*eDP: max resolution up to 4096*2304@60Hz

Mechanical & Environment	
Dimension	170*170mm
Power Input	DC 12/24V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



- 支持Intel 6/7/8/9代Core i3/i5/i7处理器
- 可选Intel H110/ Q170芯片
- 5*Intel千兆网口, 4个支持POE供电(可选)
- 提供PCIe x16金手指, 可搭配子卡扩展PCIe, PCI
- 1*VGA, 1*HDMI, 支持双屏异显



POE 模块



PCIe/PCI 扩展卡



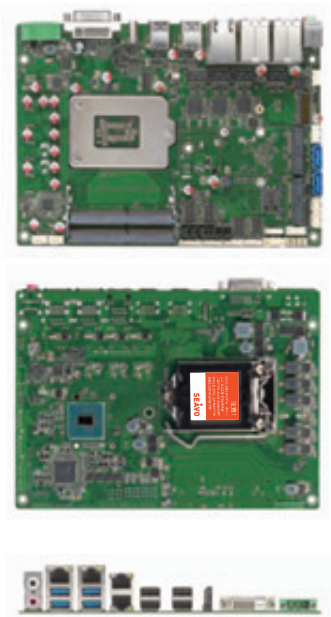
General	
CPU	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151
Chipset	Intel® H110/ Q170, TDP 6W
Memory	DDR4-2133/2400, 2*U-DIMM, up to 32 GB
Storage	2*SATA 3.0, Q170: Support RAID 0/1/5/10
Expansion Interface	1*PCIe x16 Slot (colay with PCIe x16 in Gold Finger) 1*PCIe x16 Gold Finger (only to be used with Seavo EXT module, 1*PCIe x16 + 2*PCIe x1 + 1*USB 2.0, when chipset is Q170, + 1*PCIe x4) 1*Mini-PCIe (1*mSATA+3G/4G, Wifi optional)
BIOS	AMI UEFI BIOS
System	Windows 7/8.1/10, Linux

I/O	
Ethernet	5*Intel® 1Gbps Ethernet Controller, RJ45 1*POE Power Connector (4*LAN support POE)
Serial	2*RS232, 2*TTL, 2*RS232/RS485/RS422
USB	H110: 4*USB 3.0, 4*USB 2.0 Q170: 6*USB 3.0, 2*USB 2.0
Audio	Realtek® Codec, with MIC + Line-out
GPIO	8*Programmable GPIO
Feature Interface	1*EXT-CARD Header (1*LPC, 1*SMbus, 2*USB 2.0, 2*COM TTL) 1*TPM 2.0 optional

Display	
Display Interface	1*VGA: max resolution up to 1920*1200@60Hz 1*HDMI 1.4b: max resolution up to 4096*2160@24Hz

Mechanical & Environment	
Dimension	208*180mm
Power Input	ATX PSU
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-H11VC



SV1-H8146-B1/B2



PCIe/PCI 扩展卡

General		
CPU	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	Intel® 4 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1150
Chipset	Inte® Q170/ H110, TDP 6W	Intel® H81, TDP 4.1W
Memory	DDR4-2133/2400, 2*SO-DIMM, up to 32 GB	DDR3-1333/1600, 2*U-DIMM, up to 16 GB
Storage	2*SATA 3.0, 1*mSATA	1*SATA 3.0, 1*SATA 2.0, 1*mSATA
Expansion Interface	1*Mini-PCIe (PCIe+USB 2.0) 1*M.2 (Key-E, 2230, PCIe+USB 2.0)	1*PCIe x16 Slot/ Gold Finger 1*Mini-PCIe (1*mSATA+3G/4G/Wifi)
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 7/8.1/10, Linux	Windows 7/8.1/10, Linux
I/O		
Ethernet	4*Intel® 1Gbps PCIe Ethernet Controller, RJ45	4*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	2*RS232, 2*RS232/RS485/RS422	2*RS232, 2*TTL, 2*RS232/RS485/RS422
USB	Q170: 8*USB 3.0, 2*USB 2.0 H110: 4*USB 3.0, 4*USB 2.0	2*USB 3.0, 8*USB 2.0
Audio	Realtek® HDA Codec, with MIC/Line-out	Realtek® HDA Codec, with MIC/Line-out
GPIO	8*Programmable GPIO	8*Programmable GPIO
Display		
Display Interface	1*HDMI: up to 4096*2160@30Hz 1*DVI-D: up to 1920*1080@60Hz	1*VGA: up to 1920*1200@60Hz 1*HDMI: up to 3840*2160@30Hz
Mechanical & Environment		
Dimension	203*146mm	170*180mm
Power Input	DC 12~24V	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

SVX-13554-E

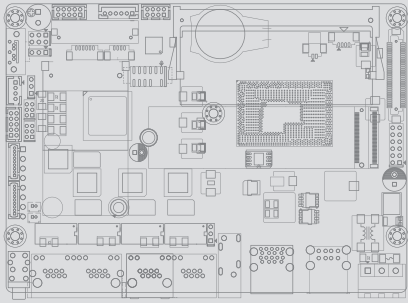
- 采用第11代Intel Core或Celeron处理器
- 5个Intel千兆网口, 4个支持POE供电(可选)
- 4*USB 3.0, 2*COM, 3*M.2
- 采用IEN模块化设计, 支持扩展I/O
- 1*HDMI, 1*LVDS/eDP



General	
CPU	Intel® Tiger Lake 11 th Gen Core™ i7-1165G7, i5-1135G7, i3-1115G4 28W default, 12W/15W BIOS optional, or Celeron® 6305E CPU
Memory	Support DDR4 3200 MHz, 2*SO-DIMM Slot, up to 64GB
Storage	1*M.2 (NGFF) Key-M Slot (PCIe x4 Gen4 NVMe SSD, 2242/2280) 1*SATA 3.0
Expansion Interface	1*M.2 (NGFF) Key-B Slot (PCIe + USB, Support 4G/5G, 3042/3052) 1*M.2 (NGFF) Key-E Slot (PCIe + USB, Support Wifi+BT, 2230) 1*EIO Connector, for I/O Expansion, e.g. 2*GbE LAN, 4*COM, 1*HDMI, 2*DP
BIOS	AMI UEFI BIOS
System	Windows 10, Linux
I/O	
Ethernet	5*Intel® 1Gbps PCIe Ethernet Controller, RJ45 4*LAN Support POE (optional)
Serial	2*RS232/485, 2*RS232
USB	4*USB3.0, 2*USB2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
Display	
Display Interface	1*HDMI: max resolution up to 4096*2160@24Hz 1*LVDS/eDP: LVDS max resolution up to 1920*1200@60Hz (default) eDP max resolution up to 4096*2304@60Hz
Mechanical & Environment	
Dimension	185*135mm
Power Input	DC 24V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV3b-12N46

- 支持 Alderlake-N处理器
- 4*Intel千兆网口, 2*USB 3.0, 6*USB 2.0, 2*COM
- 1HDMI, 1*eDP/LVDS
- 1*Mini-PCle, 1*M.2,1*B2B



General	
CPU	Intel® Alderlake-N, TDP up to 15W
Memory	DDR4-3200, 1*SODIMM, up to 16GB
Storage	1*SATA
Expansion Interface	1*Mini-PCle (PCIe+USB 2.0, support SIM) 1*M.2 (Key-M, 2280, SATA/NVMe x2) 1*B2B, support UPS, FPGA
BIOS	AMI EFI BIOS
System	Windows 10/11, Linux
I/O	
Ethernet	4*Intel® i210/211 GbE Ethernet Controller, RJ45
Serial	2*RS232/RS485, 4*TTL
USB	2*USB 3.0, 6*USB 2.0
Audio	Realtek ALC897 HD Codec, with MIC/Line-out
GPIO	8*Programmable GPIO
Display	
Display Interface	1*HDMI: max resolution up to 1920*1080@60Hz 1*eDP/LVDS:max resolution up to 4096*2304@60Hz/1920*1080@60Hz
Mechanical & Environment	
Dimension	146*105mm
Power Input	DC 12/24V
Temperature	Operation: -5℃~60℃, Storage: -20℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV8-12N26



SV8a-12N26



General	
CPU	Intel® 12 th GEN Alder Lake-N
Memory	DDR4-2666/2933/3200, 1*SO-DIMM, up to 32GB
Storage	1*SATA 3.0 1*M.2 (Key-M, 2280, SATA/PCIE NVMe SSD)
Expansion Interface	1*Mini-PCle(PCIe+USB2.0, Support WiFi+Bluetooth/4G) 1*M.2 (Key-E, 2230, PCIe+USB2.0, Support WiFi+BlueTooth) 1*M.2 (Key-B, 3042/3052, PCIe/USB3.0+USB2.0, Support 4G/5G)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux Kernal 5.4
I/O	
Ethernet	2*Realtek RTL8111HN GbE Ethernet Controller, RJ45
Serial	2*RS232/RS485, 4*RS232
USB	3*USB 3.0, 6*USB 2.0
Audio	Audio HDA Codec, with MIC/Line-out/Speaker Wafer
GPIO	8*Programmable GPIO
Display	
Display Interface	1*HDMI: max resolution up to 4096*2160@30Hz 1*VGA: max resolution up to 1920*1080@60Hz 1*eDP/LVDS:eDP max resolution up to 4096*2160@60Hz LVDS max resolution up to 1920*1080@60Hz
Mechanical & Environment	
Dimension	185mm*150mm
Power Input	DC 12V (DC24V Optional)
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃

SV8-19026P-B



SV8a-19026P-A1



General		
CPU	Intel® Bay Trail Celeron® J1900 CPU, Quad-core, up to 2.42GHz, TDP 10W	
Memory	DDR3L-1333, 1*SO-DIMM, up to 8GB	
Storage	1*SATA 2.0, 1*mSATA	
Expansion Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G supported)	
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	

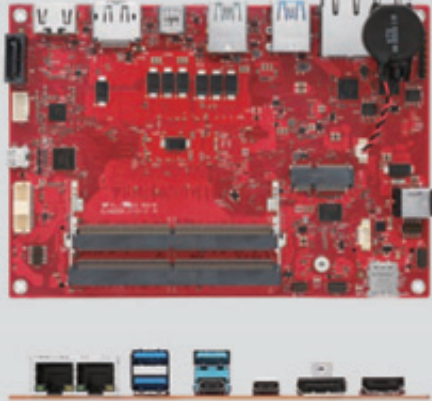
I/O		
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	
Serial	4*RS232, 2*RS232/RS485	
USB	1*USB 3.0, 8*USB 2.0	
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier	Realtek® 5.1 channel HDA Codec, with Amplifier
GPIO	8*Programmable GPIO	

Display		
Display Interface	1*VGA: up to 1920*1080@60Hz 1*HDMI: up to 1920*1080@60Hz	1*VGA: up to 1920*1080@60Hz 1*HDMI: up to 1920*1080@60Hz 1*LVDS/eDP: up to 1920*1080@60Hz

Mechanical & Environment	
Dimension	185*150mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV3b-RKI

- Intel 第13代Core移动平台参考设计
- 支持DDR5内存, 最大64GB
- 2*Intel千兆网口, 5*USB 3.2, 3*M.2
- 3*DP, 1*HDMI, 1*LVDS, 1*HDMI IN
- 3.5寸, 背置处理器, DC 12V供电

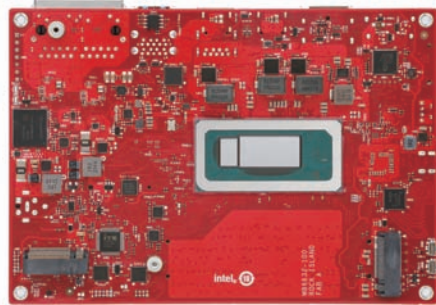


General	
CPU	Intel® 13 th Gen Core™ i3/i5/i7 or Celeron® CPU, TDP up to 28W
Memory	DDR5-4800, 2*SO-DIMM, up to 64 GB
Storage	1*SATA 3.0 1*M.2 (Key-M, 2280, PCIe x4 NVMe)
Expansion Interface	1*M.2 (Key-E, 2230, support Wifi+BT) 1*M.2 (Key-B, 2280, support 4G/5G)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux

I/O	
Ethernet	2*Intel® 1Gbps Ethernet Controller (up to 2.5 GbE), RJ45
Serial	1*RS232, 1*RS485
USB	3*Type-A (USB 3.2) 2*Type-C (USB 3.2 + DP 1.4a)
Others	1*eSPI, 1*SPI, TPM 2.0, WDT

Display	
Display Interface	1*DP 1.4a++, max resolution up to 7680*4320@30Hz 2*DP 1.4a, Type-C, max resolution up to 7680*4320@30Hz 1*HDMI 2.1, Type-A, max resolution up to 7680*4320@30Hz 1*LVDS, max resolution up to 1920*1200@60Hz 1*Micro HDMI IN, HDMI to MIPI CSI

Mechanical & Environment	
Dimension	146*102mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



SV3b-12P26

- 采用第12代Intel Core或Celeron处理器
- 2*Intel千兆网口, 6*USB 3.0, 6*COM
- 3*M.2, 支持NVMe SSD, WiFi+BT, 4G/5G等
- 1*HDMI, 1*DP, 1*LVDS/eDP, 支持三屏异显
- 3.5寸, 背置处理器, DC 12V 供电



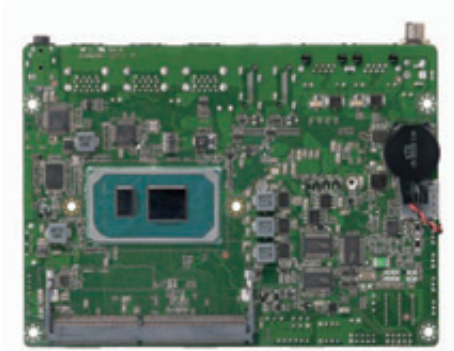
General	
CPU	Intel® 12 th Gen Core™ i3-1215U, i5-1240P, i7-1265UE, i7-1270Por Celeron® 7305E CPU
Memory	DDR4-3200, 1*S0-DIMM, up to 32 GB
Storage	1*SATA 3.0 1*M.2 (Key-M, 2280, PCIe x4 NVMe/ SATA, SSD)
Expansion Interface	1*M.2 (Key-E, 2230, PCIe+USB 2.0, Wifi+BT) 1*M.2 (Key-B, 2242/3052, PCIe+USB 3.0+USB2.0, PCIe x4 NVMe SSD + 4G/5G)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
I/O	
Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	2*RS232, 3*RS232/ TTL, 1*RS232/ RS485/ TTL
USB	6*USB 3.0, 4*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
GPIO	8*Programmable GPIO
Display	
Display Interface	1*HDMI: max resolution up to 2048*1080@60Hz 1*DP++: max resolution up to 4096*2304@60Hz 1*LVDS/eDP: LVDS, max resolution up to 1920*1200@60Hz eDP, max resolution up to 3840x2160@60Hz
Mechanical & Environment	
Dimension	146*106mm
Power Input	DC 12V (DC 24V Optional)
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV3b-13526

- 采用第11代Intel Core或Celeron处理器
- 2*Intel千兆网口, 6*USB 3.0, 6*COM, 2*HDMI
- 3*M.2, 支持SSD, WiFi+BT, 4G/5G等
- 2*HDMI, 1*LVDS/eDP, 支持三屏异显
- 3.5寸, 背置处理器, DC 12V供电



General	
CPU	Intel® 11 th Gen Core™ i7-1165G7, i5-1135G7, i3-1115G415W default, 12W/28W BIOS optional, or Celeron® 6305E CPU
Memory	DDR4-3200, 2*S0-DIMM, up to 64 GB
Storage	1*SATA 3.0 1*M.2 (Key-M, 2280, PCIe x4 NVMe/ SATA, default SATA, SSD)
Expansion Interface	1*M.2 (Key-E, 2230, PCIe+USB, Wifi+BT) 1*M.2 (Key-B, 3052, PCIe/ USB 3.0+USB2.0, 4G/5G)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
I/O	
Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	3*RS232, 2*RS232/ TTL, 1*RS232/ RS485/ TTL
USB	6*USB 3.0, 4*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
GPIO	8*Programmable GPIO
Display	
Display Interface	2*HDMI: max resolution up to 4096*2160@30Hz 1*LVDS/eDP: LVDS, Dual Channel 24 bit, max resolution up to 1920*1200@60Hz eDP, max resolution up to 3840x2160@60Hz
Mechanical & Environment	
Dimension	146*106mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



SV3b-85626-B

背置处理器



SV3-85626-C

背置处理器



SV3b-72026-BH

背置处理器



General		
CPU	Intel® 8 th Gen Core™ i7-8565U, i5-8265U, i3-8145U or Celeron® 4205U CPU	Intel® 6/7 th Gen Core™ i3/i5/i7 or Celeron® CPU
Memory	DDR4-2400, 1*SO-DIMM, up to 16 GB	
Storage	1*SATA 3.0 1*M.2 (Key-M, 2242/2280, PCIe x4/ SATA SSD)	1*SATA 3.0, 1*mSATA
Expansion	1*M.2 (Key-E, 2230, Wifi+BT)	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G)
Interface	1*M.2 (Key-B, 3042-4G, 3052-5G)	1*SVIO (provides LAN/COM/USB)
BIOS	AMI UEFI BIOS	
System	Windows 10/11, Linux	

I/O		
Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45	
Serial	4*RS232, 2*RS232/RS485	5*RS232, 1*RS232/RS485
USB	4*USB 3.0, 5/7*USB 2.0	2*USB 3.0, 6*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	
PS/2		1*PS/2 Header (Keyboard & Mouse)
GPIO	8*Programmable GPIO	

Display		
Display Interface	2*HDMI: up to 4096*2160@30Hz 1*LVDS/eDP: LVDS up to 1920*1200@60Hz, eDP up to 3840*2160@60Hz	1*VGA: up to 1920*1080@60Hz 1*HDMI: up to 4096*2160@30Hz 1*LVDS/eDP: LVDS up to 1920*1200@60Hz, eDP up to 2880*1800@60Hz

Mechanical & Environment		
Dimension	146*105mm	
Power Input	DC 12V	DC 9-28V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

SV3b-64126

背置处理器



SV3-64126

背置处理器



General		
CPU	Intel® Elkhart Lake Celeron® J6412 CPU, Quad-core, up to 2.6 GHz, TDP 10W CPU can be customized into Intel® Celeron® J6413, J6426	
Memory	DDR4-2666/2933/3200, 1*SO-DIMM, up to 32 GB	
Storage	1*SATA 3.0 1*mSATA	1*SATA 3.0 1*M.2 (Key-M, 2280, PCIe 2x/SATA, Support PCIe 2x NVMe SSD)
Expansion Interface	1*M.2 (Key-M, 2280, PCIe x2 NVMe SSD) 1*M.2 (Key-B, 3042/3052, PCIe/USB 3.0 +USB 2.0, 4G/5G)	1*M.2 (Key-E, 2230, PCIE+USB 2.0, Support WiFi+Bluetooth) 1*M.2 (Key-B,2242/3042/3052,PCIe/USB3.0 +PCIe/USB3.0/SATA+USB2.0, Default USB 3.0, Support 5G)
BIOS	AMI UEFI BIOS	
System	Windows 10/11, Linux	Windows 10/11, Linux

I/O		
Ethernet	2*Intel®2.5/1Gbps PCIe Ethernet Controller, RJ45	
Serial	3*RS232, 2*RS232/ TTL, 1*RS232/ RS485/ TTL	
USB	3*USB 3.0, 7*USB 2.0	3*USB 3.0, 6*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier	Realtek® HDA Codec, with MIC/Line-out and Amplifier
GPIO	8*Programmable GPIO	

Display		
Display Interface	2*HDMI 1.4: max resolution up to 4096*2160@30Hz 1*LVDS/eDP: LVDS, max resolution up to 1920*1200@60Hz/eDP, max resolution up to 4096*2304@60Hz	2*HDMI: max resolution up to 1920*1080@60Hz 1*LVDS/eDP: LVDS, max resolution up to 1920*1200@60Hz/eDP, max resolution up to 4096*2160@60Hz

Mechanical & Environment		
Dimension	146*105mm	
Power Input	DC 12V	
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

SV3b-34526-B(F8)

背置处理器



SV3-34526-C(F8)



General

CPU	Intel® Apollo Lake Celeron® J3455E CPU, Quad-core, up to 2.3 GHz, TDP 10W CPU can be customized into Intel® Celeron® J3355E, N3350, N3450
Memory	DDR3L-1866, 1*SO-DIMM, up to 8 GB
Storage	1*SATA 3.0 1*M.2 (Key-B, 2242/2280, SATA)
Expansion Interface	1*M.2 (Key-E, 2230, Wifi+BT) 1*M.2 (Key-B, 3042-4G, 3052-5G)
BIOS	AMI UEFI BIOS
System	Windows 10, Linux

I/O

Ethernet	2* Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485, 1*RS485
USB	4*USB 3.0, 5*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out
GPIO	8*Programmable GPIO

Display

Display Interface	2*HDMI: max resolution up to 3840*2160@30Hz 1*LVDS/eDP: LVDS, Dual Channel 24 bit, max resolution up to 1920*1200@60Hz eDP, max resolution up to 3840*2160@60Hz
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Mechanical & Environment

Dimension	146*105mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV3b-19026-EH (F8)

背置处理器



SV3-19026 (F8)



General

CPU	Intel® Bay Trail Celeron® J1900 CPU, Quad-core, up to 2.42 GHz, TDP 10W	
Memory	DDR3L-1333, 1*SO-DIMM, up to 8 GB	
Storage	1*SATA 2.0, 1*mSATA	
Expansion Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G supported)	
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	

I/O

Ethernet	2* Intel® 1Gbps PCIe Ethernet Controller, RJ45	2* Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/TTL, 1*RS232/RS485	5*RS232, 1*RS232/RS485
USB	1*USB 3.0, 6*USB 2.0	7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	
PS/2	1*PS/2 Header (Keyboard & Mouse)	
GPIO	8*Programmable GPIO	

Display

Display Interface	1*VGA: max resolution up to 1920*1080@60Hz 1*HDMI: max resolution up to 1920*1200@60Hz (optional) 1*LVDS/eDP: LVDS, Dual Channel 24 bit, max resolution up to 1920*1200@60Hz eDP, max resolution up to 2560*1600@60Hz
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Mechanical & Environment

Dimension	146*105mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SCM-DQ673A

SCM-DH113



General

CPU	Intel® 12/13 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1700 Max TDP 65W, 8+8 cores	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151 Max TDP 65W, Quad-core
Chipset	Intel® Q670/H610, TDP 6W	Intel® H110/ Q170/ C236, TDP 6W
Memory	DDR4-3200, 2*SO-DIMM, up to 64 GB	DDR4-1866/2133, 2*SO-DIMM, up to 32 GB
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux	Windows 7/8.1/10, Linux

I/O

Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller	
Audio	1*Realtek® 5.1 channel HAD Codec	
High Speed Signal	Q670: 4*USB3.0, 4*SATA 3.0, 1*PCIe x16, 1*PCIe x4, 4*PCIe x1 H610: 4*USB3.0, 4*SATA 3.0, 1*PCIe x16, 1*PCIe x2, 4*PCIe x1	H110: 4*USB3.0, 4*SATA 3.0, 1*PCIe x16, 3*PCIe Q170/ C232: 4*USB3.0, 4*SATA 3.0, 1*PCIe x16, 1*PCIe x4, 2*PCIe 2*HSIOA (USB 3.0/ PCIe), 2*HSIOB (SATA/ PCIe)
USB 2.0	8*USB 2.0	
Serial	6*TTL	
GPIO	4*programmable GPIO	
Others	1*LPC, 1*SM BUS, 1*I2C, 1*SPI, 2*USB OC, 1*FAN Control, 1*Power Control, Power OK	

Display

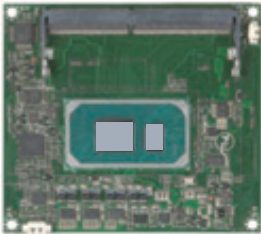
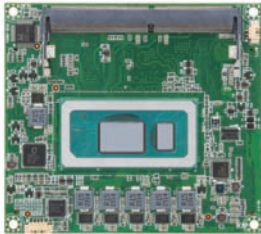
Display	1*eDP, 1*VGA, 2*DDI DDI can be set to DP/HDMI/DVI
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Mechanical & Environment

Dimension	146*105mm
Power Input	DC 12V, 5V
Temperature	Operation: 0 C ~60 C, Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SCM-C2152A

SCM-C1652



General

CPU	Intel® 12 th Gen Core™ i3/i5/i7, Celeron® CPU	Intel® 11 th Gen Core™ i3/i5/i7, Celeron® CPU
Memory	DDR4-3200, 1*SO-DIMM, up to 32 GB	DDR4-3200, 1*SO-DIMM, up to 32 GB
Storage	/	/
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux	Windows 10/11, Linux

I/O

Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller
Audio	1*Realtek® 5.1 channel HDA Codec
High Speed Signal	4*USB 3.0, 1*PCIe x4 (CPU) 4*PCIe x1, 2*SATA
USB 2.0	8*USB 2.0
Serial	6*TTL
GPIO	4*Programmable GPIO
Others	1*LPC, 1*SM BUS, 1*I2C, 2*USB OC, 1*FAN Control, 1*Power Control, Power OK

Display

Display Interface	1*eDP/LVDS, 1*VGA, 2*DDI DDI can be set to DP/HDMI/DVI
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Mechanical & Environment

Dimension	85*95mm
Power Input	5V
Temperature	Operation: 0 C ~60 C, Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SCM-C8262-A2



SCM-CA6201



General

CPU	Intel® 8 th Gen Core™ i3/i5/i7, Celeron® CPU	Intel® 6/7 th Gen Core™ i3/i5/i7, Celeron® CPU
Memory	DDR4-2400, 1*SO-DIMM, up to 16 GB	DDR4-2133, 1*SO-DIMM, up to 16 GB
Storage	1*eMMC 8/16/32/64G	1*eMMC 8/16/32G
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux	Windows 7/8.1/10, Linux

I/O

Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller
Audio	1*Realtek® 5.1 channel HDA Codec
High Speed Signal	4*USB 3.0, 5*PCIe, 1*SATA 3.0 2*HSIOA(USB 3.0/ PCIe) 2*HSIOB(SATA/ PCIe)
USB 2.0	8*USB 2.0
Serial	6*TTL
GPIO	4*Programmable GPIO
Others	1*LPC, 1*SMBUS, 1*I2C, 2*USB OC, 1*FAN Control, 1*Power Control, Power OK

Display

Display Interface	1*eDP/LVDS, 1*VGA, 2*DDI DDI can be set to DP/HDMI/DVI
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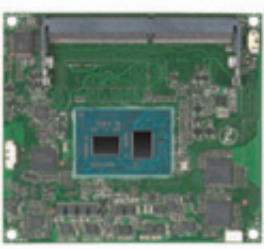
Mechanical & Environment

Dimension	85*95mm
Power Input	5V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SCM-CN952



SCM-C6412



SCM-CA1901-A1



General

CPU	Intel® Alder Lake-N N95,N97,N100, i3-N300 CPU	Intel® Celeron® J6412, J6413 CPU	Intel® Celeron® J1900 CPU
Memory	DDR4-3200, 1*SO-DIMM, up to 16 GB	DDR4-3200, 1*SO-DIMM, up to 32 GB	DDR3L-1333, 1*SO-DIMM, up to 8 GB
Storage	/	/	1*eMMC 8/16/32G
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux	Windows 10/11, Linux	Windows 7/8.1/10, Linux

I/O

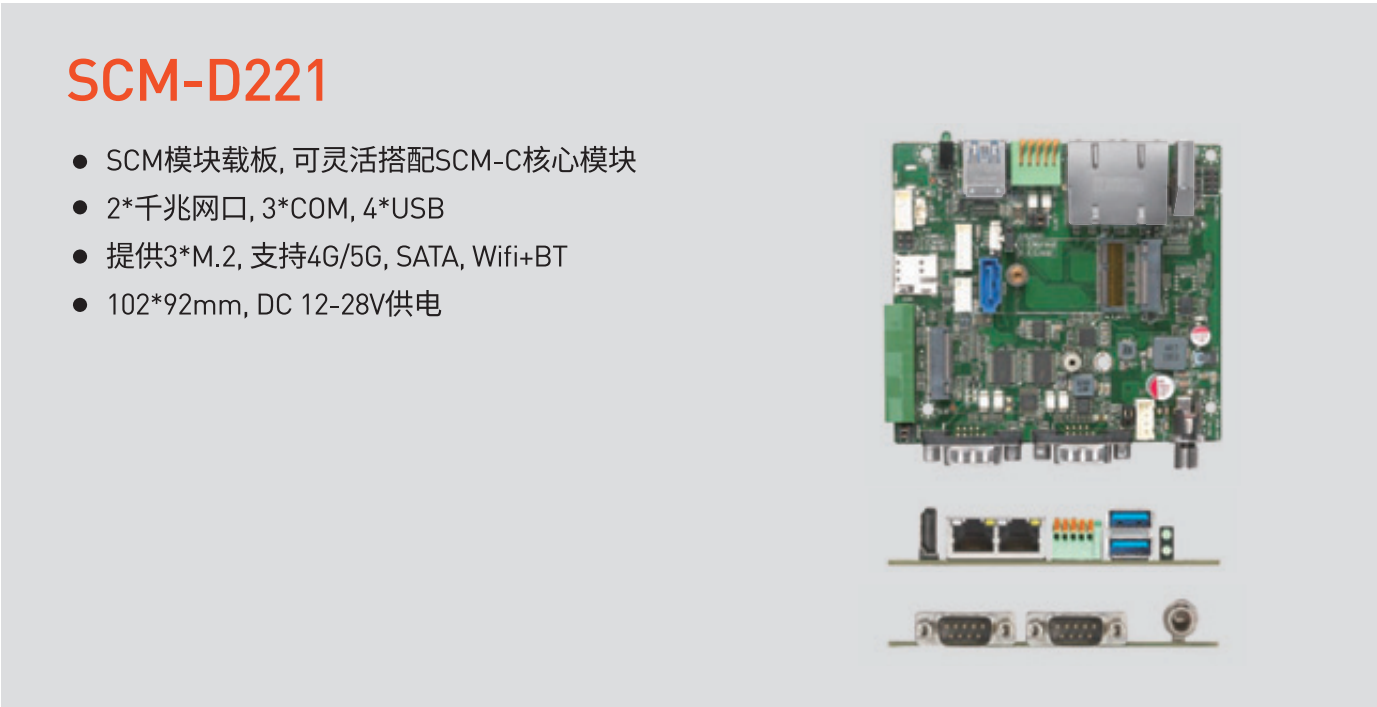
Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller		
Audio	1*Realtek® 5.1 channel HDA Codec		
High Speed Signal	3*USB 3.0 3*PCIe 2*SATA 3.0	2*USB 3.0 4*PCIe 2*SATA	1*USB 3.0 2*PCIe 2*SATA
USB 2.0	8*USB 2.0	8*USB 2.0	7*USB 2.0
Serial	6*TTL		
GPIO	8*Programmable GPIO		
Others	1*LPC, 1*I2C	1*LPC, 1*SM BUS, 1*I2C, 2*USB OC,1*FAN Control, 1*Power Control, Power OK	

Display

Display Interface	1*eDP/LVDS, 2*DDI DDI can be set to DP/HDMI/DVI	1*eDP/LVDS, 2*DDI DDI can be set to DP/HDMI/DVI	1*eDP/LVDS, 1*VGA, 1*DDI DDI can be set to DP/HDMI/DVI
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Mechanical & Environment

Dimension	85*95mm
Power Input	5V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



SCM-D221

- SCM模块载板, 可灵活搭配SCM-C核心模块
- 2*千兆网口, 3*COM, 4*USB
- 提供3*M.2, 支持4G/5G, SATA, Wifi+BT
- 102*92mm, DC 12-28V供电

General	
Compute Module	Support SCM-C series Compute Module
Storage	1*SATA
Expansion	1*M.2 (Key-B, 3042-4G, 3052-5G)
Interface	1*M.2 (Key-B, 2242, SATA) 1*M.2 (Key-E, 2230, Wifi+BT)
I/O	
Ethernet	2*RJ45 supported by Ethernet Controllers on SCM module
Serial	2*COM port or header, RS232/485 1*COM in terminal block, RS232/485
USB	2*USB3.0 (Rear I/O) 2*USB2.0 (Header)
Audio	Audio with MIC and Line-out
GPIO	8*Programmable GPIO
Others	1*SIM Pin Header
Display	
Display Interface	1*HDMI
Mechanical & Environment	
Dimension	102*92mm
Power Input	DC 12-28V
Temperature	Operation: 0 C ~60 C , Storage: -20 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



SCM-B2651

- SCM模块载板, 可灵活搭配SCM-C/D核心模块
- 2*千兆网口, 6*COM, 10*USB
- 1*VGA, 1*HDMI, 1*LVDS/eDP
- 提供M.2, Mini-PCIe, PCIe x16丰富扩展
- 185*150mm, DC 12V供电

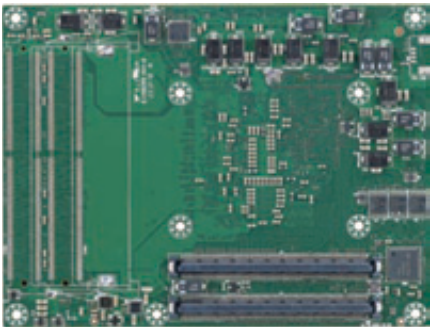
General	
Compute Module	Support SCM-C/D series Compute Module
Storage	1*mSATA/ M.2 (Key-M, 2242/2280, PCIe x4 NVMe/ SATA SSD) 1*SATA 3.0/2.0
Expansion	1*M.2 (Key-E, 2230/2242/2280, Wifi+BT)
Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G) 1*PCIe x16 Golden Finger SCM-D: 2*PCIe x1 + 1*PCIe x4 + 1*PCIe x16 + 1*USB SCM-C: 2*PCIe x1 + 1*PCIe x4 + 1*USB
BIOS	AMI UEFI BIOS
I/O	
Ethernet	2*RJ45, supported by Ethernet Controllers on SCM module
Serial	4*RS232, 2*RS232/RS485
USB	Up to 4*USB 3.0, 6*USB 2.0
Audio	Audio with MIC/Line-out and Amplifier
GPIO	8 programmable GPIO
Display	
Display Interface	1*VGA, 1*HDMI, 1*LVDS/eDP
Mechanical & Environment	
Dimension	185*150mm
Power Input	DC12V
Temperature	Operation: 0 C ~60 C , Storage: -20 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SEM-B1707

- COM Express Type 7 Basic 标准核心模块
- 采用Intel Xeon D-1700 系列处理器 (Ice Lake)
- 4*10G Base-KR接口, 1*Intel 千兆网卡
- 4*USB 3.0, 2*SATA 3.0, PCIe等丰富高速IO资源
- 125*95mm



General	
CPU	Intel® Xeon® D Processor (Ice Lake) , TDP up to 67W Intel® Xeon® D-1713NTE, up to 3.3 GHz Intel® Xeon® D-1714, up to 3.4 GHz
Memory	DDR4-2933, 4*SO-DIMM. up to 256 GB, ECC optional
BIOS	AMI UEFI BIOS , Dual BIOS
System	Windows 10/11, Linux
I/O	
Ethernet	4*10G Base-KR (Integrated SOC) 1*Intel® 1Gbps PCIe Ethernet Controller
High Speed Signal	4*USB 3.2 Gen1, 2*SATA 3.0 1*PCIe x16 Gen4, 1*PCIe x8 Gne3, 1*PCIe x4 Gen3
USB 2.0	4*USB 2.0
Serial	2*Uart
GPIO	8*programmable GPIO
Others	1*LPC, 1*SM BUS, 1*I2C, 2*USB OC, 1*FAN Control, 1*Power Control, Power OK
Mechanical & Environment	
Dimension	125*95mm
Power Input	DC12V
Temperature	Operation: 0 C ~60 C , Storage: -20 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



SEM-C2706

SEM-C1356

SEM-C6106

 	 	 
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General					
CPU	Intel® Core™ Alder Lake-P/U/H Processor	Intel® 11 th Gen Core™ i3/i5/i7, Celeron® CPU	Intel® 6 th Gen Core™ i3/i5/i7, Celeron® CPU		
Memory	DDR5-4800, 2*SO-DIMM, up to 64 GB	DDR4-3200, 2*SO-DIMM, up to 64 GB	DDR4-2400, 2*SO-DIMM, up to 32 GB		
BIOS	AMI EFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS		
System	Windows 10/11, Linux	Windows 10/11, Linux	Windows 7/8.1/10, Linux		
I/O					
Ethernet	1*Intel® 1Gbps PCIe Ethernet Controller				
Audio	HDA Singal				
High Speed Signal	4*USB 3.0, 1*SATA 3.0 1*PCIe x4 Gen3 (4x1/2x2/1x4 by BIOS) 2*PCIe x1 Gen3 1*PCIe x1 Gen3/SATA 3.0 1*PCIe x8+2*PCIe x4 PEG	4*USB 3.0, 2*SATA 3.0 1*PCIe x4 Gen3 (4x1/2x1+1x2/2x2/1x4 by BIOS) 1*PCIe x2 Gen3 (2x1/1x2 by BIOS) 1*PCIe x1 Gen3 1*PCIe x4, PEG	4*USB 3.0, 2*SATA 3.0 PEG 16X: PCH PCIe x1 (optional), 5*PCIe x1 or 4*PCIe x1 + 1*PCIe x4		
USB 2.0	8*USB 2.0				
Serial	2*TTL				
GPIO	8*Programmable GPIO				
Others	1*LPC, 1*SM BUS, 1*I2C 1*FAN Control, 1*Power Control, Power OK				
Display					
Display Interface	1*eDP/LVDS, 1*VGA, 3*DDI2 DDI can be set to DP/HDMI/DVI	1*eDP/LVDS, 1*VGA/DDI1, 2*DDI2 DDI can be set to DP/HDMI/DVI			
Mechanical & Environment					
Dimension	95*95mm				
Power Input	12V				
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C				
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing				

SEM-C6426



SEM-C1906



General		
CPU	Intel® Celeron® J6412 CPU DDR4-2666/2933/3200, 2*SO-DIMM,	Intel® Celeron® J1900 CPU DDR3L-1333, 1*SO-DIMM,
Memory	up to 2*32GB	up to 8 GB
Storage	1*eMMC 32G	1*eMMC 8/16/32/64G
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux	Windows 7/8.1/10, Linux
I/O		
Ethernet	1*Marvell 1Gbps PCIe Ethernet (PHY)	1*Intel® 1Gbps Ethernet Controller, RJ45
Audio	1*Realtek® 5.1 channel HDA Codec	
High Speed Signal	4*USB 3.2 Gen1, 2*SATA 3.0 2*PCIe x2 Gen3, 1*PCIe x4 Gen3, 1*PCIe x2 PEG	1*USB 3.0, 2*SATA 3.0 4*PCIe x1 2.0
USB 2.0	8*USB 2.0	7*USB 2.0
Serial	2*TTL	
GPIO	8*Programmable GPIO	
Others	1*LPC, 1*SM BUS, 1*I2C, 1*SPI, 2*CAN 1*FAN Control, 1*Power Control, Power OK	1*LPC, 1*SM BUS, 1*I2C, 2*USB OC, 1*FAN Control, 1*Power Control, Power OK
Display		
Display Interface	1*eDP/LVDS, 2*DDI DDI can be set to HDMI/ DP++	1*eDP/LVDS, 1*VGA, 1*DDI1 DDI can be set to DP/HDMI/DVI
Mechanical & Environment		
Dimension	95*95mm	
Power Input	12 V	
Temperature	Operation: 0 C ~60 ℃, Storage: -25 C ~75 ℃	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

SV1-H3C26C

- 支持Intel 6/7/8/9代Core i3/i5/i7处理器
- 采用Intel H310C芯片组
- 10*USB, 6*COM, 2*千兆网口
- 采用SVIO双层设计, 可最多支持18*COM, 18*USB
- 1*PCIe x16, 2*Mini-PCIe支持mSATA和Wifi/3G/4G
- 1*HDMI, 1*VGA, 支持双屏异显



搭配SV-M5扩展卡

General	
CPU	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151
Chipset	Intel® H310C, TDP 6W
Memory	DDR4-1866/2133, 2*U-DIMM, up to 32 GB
Storage	2*SATA 3.0, 1*mSATA
Expansion Interface	1*PCIe x16 2*Mini-PCIe (1*mSATA,1*Wifi/3G/4G supported)
BIOS	AMI UEFI BIOS
System	Windows 7/8.1/10, Linux
I/O	
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	6*RS232 (up to 18*RS232 with SV-M5 Module)
USB	2*USB 3.0, 8*USB 2.0 (up to 18*USB with SV-M5 Module)
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*Programmable GPIO
Display	
Display Interface	1*HDMI: max resolution up to 4096*2160@24Hz 1*VGA: max resolution up to 1920*1200@60Hz
Mechanical & Environment	
Dimension	170*170mm
Power Input	ATX PSU
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1-H3126C



SV1-H1126C (F8)



SV1-H8126C-C (F8)



General

CPU	Intel® 8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	Intel® 6/7/8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	Intel® 4 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1150
Chipset	Intel® H310, TDP 6W	Intel® H110, TDP 6W	Intel® H81, TDP 4.1W
Memory	DDR4-2666, 2*U-DIMM, up to 32 GB	DDR4-2133, 2*U-DIMM, up to 32 GB	DDR3-1600, 2*U-DIMM, up to 16 GB
Storage	2*SATA 3.0, 1*mSATA	2*SATA 3.0, 1*mSATA	1*SATA 3.0, 1*SATA 2.0, 1*mSATA
Expansion Interface	1*PCIe x16, 2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G)		
BIOS	AMI UEFI BIOS		
System	Windows 7/8.1/10, Linux		

I/O

Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45		
Serial	6*RS232 (up to 18*RS232 with SV-M5 Module)		
USB	4*USB 3.0, 6*USB 2.0 (up to 18*USB with SV-M5 Module)	2*USB 3.0, 8*USB 2.0 (up to 18*USB with SV-M5 Module)	
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out		
PS/2	/	1*LPT Header	
GPIO	8*Programmable GPIO		

Display

Display	1*HDMI: up to 4096*2160@30Hz	1*HDMI: up to 4096*2160@24Hz	1*HDMI: up to 1920*1200@60Hz
Interface	1*VGA: up to 1920*1080@60Hz	1*VGA: up to 1920*1200@60Hz	1*VGA: up to 1920*1200@60Hz

Mechanical & Environment

Dimension	170*170mm		
Power Input	ATX PSU		
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃		
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing		

SV1-12S2A-H610

- 支持Intel 12代Core i3/i5/i7/i9处理器
- 采用Intel H610芯片组
- 4*USB 3.0, 8*USB 2.0, 10*COM, 2*千兆网口
- 1*PCIe x16, 2*M.2支持Wifi+BT
- 1*VGA, 1*HDMI, 支持双屏异显
- Mini-ITX紧凑尺寸



General

CPU	Intel® 12 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1700
Chipset	Intel® H610, TDP 6W
Memory	DDR4-3200, 2*U-DIMM, up to 64 GB
Storage	1*SATA 3.0 1*M.2 (Key-M, 2280, PCIe4 or SATA)
Expansion Interface	1*PCIe x16 1*M.2 (Key-E, 2230, PCIe+USB 2.0, Wifi+BT)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux

I/O

Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	10*RS232
USB	4*USB 3.2 5Gbps, 8*USB 2.0
Audio	Realtek® HDA Codec, with MIC/Line-out
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*Programmable GPIO
Others	TPM 2.0, WDT

Display

Display Interface	1*HDMI: max resolution up to 4096*2160@30Hz 1*VGA: max resolution up to 1920*1200@60Hz
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Mechanical & Environment

Dimension	170*170mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

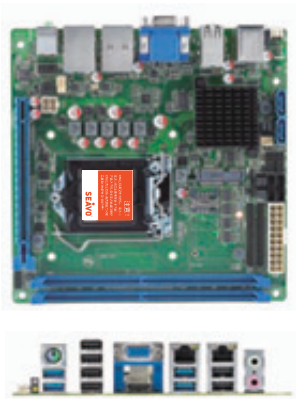
SV1-H472A

- 支持Intel 10代Core i3/i5/i7/i9处理器
- 采用Intel H420E/H470芯片组
- 6*USB 3.0, 6*USB 2.0, 10*COM, 2*千兆网口
- 1*PCIe x16, 2*M.2支持Wifi/BT/SSD/4G/5G
- 1*VGA, 1*HDMI, 支持双屏异显



General	
CPU	Intel® 10 th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® CPU, LGA1200
Chipset	Intel® H420E/H470, TDP 6W
Memory	DDR4-2133/2400/2666/2933, 2*U-DIMM, up to 32 GB
Storage	1*SATA 3.0
Expansion	1*PCIe x16
Interface	1*M.2 (key-E, 2230, PCIe+USB 2.0, Wifi+BT) 1*M.2 (key-M, 2242/3052, PCIe x2+SATA+USB 2.0)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
Technology	TPM 2.0, KPMU 2.0
I/O	
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	10*RS232
USB	6*USB 3.0, 6*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*Programmable GPIO
Display	
Display Interface	1*HDMI: max resolution up to 4096*2160@30Hz 1*VGA: max resolution up to 1920*1080@60Hz
Mechanical & Environment	
Dimension	170*170mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1-H312A



SV1-H112A



SV1-H1116



General			
CPU	Intel® 8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	Intel® 6/7 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	
Chipset	Intel® H310, TDP 6W	Intel® H110, TDP 6W	
Memory	DDR4-2400, 2*U-DIMM, up to 32 GB	DDR4-2133, 1*U-DIMM, up to 32 GB	
Storage	2*SATA 3.0, 1*mSATA	2*SATA 3.0, 1*mSATA	
Expansion	1*PCIe x16	1*PCIe x16	1*Mini-PCIe
Interface	2*Mini-PCIe (1*mSATA,1*Wifi/3G/4G)	2*Mini-PCIe (1*mSATA,1*Wifi/3G/4G)	(mSATA/Wifi/3G/4G)
BIOS	AMI UEFI BIOS		
System	Windows 7/8.1/10, Linux		
I/O			
Ethernet	2*Realtek® 1Gbps PCIe	2*Realtek® 1Gbps PCIe	1*Realtek® 1Gbps PCIe
Serial	Ethernet Controller, RJ45	Ethernet Controller, RJ45	Ethernet Controller, RJ45
USB	10*RS232	10*RS232	6*RS232
Audio	4*USB 3.0, 8*USB 2.0 Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in	4*USB 3.0, 6*USB 2.0 Realtek® 5.1 channel HDA Codec, with MIC/Line-out	2*USB 3.0, 10*USB 2.0 Realtek® 5.1 channel HDA Codec, with MIC/Line-out
PS/2	1*PS/2 Port (Keyboard & Mouse)	1*PS/2 Port (Keyboard & Mouse)	2*PS/2 Port (Keyboard & Mouse)
Parallel	/	/	1*LPT Port
GPIO	8*Programmable GPIO	8*Programmable GPIO	8*Programmable GPIO
Display			
Display Interface	1*HDMI: max resolution up to 3840*2160@24Hz 1*VGA: max resolution up to 1920*1200@60Hz		
Mechanical & Environment			
Dimension	170*170mm		
Power Input	ATX PSU		
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C		
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing		

SV1-H812C (F8)



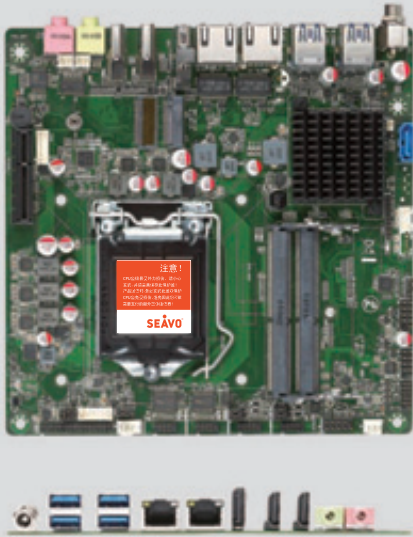
SV1-H8116



General		
CPU	Intel® 4 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1150	
Chipset	Intel® H81, TDP 4.1W	
Memory	DDR3-1600, 1*U-DIMM, up to 16 GB	
Storage	2*SATA 3.0, 1*SATA 2.0	2*SATA 3.0, 2*SATA 2.0
Expansion	1*PCIe x16	1*PCIe x16
Interface	1*Mini-PCIe (Wifi/mSATA/3G/4G)	1*Mini-PCIe (Wifi/mSATA)
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	
I/O		
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	1*Realtek® 100Mbps PCIe Ethernet Controller, RJ45
Serial	11*RS232, 1*RS232/RS485	5*RS232, 1*RS232/RS485
USB	2*USB 3.0, 8*USB 2.0	
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	
PS/2	PS/2 Port (Keyboard & Mouse)	
Parallel	1*LPT Port	
GPIO	8*Programmable GPIO	
Display		
Display Interface	2*VGA: up to 1920*1200@60Hz	1*HDMI: up to 1920*1200@60Hz 1*VGA: up to 1920*1200@60Hz
Mechanical & Environment		
Dimension	170*170mm	
Power Input	ATX PSU	
Temperature	Operation: 0 C~60 C, Storage: -25 C~75 C	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

SV1a-H3124P

- 支持Intel 8/9代Core i3/i5/i7处理器
- 采用Intel H310芯片组
- 4*USB 3.0, 4*USB 2.0, 4*COM, 2*千兆网口
- 1*PCIe x4, 3*M.2支持SSD, Wifi+BT, 4G
- 2*HDMI, 1*DP, 1*LVDS/eDP, 支持双屏显
- 薄型Mini-ITX, DC 12V供电



General	
CPU	Intel® 8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151
Chipset	Intel® H310, TDP 6W
Memory	DDR4-2400/2666, 2*SO-DIMM, up to 32 GB
Storage	2*SATA 3.0 1*M.2 (Key-B, 2242/2280,SATA SSD)
Expansion	1*PCIe x4
Interface	1*M.2 (Key-B, 3042, 4G) 1*M.2 (Key-E, 2230, Wifi+BT)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux
I/O	
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	2*RS232, 2*RS232/485
USB	4*USB 3.0, 4*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
GPIO	8*Programmable GPIO

Display	
Display Interface	2*HDMI: max resolution up to 4096*2160@24Hz 1*DP++: max resolution up to 4096*2304@60Hz 1*LVDS/eDP: LVDS, Dual Channel 24 bit, max resolution up to 1920*1200@60Hz eDP, max resolution up to 4096*2160@60Hz

Mechanical & Environment	
Dimension	170*170mm
Power Input	DC 12V/24V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-H1116P



SV1a-H8112P-B



General		
CPU	Intel® 6/7 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	Intel® 4 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1150
Chipset	Intel® H110, TDP 6W	Intel® H81, TDP 4.1W
Memory	DDR4-2133, 1*SO-DIMM, up to 16 GB	DDR3-1600, 2*SO-DIMM, up to 16 GB
Storage	2*SATA 3.0, 1*mSATA	1*SATA 3.0, 1*SATA 2.0, 1*mSATA
Expansion Interface	2*Mini-PCIe (1*mSATA,1*Wifi/3G/4G)	
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	

I/O		
Ethernet	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	
Serial	6*RS232	2*RS232
USB	4*USB 3.0, 6*USB 2.0	2*USB 3.0, 6*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier	
PS/2	1*PS/2 Header (Keyboard & Mouse)	
GPIO	8*Programmable GPIO	

Display		
Display Interface	1*HDMI: max resolution up to 4096*2160@24Hz 1*VGA: max resolution up to 1920*1200@60Hz 1*LVDS/eDP: max resolution up to 1920*1200@60Hz	

Mechanical & Environment		
Dimension	170*170mm	
Power Input	DC 12V	DC 19V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

SV1a-4xxx

- Intel 第14代Core移动平台参考设计
- 支持DDR5内存,最大64GB
- 2*千兆网口, 6*USB 3.0, 1*USB 2.0, 4*COM
- 1*PCIe x8, 3*M.2, 支持WIFI, BT, PCIe x4 NVMe等
- 3*DP, 1*HDMI, 1*LVDS, 1*HDMI IN
- DC 12V供电



General	
CPU	Intel® 14 th Gen Core™ i3/i5/i7 or Celeron® CPU, TDP up to 45W
Memory	DDR5, 2*SO-DIMM, up to 64 GB
Storage	2*SATA 3.0
Expansion Interface	1*PCIe x8, Gen 5 1*M.2 (Key-E, 2230, support Wifi / BT, CNVi) 1*M.2 (Key-B, 2242/3052, support PCIE / USB3.0, 5G) 1*M.2 (Key-M, 2280, PCIe x4 NVMe)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux

I/O	
Ethernet	2*Intel® 2.5Gbps Ethernet Controller, RJ45
Serial	2*RS232, 2*RS485
USB	4*Type-A, USB 3.2 2*Type-C, USB 3.2 1*USB 2.0 1*Micro USB
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out
Others	1*Micro USB, 1*SPI, TPM2.0, 1*MIPI-CSI, I2C, GSPI

Display	
Display Interface	2*HDMI: max resolution up to 4096*2160@24Hz 1*DP++: max resolution up to 4096*2304@60Hz 1*LVDS/eDP: LVDS, Dual Channel 24 bit, max resolution up to 1920*1200@60Hz eDP, max resolution up to 4096*2160@60Hz

Mechanical & Environment	
Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-12P26-1370P

- 采用第12/13代Intel Core或Celeron处理器
- 2*千兆网口, 6*USB 3.0, 4*USB 2.0, 6*COM
- 提供1*PCIe x4, 3*M.2, 支持Wifi+BT, 5G, SATA等
- 2*HDMI, 1*DP, 1*LVDS/eDP
- 薄型Mini-ITX, DC 12V供电



General	
CPU	Intel® 12/13 th Core™ i3/i5/i7 or Celeron® CPU, TDP up to 28W
Memory	DDR4-3200, 2*SO-DIMM, up to 64 GB
Storage	1*SATA 3.0
Expansion Interface	1*PCIe x4, Gen 4 1*M.2 (Key-E, 2230, support Wifi+BT) 1*M.2 (Key-B, 2242/3052, support 5G/SATA) 1*M.2 (Key-M, 2280, PCIe x4 Gen 4)
BIOS	AMI UEFI BIOS
System	Windows 10, Linux

I/O	
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	5*RS232, 1*RS232/RS485
USB	6*USB 3.0, 4*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
GPIO	8*Programmable GPIO

Display	
Display Interface	1*HDMI: max resolution up to 4096*2160@30Hz 1*HDMI Header: max resolution up to 4096*2160@30Hz 1*DP: max resolution up to 3840*2160@60Hz 1*eDP/LVDS: eDP, max resolution up to 3840*2160@60Hz LVDS, max resolution up to 1920*1200@60Hz

Mechanical & Environment	
Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-13514



SV1a-81414P



General		
CPU	Intel® 11 th Gen Core™ i3/i5/i7 or Celeron® CPU	Intel® 8 th Gen Core™ i3/i5/i7 or Celeron® CPU
Memory	DDR4-3200, 1*SO-DIMM, up to 32 GB	DDR4-2400, 1*SO-DIMM, up to 16 GB
Storage	1*SATA 3.0, 1*mSATA	1*SATA 3.0, 1*mSATA
Expansion Interface	1*M.2 (Key-E, 2230, Wifi+BT) 1*M.2 (Key-M, 2242/2280, PCIe x4/ SATA SSD)	1*M.2 (Key-E, 2230, Wifi+BT)
BIOS	AMI UEFI BIOS	
System	Windows 10/11, Linux	

I/O		
Ethernet	1/2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	
Serial	3*RS232, 1*RS232/RS485	
USB	4*USB 3.0, 8*USB 2.0	4/6*USB 3.0, 6*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier	
GPIO	8*Programmable GPIO	
Others	1*Cash Drawer Control header	

Display		
Display Interface	1*HDMI: up to 4096x2160@24Hz 1*eDP: up to 4096x2160@60Hz 1*DP++: up to 4096x2160@60Hz 1*LVDS/eDP: LVDS, up to 1920x1200@60Hz eDP, up to 4096x2160@60Hz	1*HDMI: up to4096x2160@24Hz 1*VGA/eDP: VGA, up to1920x1200@60Hz eDP, up to 2048x1280@60Hz 1*LVDS/eDP: LVDS, up to 1920x1200@60Hz eDP, up to 2048x1280@60Hz

Mechanical & Environment	
Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-POS422-B

- 采用Intel Celeron 4205U或第8代Core (Whiskey Lake)
- 4*USB 3.0, 8*USB 2.0, 2*COM, 1*千兆网口
- 1*钱箱接口RJ11, 1*mSATA, 1*M.2 (Wifi+BT)
- 2*eDP, 1*DP可选, 支持双eDP屏显示
- 170*120mm, DC 12V供电



General	
CPU	Intel® Celeron® 4205U CPU, Dual-core, 1.8 GHz, TDP 15W CPU can be customized into Intel® Whiskey Lake 8 th Core™ i3/i5/i7
Memory	DDR4-2133/2400, 1*SO-DIMM, up to 16 GB
Storage	1*SATA 3.0, 1*mSATA
Expansion Interface	1*M.2 (Key-E, 2230, Wifi+BT)
BIOS	AMI UEFI BIOS
System	Windows 10, Linux

I/O	
Ethernet	1*Realtek® 1Gbps Ethernet Controller, RJ45
Serial	2*RS232
USB	2*USB 3.0 (TYPE-A), 4/6*USB 2.0 (Header) 2*USB 3.0 (TYPE-A)/ 1*USB 3.0+DP (TYPE-C) 2*USB 2.0 (TYPE-A)/ 1*USB 3.0 (TYPE-C, 12V Power out)
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
Parallel	1*LPT Header
GPIO	8*Programmable GPIO
Feature Interface	1*Cash Drawer Control Port (RJ11)

Display	
Display Interface	2*eDP: max resolution up to 2048*1280@60Hz 1*DP (TYPE-C): max resolution up to 2048*1280@60Hz

Mechanical & Environment	
Dimension	170*120mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-70216EP



SV1a-61014P



General		
CPU	Intel® Core™ i3-7020U, Dual-core, up to 2.30 GHz, TDP 15W or Intel® 6/7 th Core™/ Celeron® CPU	Intel® Core™ i3-6100U, Dual-core, 2.30 GHz, TDP 15W or Intel® 6/7 th Core™/ Celeron® CPU
Memory	DDR3L-1600, 1*SO-DIMM, up to 8 GB	
Storage	1*SATA 3.0, 1*mSATA	1*SATA 2.0, 1*mSATA
Expansion Interface	2*Mini-PCle (1*mSATA, 1*Wifi/3G/4G)	
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	

I/O		
Ethernet	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	
Serial	6*RS232	4*RS232
USB	2*USB 3.0, 8*USB 2.0	2*USB 3.0, 7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier	
PS/2	1*PS/2 Header (Keyboard & Mouse)	
Parallel	1*LPT Header	
GPIO	8*Programmable GPIO	
Others	1*Cash Drawer Control Port (RJ11)	1*Cash Drawer Control Header

Display		
Display Interface	1*VGA: up to 1920*1200@60Hz 1*LVDS/eDP: up to 1920*1200@60Hz 1*HDMI/eDP: HDMI, up to 4096*2160@24Hz eDP, up to 1920*1200@60Hz	1*VGA: up to 1920*1200@60Hz 1*HDMI: up to 1920*1200@60Hz 1*LVDS/eDP: up to 1920*1200@60Hz

Mechanical & Environment	
Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-10016

- 采用Intel Alder Lake-N处理器
- 4*USB 3.0, 7*USB 2.0, 6*COM, 1*千兆网口
- 1*HDMI/VGA, 1*eDP/LVDS, 1*eDP, 支持三屏异显
- 提供2*M.2, 支持Wifi+BT, SATA SSD
- 薄型Mini-ITX, DC 12V供电



General	
CPU	Intel® Alder Lake-N N50, N97, N100, Atom® x7425E, Core i3-N300 CPU
Memory	DDR4-3200, 1*SO-DIMM, up to 16GB
Storage	1*SATA 3.0 1*M.2 (Key-B, 2242/2280, NVMe PCIe x1/ SATA SSD)
Expansion Interface	1*M.2 (Key-M, 2230, PCIe+USB 2.0, Wifi+BT)
BIOS	AMI UEFI BIOS
System	Windows 10/11, Linux

I/O

Ethernet	1*Realtek® 1Gbps PCIe Ethernet Controller; RJ45
Serial	6*RS232
USB	4*USB 3.0, 7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
Parallel	1*LPT Header
GPIO	8*Programmable GPIO
Others	1*Cash Drawer Control Wafer, 1*I2C Touch Wafer, 1*Case Open Header

Display

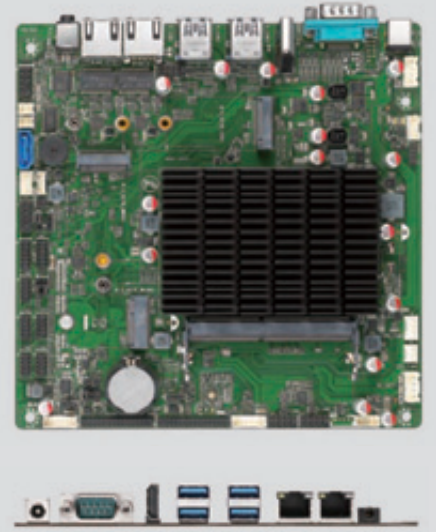
Display Interface	1*HDMI: max resolution up to 4096*2160@60Hz 1*optional VGA share the same place with HDMI and USB on I/O 1*eDP/LVDS: LVDS, max resolution up to 1920*1200@60Hz eDP, max resolution up to 4096*2160@60Hz 1*eDP: max resolution up to 4096*2160@60Hz
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Mechanical & Environment

Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-64126

- 采用Intel Elkhart Lake Celeron处理器
- 4*USB 3.0, 7*USB 2.0, 6*COM, 2*千兆网口
- 1*HDMI, 1*eDP/LVDS, 1*eDP, 支持三屏异显
- 提供3*M.2, 支持4G/5G, Wifi+BT, SATA SSD
- 薄型Mini-ITX, DC 12V供电



General	
CPU	Intel® Elkhart Lake J6412 CPU, Quad-core, up to 2.6 GHz, TDP 10W
Memory	DDR4-2666/2933/3200, 1*SO-DIMM, up to 32GB
Storage	1*SATA 3.0
	1*M.2 [Key-M, 2242/2260/2280, SATA SSD/x2 NVMe]
Expansion	1*M.2 [Key-E, 2230, Wifi+BT]
Interface	1*M.2 [Key-B, 3042-4G, 3052-5G]
BIOS	AMI UEFI BIOS
System	Windows 10, Linux

I/O

Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485, 1*RS232/TTL
USB	4*USB 3.0, 7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
GPIO	8*Programmable GPIO
Others	1*Cash Drawer Control Header

Display

Display Interface	1*HDMI: max resolution up to 4096*2160@30Hz
	1*eDP/LVDS: LVDS, max resolution up to 1920*1200@60Hz
	eDP, max resolution up to 4096*2160@60Hz
	1*eDP: max resolution up to 4096*2160@60Hz

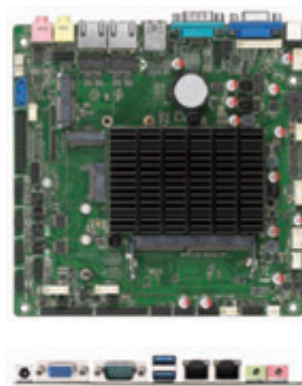
Mechanical & Environment

Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-51526



SV1a-41216 (F8)



General

CPU	Intel® Jasper Lake N5105 CPU, Quad-core, up to 2.9 GHz, TDP 10W CPU can be customized into Intel® N5100/ N6000/ N6005	Intel® Gemini Lake J4125 CPU, Quad-core, up to 2.7 GHz, TDP 10W CPU can be customized into Intel® J4005, J4105, N4100, N4000
Memory	DDR4-2933, 1*SO-DIMM, up to 32GB	DDR4-2400, 1*SO-DIMM, up to 32GB
Storage	1*SATA 3.0	1*SATA 3.0
Expansion Interface	1*PCIe x4 Slot (PCIe x1) 1*M.2 (Key-E, 2230, Wifi+BT) 1*M.2 (Key-B, 2242/3052/2280, 5G/SSD/NVMe)	1*Mini-PCIe (Wifi+3G/4G) 1*M.2 (Key-E, 2230, Wifi+BT) 1*M.2 (Key-B, 2242/2260/2280, SATA SSD)
BIOS	AMI UEFI BIOS	
System	Windows 10, Linux	

I/O

Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	
Serial	5*RS232, 1*RS232/RS485	
USB	4*USB 3.0, 7*USB 2.0	2*USB 3.0, 7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	I2S Audio Codec, with MIC/Line-out and Amplifier
GPIO	8*Programmable GPIO	8*Programmable GPIO
Others	1*Cash Drawer Control Header	1*PS/2 Header, 1*LPT Header

Display

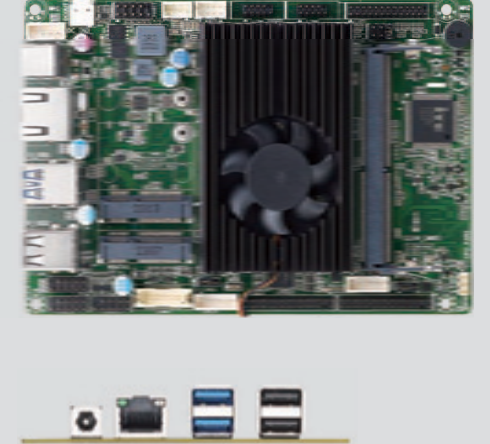
Display Interface	2*HDMI 1.4b: up to 4096*2160@30Hz 1*eDP/LVDS: eDP, up to 4096*2160@30Hz LVDS, up to 1920*1200@60Hz 1*eDP: up to 4096*2160@30Hz	1*VGA: up to 1920*1200@60Hz 1*HDMI/eDP: up to 4096*2160@60Hz 1*LVDS/eDP: LVDS, up to 1920*1200@60Hz eDP, up to 4096*2160@60Hz
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Mechanical & Environment

Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-MPOS412-B

- 采用Intel Celeron J4125四核处理器
- 2*USB 3.0, 8*USB 2.0, 2*COM, 1*千兆网口
- 1*HDMI, 1*eDP, 1*LVDS/eDP
- 支持WDT



General

CPU	Intel® Celeron® J4125, Quad-core, clock speed 2.00 GHz, up to 2.70GHz, TDP 10W
Memory	DDR4-2400, 1*SO-DIMM, up to 8GB
Storage	1*Mini-SATA
Expansion Interface	1*Mini-PCIe (PCIe+USB2.0, Support WiFi +BT)
BIOS	AMI UEFI BIOS
System	Windows 10 64-bit, Linux

I/O

Ethernet	1*Realtek® 1Gbps Ethernet Controller, RJ45
Serial	2*RS232
USB	2*USB 3.0, 8*USB 2.0
Audio	Realtek® HAD Codec, with MIC/Line-out and Amplifier

Display

Display Interface	1*HDMI: max resolution up to 4096*2160@30Hz 1*eDP: max resolution up to 1920*1080@60Hz 1*LVDS/eDP: LVDS, max resolution up to 1920*1200@60Hz eDP, max resolution up to 1920*1080@60Hz
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Mechanical & Environment

Dimension	146*102mm
Power Input	DC 12V
Temperature	Operation: 0 C~60 C, Storage: -20 C~75 C

SV1a-34526 (F8)



SV1a-34516P



SV1-34526 (F8)



General

CPU	Intel® Apollo Lake J3455 CPU, Quad-core, up to 2.3 GHz, TDP 10W CPU can be customized into Intel® Atom® x7-E3950		
Memory	DDR3L-1866, 1*SO-DIMM, up to 8GB		
Storage	1*SATA 3.0 1*M.2 (Key-B, 2242/2280, SATA SSD)	1*SATA 3.0 1*mSATA	1*SATA 3.0 1*M.2 (Key-B, 2242, SATA SSD)
Expansion Interface	1*Mini-PCle (Wifi+3G/4G) 1*M.2 (Key-E, 2230, Wifi+BT)	1*Mini-PCle (Wifi+3G/4G)	1*Mini-PCle (mSATA+4G) 1*M.2 (Key-E, 2230, Wifi+BT)
BIOS	AMI UEFI BIOS		
System	Windows 10, Linux		

I/O			
Ethernet	1/2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	5*RS232, 1*RS232/TTL	6*RS232	4*RS232, 2*RS232/TTL
USB	2*USB 3.0, 6*USB 2.0	2*USB 3.0, 8*USB 2.0	4*USB 3.0, 7*USB 2.0
Audio	Audio Codec, with MIC/Line-out and Amplifier		Audio Codec, with MIC/Line-ou
PS/2	1*PS/2 Header (Keyboard & Mouse)		
Parallel	1*LPT Header		
GPIO	8*Programmable GPIO		
Others	/	1*Cash Drawer Port (RJ11)	/

Display		
Display Interface	1*VGA: up to 1920*1200@60Hz 1*HDMI/eDP: HDMI, up to 4096*2160@30Hz eDP, up to 1920*1080@60Hz 1*LVDS/eDP: LVDS, up to 1920*1200@60Hz eDP, up to 3840*2160@60Hz	1*VGA: up to 1920*1200@60Hz 1*HDMI: up to 1920*1200@60Hz 1*LVDS/eDP: up to 1920*1200@60Hz

Mechanical & Environment

Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-POS192

- 采用Intel Bay Trail Celeron J1900处理器
- 9*USB, 2*COM, 1*千兆网口
- 1*钱箱接口RJ11, 1*mSATA, 1*M.2 (Wifi+BT)
- 2*eDP, 支持双屏异显
- 170*120mm, DC 12V供电



General

CPU	Intel® Celeron® J1900 CPU, Quad-core, up to 2.42 GHz, TDP 10W
Memory	DDR3L-1333/1600, 1*SO-DIMM, up to 8 GB
Storage	1*SATA, 1*mSATA
Expansion Interface	1*M.2 (Key-E, 2230, Wifi+BT)
BIOS	AMI UEFI BIOS
System	Windows 7/8.1/10, Linux

I/O	
Ethernet	1*Realtek® 1Gbps Ethernet Controller, RJ45
Serial	2*RS232
USB	1*USB 3.0, 8*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifier
Parallel	1*LPT Header
GPIO	8*Programmable GPIO
Feature Interface	1*Cash Drawer Control Port (RJ11)

Display	
Display Interface	2*eDP: max resolution up to 1920*1200@60Hz

Mechanical & Environment	
Dimension	170*120mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1a-19016EP



SV1a-19016LP-B1



SV1a-19014P-C (F8)



General

CPU	Intel® Celeron® J1900 CPU, Quad-core, up to 2.42 GHz, TDP 10W		
Memory	DDR3L-1333, 1*SO-DIMM, up to 8 GB		
Storage	1*SATA 2.0, 1*mSATA		
Expansion Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G supported)		
BIOS	AMI UEFI BIOS		
System	Windows 7/8.1/10, Linux		

I/O

Ethernet	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45		
Serial	5*RS232, 1*RS232/TTL	6*RS232	3*RS232, 1*RS232/TTL
USB	1*USB 3.0, 8*USB 2.0		
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out and Amplifer		
PS/2	1*PS/2 Header (Keyboard & Mouse)		
Parallel	1*LPT Header		
GPIO	8*Programmable GPIO		
Others	/	1*Cash Drawer Control Port, RJ11	/

Display

Display Interface	1*VGA: up to 2560*1600@60Hz 1*eDP: up to 1920*1200@60Hz 1*LVDS/eDP: up to 1920*1200@60Hz	1*VGA: up to 2560*1600@60Hz 1*LVDS: up to 1920*1200@60Hz
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Mechanical & Environment

Dimension	170*170mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1-19026P (F8)



SV-1900D (F8)



General

CPU	Intel® Celeron® J1900 CPU, Quad-core, up to 2.42 GHz, TDP 10W	
Memory	DDR3L-1333, 1*SO-DIMM, up to 8 GB	
Storage	1*SATA 2.0, 1*mSATA	
Expansion Interface	1*Mini-PCIe (mSATA/Wifi/4G supported)	1*Mini-PCIe (mSATA supported)
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	

I/O

Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	4*RS232, 1*RS232/RS485, 1*RS232/TTL	2*RS232
USB	9*USB 2.0	10*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	
PS/2	PS/2 Port (Keyboard & Mouse)	
Parallel	1*LPT Port	
GPIO	8*Programmable GPIO	
Others	/	1*Cash Drawer Control Port, RJ11

Display

Display Interface	1*VGA: up to 2560*1600@60Hz 1*HDMI: up to 1920*1200@60Hz 1*LVDS: up to 1920*1200@60Hz	1*VGA: up to 2560*1600@60Hz 1*LVDS: up to 1920*1200@60Hz
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Mechanical & Environment

Dimension	170*170mm
Power Input	ATX PSU or DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV3-19026 (F8)
SV3-19026-B (F8)



SV3b-19016E



General

CPU	Intel® Celeron® J1900 CPU, Quad-core, up to 2.42 GHz, TDP 10W	
Memory	DDR3L-1333, 1*SO-DIMM, up to 8 GB	
Storage	1*SATA 2.0, 1*mSATA	
Expansion Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G)	
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	

I/O		
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45
Serial	6*RS232	4*RS232, 1*TTL, 1*RS232/ RS485
USB	11*USB 2.0	9*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	
GPIO	8*Programmable GPIO	

Display

Display Interface	1*VGA: up to 2560*1600@60Hz 1*eDP: up to 1920*1200@60Hz	1*VGA: up to 2560*1600@60Hz 1*eDP: up to 1920*1200@60Hz 1*LVDS/eDP: up to 1920*1200@60Hz
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Mechanical & Environment

Dimension	146*105mm	146*105mm
Power Input	DC 12V	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

NVR SV4-B15B4



NVR SV4-H11A6



General

CPU	Intel® 6/7 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151	
Chipset	Intel® B150 Chipset, TDP 6W	Intel® H110 Chipset, TDP 6W
Memory	DDR4-1866/2133, 4*U-DIMM, up to 64 GB	DDR4-1866/2133, 2*U-DIMM, up to 32 GB
Storage	6*Mini-SAS (24*SATA), 1*SATA 3.0, 1*mSATA	4*Mini-SAS (16*SATA), 1*SATA 3.0, 1*mSATA/M.2
Expansion Interface	1*PCIe x16, 1*PCIe x4, 1*Mini-PCIe (mSATA/3G/4G)	1*PCIe x16 1*Mini-PCIe (mSATA/3G/4G)
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Server 2008/2012, Linux	

I/O		
Ethernet	3*Intel® 1Gbps PCIe Ethernet Controller, RJ45	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	1*RS232, 1*RS232/RS485	
USB	4*USB 3.0, 8*USB 2.0	4*USB 3.0, 5*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	
PS/2	1*PS/2 Header (Keyboard & Mouse)	
GPIO	8*Programmable GPIO	8*Programmable GPIO, 4*in/2*out Opto-Isolated GPIO

Display

Display Interface	1*VGA: up to 1920*1200@60Hz 3*HDMI: up to 4096*2160@24Hz	1*VGA: up to 1920*1200@60Hz 2*HDMI: up to 4096*2160@24Hz
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Mechanical & Environment

Dimension	305*244mm	275*210mm
Power Input	ATX PSU	
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

NVR SV4-B85B4



NVR SV6-B75A6



General		
CPU	Intel® Xeon®, 4 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1150	Intel® Xeon®, 2 nd /3 rd Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1155
Chipset	Intel® B85 Chipset, TDP 4.1W	Intel® B75 Chipset, TDP 6.7W
Memory	DDR3-1333/1600, 4*U-DIMM, up to 32 GB	DDR3-1333/1600, 2*U-DIMM, up to 16 GB
Storage	6*Mini-SAS (24*SATA) 2*SATA 3.0, 1*mSATA	4*Mini-SAS (16*SATA), 1*SATA, 1*mSATA
Expansion Interface	1*PCIe x16, 1*PCIe x1, 1*Mini-PCIe (mSATA)	1*PCIe x16 2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G)
BIOS	AMI UEFI BIOS	
System	Windows 7/8.1/10, Linux	
I/O		
Ethernet	3*Intel® 1Gbps PCIe Ethernet Controller, RJ45	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	1*RS232, 1*RS232/RS485	
USB	4*USB 3.0, 4*USB 2.0	
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out	
PS/2	1*PS/2 Header (Keyboard & Mouse)	
GPIO	8*Programmable GPIO, 4*in/2*out Opto-Isolated GPIO	
Display		
Display Interface	1*VGA: up to 1920*1200@60Hz 2*HDMI: up to 4096*2160@24Hz	1*VGA: up to 1920*1200@60Hz 2*HDMI: up to 1920*1200@60Hz
Mechanical & Environment		
Dimension	305*244mm	254*210mm
Power Input	ATX PSU	
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

NVR SV1-190A6

- 采用Intel Bay Trail Celeron J1900处理器
- 17*SATA, 1*mSATA, 2*Intel千兆网口
- 1*VGA, 2*HDMI, 支持双屏异显
- 提供NVR专用报警端子(RS485, GPIO)
- DC 12V供电



General	
CPU	Intel® Celeron® J1900 CPU, Quad-core, up to 2.42 GHz, TDP 10W
Memory	DDR3L-1333, 1*SO-DIMM, up to 8 GB
Storage	2*Mini-SAS (8*SATA), 9*SATA 2.0, 1*mSATA
BIOS	AMI UEFI BIOS
System	Windows 7/8.1/10, Server 2008/2012, Linux
I/O	
Ethernet	2*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	1*RS232, 1*RS232/RS485
USB	7*USB 2.0
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out
GPIO	8*Programmable GPIO, 4 in/2 out Opto-Isolated GPIO
Display	
Display Interface	1*VGA: max resolution up to 2560*1600@60Hz 2*HDMI: max resolution up to 1920*1200@60Hz
Mechanical & Environment	
Dimension	170*170mm
Power Input	ATX PSU
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



- 支持Intel 8/9代Core i3/i5/i7处理器
- 采用Intel C246/H310芯片组
- 6*千兆电口, 2*千兆光口, 2组三代Bypass
- 提供可选的PCIe x8和PCIe x16插槽
- 3*M.2支持SATA, Wifi, 4G/5G

General	
CPU	Intel® 8/9 th Gen Core™ i3/i5/i7, Pentium®, Celeron® CPU, LGA1151
Chipset	Intel® C246/H310, TDP 6W
Memory	DDR4-2666, 4*U-DIMM, up to 64 GB , Support ECC with C246 chipset
TPM	TPM 2.0 onboard (optional)
Storage	1*M.2 (Key-M, 2242/2280, SATA SSD), 2*SATA 3.0, 1*CF Card
Expansion Interface	1*M.2 (Key-E, 2230, Wifi, only for C246), 1*M.2 (Key-B, 3042-4G, 3052-5G) 1*PCIe x8 Slot (PCH PCIe x4, only for C246) Support one of the following 2 PCIe Side Plug Slot 1*PCIe x16 Side Plug Slot (CPU PCIe x8, PCH PCIe x4, 15*GPIO) 1*PCIe x8 Side Plug Slot (CPU PCIe x4)
BIOS	AMI UEFI BIOS
System	Windows 10, Linux

I/O	
Ethernet	6*Intel® 1Gbps Ethernet Controller, RJ45 (Support 2*Gen3 Lan Bypass) 2*Intel® 1Gbps Ethernet Controller, SFP
Serial	2*RS232
USB	2*USB 3.0, 2*USB 2.0
PS/2	1*PS/2 Header (Keyboard & Mouse)
GPIO	8*programmable GPIO

Display	
Display Interface	1*HDMI: max resolution up to 4096*2160@24Hz 1*VGA: max resolution up to 1920*1200@60Hz

Mechanical & Environment	
Dimension	288*207mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



- 采用Intel Elkhart Lake系列处理器
- 支持DDR4内存, 最大32GB, 支持TPM 2.0
- 6*千兆电口, 2*千兆光口, 2组三代Bypass
- 3 M.2支持SATA, Wifi/BT, 4G/5G
- 1*HDMI, 1*VGA, 支持双屏异显

General	
CPU	Intel® Pentium® J6426/ N6415, 4 cores, up to 3.0 GHz, TDP 10W/6.5W Intel® Celeron® J6413/ N6211, 4/2 cores, up to 3.0 GHz, TDP 10W/6.5W Intel® Atom® x6425E, 4 cores, up to 3.0 GHz, TDP 9W
Memory	DDR4-3200, 2*SO-DIMM, up to 32 GB
TPM	TPM2.0 onboard
Storage	1*mSATA/ M.2 (Key-M, 2242/2280, SATA SSD) 1*SATA 3.0, 1*eMMC 8/16 GB
Expansion Interface	1*PCIe x8/ M.2 (Key-E, 2230, WIFI+BT), 1*M.2 (Key-B, 3042-4G, 3052-5G) 1*EXT-CARD Header (COM5-6TTL + I2C + eSPI + 2*USB 2.0)
BIOS	AMI UEFI BIOS
System	Windows 10, Linux

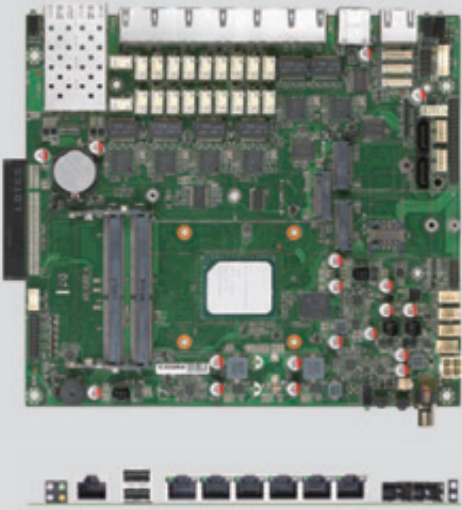
I/O	
Ethernet	5*Intel® 1Gbps Ethernet Controller, RJ45 1*Marvell® 1Gbps Ethernet Controller, RJ45 Support 2*Gen3 Lan Programable Bypass 2*Marvell® 1Gbps Ethernet Controller, SPF+
Serial	4*RS232, 2*TTL (in EXT-CARD Header)
USB	1*USB 3.0, 7*USB 2.0
PS/2	1*PS/2 Header (Keyboard & Mouse)
GPIO	8*Programmable GPIO

Display	
Display Interface	1*VGA: max resolution up to 1920*1080@60Hz 1*HDMI: max resolution up to 1920*1080@60Hz

Mechanical & Environment	
Dimension	203*182mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

NSE SVX-C35262

- 采用Intel Denverton Atom C3000系列CPU
- 支持DDR4内存, 最大32GB, 支持TPM 2.0
- 6*千兆电口, 2*万兆光口, 2组三代Bypass
- 1*PCIe x4, 3*M.2支持SATA, Wifi/BT, 4G/5G
- 支持Intel QuickAssist, AES-NI, VT-d, VT-x技术
- 203*182mm, DC 12V供电



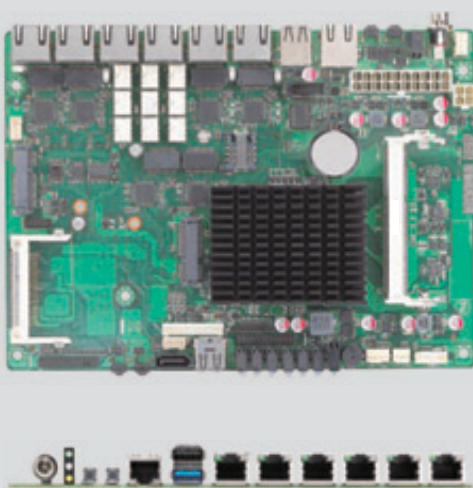
General	
CPU	Intel® Atom™ C3758, 8 cores, 2.20 GHz, 25W Intel® Atom™ C3558, 4 cores, 2.20 GHz, 16W Intel® Atom™ C3336, 2 cores, 1.50 GHz, 11W
Memory	DDR4-3200, 2*SO-DIMM, up to 32 GB
TPM	TPM2.0 On board
Storage	1*M.2 (Key-B, 2242/2280, SATA SSD), 2*SATA 3.0 (C3336 only supports one of the three SATA) 1*EMMC 16/32/64 GB
Expansion Interface	1*M.2 (Key-E, 2230, Wifi+BT), 1*M.2 (Key-B, 3042-4G, 3052-5G) 1*EXT-CARD Header (COM5-6 TTL+I2C+LPC+2*USB2.0) 1*PCIe x8 Slot (x1/x2/x4+Lan1 SGMII, C3336 only supports x1)
BIOS	AMI UEFI BIOS
System	Windows 10, Linux
Advanced Technology	Security acceleration: Intel® QuickAssist Technology, Intel® AES-NI Virtualization: Intel® VT-d, Intel® VT-x, Intel® VT-xwith EPT

I/O	
Ethernet	6*Intel® 1Gbps Ethernet Controller,RJ45 Support 2*Gen3 Lan Programable Bypass 1*Denverton integrated X553 LAN Controller, 2*SFP+
Serial	4*RS232 (COM1 in RJ45, COM2/3/4 in Header) 2*TTL (COM5/6 in EXT-CARDHeader)
USB	6*USB 2.0
PS/2	1*PS/2 Header (Keyboard & Mouse)
GPIO	8*Programmable GPIO

Mechanical & Environment	
Dimension	203*182mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

NSE SV5-19016P-B

- 采用Intel Bay Trail Celeron J1900处理器
- 6*Intel千兆网口, 一组智能Bypass
- 1*SATA, 1*CF, 4*USB, 2*COM
- 2*Mini-PCIe支持mSATA和Wifi/3G/4G
- 5.25", 可选DC 12V或ATX供电

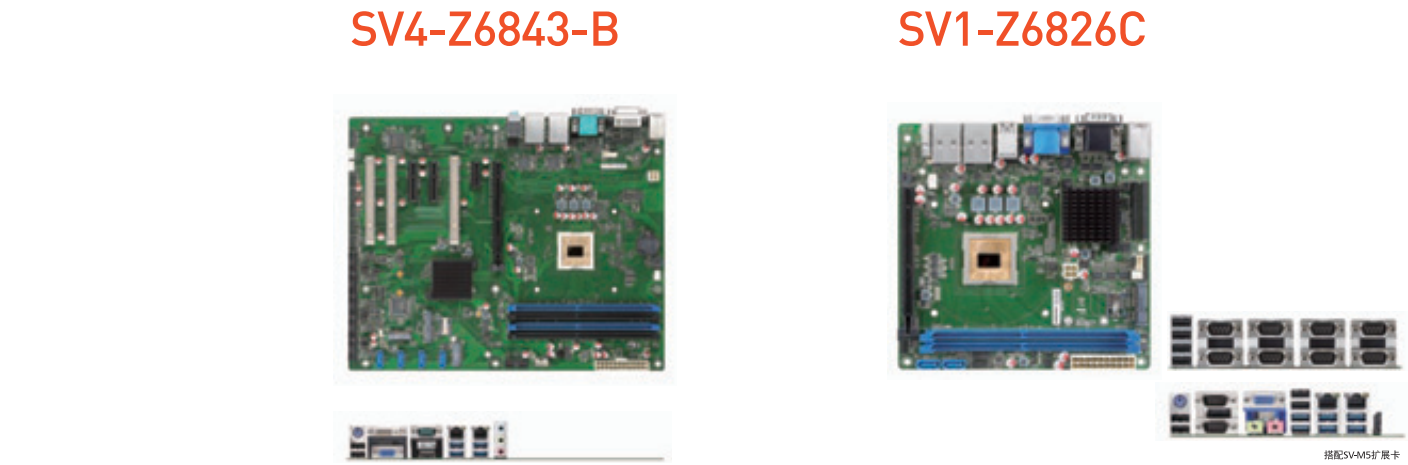


General	
CPU	Intel® Celeron® J1900 CPU, Quad-core, up to 2.42 GHz, TDP 10W
Memory	DDR3L-1333, 1*SO-DIMM, up to 8 GB
Storage	1*SATA 2.0, 1*mSATA/ CF
Expansion Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G supported)
BIOS	AMI UEFI BIOS
System	Windows 7/8.1/10, Server 2008/2012, Linux

I/O	
Ethernet	6*Intel® 1Gbps PCIe Ethernet Controller, RJ45
Serial	2*RS232
USB	1*USB 3.0, 3*USB 2.0
PS/2	1*PS/2 Header (Keyboard & Mouse)
Parallel	1*LPT Header
GPIO	8*Programmable GPIO

Display	
Display Interface	1*VGA: max resolution up to 2560*1600@60Hz

Mechanical & Environment	
Dimension	144*201mm
Power Input	ATX PSU or DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing



General		
CPU	可选兆芯开先® KX-6000系列核处理器： KX-U6780, KX-U6780A, 8核8线程, 2.7 GHz, TDP 70W KX-U6580, 8核8线程, 2.5 GHz, TDP 70W KX-6640A, 4核4线程, 2.6 GHz, TDP 35W	
Chipset	兆芯ZX-200, TDP 6W	
Memory	DDR4-2666, 4*U-DIMM, up to 64 GB	DDR4-2666, 2*U-DIMM, up to 32 GB
Storage	3*SATA 3.0, 1*SATA 3.0/ M.2	2*SATA 3.0, 1*mSATA
Expansion Interface	1*PCIe x16 slot (PCIe x8) 2*PCIe x4 slot (PCIe x2) 1*PCIe x1, 3*PCI 1*Mini-PCIe/ 1*M.2 (Key-E, 2230, PCIe+USB 2.0)	1*PCIe x16 slot (PCIe x8) 2*Mini-PCIe (1*mSATA, support 1*Wifi/3G/4G)
BIOS	Byosoft BIOS	
System	Windows XP/7/10, Linux	

I/O		
Ethernet	2*Intel® 1Gbps Ethernet Controller, RJ45	2*Realtek® 1Gbps Ethernet Controller, RJ45
Serial	4*RS232, 2*RS232/RS485	6*RS232 (up to 18*RS232 with SV-M5 Module)
USB	6*USB 3.0, 10*USB 2.0	6*USB 3.0, 4*USB 2.0 (up to 18*USB with SV-M5 Module)
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out/Line-in	
PS/2	1*PS/2 Port (Keyboard & Mouse)	
GPIO	8*programmable GPIO	
Others	1*SMBUS, 1*TPM, 1*Case Open	1*SMBUS Header, 1*SVIO Header

Display		
Display Interface	1*VGA: max resolution up to 1920*1200@60Hz 1*DVI-D: max resolution up to 1920*1200@60Hz 1*HDMI/eDP: HDMI, max resolution up to 1920*1200@60Hz eDP, max resolution up to 1920*1200@60Hz	1*VGA: max resolution up to 1920*1200@60Hz 1*HDMI: max resolution up to 4096*2160@60Hz

Mechanical & Environment		
Dimension	305*244mm	170*170mm
Power Input	ATX PSU	
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	



General		
CPU	可选兆芯开先® KX-6000系列处理器： KX-U6780, KX-U6780A, 8核8线程, 2.7GHz, TDP 70W KX-U6580, 8核8线程, 2.5GHz, TDP 70W KX-6640A, 4核4线程, 2.6GHz, TDP 35W	
Memory	DDR4-2666, 4*U-DIMM, up to 64 GB	DDR4-2133/2400, 4*U-DIMM, up to 64 GB
Storage	2*SATA 3.0 1*CF Card Slot	1*mSATA (Colay with CF Card) 1*CF Card Slot 3*SATA
Expansion Interface	1*PCIe x8, 1*PCIe x8 90D (2*USB 3.0+4*USB 2.0 +PCIe x2+1*COM) 1*PCIe x8 90D (PCIe x8+PCIe x4)	1*PCIe x16 Gold Finger (2*PCIe x4 Gen3, 1*PCIe x2 Gen2) 1*Mini-PCIe
BIOS	Byosoft BIOS	
System	Windows XP/7/10, Linux	

I/O		
Ethernet	/	5*Intel® 1Gbps Ethernet Controller, RJ45 1*Realtek® PHY Controller; 1 Intel® Ethernet Controller I350-AM4 with 4*SFP, or 沐川IN400 Support 2*Gen3 Lan Bypass
Serial	1*RS232	2*RS232
USB	2*USB 2.0	2*USB 3.0, 2*USB 2.0
GPIO	1*GPIO Header (4*GPI, 4*GPO)	
Others	1*SmartFAN, 1*FAN, 1*SPI ROM, 1*SMBUS, 1*LPC TPM	1*LCM, TPM, 1*PMBUS

Display		
Display Interface	1*VGA: max resolution up to 1920*1200@60Hz	1*VGA: max resolution up to 1920*1200@60Hz

Mechanical & Environment		
Dimension	238*195mm	
Power Input	ATX PSU	
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C	Operation: 0 C ~45 C , Storage: -20 C ~85 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	Operation: 10%~85%, Storage: 5%~95%, non-condensing

SV1-L3426C

- 采用国产龙芯 LS3A4000四核处理器
- 支持Loongnix (Linux)操作系统
- 4*USB 3.0, 6*USB 2.0, 6*COM, 2*千兆网口
- 采用SVIO双层设计, 可最多支持12*COM, 18*USB
- 1*PCIe x16, 2*Mini-PCIe支持mSATA和Wifi/4G
- 1*HDMI, 1*VGA, 支持双屏异显



搭配SV-M5扩展卡

General	
CPU	龙芯® LS3A4000, Quad-Core, 1.8-2.0 GHz, TDP 30~60W
Chipset	龙芯® LS7A1000, TDP 5-8W
Memory	DDR4-2400, 2*U-DIMM, up to 32 GB
Storage	2*SATA 3.0, 1*mSATA
Expansion	1*PCIe x16 slot (PCIe 2.0, x8/x4 or x4/x1)
Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G supported)
BIOS	PMON BIOS
System	Loongnix (Linux)

I/O	
Ethernet	2*Marvell® 1Gbps Ethernet Controller (PHY), RJ45
Serial	5*RS232, 1*RS232/RS485 (up to 12*RS232 with SV-M5 Module)
USB	4*USB 3.0, 6*USB 2.0 (up to 18*USB with SV-M5 Module)
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*programmable GPIO
Other	1*SMbus, 1*I2C, 1*EJTAG, 1*UART

Display	
Display Interface	1*VGA: max resolution up to1920*1080@60Hz 1*HDMI: max resolution up to 1920*1080@60Hz

Mechanical & Environment	
Dimension	170*170mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV1-D2026C

- 采用国产飞腾D2000/8八核处理器
- 支持麒麟, 统信UOS操作系统
- 8*USB 3.0, 3*USB 2.0, 6*COM, 2*千兆网口
- 采用SVIO双层设计, 可最多支持12*COM, 18*USB
- 2*Mini-PCIe支持mSATA和Wifi/4G
- 1*PCIe x16, 可用于搭载显卡



搭配SV-M5扩展卡

General	
CPU	Phytium® D2000/8 , Octa-Core, 2.6 GHz, TDP 30W
Memory	DDR4-3200, 2*U-DIMM, up to 32 GB
Storage	3*SATA 3.0, 1*mSATA
Expansion	1*PCIe x16 slot
Interface	2*Mini-PCIe (1*mSATA, 1*Wifi/3G/4G supported)
BIOS	Phytium UEFI BIOS
System	Kylin, UOS

I/O	
Ethernet	2* Realtek® 1Gbps Ethernet Controller, RJ45
Serial	6*RS232 (up to 12*RS232 with SV-M5 Module)
USB	8*USB 3.0, 3*USB 2.0 (up to 18*USB with SV-M5 Module)
Audio	Realtek® 5.1 channel HDA Codec, with MIC/Line-out
PS/2	1*PS/2 Port (Keyboard & Mouse)
GPIO	8*programmable GPIO
Other	1*I2C,1*JTAG, 1*UART

Mechanical & Environment	
Dimension	170*170mm
Power Input	ATX PSU
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SAM-3588AH



SAM-3568A6



General		
CPU	ARM Rockchip® RK3588, Quad-core Cortex-A76 and Quad-core Cortex-A55, up to 2.4GHz	ARM Rockchip® RK3568, Quad-core Cortex-A55, up to 2.0GHz
GPU	ARM Mali-G610 MP4, support OpenGL ES 1.1/2.0/3.2, OpenCL 2.2, Vulkan 1.2	ARMG52 2EE, support OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1
Memory	LPDDR4/X-3200, up to 32 GB, on board	LPDDR4/X-3200, up to 8 GB, on board
Storage	EMMC 5.1 16/32/64GB	
System	Android 11, Linux	
I/O		
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller	
High Speed Signal	1*PCIe x4 Gen3 1*PCIe x1 Gen2/ SATA 1*USB 3.0 (OTG) 1*USB3.0/ SATA	1*PCIe x2 Gen3 1*PCIe x1 Gen2/ SATA 1*USB 3.0 (OTG) 1*USB3.0/ SATA
USB	4*USB 2.0	
Serial	6*UART	
GPIO	17*GPIO	
Others	1*I2S, 1*SPI, 1*SDMMC, 2*I2C, 1*TP_I2C 2*CAN, 2*MIPI-CSI	
Display		
Display Interface	1*eDP, 1*HDMI 2.0, 1*LVDS, 1*MIPI-DSI	
Mechanical & Environment		
Dimension	69.6*90mm	69.6*60mm
Power Input	5 V	
Temperature	Operation: 0 C ~60 C, Storage: -25 C ~75 C	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

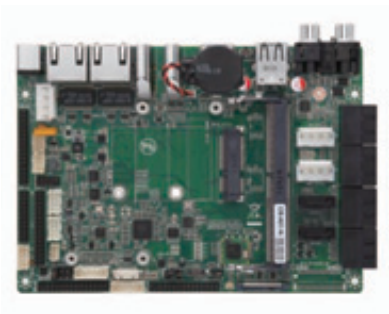
SAM-D9PRAB

- 采用SemiDrive D9系列处理器
- 板载4G LPDDR4/LPDDR4X内存, 16/32G eMMC存储
- 6*COM, 4*USB, 2*千兆网口
- 1*LVDS, 1*MIPI-DSI, 1*MIPI-CSI
- 3*I2C, 1*SDMMC, 2*I2S,1*SPI, 2*CAN



General	
CPU	SemiDrive D9 Serial Processor, D9360-JHFAA, Hexa-core Cortex-A55 and Single-core Cortex-R5
GPU	IMG PowerVR 9XM GPU
Memory	SDRAM LPDDR4/LPDDR4X, up to 4GB, on board
Storage	eMMC 5.1 16/32GB
System	Android10, Linux
I/O	
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller
High Speed Signal	1*PCIe Gen2 2*x1/1*x2
USB	1*USB3.0 OTG 1*USB3.0 HOST 2*USB2.0
Serial	6*UART
GPIO	17*GPIO
Others	3*I2C, 1*SDMMC, 2*I2S,1*SPI, 2*CAN
Display	
Display Interface	1*LVDS 1*MIPI-DSI 1*MIPI-CSI
Mechanical & Environment	
Dimension	70*90mm
Power Input	5V
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

CB-A01-N



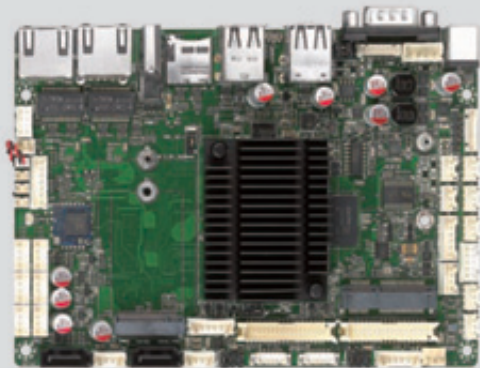
CB-A01-A



General		
Storage	10*SATA 3.0 1*TF Card Slot	1*M.2 (Key-M, 2280, PCIe x4/x2 NVMe SSD) 1*TF Card Slot
Expansion Interface	1*Mini PCIe (support 4G/3G, with 1*Nano SIM Card Slot)	
System	Android, Linux	
I/O		
Serial	4*RS232, 2*RS232/RS485	
USB	2*USB 3.0, 6*USB 2.0	
Ethernet	2*GBE LAN, supported by Ethernet Controllers on SAM module 1*Realtek® GbE LAN header 1*Realtek® Wifi+BT module on board, Wifi IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz, BT 4.2 support BLE	
Audio	Audio with MIC and Line-out	Audio with MIC/Line-out and Amplifier
GPIO	1*CPIO Expand Header (SPI+I2S+I2C+GPIO) 2*CAN, 1*Touch Panel I2C	
Display		
Display Interface	1*HDMI 2.1: max resolution up to 4096*2160@60Hz 1*HDMI 1.4: max resolution up to 4096*2160@30Hz 1*LVDS/eDP: eDP1.3 max resolution up to 4096*2160@60Hz LVDS max resolution up to 1920*1200@60Hz 2*MIPI-CSI: support 2 Lane MIPI-CSI 1*LVDS (only supported by SAM-3568): max resolution up to 1024*768@60Hz	
Mechanical & Environment		
Dimension	146*105mm	
Power Input	DC 12V	
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃	
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing	

SV-35AB6

- 采用Rockchip RK3568处理器
- 板载4G DDR4内存, 8/16/32G eMMC存储
- 6*COM, 10*USB, 2*千兆网口, 1*M.2
- 1*HDMI, 1*eDP/LVDS, 1*LVDS/MIPI
- 板载Wifi+蓝牙模块, 1*Mini-PCle支持Wifi/3G/4G
- 3.5寸, DC 12V供电



General	
CPU	ARM Rockchip® RK3568, Quad-Core Cortex-A55, up to 2.0GHz
Memory	LPDDR4X-3200, 2/4/8GB, on board
Storage	1*eMMC 8/16/32/64G 2*SATA 3.0, 1*TF Card Slot
Expansion Interface	1*Mini-PCle (Wifi/3G/4G supported) 1*M.2 (Key-B, PCIe 3.0/ PCIe 2.0/ USB 3.0/ SATA, 2242/3052)
System	Android, Linux
I/O	
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45 1*Realtek® Wifi+BT module on board Wifi IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz, BT 4.2 support BLE
Serial	4*RS232, 2*RS232/RS485
USB	1*USB 3.0, 9*USB 2.0
Audio	Audio Codec, with MIC/Line-out and Amplifier
GPIO	8*programmable GPIO
Display	
Display Interface	1*HDMI: max resolution up to 4096*2304@60Hz 1*eDP/LVDS: eDP, max resolution up to 2560*1600@60Hz LVDS, max resolution up to 1920*1200@60Hz 1*LVDS/MIPI: LVDS, max resolution up to 1024*768@60Hz MIPI, max resolution up to 1920*1080@60Hz
Mechanical & Environment	
Dimension	146*105mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-35B54

- 采用Rockchip RK3568处理器
- 2G/4G/8G DDR4内存, 8/16/32/64/128G eMMC存储
- 4*COM, 1*USB 3.0, 6*USB 2.0, 1*千兆网口
- 1*HDMI, 1*eDP/LVDS, 1*eDP, 1*MIPI
- 板载Wifi+蓝牙模块, 1*Mini-PCIe
支持PCIe 2.0/USB 2.0/SIM
- 135*90mm, DC 12V供电



General	
CPU	ARM Rockchip® RK3568, Quad-Core Cortex-A55, up to 2.0GHz
Memory	LPDDR4/LPDDR4X, 2G/4G/8G
Storage	1*eMMC 8/16/32/64/128G 1*TF Card Slot
Expansion Interface	1*Mini-PCIe (support PCIe 2.0/USB 2.0/SIM slot) 1*WIFI 2.4G+Bluetooth 4.2 model, on board
System	Android, Linux
I/O	
Ethernet	1*Realtek® RTL8211F GbE PHY Controller, RJ45
Serial	1*RS232, 2*RS232/TTL, 1*TTL
USB	1*USB 3.0, 6*USB 2.0
Audio	Audio Codec, with MIC/Line-out and Amplifier
GPIO	4*programmable GPIO
Display	
Display Interface	1*HDMI: max resolution up to 4096*2304@60Hz 1*eDP/LVDS: eDP, max resolution up to 2560*1600@60Hz LVDS, max resolution up to 1920*1200@60Hz 1*eDP: max resolution up to 2560*1600@60Hz 1*MIPI: max resolution up to 1920*1080@60Hz
Mechanical & Environment	
Dimension	135*90mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -20 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-33DB6



SV-33A66



SV-33B54



General			
CPU	ARM Rockchip® RK3399, Dual-Core Cortex-A72 + Quad-Core Cortex-A53, up to 1.8GHz and 1.4GHz		
Memory	LPDDR4-1866, 2/4GB, on board	DDR3-1333, 1/2/4GB, on board	LPDDR4-1866, 2/4GB, on board
Storage	1*eMMC 8/16/32/64G, 1*TF Card		1*eMMC 8/16/32/64G
Expansion Interface	1*Mini-PCIe (Wifi/3G/4G)		/
System	Android, Linux		
I/O			
Ethernet	2*Realtek® 1Gbps PCIe Ethernet Controller, RJ45 1*Realtek® Wifi+BT module on board Wifi IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz, BT 4.2 support BLE	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45 1*Realtek® Wifi+BT module on board (Wifi IEEE 802.11a/b/g/n/ac, 2.4GHz/5GHz, BT 4.2 support BLE)	
Serial	5*RS232, 1*RS232/RS485		3*RS232, 1*RS232/TTL
USB	1*USB 3.0, 6*USB 2.0		1*USB 3.0, 3*USB 2.0
Audio	Audio Codec, with MIC/Line-out and Amplifier		
GPIO	8*programmable GPIO	8*programmable GPIO	4*programmable GPIO
Others	1*Infrared Header	2*Touch Panel Header (USB only) 1*Infrared Header	1*Cash Drawer Control Header, 1*I2C, 1*FPC (3*COM, 1*USB, 2*GPIO)
Display			
Display Interface	1*HDMI: up to 4096*2160@60Hz 1*eDP: up to 4096*2160@30Hz 1*LVDS/eDP: up to 1920*1080@60Hz	1*HDMI: up to 4096*2160@60Hz 1*eDP: up to 4096*2160@30Hz 1*LVDS/eDP: up to 1920*1080@60Hz	1*HDMI: up to 4096*2160@30Hz 1*eDP: up to 4096*2160@30Hz 1*MIPI-DSI: up to 4096*2160@30Hz 1*eDP/LVDS: up to 1920*1080@60Hz
Mechanical & Environment			
Dimension	146*105mm		
Power Input	DC 12V		DC 24V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C		
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing		

SV-33C61

- 采用Rockchip RK3399处理器
- 板载1/2/4G内存, 8/16/32G eMMC存储
- 3*COM, 3*USB, 1*千兆网口,
- 1*MIPI-DSI显示, 1*触摸屏接口, 1*摄像头接口
- 板载Wifi+蓝牙模块, 1*Mini-PCIe支持Wifi/3G/4G
- 118*104mm, DC 12V供电



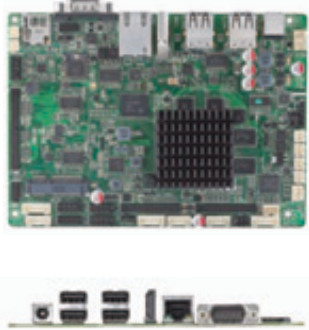
General	
CPU	ARM Rockchip® RK3399, Dual-Core Cortex-A72 + Quad-Core Cortex-A53, up to 1.8GHz and 1.4GHz
Memory	DDR3-1333, 1/2/4GB, on board
Storage	1*eMMC 8/16/32G
Expansion Interface	1*Mini-PCIe (Wifi/3G/4G supported)
System	Android, Linux

I/O	
Ethernet	1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45 1*Realtek® Wifi+BT module on board Wifi IEEE 802.11 a/b/g/n/ac, 2.4GHz/5GHz, BT 4.2 support BLE
Serial	3*RS232
USB	3*USB 2.0
Audio	Everest® Codec, with MIC/Line-out
Feature Interface	1*Touch FPC Connector, 1*Touch Panel Header, 1*Camera Header, 1*Antenna Terminal Connector

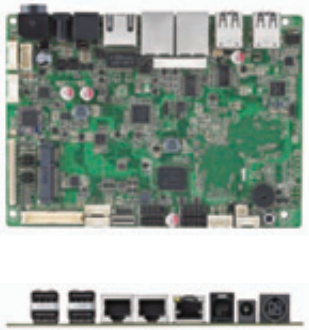
Display	
Display Interface	1*MIPI-DSI: max resolution up to 1920*1080@60Hz

Mechanical & Environment	
Dimension	118*104mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-32A55-W



SV-32B54



SV-32D54



General			
CPU	ARM Rockchip® RK3288, Quad-Core Cortex-A17, up to 1.8GHz		
Memory	DDR3-1333, 1/2/4GB, on board		
Storage	1*eMMC 8/16/32G, 1*TF Card		
ExpansionInterface	1*Mini-PCIe [3G/4G]		
System	Android, Linux		

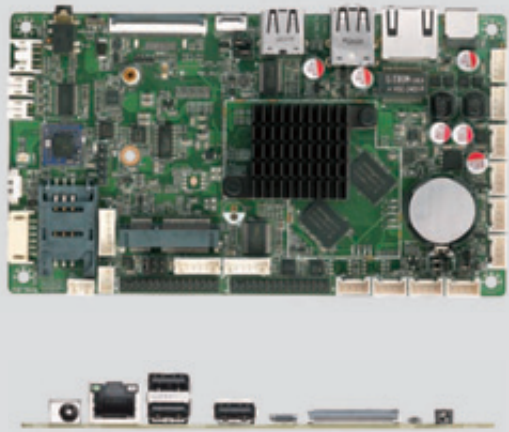
I/O			
Ethernet		1*Realtek® 1Gbps PCIe Ethernet Controller, RJ45 1*Realtek® Wifi+BT module on board Wifi IEEE 802.11 b/g/n, 2.4GHz, BT 3.0/4.0	
Serial	5*RS232, 1*RS232/RS485	3*RS232, 1*RS232/TTL	3*RS232, 1*TTL
USB	6*USB 2.0	9*USB 2.0	7*USB 2.0
Audio		Audio Codec, with MIC/Line-out and Amplifier	
GPIO		8*programmable GPIO	4*programmable GPIO
Others		1*Cash Drawer Port (RJ11) 1*MIPI-CSI Camera Connector	1*MIPI CSI Camera, 1*Upgrade button, 1*IR, 1*I2C

Display			
Display Interface	1*HDMI: up to 4096*2160@60Hz 1*eDP: up to 4096*2160@30Hz 1*LVDS/eDP: up to 1920*1080@60Hz	1*HDMI: up to 4096*2160@60Hz 1*eDP: up to 4096*2160@30Hz 1*LVDS/eDP: up to 1920*1080@60Hz	1*HDMI: up to 4096*2160@30Hz 1*eDP: up to 4096*2160@30Hz 1*MIPI-DSI: up to 4096*2160@30Hz 1*eDP/LVDS: up to 1920*1080@60Hz

Mechanical & Environment			
Dimension	146*105mm		
Power Input	DC 12V	DC 24V	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃		
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing		

SV-31A14A

- 采用Rockchip RK3128处理器
- 板载1G内存, 8G eMMC存储
- 4*COM, 7*USB, 1*百兆网口
- 板载Wifi模块, 1*Mini-PCle支持3G/4G
- 1*LVDS, 1*HDMI, 1*LVDS/MIPI, 1*LCD
- DC 12V供电



General	
CPU	ARM Rockchip® RK3128, Quad-Core Cortex-A7, up to 1.2GHz
Memory	DDR3L-1866, 1GB, on board
Storage	eMMC 8G, 1*TF Card Slot
Expansion Interface	1*Mini-PCle (3G/4G supported)
System	Android, Linux
I/O	
Ethernet	1*Realtek® USB to LAN Chip, RJ45, 10/100Mbps 1*Realtek® Wifi module, IEEE 802.11 a/b/g/n/ac, 2.4GHz
Serial	3*RS232, 1*RS232/TTL
USB	1*USB 2.0 OTG, 6*USB 2.0
Audio	MIC, Line-out, Amplifier
GPIO	4*GPIO
Feature Interface	1*Infrared Header
Display	
Display Interface	1*LVDS: max resolution up to 1920*1080@60Hz 1*HDMI: max resolution up to 1920*1080@60Hz 1*LVDS/MIPI: max resolution up to 1024x768@60Hz 1*LCD: max resolution up to 1024x768@60Hz
Mechanical & Environment	
Dimension	150*85mm
Power Input	DC 12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-45A61

- 采用广和通LTE模块, Qualcomm SDM450处理器
- 内置2G内存, 16G eMMC
- 1*MIPI-DSI显示, 2*MIPI-CSI摄像头接口
- 2*USB, 1*USB摄像头插针, 1*COM, 1*I/O转接口
- 100*96mm, DC 12V供电



General	
CPU	Fibocom SS826-CN-00, SDM450 (Qcta-core ARM Cortex-A53 processor 1.8GHz)
Memory	2GB LPDDR3 (Inside the SOC module)
Storage	1*eMMC 16G
System	Android, Linux
I/O	
Ethernet	Wifi IEEE802.11a/b/g/n/ac, 2.4GHz/5GHz BT 4.2 support BLE, GPS/GLONASS/Beidou, MAIN, DRX
Serial	1*RS232
USB	2*USB 2.0
Audio	Audio with MIC and Amplifier
Feature Interface	2*MIPI CSI, 1*USB Camera Header, 1*FOCBOOT Switch, 1*INF1 (2*USB2.0 + 1*POSUSB2.0 + 2*SPK)
Display	
Display Interface	1*MIPI-DSI: max resolution up to 1920*1200@60Hz
Mechanical & Environment	
Dimension	100*96mm
Power Input	12V
Temperature	Operation: 0℃~60℃, Storage: -25℃~75℃
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-6UA66-A1/A2

- 采用Freescale I.MX6双核处理器
- 板载1/2/4G内存, 8/16/32G eMMC存储
- 6*COM, 6*USB, 1*千兆网口, 2*触摸屏接口
- 1*HDMI, 2*LVDS, 支持双显
- 板载Wifi+蓝牙模块, 1*Mini-PCIe支持3G/4G
- 3.5寸, DC 12V供电



General	
CPU	ARM Freescale® I.MX6 Cortex-A9, Dual-Core, up to 1.0GHz
Memory	DDR3-1333, 1/2/4GB, on board
Storage	1*eMMC 8/16/32G, 1*TF Card
Expansion Interface	1*Mini-PCIe (3G supported)
System	Android, Linux
I/O	
Ethernet	1*Realtek® 1Gbps PCIe Ethernet Controller (PHY), RJ45 1*Realtek® Wifi+BT module on board Wifi IEEE 802.11 b/g/n, 2.4GHz, BT 3.0/4.0
Serial	6*RS232
USB	6*USB 2.0
Audio	Everest® Codec, with MIC/Line-out and Amplifier
GPIO	1*Programmable GPIO
Feature Interface	2*Touch Panel Header (only with USB signal)
Display	
Display Interface	1*HDMI: max resolution up to 1920*1080@120Hz 2*LVDS: Single Channel 24 bit, max resolution up to 1366*768@60Hz
Multiple Display	Dual
Mechanical & Environment	
Dimension	146*105mm
Power Input	DC 12V
Temperature	Operation: 0 C ~60 C , Storage: -25 C ~75 C
Relative Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing

SV-I350-T4P 网口扩展卡



SV-I210-T4P 网口扩展卡



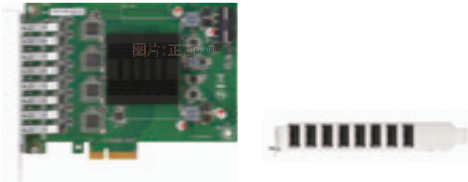
Expansion Slot	PCIe x4 Golden Finger	
Ethernet	4*Intel Ethernet Controller I350 (RJ45, 1 GbE, support POE) The POE power load support max 4*30W.	4 * Intel Ethernet Controller I211-AT (RJ45, 1 GbE, support POE) The POE power load support max 4*28W.
Power Supply	DC 12V DC 12V Power Input ATX 2*2P Connector (ATX 4*1P Connector optional) When the POE power load is lower than 65W, the DC 12V power supply is unnecessary.	DC 12V DC 12V Power Input ATX 6P Connector (DC 12V Power Input ATX 4P Connector optional) When the POE power load is lower than 65W, the DC 12V power supply is unnecessary.
Factor	142mm*65mm	150mm*65mm

SV-M2LAN2-RJ45 M.2 网口扩展卡



Specification	2*Intel® i210/i211 1Gbps Ethernet Controller, RJ45 Support 1000/100/10Mbps transfer rates Support Wake-on LAN
Form Factor	M.2, Key B+M, 3052
Dimension	M.2 Card: 30*52mm I/O Board: 34.5*51mm

SV-PCIE TO USB3 USB 扩展卡



Expansion Slot	PCIe x4 Golden Finger
USB	8*USB3.2 Gen1 (TYPE-A, Half Speed, 2.5Gbps) or 4*USB3.2 Gen2 (TYPE-A)
Power Supply	1*System Power Input 4P Connector
Factor	150mm*111mm

SV-USB TO 2CAN CAN 转接卡



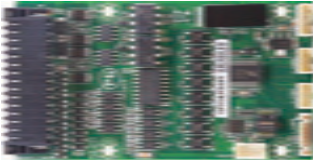
Input	1*USB2.0 2*GSPI+INT 2*Can Wafer
Output	2*Canbus Wafer 1*Terminal Block
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃
Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing
Dimension	90mm*26mm

SV- PCIE TO 2CAN CAN 转接卡



Input	1*M.2 (Key-B, Golden Finger) 2* Can Wafer
Output	2* Canbus Wafer
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃
Humidity	Operation: 10%~90%, Storage: 5%~95%, non-condensing
Dimension	M.2 Key-B 3042/3052 standard

SV-GPIO&RS485 隔离型GPIO卡



Input	3*RS232 (COM1-3, Wafer, Two Lanes)
Output	1*IO Expand Terminal Block (2*RS485 + 8*GPIO + 8*GPI) Support Optical Isolation
Power Supply	1*Power Output Wafer (12V+5V)
Factor	96mm*51mm

SV-PDC24V 电源转接卡



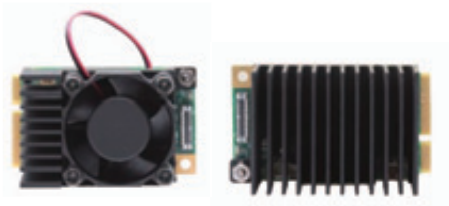
Power In	24V DC/OVP/UVP/Anti Reverse Terminal Block 5.08mm 2Pin/3Pin, Wafer 4*1/2.54mm
Power Out	12V DC, 5A/8A, Regulator SiC43X Wafer 4*1/2.54mm
Dimension	71*35mm

SV-PDC9-36V 电源转接卡



Input	1*DC 9~36VPower 1*Power Input Wafer 1*Power Input Terminal Connector
Output	1*DC 12V Wafer 1*DC 12V 4P ATX Connector
Other Port	1*Power On Wafer
Temperature	Operation: 0℃~60℃, Storage: -20℃~75℃
Factor	100mm*30mm

SV-MPEM2095 AI加速卡



SoC	Intel® VPU Movidius Myriad MA2095
Memory	4GB LPDDR4
Storage	64GB eMMC
I/O	1*JMP, 1*FAN (Strong Thermal Solution, heatsink + 3010 FAN)
Power Input	5V
Form Factor	Mini-PCIe Card
Dimension	30*50mm

SV-DHTE 显示转接卡



Input	1*HDMI 1.4, 1*USB 2.0 Type-C
eDP	Max resolution up to 1920*1080@60Hz FPC 30P
AMP Speaker	Mono 3W4Ω, Wafer 2.0mm
GPIO	3*GPIO by MCU, Wafer 2.0mm
USB	3*USB 2.0, Wafer 2.0mm
Dimension	86*43mm

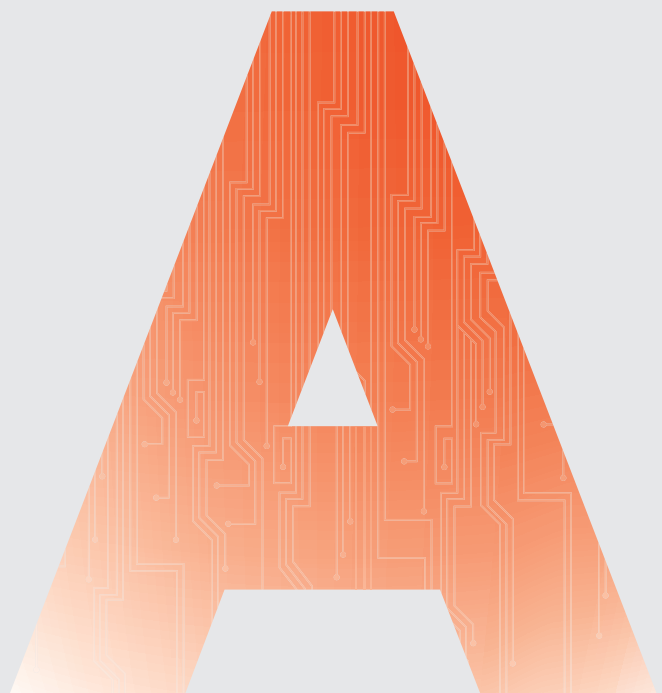
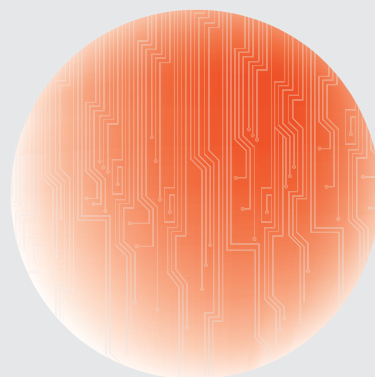
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A BETTER LANDSCAPE FOR HUMANITY

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