

Empowering a

# SMART FUTURE

Avalue IoT Ready

## 创造美好生活



医疗  
制造  
交通  
零售  
能源



工业嵌入式主板

## 基于ARM的SBC主板



型号	RSC-IMX8M	RSC-IMX61	RSC-3568J	ACP-IMX6POS
<b>处理器</b>	NXP i.MX8M Cortex-A53 Quad Core 1.3GHz; Cortex-M4 Core Processor	NXP i.MX 6 Dual Lite NXP i.MX 6 Quad Core	Rockchip RK3568J Quad-core Cortex-A55 1.8GHz	NXP i.MX 6 Dual Lite NXP i.MX 6 Quad Core
<b>系统内存</b>	2GB DDR4 (Default), Expandable to 4GB	1GB/ 2GB DDR3	2GB/ 4GB LPDDR4	1GB/ 2GB DDR3
<b>存储</b>	16GB eMMC	4GB eMMC	32GB/ 64GB eMMC	4GB eMMC
<b>外部I/O连接器</b>	1 x 10/100/1000 RJ45 1 x DC Jack 1 x Headphone Jack 1 x HDMI 2.0 In 1 x Micro SD Slot 1 x Power LED 1 x Reset 1 x USB 3.0 Type A 1 x USB 3.0 Type C 1 x USB 3.0 Type C OTG	1 x DC Jack 1 x HDMI 2.0 In 1 x Line-out 1 x Micro SD Slot 1 x Power LED 1 x Reset 2 x USB 2.0 Type A 1 x Jack for I/R Extender Cable, Co-design (Optional)	1 x DC Jack 1 x HDMI 2.0 In 1 x Reset 1 x RS232/422/485 DB9 1 x USB 3.0 Type A 1 x USB 3.0 Type A OTG 2 x 10/100/1000 RJ45 LAN	2 x 10/100/1000 RJ45 Powered LAN 1 x DC Jack 1 x HDMI 2.0 In 1 x Micro SD Slot 1 x Mini USB 1 x RJ11 2 x RS232/422/485 DB9 2 x USB 2.0 Type A
<b>内部I/O连接器</b>	1 x Backlight 1 x Extend Connector 1 x I <sup>2</sup> C 1 x LVDS 2 x M.2 2230 E-Key 1 x Mini PCIe 1 x MIPI CSI 1 x Power LED 1 x RTC Battery 1 x SIM Card Slot 1 x USB 2.0	1 x Backlight 1 x CAN 1 x I <sup>2</sup> C 1 x Line-out 1 x LVDS 1 x Micro USB 1 x RS232 1 x RS232/422/485 Debug 1 x RTC Battery 1 x SATA 1 x USB 2.0 1 x USB 2.0 Type B OTG 1 x USB Touch Interface	1 x Backlight 2 x CAN 1 x Debug 1 x eDP 5 x GPIO 1 x I <sup>2</sup> C 1 x LVDS 1 x M.2 2230 E-Key 1 x M.2 3042 B-Key 1 x Micro SD Slot 1 x MIPI DSI 3 x RS232 1 x RS232/422/485 1 x RTC Battery 1 x SD Card Slot 1 x SIM Card Slot 1 x Speaker 1 x Touch Button 2 x USB 2.0 1 x 4Pin DC PHD 2.0	N/A
<b>电源信息</b>	DC 12V - 24V Terminal Block (Panel Only Supports 12V)	DC 12V - 26V 2.5mm DC Jack, Typical 19V Input with Brownout Detection or Powered LAN	DC 12V - 24V	DC 12V - 24V
<b>工作温度</b>	-40 ~ 85°C (-40 ~ 185°F)	-20 ~ 85°C (-4 ~ 185°F)	-40 ~ 85°C (-40 ~ 185°F)	-20 ~ 85°C (-4 ~ 185°F)
<b>存储温度</b>	-40 ~ 85°C (-40 ~ 185°F)	-40 ~ 85°C	-40 ~ 85°C (-40 ~ 185°F)	-40 ~ 85°C (-40 ~ 185°F)
<b>尺寸 (长 x 宽)</b>	146 x 102 mm	146 x 102 mm	146 x 101 mm	175 x 110 mm
<b>重量</b>	0.15 kg	0.15 kg	0.16 kg	0.16 kg
<b>认证</b>	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
<b>软件支持</b>	Android 9.0, Android 10 Yocto 2.5	Android 4.4, Android 6.0 Yocto 2.1	Android 13 Debian 11	Android 4.4 Yocto 1.7



型号	ACP-3588	ACP-3566-PI	ACP-IMX8MM-PI
<b>处理器</b>	RockChip RK3588 Quad-core Cortex-A76 and Quad-core Cortex-A55	RockChip RK3566 Quad-core Cortex-A55	NXP i.MX8Mmini Quad Core Cortex-A53
<b>系统内存</b>	4GB/ 8GB/ 16GB/ 32GB LPDDR4	2 GB	2 GB
<b>存储</b>	32 GB eMMC	16 GB eMMC	8 GB eMMC
<b>外部I/O连接器</b>	1 x 10/100/1000 RJ45 Powered LAN 1 x HDMI 2.0 In 2 x HDMI 2.0 Out 4 x RS-232/422/485 Debug 3 x USB 2.0 Type A 1 x USB 2.0 Type C OTG 1 x USB 3.0 Type A	1 x 10/100/1000 RJ45 Powered LAN 1 x HDMI 2.0 Out 2 x USB 2.0 Type B 1 x USB 2.0 Type B OTG 1 x USB 3.0 Type A 1 x PWR IN	1 x 10/100/1000 RJ45 Powered LAN 1 x Audio Jack TRS 1 x HDMI 2.0 Out 4 x USB 2.0 Type B 1 x USB 3.0 Type C 1 x DC in
<b>内部I/O连接器</b>	1 x EDP 2 x 20P GPIO (GPIO/ UART/ SPI/ I <sup>2</sup> C) 1 x LVDS 1 x M.2 Key M 1 x MIPI CSI 1 x MIPI DSI 2 x SATA 1 x SPDIF 1 x 30 pin Audio Interface 1 x Speaker Header 2 x WiFi/ BT Antenna 2 x I <sup>2</sup> C	1 x BT4.0 28 x GPIO 1 x TF Card 1 x WiFi 802.11 a/b/g/n/ac 1 x MIPI CSI 1 x MIPI DSI	1 x BT4.0 40 x GPIO 1 x MIPI CSI 1 x MIPI DSI 1 x USB Wifi/ BT Port
<b>电源信息</b>	DC 12V	DC 5V	DC 5V
<b>工作温度</b>	Commercial: 0 ~ 80°C (32 ~ 176°F)	Commercial: 0 ~ 80°C (32 ~ 176°F)	-20°C ~ 85°C (-4°F ~ 185°F)
<b>存储温度</b>	-20°C ~ 85°C (-4°F ~ 185°F)	0°C ~ 60°C (32°F ~ 140°F)	-20°C ~ 85°C (-4°F ~ 185°F)
<b>尺寸 (长 x 宽)</b>	150 x 125 mm	85 x 55 mm	85 x 55 mm
<b>重量</b>	0.16 kg	0.16 kg	0.16 kg
<b>认证</b>	CE, FCC, Class B	CE, FCC, Class B	CE, FCC, Class B
<b>软件支持</b>	Andriod 11	Linux Debian 11	Linux (Yocto)



工业嵌入式主板

# 3.5" SBC主板



型号	ECM-RPL	ECM-ADLS	ECM-CFS	ECM-KBLH	ECM-WHL	ECM-EHL	ECM-EHL3	ECM-TGU	ECM-TGUC	ECM-ASL	ECM-APL
<b>处理器</b>	Onboard 13th Intel® Gen Core™ i7/i5/i3/ Pentium®/ Celeron® BGA Processor, Supports TDP 15/ 28W	Intel® LGA1700 Socket Supports 12th Gen Intel® Core™ i9/i7/i5/i3/ Pentium®/ Celeron® Processors, up to 35W Max	8/ 9th Gen Intel® Core™ i7/i5/i3/ Celeron® rPGA Processor	7th Gen. Intel® Core™ i7/i5/i3/ Celeron® Processor	8th Gen Intel® Core™ i7/i5/i3/ Celeron® Processor (with CPU Bottom Mounted)	Onboard Intel® Pentium®/ Celeron®/ Atom™ SoC BGA Processor (Elkhart Lake Platform 4.5 - 12W)(with CPU Bottom Mounted)	Onboard Intel® Pentium®/ Celeron®/ Atom™ SoC BGA Processor (Elkhart Lake Platform 4.5-12W)(with CPU Bottom Mounted)	Onboard BGA 11th Gen Intel® Core™ Processors U-series & Celeron®	Onboard BGA 11th Gen. Intel® Core™ Processors U-series i5/i3	Intel® Processor N97 BGA Processor	Intel® Pentium®/ Celeron®/ Atom™ SoC Processor
<b>系统芯片</b>	N/A	Intel® R680E/Q670E/H610E Chipset	Intel® Q370/ H310 Express Chipset	Intel® QM175 Express Chipset	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>系统内存</b>	1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 32GB	1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 32GB	1 x 260-Pin DDR4 2400MHz SO-DIMM up to 32GB	1 x 260-Pin DDR4 2400MHz SO-DIMM up to 16GB	2 x 260-pin DDR4 2400MHz SO-DIMM up to 64GB	1 x 260-pin DDR4 3200MHz SODIMM, Supports up to 32GB (Non ECC Supported)	1 x 260-pin DDR4 3200MHz SODIMM, Supports up to 32GB (Non ECC Supported)	1 x 260-pin DDR4 3200MHz SODIMM, Supports up to 32GB (non ECC Supported)	1 x 260-pin DDR4 3200MHz SODIMM, Supports up to 32GB (Non ECC Supported)	1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 16GB	1 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM Supports up to 8GB SDRAM (Non-ECC)
<b>看门狗计时器</b>	H/W Reset, 1 sec. ~ 65535 sec.	H/W Reset, 1 sec. ~ 65535 sec.	H/W Reset, 1 sec. ~ 65535 sec.	H/W Reset, 1 sec. ~ 65535 sec.	H/W Reset, 1 sec. ~ 65535 sec.	H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step	H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step	H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step	H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step	H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step	H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step
<b>扩展</b>	1 x M.2 (2242) B-Key 1 x M.2 (2230) E-Key 1 x M.2 (2280) M-Key	1 x M.2 (2230) E-Key	1 x Mini PCIe Supports mSATA (Q370 Support mPCIe/ mSATA/ USB2.0 Device, H310 Support mSATA/ USB 2.0 Device)	1 x Mini PCIe Supports mSATA 1 x M.2 (2242) B-Key	1 x M.2 (2242/3042) B Key, (SATA, USB 3.0/ 2.0, SIM Slot) 1 x M.2 E Key 2230, (PCIe, USB2.0, CNVi)	1 x M.2 (2242) B-Key 1 x M.2 (2230) E-Key	1 x M.2 (2242) B-Key 1 x M.2 (2230) E-Key 1 x M.2 (2260 for 2242) M-Key	1 x M.2 (2242) B-Key 1 x M.2 (2230) E-Key 1 x M.2 (2260 for 2242) M-Key	1 x M.2 (2242) B-Key 1 x M.2 (2230) E-Key 1 x M.2 (2280) M-Key	1 x M.2 (2242) B-Key 1 x M.2 (2230) E-Key 1 x M.2 (2280) M-Key	1 x Mini PCIe (for PCIe & USB2.0) 1 x M.2 (2242) B-Key
<b>存储</b>	1 x M.2 B Key (2242) 1 x M.2 (2280) M-Key 1 x SATA III	1 x M.2 (2280) M-Key	1 x mSATA Supported from Mini PCIe	1 x mSATA Supported from Mini PCIe 1 x M.2 (M.2 Support SATA or PCIe x1/ USB)	1 x SATA III 1 x M.2 B Key (2242)	1 x M.2 (2242) B-Key 1 x SATA III	1 x M.2 (2242) B-Key 1 x M.2 (2260 for 2242) M-Key 1 x SATA III	1 x M.2 (2242) B-Key 1 x M.2 (2260 for 2242) M-Key 1 x SATA III	1 x M.2 (2242) B-Key 1 x M.2 (2280) M-Key 1 x SATA III	1 x M.2 (2242) B-Key 1 x SATA III	1 x M.2 (M.2 support SATA or PCIe x1/ USB)
<b>I/O</b>	4 x USB 2.0, 3 x USB 3.2 2 x RS-232/422/485 1 x 8bit GPIO, 1 x SPI, 1 x e-SPI	4 x USB 2.0, 4 x USB 3.2 (H610E USB 3.2 Support Gen 1 Only) 2 x RS-232/422/485 1 x 8bit GPIO, 1 x SPI, 1 x e-SPI	2 x USB 2.0, 4 x USB 3.1 2 x SATA III, 2 x RS-232 1 x 8bit GPIO, 1 x LPC 1 x SPI	2 x USB 2.0, 4 x USB 3.0, 2 x SATA III, 1 x RS-232, 1 x RS-232/422/485, 1 x 8bit GPIO, 1 x LPC, 1 x SPI	2 x USB 2.0, 4 x USB 3.1, 1 x SATA III, 1 x 8-bit GPIO, 1 x LPC, 1 x SPI	4 x USB 2.0, 2 x USB 3.1 Gen2 1 x SATA III, 3 x RS-232 1 x RS-422/485 1 x 8bit GPIO, 1 x e-SPI	6 x USB 2.0, 2 x USB 3.1 Gen2 1 x SATA III, 4 x RS-232 2 x RS-232/422/485 1 x 8bit GPIO, 1 x e-SPI, 1 x SPI	4 x USB 2.0, 4 x USB 3.1 Gen2 1 x SATA III, 4 x RS-232 2 x RS-232/422/485 1 x 8bit GPIO, 1 x SPI, 1 x e-SPI	5 x USB 2.0, 3 x USB 3.2 1 x SATA III, 5 x RS-232 1 x RS-232/422/485 1 x 8bit GPIO, 1 x SPI, 1 x e-SPI	4 x USB 2.0, 3 x USB 3.2 1 x SATA III, 3 x RS-232 1 x RS-232/422/485 1 x 8bit GPIO, 1 x e-SPI	1 x USB 2.0, 4 x USB 3.0 1 x SATA III, 5 x RS-232 1 x RS-232/422/485 1 x Micro SIM Card Slot 1 x 8bit GPIO, 1 x LPC, 1 x SPI
<b>显示芯片组</b>	Intel® Iris® Xe/ UHD Graphics (Dependent on CPU) 1 x HDMI, 1 x DP++, 1 x 2CH LVDS/ eDP, 1 x USB Type C Support DP Supports 4 Display	Intel® 12th Gen. CPU Integrated HDMI, DP++, 1 x 2CH LVDS/ eDP Supports Triple Display	Intel® UHD Graphics 630 Intel® UHD Graphics 610 H310 Only Support Dual Display: LVDS + HDMI 1 (Default LVDS Enable) or HDMI 1 + HDMI 2 (LVDS Disabled) Q370 Support Triple Display	Intel® 7th SoC Processor Integrated Supports Triple Display	Intel® UHD Graphics 620 (i7-8665UE, i5-8365UE, i3-8145UE) Intel® UHD Graphics 610 (4305UE) Support Triple Display	Intel® UHD Graphics for 10th Gen Intel® Processors HDMI, DP, eDP Supports Triple Display	Intel® UHD Graphics for 10th Gen Intel® Processors 2x DP++, 1 x 2CH LVDS/ eDP (Default LVDS) Supports Triple Display	Intel® 11th Up3 SoC Processor Integrated 2 x DP++, 1 x 2CH LVDS, 1 x eDP Supports Four Display	Intel® 11th Up3 SoC Processor Integrated 2x DP++, 1 x 2CH LVDS/eDP (Default LVDS) Supports Triple Display	Integrated Intel® UHD Graphics 1 x HDMI, 1 x DP, 1 x 2CH LVDS/ eDP Supports Triple Display	Intel® HD Graphics 500 Supports Triple Display
<b>分辨率</b>	HDMI: 4096 x 2160 @ 60Hz DP++: 4096 x 2304 @ 60Hz LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes USB Type C Support DP: 4096 x 2304 @ 60Hz	HDMI: 4096 x 2304 @ 60Hz DP++: 4096 x 2304 @ 60Hz LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes	Dual HDMI: 4096 x 2304 @ 30Hz LVDS: 1920 x 1080 @ 60Hz	Dual HDMI: 4096 x 2160 @ 24Hz LVDS: 1920 x 1080 @ 60Hz	Dual HDMI: 4096 x 2160 @ 24/ 30Hz LVDS: 1920 x 1080 @ 60Hz	HDMI: 4096 x 2160 @ 24Hz DP: 4096 x 2160 @ 60Hz eDP: 4096 x 2160 @ 60Hz	2 x DP++: 4096 x 2304 @ 60Hz Dual Channel 18/ 24bits LVDS: 1920 x 1080 @ 60Hz eDP: 4096 x 2160 @ 60Hz	2 x DP++: 4096 x 2304 @ 60Hz Dual Channel 18/ 24bits LVDS: Max. resolution 1920 x 1080 @ 60Hz eDP: 4096 x 2160 @ 60Hz	2 x DP++: 4096 x 2304 @ 60Hz Dual Channel 18/ 24bits LVDS: 1920 x 1080 @ 60Hz eDP: 4096 x 2160 @ 60Hz	HDMI: 4096 x 2160 @ 60Hz DP: 4096 x 2160 @ 60Hz LVDS: 1920 x 1080 @ 60Hz eDP: 4096 x 2160 @ 60Hz	Dual HDMI: 3840 x 2160 @ 30Hz LVDS: 1920 x 1080 @ 60Hz
<b>音频芯片组</b>	Realtek Audio Codec Mic-in, Line-in, Line-out	Realtek Audio Codec Mic-in, Line-in, Line-out	Realtek Audio Codec Mic-in, Line-in, Line-out	Realtek Audio codec Audio Amp.:2W	Realtek Audio Codec Mic-in, Line-out	Realtek Audio Codec Mic-in, Line-in, Line-out	Realtek Audio Codec Mic-in, Line-in, Line-out 2 x 2W Audio Amplifier	Realtek Audio Codec Mic-in, Line-in, Line-out 2 x 2W Audio Amplifier	Realtek Audio Codec Mic-in, Line-in, Line-out 2 x 2W Audio Amplifier	Realtek Audio codec Mic-In, Line-In, Line-Out	Realtek Audio Codec Mic-in, Line-in, Line-out
<b>以太网</b>	2 x Intel® I226LM/ IIT	2 x Intel® i226LM	1 x Intel® I210AT 1 x Intel® I219LM	1 x Intel® I210AT 1 x Intel® I219LM	1 x Intel® I210AT 1 x Intel® I219LM	2 x Intel® I226LM/ IIT	1 x Intel® I226LM 2 x Intel® I210AT	3 x Intel® I226LM/IIT	1 x Intel® I225V 1 x Intel® I219LM	2 x Intel® I226V/IIT	2 x Intel® I210AT
<b>电源信息</b>	+9V ~ 36V	+12V	+12V	+12V	+12V	+9V ~ +36V	+9V ~ +36V	+12V ~ +24V	+12V ~ +24V	+9V ~ +36V	+12V ~ +24V
<b>电源模式</b>	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX
<b>工作温度</b>	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) -20°C ~ 85°C (-4°F ~ 140°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) (Optional for Wide Temperature)
<b>尺寸 (长 x 宽)</b>	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)	5.7" x 4" (146 x 101 mm)



型号	EPX-EHLP	EPX-APLP
处理器	Intel® Celeron®/ Atom™ SoC Processor	Intel® Celeron®/ Atom™ SoC Processor
系统芯片	N/A	N/A
系统内存	1 x 260-pin DDR4 2666MHz SO-DIMM Supports up to 32GB	1 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM Supports up to 8GB
扩展	1 x M.2 Key-B 1 x M.2 Key-E	1 x M.2 Key-B 1 x M.2 Key-E 1 x Micro SIM to SIM Adapter by Option
显示	Intel® UHD Graphics for 10th Gen Intel® Processors 2 x DP++/ LVDS	Intel® HD Graphics 500 HDMI + LVDS + DP++
分辨率	DP++: 4096 x 2160 @ 60Hz LVDS: 1920 x 1080 (2 x DP++, LVDS)	HDMI 1.4b: 3840 x 2160 @ 30Hz 2560 x 1600 @ 30Hz DP 1.2a: 4096 x 2160 @ 60Hz LVDS: 1920 x 1800 @ 60Hz
音频	N/A	Realtek Audio Codec 2 x 2W Audio Amplifier
以太网	2 x Intel® I226LM/IT	2 x Intel® I226LM
USB/SATA/串口/网口	6/1/2/2	6/1/6/2
电源信息	+12V	+12V
电源模式	AT/ ATX	ATX
工作温度	0°C ~ 60°C (32°F ~ 140°F) -20°C ~ 60°C (-8°F ~ 140°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)
尺寸 (长 x 宽)	3.93" x 2.83" (100 x 72 mm)	3.93" x 2.83" (100 x 72 mm)
重量	0.88 lbs (0.4 kg)	0.88 lbs (0.4 kg)

型号	EZX-EHLP
处理器	Intel® Pentium®/ Celeron®/ Atom™ Processor
系统芯片	N/A
系统内存	Single Channel LPDDR4 4/ 8GB Memory Down
扩展	1 x M.2 Key-B, 1 x Micro SIM to SIM Adapter by Option Onboard eMMC
显示	Intel® UHD Graphics for 10th Gen Intel® Processors Mini DP/ eDP
分辨率	Mini DP++ : 4096 x 2160 @ 60Hz eDP: 4096 x 2160 @ 60Hz LVDS: 1920 x 1080
音频	N/A
以太网	1 x Intel® I210AT/ IT
USB/SATA/串口/网口	6/0/1/1
电源信息	+12V
电源模式	AT/ ATX
工作温度	0°C ~ 60°C (32°F ~ 140°F) -20°C ~ 60°C (-8°F ~ 140°F) for Wide Temperature CPU SKU
尺寸 (长 x 宽)	3.3" x 2.5" (85 x 65 mm)
重量	0.66 lbs (0.3 kg)



型号	RX680R	ERX-W480P
处理器	Intel® 12/ 13th Gen Core™ i9/i7/ i5/i3 Processor, Supports LGA 1700 CPU up to 65W Max	Intel® LGA1200 Socket Supports 10th Gen. Intel® Xeon® (Workstation)/ Core™, Pentium®/ Celeron® Processors (Max. TDP at 95W)
系统芯片	Intel® R680E Chipsets	Intel® W480E Chipset
系统内存	4 x DIMM up to 128GB Max Dual Channel DDR5 4400 MHz with ECC Support (ECC Memory Supported by CPU)	4 x 288-pin DDR4 2400 ~ 2933MHz DIMM Supports up to 128GB (ECC Memory Supported by CPU)
扩展	1 x Gen 5 PCIe x16 2 x Gen 4 PCIe x4 1 x Gen 3 PCIe x4 Open Ended	2 x PCI-e x16 (1 x PCI-e x16 or 2 x PCI-e x8), 2 x PCI-e x4
显示	Intel® 12/13th Gen. CPU Integrated DP++/ LVDS/ Optional eDP Four Independent Displays	Intel® 10th Gen. CPU Integrated VGA / HDMI / DP++ / LVDS Triple Display
分辨率	DP: 7680 x 4320 @ 60Hz (2 x DP++: 1920 x 1080 @ 60Hz) Dual Channel 18/24bits LVDS 1920 x 1080Hz Option eDP 4096 x 2304 @ 60Hz	VGA: 2048 x 1536 @ 60Hz HDMI 2.0a: 4096 x 2304 @ 60Hz DP++: 4096 x 2304 @ 60Hz LVDS: 1920 x 1080 Dual Channel 18/24-bits
音频	Realtek Audio Code Mic-in, Line-out 3W Amplifier	Realtek Audio Code Line-in, Mic-in, Line-out 6W Amplifier
以太网	2 x Intel® I225-LM	1 x Intel® I219LM 1 x Intel® I210AT 2 x Intel® I225LM 1 x Intel® X550-AT2 (BOM Option)
USB/SATA/串口/网口	17/4/6/2	14/4/6/4 or 6
电源信息	+12V/ +5V/ 5VSB/ +3.3V/ -12V	+12V/ +5V/ 5VSB/ +3.3V/ -12V
电源模式	AT/ ATX	AT/ ATX
工作温度	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)
尺寸 (长 x 宽)	9.6" x 9.6" (243.84 x 243.84 mm)	9.6" x 9.6" (243.84 x 243.84 mm)
重量	1.45 lbs (0.66 kg)	1.35 lbs (0.6 kg)

型号	BC680R	EAX-W480P	EAX-C246P
处理器	Intel® 12/13th Gen Core™ i9/i7/ i5/i3 Processor, Supports LGA 1700 CPU up to 65W Max	Intel® LGA1200 Socket Supports 10th Gen. Intel® Xeon® (Workstation)/ Core™, Pentium®/ Celeron® Processors	Intel® LGA1151 Socket Supports 8/9th Gen. Intel® Xeon® (Workstation)/ Core™, Pentium®/ Celeron® Processors
系统芯片	Intel® R680E Chipsets	Intel® W480E Chipset	Intel® C246 Chipset
系统内存	4 x DIMM up to 128GB Max Dual Channel DDR5 4400MHz with ECC Support (ECC Memory Supported by CPU)	4 x 288-pin DDR4 400~2933MHz DIMM Supports up to 128GB (ECC Memory Supported by CPU)	4 x 288-pin DDR4 400/2666MHz DIMM Supports up to 128GB (ECC Memory Supported by CPU)
扩展	1 x Gen 5 PCIe x16 2 x Gen 4 PCIe x4 1 x Gen 3 PCIe x4 2 x Gen 3 PCIe x1 Open Ended	1 x PCI-e x16 or 2 x PCI-e x8 4 x PCI-e x4	1 x PCI, 1 x PCI-e x16 or 2 x PCI-e x8 by BOM 1 x PCI-e x4, 3 x PCI-e x1 1 x M.2 M-Key, 1 x M.2 A-Key
显示	Intel® 12/13th Gen. CPU Integrated DP++ / HDMI	Intel® 10th Gen. CPU Integrated DVI-D + DP++ + DP++	Intel® 8/ 9th Gen. CPU Integrated VGA + HDMI + DP
分辨率	DP: 7680 x 4320 @ 60Hz (2 x DP++: 1920 x 1080 @ 60Hz) HDMI 2.0b: 4096 x 2304 @ 60Hz	DVI-D: 2048 x 1536 @ 60Hz DP++: 3840 x 2160 @ 60Hz	VGA: 2048 x 1536 @ 60Hz HDMI: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz DP: 4096 x 2304 @ 60Hz
音频	Realtek Audio Code Mic-in, Line-out 3W Amplifier	N/A	Realtek Audio Code Mic-in, Line-in, Line-out 1 x 6W Audio Amplifier
以太网	2 x Intel® I225-LM	1 x Intel® I225V 1 x Intel® I219LM 1 x Intel® I210AT	1 x Intel® I219LM 1 x Intel® I210AT
USB/SATA/串口/网口	17/4/6/2	12/4/10/3	14/6/10/2
电源信息	+12V/ +5V/ 5VSB/ +3.3V/ -12V	+12V/ +5V/ 5VSB/ +3.3V/ -12V	+12V/ +5V/ 5VSB/ +3.3V/ -12V
电源模式	AT/ ATX	AT/ ATX	AT/ ATX
工作温度	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)
尺寸 (长 x 宽)	12" x 9.6" (304.8 x 243.84 mm)	12" x 9.6" (304.8 x 243.84 mm)	12" x 9.6" (304.8 x 243.84 mm)
重量	1.85lbs (0.84 kg)	1.32 lbs (0.6 kg)	1.32 lbs (0.6 kg)



工业嵌入式主板

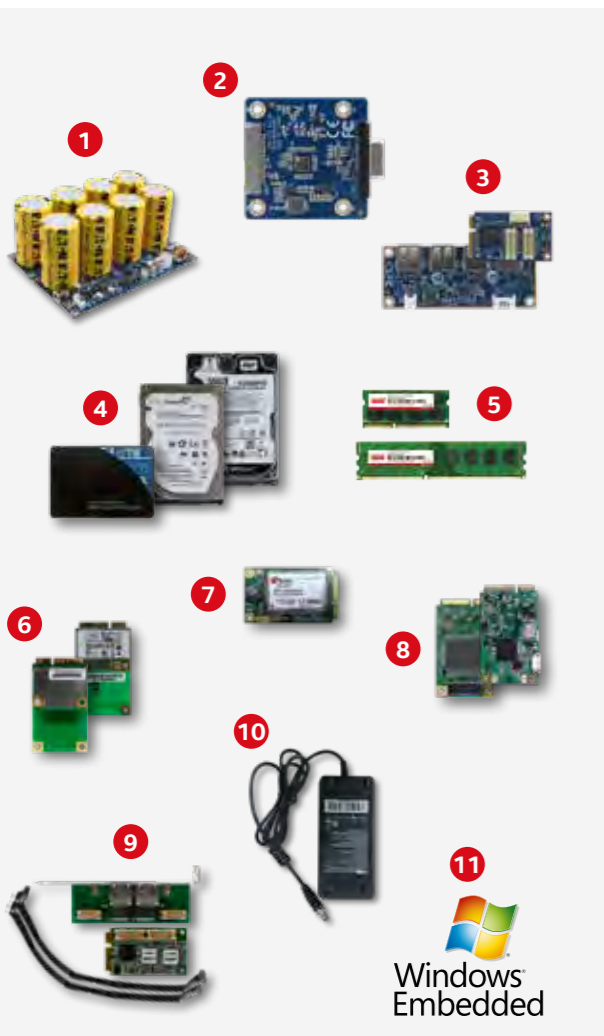
## Mini-ITX 主板



型号	EMX-ASLP	EMX-RPLP	EMX-TGLP	EMX-TGLC	EMX-SKLP
<b>处理器</b>	Onboard BGA 12th Gen. Intel® Processor N97 Processor	Onboard BGA 13th Gen. Intel® Core™ Processors P-series	Onboard BGA 11th Gen. Intel® Core™ Processors U-series	Onboard BGA 11th Gen. Intel® Core™ Processors U-series & Celeron®	Onboard BGA 6th Gen. Intel® Core™ Processors
<b>系统芯片</b>	N/A	N/A	N/A	N/A	N/A
<b>系统内存</b>	1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 16GB	2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB	2 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 64GB	2 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 64GB	2 x 260-pin DDR4 2133MHz SO-DIMM Supports up to 32GB
<b>扩展</b>	1 x M.2 B-Key 1 x M.2 E-Key 1 x M.2 M-Key	1 x M.2 B-Key 1 x M.2 E-Key	1 x M.2 B-Key 1 x M.2 E-Key	1 x PCI-e x4 1 x M.2 B-Key 1 x M.2 E-Key	1 x PCI-e x1 1 x M.2 B-Key 1 x M.2 A-Key 1 x SD Card Slot
<b>显示</b>	Intel® UHD Graphics Integrated 1 x HDMI, 1 x DP, 1 x DP++, eDP, LVDS Triple Display	Intel® Iris® Xe/ UHD Graphics (Dependent on CPU) 2 x DP++, 2 x DP, eDP, LVDS (Maximum: 6 for Quadruple Independent Displays)	Intel® 11th Up3 SoC Processor Integrated 2 x DP++, 2 x DP, eDP, LVDS (Maximum: 6 for Quadruple Independent Displays)	Intel® 11th Up3 SoC Processor Integrated 2 x DP++, eDP, LVDS Triple Display	Intel® 6th Generation CPU Integrated Triple Display
<b>分辨率</b>	1 x HDMI 2.0b: 4096 x 2160 @ 60Hz 1 x DP: 4096 x 2160 @ 60Hz 1 x DP++: 1920 x 1080 @ 60Hz Dual Channel 18/24bits LVDS: 1920 x 1080Hz, Co-lay eDP 1920 x 1080 @ 60Hz	2 x DP++ (DP1+DP2): 1920 x 1080 @ 60Hz 2 x DP (DP3+DP4): 5120 x 3200 @ 60 Hz (2 x DP++, 2 x DP, eDP, LVDS) Dual Channel 18/24bits LVDS: 1920 x 1080Hz eDP: 3840 x 2169 @ 60Hz	2 x DP++: 4096 x 2304 @ 60Hz DP: 4096 x 2304 @ 60Hz (2 x DP++, 2 x DP, eDP, LVDS) Dual Channel 18/24bits LVDS: 1920 x 1080Hz eDP: 4096 x 2304 @ 60Hz	2 x DP++: 4096 x 2304 @ 60Hz (2 x DP++, eDP, LVDS) Dual Channel 18/24bits LVDS: 1920 x 1080Hz eDP: 4096 x 2304 @ 60Hz	HDMI 1.4b: 3840 x 2160 @ 30Hz 2560 x 1600 @ 30Hz 2 x DP 1.2a: 4096 x 2160 @ 60Hz (1 x HDMI/ DP, 1 x DP++), Dual Channel 18/24-bits LVDS, Co-lay eDP 1.3: 4096 x 2160 BOM Optional
<b>音频</b>	Realtek Audio Codec Mic-in, Line-out 2 x 2W Audio Amplifier	Realtek Audio Codec Mic-in, Line-out 2 x 6W Audio Amplifier	Realtek Audio Codec Mic-in, Line-out 2 x 6W Audio Amplifier	Realtek Audio Codec Mic-in, Line-out 2 x 6W Audio Amplifier	Realtek Audio Code Mic-in, Line-out 2 x 6W Audio Amplifier
<b>以太网</b>	1 x Intel® I226LM 1 x Intel® I226V	3 x Intel® I226LM/IT 1 x Intel® I219LM	1 x Intel® I226LM/IT 1 x Intel® I219LM 2 x Intel® I210AT	1 x Intel® I226LM 1 x Intel® I219LM	1 x Intel® I219LM 1 x Intel® I210AT
<b>USB/SATA/串口/网口</b>	8/2/6/2	8/2/6/4	8/2/6/4	8/2/6/2	8/2/6/2
<b>电源信息</b>	+12V ~ 24V	+12V ~ 24V	+12V ~ 24V	+12V ~ 24V	+12V ~ 24V
<b>电源模式</b>	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX
<b>工作温度</b>	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) -20°C ~ 60°C (-4°F ~ 140°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F) -20°C ~ 60°C (-4°F ~ 140°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)
<b>尺寸 (长 x 宽)</b>	6.69" x 6.69" (170 x 170 mm)	6.69" x 6.69" (170 x 170 mm)	6.69" x 6.69" (170 x 170 mm)	6.69" x 6.69" (170 x 170 mm)	6.69" x 6.69" (170 x 170 mm)
<b>重量</b>	0.53 lbs. (0.24 kg)	0.88 lbs. (0.4 kg)	0.88 lbs. (0.4 kg)	0.88 lbs. (0.4 kg)	0.88 lbs. (0.4 kg)



型号	EMX-EHLP	MX610HD	MX610H	EMX-C246P
<b>处理器</b>	Intel® Pentium®/ Celeron®/ Atom™ SoC Processor	LGA1700 Socket Supports 12/ 13th Gen. Intel® Core™ i9/ i7/ i5/ i3/ Pentium®/ Celeron® Processors	LGA1700 Socket Supports 12/ 13th Gen. Intel® Core™ i9/ i7/ i5/ i3/ Pentium®/ Celeron® Processors	LGA1151 Socket Supports 8/ 9th Gen. Intel® Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors
<b>系统芯片</b>	N/A	Intel® H610E Chipset	Intel® H610E Chipset	Intel® C246 Chipset
<b>系统内存</b>	1 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 32GB (Only Atom® x6000 Series Processors Support IB ECC)	2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB	2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB	2 x 260-pin DDR4 2400/2666MHz SO-DIMM Supports up to 64GB (ECC Memory Supported by CPU)
<b>扩展</b>	1 x M.2 B-Key 1 x M.2 E-Key	1 x PCI-e x16 1 x M.2 M-Key 1 x M.2 E-Key	1 x PCI-e x16 1 x M.2 M-Key 1 x M.2 E-Key	1 x PCI-e x16 1 x M.2 M-Key 1 x M.2 E-Key
<b>显示</b>	Intel® UHD Graphics for 10th Gen Intel® Processors Triple Display DP++, HDMI, LVDS (eDP by BOM Option)	Intel® Integrated UHD Graphic with Xe Architecture (CPU Dependent) HDMI + DP + LVDS	Intel® Integrated UHD Graphic with Xe Architecture (CPU Dependent) HDMI, DP++, LVDS	Intel® 8/ 9th Gen. CPU Integrated VGA + HDMI + LVDS VGA + HDMI + HDMI
<b>分辨率</b>	HDMI 2.0b: 4096 x 2160 @ 60Hz DP++: 4096 x 2160 @ 60Hz Dual Channel 18/24bits LVDS: 1920 x 1080 eDP: 4096 x 2160 @ 60Hz (BOM Optional)	HDMI: 3840 x 2160 @ 30Hz DP++: 4096 x 2304 @ 60Hz Dual channel 18/24-bits LVDS: 1920 x 1080 @ 60Hz	HDMI: 3840 x 2160 @ 30Hz DP: 4096 x 2304 @ 60Hz Dual channel 18/24-bits LVDS: 1920 x 1080 @ 60 Hz	VGA: 2048 x 1536 @ 60Hz HDMI: 3840 x 2160 @ 30Hz 2560 x 1600 @ 30Hz Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS) by BOM Option
<b>音频</b>	Realtek Audio Code Mic-in, Line-out 2 x 6W Audio Amplifier	Realtek Audio Code 3W Audio Amplifier	Realtek Audio Code 3W Audio Amplifier	Realtek Audio Code 6W Audio Amplifier
<b>以太网</b>	4 x Intel® i226LM/IT	1 x Intel® I219V 1 x Intel® I225LM	1 x Intel® I219LM 1 x Intel® I225V	1 x Intel® I219LM 3 x Intel® I210AT
<b>USB/SATA/串口/网口</b>	8/2/6/4	8/2/3/2	10/3/4/2	13/4/6/4
<b>电源信息</b>	+12V ~ 24V	+12V ~ 24V	+12V/ +5V/ 5VSB/ +3.3V/ -12V	+12V/ +5V/ 5VSB/ +3.3V/ -12V
<b>电源模式</b>	AT/ ATX	AT/ ATX	AT/ ATX	AT/ ATX
<b>工作温度</b>	0°C ~ 60°C (32°F ~ 140°F) -20°C ~ 60°C (-8°F ~ 140°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)
<b>尺寸 (长 x 宽)</b>	6.69" x 6.69" (170 x 170 mm)	6.69" x 6.69" (170 x 170 mm)	6.69" x 6.69" (170 x 170 mm)	6.69" x 6.69" (170 x 170 mm)
<b>重量</b>	0.88 lbs (0.4 kg)	0.88 lbs (0.4 kg)	0.88 lbs (0.4 kg)	0.88 lbs (0.4 kg)



安勤拥有完整的产品系列，可以为您提供构建系统或解决方案所需的一切。如果您所需的产品不在我们的标准产品范围内，我们的团队也可根据指定的供应商和产品采购所需的零件。

总之，我们的最终目标是在最短的发货周期内为客户提供最高效的服务和最优质的产品。

嵌入式外围设备				
序号	嵌入式外围设备	描述		
1	Power Board	EPM-1712 Vehicle 100Watt Smart DC/DC Converter		
		EPM-1715 Super Cap Power Module		
		EPM-1721 Railway 60W Power Board		
2	Display Board	EPM-1502 eDP to VGA Converter		
		EPM-1601 mPCIe to 4-RS-232 Module		
3	IO Board	EPM-1602 mPCIe to 4-RS-422/485 Module		
		EPM-1603 USB to 4-RS-232/422/485 Module		
		EPM-1604 4 Port USB 2.0 Hub		
		EPM-1605 USB to mPCIe Module		
		EPM-1606 mPCIe to M.2 Transfer Board		
		EPM-1607 M.2 2242/2260/2280 to 4-RS-232 Module		
		EPM-1608 M.2 2242/2260/2280 Dual 2.5 GbE LAN Module		
		4	Industrial Storage	SSD: 2.5", mSATA, M.2, CFAST, CF, DOM
				HDD: 2.5", 3.5"
M.2: 2242, 2280				
5	Industrial Module	Type: SO-DIMM, Long-DIMM Capacity: Max. Up to 32GB Temperature: Standard or Industrial Temperature		
6	Wi-Fi Module	Form Factor: mPCIe/ M.2 Bluetooth Supported		
7	4G/ 5G Module	Type: 4G/ 5G Module Interface: mCPIE, M.2		
8	Capture Card	Mini SDI/ HDV Capture Card w/ H.264 High Profile Encoding		
9	Mini LAN Port	2-port 10/100/1000 Ethernet Board		
10	Power Adapter	AC DC Adapter 60W/ 84W/ 120W/ 200W/ 220W		
11	Microsoft Windows Embedded OS	Avalue Provides Embedded Software to Customers Who Integrated Avalue's Hardware Products. Windows Embedded Standard 7/8 Window 10 IoT Enterprise Window 11 IoT Enterprise		



**EPM-1502**

**eDP to VGA Converter**

- Input Interface 40pin eDP Signal
- Output Interface DB-Sub VGA
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support VESA and CEA Timing Standards up to 1920 x 1200 @ 60Hz



**EPM-1601**

**mPCIe to 4-RS-232 Module**

- Input Interface PCI-Express. 2.0
- Output Interface 4 x RS-232
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support Ring Wake Function (Optional)



**EPM-1602**

**mPCIe to 4-RS-422/485 Module**

- Input Interface PCI-Express. 2.0
- Output Interface 4 x RS-422/285
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support Auto Flow Control
- Cable for mPCIe to Four DB-9 Connectors



**EPM-1603**

**USB to 4-RS-232/422/485 Module**

- Input Interface USB2.0
- Output Interface 4 x RS232/422/485
- 2 x USB 2.0 w/ Type A Connector
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation



**EPM-1604**

**4-Port USB 2.0 Hub**

- 4 x Port USB Hub, Open Bare-board Design
- 4 x Internal USB2.0 Type A Female Connector for Down Port
- 1 x Internal Wafer 2pin Connector for DC-input (+12V, Max 1A)
- Compliant with Universal Serial Bus Specification Revision 2.0 (Data Rate 1.5/12/480Mbps), USB 1.1 Compatible



**EPM-1605**

**USB to mPCIe Module with USIM**

- Input Interface USB 2.0
- Output Interface USB 2.0
- Operation Temperature : 0 ~ 60°C
- 1 x USIM Slot Expansion



**EPM-1606**

**mPCIe to M.2 A/E key Transfer Board**

- M.2 Wi-Fi & Bluetooth Module (PCIe and USB Base) to Mini PCIe Converter
- Support Windows, MAC and Linux
- Multiple Plated-holes Support M.2 Type 2230/2242
- Operating Temperature: -40 ~ 80°C



**EPM-1607**

**M.2 2242/2260/2280 to 4-RS-232 Module**

- Input Interface PCI-Express. 2.0
- Output Interface 4 x RS-232
- Support M.2 Type 2242/2260/2280 Plated-holes
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support Ring Wake Function (Optional)



**EPM-1608**

**M.2 2242/2260/2280 Dual 2.5 GbE LAN Module**

- 3-in-1 form Factor 2280/2260/2242
- Ultrafast Transfer Speeds via 2-Native PCIe Lane
- Quickly Adds Two Independent Gigabit Ethernet Ports (with 2kV Isolation) to Embedded Systems
- Supports Wake-on LAN Ensures Unhindered Remoting



**EPM-1712**

**Vehicle 100Watt Smart DC/DC Converter**

- Wide Range DC Input: Typical 12/24Vdc (+9 ~ +36V)
- Intelligent System on/off Control Via Jumper Setting
- 6 Selectable Power on/off Timing Modes
- Load Down/ Over Voltage/ Short Circuit/ Over Current Protection
- Battery Voltage Monitor



**EPM-1715**

**Supercap Power Module**

- 500'000 Charge & Discharge Cycling
- 4 x 400F Supercapacitor up to 6-Cell and 8-Cell
- AP for The Parameter Selecting
- Wide Temperature Range: 0 ~ 60°C
- Wide DC Input: +12 ~ 24Vdc
- Over Temperature Protection



**EPM-1721**

**Railway 60W Power Board**

- Input to Output Isolation 1500Vdc
- Output Voltage 12Vdc
- Output Current 5000mA
- Wide Temperature Range: -40 ~ +85°C
- Wide DC Input: +9 ~ 36Vdc
- Over Voltage and Current Protection
- Certified with EN50155 and EN50121-3-2



模块化主板

# COM Express Type 10 / COM Express Type 6



型号	ESM-RPL	ESM-RPLC	ESM-APLM	ESM-EHLC	ESM-APLC	ESM-BYT2	ESM-KBLU	ESM-TGH	ESM-CFH	ESM-SKLH
处理器	13th Gen Intel® Raptor Lake P-Series (28 W), U-Series (15 W), H-Series (45W) BGA Processor	13th Gen Intel® Raptor Lake P-Series (28 W), U-Series (15 W) BGA Processor	Intel® Celeron®/ Pentium®/ Atom™ SoC Processor	Intel® Atom® x6000E Series and Intel® Pentium® and Celeron® J and N Series Processors	Intel® Pentium®/ Celeron®/ Atom™ SoC Processor	Intel® Atom™/ Celeron® Processor	7th Gen Intel® Core™ i7/i5/i3/ Celeron® Processor	11th Gen Intel® Xeon®/ Core™ i7/i5/i3/ Celeron® BGA 10nm Processor	9/ 8th Gen Intel® Xeon®/ Core™ i7/i5/i3 Processor	6th Gen Intel® Core™ i7/i5/i3 Processor
系统内存	2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB	1 x 262-pin DDR5 5200MHz SO-DIMM Supports up to 32GB	1 x 204-pin DDR3L 600/1333MHz SO-DIMM up to 8GB	2 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 32GB (Only Atom® x6000 Series Processors Support IBCEC)	1 x 204-pin DDR3L 1600MHz 1600/1333MHz SO-DIMM up to 8GB	2 x 204-pin DDR3L 1600MHz SO-DIMM or 204-pin DDR3L 1333MHz SO-DIMM up to 4 GB (Processor E3845 & J1900 Only Support 1333MHz)	2 x 260-pin DDR4 2133MHz SO-DIMM up to 32 GB	3x 260-pin DDR4-3200MHz SO-DIMM with up to 96 GB with ECC (ECC is Supported with Specific SKU) *3rd Socket on Rear Side by Request	3 x 260-pin DDR4 2400/2133MHz SO-DIMM up to 96GB	2 x 260-pin DDR4 SO-DIMM up to 32GB
扩展	1 x PCIe Gen4 x8 (Selected SKU, H Series) 2 x PCIe Gen4 x4 7 x PCIe Gen3 x1	2 x PCIe Gen4 x4 7 x PCIe Gen3 x1	1 x PCIe x4	3 x PCIe x1	3 x PCIe x1	3 x PCIe x1	8 x PCIe x1	1 x PEG x16 (Gen4, 16.0 GT/s) Support dGFX and NVMe Storage 8 x PCIe x1 (Gen3, 8.0 GT/s)	1 x PCIe x16 Gen3 8 x PCIe x1	8 x PCIe x1
USB	8 x USB 2.0 4 x USB 3.2 Gen2 2x USB4 (Optional)	8 x USB 2.0 4 x USB 3.2 Gen2 2x USB4 (Optional)	6 x USB 2.0 2 x USB 3.0	8 x USB 2.0 4 x USB 3.2 Gen2 x1 (10 Gbps)	8 x USB 2.0 4 x USB 3.0	7 x USB 2.0 1 x USB 3.0	8 x USB 2.0 4 x USB 3.0	8 x USB 2.0 4 x USB 3.2 Gen2 x1 (10 Gbps)	8 x USB 2.0 4 x USB 3.1	8 x USB 2.0 4 x USB 3.0
SATA	2 x SATA III	2 x SATA III	2 x SATA III	2 x SATA III	2 x SATA III	2 x SATA II	3 x SATA III	4 x SATA III	4 x SATA III	4 x SATA III
串口	2 x UART	2 x UART	N/A	2 x UART	1 x UART	2 x UART	2 x UART	2 x UART	2 x UART	2 x UART
MIO	1 x SMBus 1 x LPC 1 x I <sup>2</sup> C 1 x SPI	1 x SMBus 1 x LPC 1 x I <sup>2</sup> C 1 x SPI	1 x SMBus 1 x LPC	1 x SMBus 1 x LPC/ eSPI (Default) 1 x I <sup>2</sup> C 1 x SPI	1 x SMBus 1 x LPC 1 x I <sup>2</sup> C	1 x SMBus 1 x LPC 1 x I <sup>2</sup> C	1 x SMBus 1 x LPC 1 x I <sup>2</sup> C 1 x SPI	1 x SMBus 1 x LPC (eSPI Default) 1 x I <sup>2</sup> C	1 x SMBus 1 x LPC 1 x I <sup>2</sup> C 1 x SPI	1 x SMBus 1 x LPC 1 x I <sup>2</sup> C
显示芯片组	Intel® Iris® Xe Graphics on i7/i5 Processors Intel® UHD Graphics on i3/ Celeron® Processors Intel® Gfx up to 96 EU	Intel® Iris® Xe Graphics on i7/i5 Processors Intel® UHD Graphics on i3/ Celeron® Processors Intel® Gfx up to 96 EU	Intel® HD Graphics 500	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® HD Graphics 500	Intel® HD Graphics	Intel® HD Graphics 620 (i7-7600U, i5-7300U, i3-7100U) Intel® HD Graphics 610 (Celeron® 3965U)	Intel® 11th H Series SoC Processor Integrated	Intel® 8/ 9th SoC Processor Integrated	Intel® 6th SoC Processor Integrated
显示	DDI, VGA, eDP/ LVDS	DDI, VGA, eDP/ LVDS	LVDS, DDI	VGA, LVDS, DDI	VGA, LVDS, DDI	VGA, LVDS, DDI	VGA, LVDS, DDI	VGA LVDS, DDI	VGA, LVDS, DDI	VGA, LVDS, DDI
音频	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio
以太网	1 x Intel® I226LM/IT	1 x Intel® I226LM/IT	1 x Intel® I210AT	1 x Intel® I225LM/IT	1 x Intel® I210AT	1 x Intel® I210AT	1 x Intel® I219LM	1 x Intel® I225LM/IT	1 x Intel® I219LM	1 x Intel® I219LM
电源信息	+9V ~ +19V	+9V ~ +19V	+4.75V ~ +20V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V
工作温度	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40 ~ 185°F) for Wide Temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) (Standard). Extend: -40°C ~ 85°C (-40°F ~ 185°F) with 0.5m/s Air Flow. (Note: Above 70°C Tc, The Recommended Ethernet Speed is 1G.) on Request	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) (Standard) Extend: -40°C ~ 75°C (-40°F ~ 167°F) on Request	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)
尺寸 (长 x 宽)	3.74" x 4.92" (125 x 95 mm)	3.7" x 3.7" (95 x 95 mm)	3.31" x 2.17" (84 x 55mm)	3.7" x 3.7" (95 x 95 mm)	3.7" x 3.7" (95 x 95 mm)	3.7" x 3.7" (95 x 95 mm)	3.7" x 3.7" (95 x 95 mm)	5" x 3.7" (125 x 95 mm)	5" x 3.7" (125 x 95 mm)	5" x 3.7" (125 x 95 mm)
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B



模块化主板

# Qseven 模块 / 评估测试载板



型号	EQM-EHL	EQM-APL	EQM-BYT
处理器	Intel® Celeron®/ Pentium®/ Atom™ SoC BGA Processor (Elkhart Lake Platform 6 ~ 12W)	Intel® Pentium®/ Celeron® Processor	Intel® Atom™/ Celeron® Processor
系统内存	Onboard Single Channel LPDDR4 3200MT/s 4GB Up to 8GB	Onboard DDR3L 1600 & 1333MHz 4GB Up to 8GB	Onboard DDR3L 2GB Up to 4 GB (Processor E3845 Only Support 1333MHz)
扩展	4 x PCIe Gen 3 x1	3 x PCIe x1	3 x PCIe x1
USB	8 x USB 2.0, 1 x USB 3.2 Gen1	6 x USB 2.0, 2 x USB 3.0	5 x USB 2.0, 1 x USB 3.0
SATA	2 x SATA III	2 x SATA III	2 x SATA II
UART	1 x UART	1 x UART	1 x UART
MIO	1 x SMBus, 1 x LPC, 1 x I <sup>2</sup> C, 1 x SPI	1 x SMBus, 1 x LPC, 1 x I <sup>2</sup> C, 1 x SPI	1 x LPC, 1 x SMBus, 1 x I <sup>2</sup> C
显示芯片组	Intel® Elkhart Lake SoC Processor Integrated Intel® UHD Gen11 LP Graphics	Intel® HD Graphics 500	Intel® HD Graphics
显示	DP + (eDP or LVDS)	(HDMI or DP) + (eDP or LVDS)	DDI (HDMI or DP) + LVDS
音频	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio
以太网芯片组	1 x Intel® I226LM/IT	1 x Intel® I210AT	1 x Intel® I211 (Commercial)
电源信息	+5V	+5V	+5V
工作温度	0°C ~ 60°C (32°F ~ 140°F); -40°C ~ 85°C (-40°F ~ 185°F) for Wide Temperature CPU SKU	0°C ~ 70°C (32°F ~ 140°F)(Standard) Extend: -20°C ~ 70°C (-4°F ~ 158°F) on Request	0°C ~ 60°C (32°F ~ 140°F)(Standard)
尺寸(长 x 宽)	2.75" x 2.75" (70 x 70 mm)	2.8" x 2.8" (70 x 70 mm)	2.8" x 2.8" (70 x 70 mm)
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
软件支持	Win 10, Linux	Win 10, Linux, Android	Win 10, Win 7, Win 8, Linux



型号	REV-0703 (A/B)	EEV-EX26/ EEV-EX16	EEV-EX15	EEV-EX14
USB	4 x USB 2.0, 2 x USB 3.0 (2 x USB on Board, 2 x USB 3.0/ 1 x USB External)	4 x USB 2.0, 4 USB 3.2 1 x IET Connector to 2 x USB Type C Module Board at IO (EEV-EX26 Only)	8 x USB 2.0, 2 x USB 3.0 (2 USB External)	8 x USB 2.0, 4 x USB 3.0 (4 USB External)
SATA	2 x SATA (On Board)	4 x SATA III (On Board)	2 x SATA III (On Board)	4 x SATA II (On Board)
串口	1 x RS-232	N/A	N/A	1 x RS-232/422/485, 1 x RS-232, 1 x LPT (1 x RS232/422/485 External, 1 x RS232 on Board)
视频	1 x HDMI, 1 x LVDS, 1 x DP, 1 x eDP (1 x LVDS & 1 x eDP on Board)	3 x Display Port, 1 x VGA, 1 x eDP 3 x HDMI, 1 x LVDS (1 x LVDS on Board)	1 x Display Port, 1 x HDMI 1 x LVDS (1 x LVDS on Board)	1 x Display Port, 1 x VGA, 1 x HDMI 1 x LVDS (1 x LVDS on Board)
其它	External I/O Connector, 1 x Ethernet, 1 x SD Socket 3 x Audio Phone Jack, Internal I/O Connector 1 x GPIO, 1 x PCIe x1, 1 x mPCIe, 1 x SPI 1 x SPI, 1 x CAN, 1 x LPC, 1 x JFP 1 x PWM CPU Fan Header, 1 x PWR Header	1 x SDIO 1 x LAN (Support 2.5G)	1 x LAN	1 x PS2/KB & MS 1 x SDIO 2 x LAN
DIO	1 x 16bit GPIO	1 x 8bit GPIO	1 x 8bit GPIO	1 x 8bit GPIO
MIO	1 x SD Socket for Version A 1 x Micro SD Socket for Version B	N/A	N/A	1 x IrDA
扩展	1 x Mini PCIe Supports SIM Card	2 x PCIe Slot x4, 1 x PCIe x16 1 x IET, 1 x SDIO/DIO (Optional, Depend on Module Board)	1 x PCIe x4, 1 x IET 1 x SDIO/DIO (Optional, Depend on Module Board)	1 x PCIe x16, 1 x PCIe x4 1 x PCIe x1, 1 x Express Card 1 x Mini PCIe
音频芯片组	ALC892/ WM8962	ALC888	ALC892	ALC892
音频接口	Mic-in, Line-in, Line-out	Mic-in and Line-out	Mic-in and Line-out	Mic-in, Line-in and Line-out
电源信息	DC +12V	ATX	ATX	AT/ ATX
工作温度	-40°C ~ 85°C (-40°F ~ 185°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)
尺寸(长 x 宽)	6.69" x 6.69" (170 x 170 mm)	9.6" x 9.6" (243.84 x 243.84 mm)	6.7" x 6.7" (170 x 170 mm)	9.6" x 9.6" (243.84 x 243.84 mm)
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B



型号	REV-SA01	REV-SA02	REV-SA03
外部I/O连接器	1 x HDMI, 1 x VGA 2 x RJ45, 1 x DB9 1 x Mini-USB, 2 x USB Type A	1 x LAN, 2 x RCA, 1 x HDMI, 1 x VGA 1 x Micro SD Socket, 1 x Mini USB (OTG) 1 x USB Type A 2.0 Double Deck 1 x Display Port, 2 x RS232, 1 x RST Switch 1 x Power Switch, 1 x Power LED, 1 x DIP SW	1 x Power Key, 1 x Reset Key 1 x DC Jack, 1 x USB 2.0 Type A 1 x USB Type C, 1 x Giga Ethernet 1 x Headphone, 1 x Micro SD Socket 1 x SIM Socket
内部I/O连接器	1 x LVDS, 1 x Backlight 1 x SD Socket 1 x USB Connector 2 x CAN BUS 1 x Speaker-out/ Mic-in 1 x RS-232, 1 x GPIO 1 x SATA, 1 x RTC Battery 1 x 2 Cell Li Battery Connector	1 x Camera, 2 x Speaker 1 x D-MIC, 1 x Mini PCIe (SATA) 1 x Mini PCIe (USB) 1 x Sim Card, 1 x GPIO 1 x I <sup>2</sup> C, 1 x USB2.0 1 x PCIe-1, 1 x LVDS 1 x Battery Charger Connect 1 x Inverter, 2 x RS485, 2 x CAN	1 x USB 2.0 4P Header, 1 x Mic Phone 2P Header 1 x Speaker 2P Header, 1 x RTC-Battery (CR2032) 1 x M.2 Key E for WIFI/BT, 1 x M.2 key B for LTE 1 x M.2 Key M for SSD (Only for PCIe Switch) 1 x BackLight 4P Header 1 x I <sup>2</sup> C Touch Screen Connector 1 x MIPI CSI Screen Connector for MIPI Camera (Option) 1 x MIPI DSI (Option) 1 x LVDS Screen Connector (Default) 1 x GPIO 16 bit, 1 x CAN Bus
电源信息	+9V ~ 36V DC-in (REV-SA01-02-A1R) +9V ~ 24V DC-in (REV-SA01-03-A1R)	DC +12V	DC +12V
工作温度	0°C ~ 60°C (32°F ~ 140°F)	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 85°C (-40°F ~ 185°F)
存储温度	-20°C ~ 80°C (-40°F ~ 176°F)	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 85°C (-40°F ~ 185°F)
尺寸(长 x 宽)	146 x 101 mm	170 x 170 mm	165 x 120 mm
重量	0.13 kg	0.024 kg	0.024 kg
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
软件支持	N/A	N/A	N/A





模块化主板

## SMARC / 开放式标准模块

AI计算平台

## 边缘AI算力平台



型号	SMA-IMX8MP	SMA-3568	SMA-X8I	SMA-IMX6-E
处理器	Quad Cortex®-A53 Processors, Frequency	Rock Chip RK3568 Quad-core Cortex-A55	NXP i.MX 8M Mini	NXP i.MX 6 Dual NXP i.MX 6 Quad Core
系统内存	2GB/ 4GB LPDDR4	2GB/ 4GB/ 8GB LPDDR4	2GB DDR4 (Default)	1GB/ 2GB DDR3
存储	16GB/ 32GB eMMC	16GB eMMC	eMMC 16GB	eMMC 8GB
内部/I/O连接器	2 x CAN/CAN FD 1 x EDP, 1 x HDMI, 1 x LVDS 2 x MIPI CSI, 1 x MIPI DSI 1 x PCIE 3.0, 4 x UART, 1 x USB (Type C), 2 x USB 3.0 3 x uSDHC, 6 x I²C 3 x SPI	1 x CAN, 14 x GPIO, 4 x I²C 1 x I²S, 1 x SDIO, 2 x SPI 6 x UART, 1 x Wifi 802.11 a/b/g/n/ac 1 x HDMI, 1 x MIPI CSI, 1 x MIPI DSI/LVDS 2 x Giga Ethernet 1 x PCIe 2.1, 1 x PCIe 3.0 1 x USB 3.0 Type A, 1 x USB 3.0 Type A OTG 2 x USB 2.0 Type B	1 x Giga LAN, 8 x GPIO 3 x I²C, 1 x I²S 1 x LVDS (Default), 1 x PCIe 1 x MIPI CSI (Option) 1 x MIPI DSI (Option) 1 x SPI, 1 x UART 4 x USB 2.0, 1 x USB 2.0 OTG	2 x CAN, 12 x GPIO 3 x I²C, 1 x JTAG 1 x MLB150, 3 x PCIe (Option) 2 x RX/TX (Ser1/3), 1 x SATA eMMC 1 x SDIO, 1 x SPDIF 2 x SPI, 2 x UART (Ser0/2) 2 x USB 2.0 Port (One OTG) 1 x WDT
电源信息	5V	5V	12V - 24V	3V - 5.25V - Operates Directly from Single Level Lithium Ion Cells, or Fixed 3.3V or 5V Power Supplies
工作温度	-40°C - 85°C (-40°F - 185°F)	-40°C - 85°C (-40°F - 185°F)	Optional Commercial Temp.: 0°C - 85°C (32°F - 185°F) Industrial Temp.: -40°C - 85°C (-40°F - 185°F)	Optional Commercial Temp.: 0°C - 60°C (32°F - 140°F) Industrial Temp.: -40°C - 85°C (-40°F - 185°F)
存储温度	-40°C - 85°C (-40°F - 185°F)	-40°C - 85°C (-40°F - 185°F)	-40°C - 85°C (-40°F - 185°F)	-40°C - 85°C (-40°F - 185°F)
尺寸 (长 x 宽)	50 x 82 mm	82 x 50 mm	82 x 50 mm	82 x 50 mm
重量	0.06 kg	0.06 kg	0.06 kg	0.06 kg
认证	CE, FCC, Class B	CE, FCC, Class B	CE, FCC Class B	CE, FCC Class B
软件支持	Android 11	Linux Debian 11, Andriod 11	Android 9.0, Yocto 2.5	Android 4.4, Yocto 2.1



型号	OSM-3568	OSM-IMX8MM
芯片组	Rockchip RK3568	NXP iMX8M Mini
处理器	NXP iMX8M Mini Quad-core Cortex-A55	NXP iMX8M Mini Quad-core Cortex-A5
软件支持	Yocto (Linux)/ Android	Yocto (Linux)/ Android
系统内存	2GB	2GB
存储	16GB eMMC 5.1	8GB eMMC 5.1
I/O	1 x Audio Output 1 x BT, 1 x eDP, 2 x GbE LAN port 1 x HDMI, 1 x MIPI DSI, 2 x USB 2.0 1 x USB 3.0, 1 x USB 3.0 OTG, 1 x Wifi 802.11 a/b/g/n/ac	1 x A-MIC, 16 x GPIO, 4 x I²C 1 x JTAG, 1 x MIPI DSI, 1 x PCIe 2.1 3 x SAI, 2 x SDIO, 1 x SPDIF 1 x SPI, 4 x UART, 2 x USB 2.0 Type B
电源信息	5V	5V
工作温度	Consumer: 0°C - 70°C (32°F - 158°F) Industrial: -20°C - 85°C (-4°F - 185°F)	Consumer: 0°C - 70°C (32°F - 158°F) Industrial: -20°C - 85°C (-4°F - 185°F)
尺寸	45 x 45 mm (Size-L)	45 x 45 mm (Size-L)
认证	CE, FCC Class B	CE, FCC Class B



型号	AIB-NVAO	AIB-NIAO	AIB-NW01
处理器	Jetson AGX Orin 32GB Jetson AGX Orin 64GB	Jetson AGX Orin 32GB Jetson AGX Orin 64GB	Nvidia Jetson Orin Nano/ NX
AI性能	64GB-275 TOPS 32GB-200 TOPS	64GB-275 TOPS 32GB-200 TOPS	Nano 4GB: 20 TOPS Nano 8GB: 40 TOPS NX 8GB: 70 TOPS NX 16GB: 100TOPS
系统内存	32GB/ 64GB	32GB/ 64GB	Nano: 4GB/ 8GB NX: 8GB/ 16GB
存储	64GB eMMC 5.1	64GB eMMC 5.1	128GB SSD
扩展	1 x M.2 M Key 1 x mPCIe 1 x Nano SIM Slot	1 x M.2 B Key 1 x M.2 M Key 1 x MicroSD Card Slot 2 x mPCIe 4 x Nano SIM Slot	1 x M.2 B Key 1 x M.2 E Key 1 x MicroSIM
外部/I/O连接器	4 x 10/100/1000 RJ45 Powered LAN 5 x CAN FD 2 x GMSL2 8 x GPIO (4 x In, 4 x Out) 1 x HDMI 2.0 TypeA 1 x M.2 M Key 1 x mPCIe 1 x Nano SIM Slot 1 x Power Key 1 x Recovery Key 1 x Reset Key 6 x RS-232/422/485 Debug 3 x SYNC I/O (SYNC_IN/SYNC_OUT/SYNC_PPS) 2 x USB3.0 TypeA	5 x 10/100/1000 RJ45 Powered LAN 2 x CAN FD 16 x GPIO (8 x In, 8 x Out) 1 x HDMI 2.0 (TypeA) 1 x M.2 B Key 1 x M.2 M Key 1 x MicroSD Card Slot 2 x mPCIe 4 x Nano SIM Slot 1 x Power Key 1 x Recovery Key 6 x RS-232/422/485 Debug 4 x SYNC I/O (SYNC_IN/SYNC_OUT/SYNC_PPS) 1 x USB 2.0 Type C 4 x USB 3.0 Type A	2 x 10/100/1000 RJ45 LAN 1 x DC Phoenix 1 x HDMI 2.0 Type A 1 x M.2 B Key 1 x M.2 E Key 1 x MicroSIM 1 x Micro USB OTG 1 x Power LED 1 x Reset 2 x RS-232/485 DB9 (Jumper) 4 x USB 3.0 Type A
防护	IP5X (Default), IP65 (Optional)	IP5X	N/A
电源信息	DC 9V - 36V	DC 12V - 48V	DC 10V - 24V
工作温度	-25°C - 70°C (-13°F - 158°F)	-20°C - 60°C (-4°F - 140°F)	-10°C - 60°C (14°F - 140°F)
存储温度	-40°C - 80°C (-40°F - 176°F)	-40°C - 80°C (-40°F - 176°F)	-40°C - 80°C (-40°F - 176°F)
尺寸 (长 x 宽 x 高)	276 x 214 x 71 mm	226 x 144.5 x 70 mm	196 x 125 x 66.1 mm
重量	4.3 kg	2.3 kg	1.41 kg
认证	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
软件支持	Ubuntu Jetpack Above 5	Ubuntu Jetpack Above 5	Ubuntu 20.04, Jetpack Above 5

# 紧凑型系统



型号	EPC-RPU	EPC-EHL/ EPC-EHL-8COM/ 8USB/ 4LAN	EPC-WHL	EPC-TGU
主板	ECM-RPL	ECM-EHL	ECM-WHL	ECM-TGU
处理器	13th Gen Core™ i7/i5/i3 BGA Processor	Intel® ATOM® Processor x6413E Processor	8th Generation Intel® Core™ i7/i5/i3/ Celeron® Processor	11th Generation Intel® Core™ i7/i5/i3/ Celeron® Processor
系统内存	1 x 262P SO-DIMM Socket (Capacity Max. up to 32GB DDR5 4800)	1 x 260-Pin SO-DIMM Socket, Max. up to 32GB DDR4 3200MHz	2 x 260-Pin DDR4 2400MHz SO-DIMM Socket up to 64GB	1 x 260-Pin SO-DIMM Socket, Max. up to 32GB DDR4 3200MHz
扩展	1 x M.2 Key-B 2242/3042/3052 w/SIM Slot 1 x M.2 Key-M 2280 (PCIe Gen 4x4) 1 x M.2 Key-E 2230 (CNVi)	1 x M.2 (Key-B, 2242/3042, w/ SIM Slot) 1 x M.2 (Key-E, 2230)	1 x M.2 (Key-B, 2242/3042, w/ SIM Slot) 1 x M.2 (Key-E, 2230, CNVi)	1 x M.2 (Key-M, 2242) 1 x M.2 (Key-M, 2242/3042/3052, w/ SIM Slot) 1 x M.2 (Key-E, 2230)
存储	1 x 2.5" Drive Bay (7mm) 1 x M.2 Key-B 2242 SSD (SATA3) 1 x M.2 Key-M 2242/2280 NVMe (PCIe Gen 4x4)	1 x 2.5" Drive Bay (7mm) 1 x M.2 (Key-B, 2242)	1 x 2.5" Drive Bay (7 mm) 1 x M.2 (Key-B, 2242)	1 x 2.5" Drive Bay (7 mm) 1 x M.2 (Key-M, 2242, NVMe) 1 x M.2 (Key-B, 2242)
USB	3 x USB 2.0, 3 x USB 3.2 Gen2 (Type A) 1 x USB 3.2 Gen 2 (Type C)	2 x USB 3.1, 2 x USB2.0 2 x USB 3.1, 6 x USB2.0 (EPC-EHL-8USB)	4 x USB 3.1	4 x USB 3.1 Gen.2 2 x USB 2.0
串口	2 x RS232	8 x RS232 (EPC-EHL-8COM) 4 x RS232 (EPC-EHL-8USB) 2 x RS232 (EPC-EHL-4LAN)	1 x RS232 (Factory Option)	2 x RS232/422/485 (BIOS)
其它	6 x Antenna Mounting with Dust Protection Cover	USB/ LAN 2 x Antenna Mounting with Dust Protection Cover (EPC-EHL) 4 x Antenna Mounting with Dust Protection Cover (EPC-EHL-8COM/ 8USB/ 4LAN)	2 x Antenna Mounting with Dust Protection Cover	2 x Antenna Mounting with Dust Protection Cover
显示芯片组	Intel® Iris® Xe Graphics Eligible	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® UHD Graphics 620 (i7/i5/i3) Intel® UHD Graphics 610 (Celeron)	Intel® Iris® Xe Graphics (i7/i5) Intel® Iris® UHD Graphics (i3/ Celeron)
分辨率	1 x HDMI 2.0b: 4096 x 2160 @ 60Hz 1 x DP 2.1: 7680 x 4320 @ 60Hz 1 x DP (Type C): 5120 x 3200 @ 60Hz	1 x HDMI 2.0b: 4096 x 2160 @ 60Hz 1 x DP 1.4a: 4096 x 2160 @ 60Hz	2 x HDMI 1.4: 4096 x 2160 @ 24Hz	DP++ 1.4a: 4096 x 2304 @ 60Hz
音频芯片组	Realtek Audio Code	Realtek Audio Code	Realtek Audio Code	Realtek Audio Code
音频接口	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Combo Jack (Mic-in + Line-out)
以太网芯片组	2 x Intel® I226LM	2 x Intel® I226-IT 4 x Intel® I226-IT (EPC-EHL-4LAN)	1 x Intel® I211AT 1 x Intel® I219LM	2 x Intel® I226-LM
以太网接口	2 x RJ45	2 x RJ45, 4 x RJ45 (EPC-EHL-4LAN)	2 x RJ45	2 x RJ45
电源连接器	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack
电源信息	+12V/ +24V	+12V/ +24V	+12V	+12V
ACPI	Single Power ATX Support S0, S3, S4, S5; ACPI 5.0 Compliant	Single Power ATX Support S0, S3, S4, S5; ACPI 5.0 Compliant	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
电源模式	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)
适配器	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W Adapter (12V @ 10A Adapter) AC-DC Adapter	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W Adapter (12V @ 10A Adapter) AC-DC Adapter
结构	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal
尺寸 (长 x 宽 x 高)	6.97" x 4.84" x 2.17" (177 x 123 x 55 mm)	6.97" x 4.84" x 2.2" (177 x 123 x 65mm)	6.97" x 4.84" x 2.17" (177 x 123 x 55mm)	6.97" x 4.84" x 2.17" (177 x 123 x 55mm)
工作温度	With Extended Temp. Peripherals w/ Air Flow: -10°C ~ 50°C (32°F ~ 122°F) with Air Flow	With Extended Temp. Peripherals w/ Air Flow: -40°C ~ 70°C (-40°F ~ 158°F) (EPC-EHL/ EPC-EHL-8COM) -40°C ~ 60°C (-40°F ~ 140°F) (EPC-EHL-8USB) -10°C ~ 40°C (14°F ~ 104°F) (EPC-EHL-4LAN)	With Extended Temp. Peripherals w/ Air Flow: -10°C ~ 40°C (14°F ~ 104°F)	With Extended Temp. Peripherals w/ Air Flow: -10°C ~ 50°C (32°F ~ 122°F) with air flow
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B

型号	EPS-RPS	EPS-ADS	ACS10-TGU
主板	EBM-ADS	EBM-ADS	ECM-TGUC
处理器	Intel® Core™ i9-13900TE, i7-13700TE, i5-13500TE, i3-13100TE	Intel® Core™ i9-12900TE, i7-12700TE, i5-12500TE, i3-12100TE Intel® Pentium G7400TE, Intel® Celeron G6900TE	Intel® Core™ i5-1135G7 Intel® Core™ i3-1115G4
系统芯片	Intel® H610E Express Chipset Intel® Q670E Express Chipset	Intel® H610E Express Chipset Intel® Q670E Express Chipset	N/A
系统内存	2 DIMM Dual Channel DDR5 4800MHz up to 64GB	2 DIMM Dual Channel DDR5 4800MHz up to 64GB	1 x 260-Pin SO-DIMM Socket, up to 32GB DDR4 3200MHz
扩展	1 x mPCIe (Default) 1 x M.2 Key-B 2242/3042/3052 Support SATA3/ PCIeIII x1/ USB 2.0/ USB 3.2 Gen.1 and Internal Nano SIM Slot1 1 x M.2 Key-E 2230 PCIeIII x1/ USB 2.0 for Wi-Fi & BT Modules	1 x mPCIe (Default) 1 x M.2 Key-B 2242/3042/3052 Support SATA3/ PCIeIII x1/ USB 2.0/ USB 3.2 Gen.1 and Internal Nano SIM Slot1 1 x M.2 Key-E 2230 PCIeIII x1/ USB 2.0 for Wi-Fi & BT Modules	1 x M.2 Key-B 2242 (PCIe, USB 2.0) 1 x M.2 Key-B 2242/3052 with 1 x SIM Slot (SATA, USB3.2, USB 2.0)
存储	1 x 2.5" Drive Bay 1 x M.2 Key-M 2242/2280, Support PCIe Gen IV x 4 (NVMe SSD), RAID 0/1 (O670 Only) 1 x M.2 Key-B 2242, Support SATA (Share with Expansion Slot)	1 x 2.5" Drive Bay 1 x M.2 Key-M 2242/2280, Support PCIe Gen IV x 4 (NVMe SSD), RAID 0/1 (O670 Only) 1 x M.2 Key-B 2242, Support SATA (Share with Expansion Slot)	1 x M.2 Key-B 2242 (SATA3) 1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4)
USB	2 x USB 2.0, 6 x USB 3.2	2 x USB 2.0, 6 x USB 3.2	3 x USB 3.2 Gen.2 3 x USB 2.0
串口	2 x RS-232 4 x RS-232/422/485	2 x RS-232 4 x RS-232/422/485	1 x RS-232/422/485 1 x RS-232
显示芯片组	Intel® 13th Generation CPU Integrated	Intel® 12th Generation CPU Integrated	Intel® Iris® Xe Graphics (i5-1135G7) Intel® UHD Graphics for 11th Gen Intel® Processors (i3-1115G4)
分辨率	HDMI 2.0b: 4096 x 2304 @ 60Hz DP++ 1.4: 4096 x 2304 @ 60Hz	HDMI 2.0b: 4096 x 2304 @ 60Hz DP++ 1.4: 4096 x 2304 @ 60Hz	DP++ 1.4: 4096 x 2304 @ 60Hz
音频芯片组	Realtek Audio Code	Realtek Audio Code	Realtek Audio Code
音频接口	1 x Mic-in 1 x Line-out	1 x Mic-in 1 x Line-out	1 x Mic-in 1 x Line-out
以太网芯片组	1 x Intel® I219-LM 1 x Intel® I226-LM	1 x Intel® I219-LM 1 x Intel® I226-LM	1 x Intel® I219LM 1 x Intel® I225-V
以太网接口	2 x RJ45	2 x RJ45	2 x RJ45
电源连接器	5-Pin Terminal Block	5-Pin Terminal Block	Lockable DC Jack
电源信息	DC in Typical 12V/ 24V, Wide Voltage	DC in Typical 12V/ 24V, Wide Voltage	+12V
ACPI	Single Power ATX Support S0, S1, S3, S4, S5; ACPI 5.0 Compliant	Single Power ATX Support S0, S1, S3, S4, S5; ACPI 5.0 Compliant	Single Power ATX Support S0, S1, S3, S4, S5; ACPI 5.0 Compliant
电源模式	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)
尺寸 (长 x 宽 x 高)	215.8 x 202.5 x 75 mm	215.8 x 202.5 x 75 mm	188 x 120 x 48 mm
工作温度	With Extended Temperature Peripherals w/ Air Flow: -10°C ~ 55°C (14°F ~ 131°F)	With Extended Temperature Peripherals w/ Air Flow: -10°C ~ 55°C (14°F ~ 131°F)	0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s Air Flow
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class A, UKCA



计算机系统

## 紧凑型系统



型号	NUC-RPU	NUC-TGU	NUC-EHL	NUC-APL	NUC-APL-Slim
<b>处理器</b>	13th Generation Intel® Core™ i7/i5/i3 BGA Processor	11th Generation Intel® Core™ i7/i5/i3 BGA Processor	Intel® Celeron® J6412 Processor	Intel® Celeron® J3455/ N3350 Processor	Intel® Celeron® J3455/ N3350 Processor
<b>系统内存</b>	1 x 262-Pin SO-DIMM Socket Max. up to 32GB DDR5 4800MHz	1 x 260-pin SODIMM socket Max. up to 64GB DDR4 3200 MT/s	1 x 260-pin SODIMM Socket Max. up to 64GB DDR4 3200 MT/s	1 x 204-pin SO-DIMM Socket, Max. up to 8GB DDR3L 1866MHz	1 x 204-pin SO-DIMM Socket, Max. up to 8GB DDR3L 1866MHz
<b>扩展</b>	1 x M.2 Key-E 2230 (PCIe, USB 2.0) 1 x M.2 Key-B 2242/3042/3052 with Internal SIM Slot (PCIe, SATA, USB 3.0, USB 2.0) 1 x M.2 Key-M 2280 (PCIe4x4)	1 x M.2 (Key-M, 2280) 1 x M.2 (Key-B, 2242/3024/3052, w/SIM Slot) 1 x M.2 (Key-E 2230)	1 x M.2 (Key-B, 2242/3042, w/ SIM Slot) 1 x M.2 (Key-B, 2242) 1 x M.2 (Key-E, 2230)	1 x M.2 (Key-B, 2242/3042, w/ SIM Slot) 1 x M.2 (Key-E, 2230)	1 x M.2 (Key-B, 2242/3042) 1 x M.2 (Key-E, 2230)
<b>存储</b>	1 x M.2 Key-M 2280 NVMe 1 x M.2 Key-B 2242 SSD	1 x M.2 (Key-M, 2280, NVMe) 1 x M.2 (Key-B, 2242)	1 x M.2 (Key-B, 2242)	1 x 2.5" Drive Bay (7 mm) 1 x M.2 (Key-B, 2242)	1 x M.2 (Key-B, 2242)
<b>USB</b>	4 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen1 2 x USB 2.0	4 x USB 3.2 Gen.2, 2 x USB 2.0	4 x USB 3.2 Gen.2, 2 x USB 2.0	4 x USB 3.0 (5Gbps)	4 x USB 3.0 (5Gbps)
<b>串口</b>	2 x RS-232/422/485 (BIOS)	2 x RS-232/422/485 (BIOS)	2 x RS-232/422/485 (BIOS)	1 x RS-232/422/485 (BIOS & Cable) 1 x RS-232	1 x RS-232/422/485 (BIOS & Cable)
<b>其它</b>	1 x Power on/off Button w/ LED 1 x LED for Storage, WLAN, WWLAN 1 x Kensington Lock	1 x Power on/off Button w/ LED 1 x LED for Storage/ WLAN/ WWLAN 4 x Antenna Mounting with Dust Cover 1 x Kensington Lock	1 x Power on/off Button w/ LED 1 x Storage LED 4 x Antenna Mounting with Dust Cover 1 x Kensington Lock 1 x Micro SD Slot	1 x Power on/off Button w/ LED 1 x Storage LED 2 x Antenna Mounting with Dust Cover	1 x Power on/off Button w/ LED 1 x Storage LED 2 x Antenna Mounting with Dust Cover
<b>显示</b>	4 x HDMI 2.0b: Max. Resolution 4096 x 2304 @ 60Hz	2 x HDMI 2.0b: Max. Resolution 4096 x 2304 @ 60Hz	2 x HDMI 2.0b: 4096 x 2304 @ 60Hz	2 x HDMI 1.4b: Max. Resolution 3840 x 2160 @ 30Hz 1 x DP (DVI-I/ VGA Factory Option): Max. Resolution 1920 x 1080 @ 60Hz	2 x HDMI 1.4b: Max. Resolution 3840 x 2160 @ 30Hz *1 x DP/ DVI-I/ VGA (Factory Option): Max. Resolution 1920 x 1080 @ 60Hz *DP/ DVI-I/ VGA is an Option which will Replace the Location of COM
<b>音频</b>	Realtek Audio Code 1 x Mic-in, 1 x Line-out	Realtek Audio Code 1 x Mic-in, 1 x Line-out	Realtek Audio code 1 x Mic-in, 1 x Line-out	Realtek Audio Code 1 x Audio Jack (Mic-in + Line-out Combo)	Realtek Audio Code 1 x Audio Jack (Mic-in + Line-out Combo)
<b>以太网</b>	1 x Intel I226V, 1 x Intel I219LM	1 x Intel I225LM, 1 x Intel I219LM	2 x Intel I225LM	2 x Realtek RTL8111E Gigabit	2 x Realtek RTL8111E Gigabit
<b>电源连接器</b>	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack
<b>电源信息</b>	+12V	+12V	+12V	+12V	+12V
<b>电源模式</b>	ATX	ATX	ATX	ATX	ATX
<b>适配器</b>	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W Adapter (12V @ 10A)	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W Adapter (12V @ 10A)	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W Adapter (12V @ 10A)	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A)	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A)
<b>工作温度</b>	With Extended Temperature Peripherals w/ Air Flow: 0°C ~ 50°C (32°F ~ 122°F)	With Extended Temperature Peripherals w/ Air Flow: 0°C ~ 50°C (32°F ~ 122°F)	With Extended Temperature Peripherals w/ Air Flow: 0°C ~ 60°C (14°F ~ 122°F)	With Extended Temperature Peripherals w/ Air Flow: -10°C ~ 60°C (14°F ~ 140°F)	With Extended Temperature Peripherals w/ Air Flow: -10°C ~ 50°C (14°F ~ 122°F)
<b>结构</b>	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal
<b>安装工具包</b>	Stand/ Din Rail/ VESA	Stand/ Din Rail/ VESA	Stand/ Din Rail/ VESA	VESA/ Din Rail	VESA/ Din Rail
<b>尺寸 (长 x 宽 x 高)</b>	6.69" x 4.92" x 1.42" (170 x 125 x 36 mm)	6.69" x 4.92" x 1.42" (170 x 125 x 36 mm)	6.69" x 4.92" x 1.42" (170 x 125 x 36 mm)	4.53" x 4.37" x 2.28" (115 x 111 x 58 mm)	4.53" x 4.37" x 1.77" (115 x 111 x 45 mm)
<b>重量</b>	1 kg	1 kg	1 kg	0.85 kg	0.72 kg
<b>认证</b>	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class A	CE, FCC Class A



计算机系统

## ARM-Based系统



型号	AIB-3566	AIB-3588	AIB-IMX6	AIB-IMX6A	AIB-IMX8M
<b>处理器</b>	Rockchip RK3566 Quad-core ARM Cortex-A55	Rockchip RK3588 Quad-core ARM Cortex-A76 and Quad-core ARM Cortex-A55	NXP i.MX6 Cortex-A9 Dual Lite/ Quad 1GHz CPU	NXP i.MX6 Cortex-A9 Quad 1GHz CPU	NXP i.MX8M Cortex-A53 Quad Core 1.3GHz; Cortex-M4 Core Processor
<b>系统内存</b>	2GB DDR	4GB LPDDR4/ LPDDR4x/ LPDDR5	1GB LPDDR3	1GB LPDDR3	2GB LPDDR4
<b>存储</b>	32 GB eMMC 5.1	64GB eMMC 5.1	4GB eMMC	8GB eMMC	16GB eMMC
<b>扩展</b>	1 x 10/100/1000 RJ45 Powered LAN 1 x BT4.1 1 x HDMI 2.0 In 1 x HDMI 2.0 Out 1 x IR or 1 x RS 232 1 x USB 2.0 Type B OTG 1 x USB 3.0 Type A 1 x WIFI 802.11 a/b/g/n/ac 1 x Micro SIM BT 5.0 (Optional) 3G/4G 1 x mPCIe +1 x Micro SIM (Optional)	2 x 10/100/1000 RJ45 Powered LAN 1 x CAN 4 x GPIO 1 x HDMI 2.0 in 2 x HDMI 2.0 out 1 x IR 4 x LED (HDD, WIFI, Power, NET) 1 x Micro SD Slot 1 x Micro SIM Slot 1 x Power Key 1 x USB 3.0 Type A 3 x USB 2.0 Type C 1 x Recovery Key 3 x RS-232/RS485 2 x WIFI Antenna 1 x GTIOT (Optional) 1 x PoE (Optional)	1 x 10/100/1000 RJ45 Powered LAN 1 x HDMI 2.0 out 1 x Micro SD Slot 1 x USB 2.0 Type A 1 x Jack for I/R Extender Cable, Co-design (Optional)	2 x 10/100/1000 RJ45 Powered LAN 1 x HDMI 2.0 out 1 x Micro SD Slot 1 x Mini USB 3 x RS-232/422/485 DB9 1 x RS-232/422/485 Debug 2 x USB 2.0 Type A 1 x Jack for I/R Extender Cable, Co-design (Optional) 1 x with on Board I/R Sensor (Optional)	2 x 10/100/1000 RJ45 1 x HDMI 2.0 out 1 x Headphone Jack 1 x Micro SD Slot 1 x USB 3.0 Type A 1 x USB 3.0 Type C
<b>电源信息</b>	DC 12V/ 1.5A	DC 12V	DC 12V ~ 24V, 2.5mm DC Jack, Typical 19V Input With Brownout Detection or Powered LAN (Optional)	DC 12V ~ 24V, 2.5mm DC Jack, Typical 19V Input With Brownout Detection	DC 12V ~ 24V, Terminal Block
<b>工作温度</b>	-20°C ~ 70°C (-4°F ~ 158°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 70°C (-4°F ~ 158°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-40°C ~ 85°C (-40°F ~ 185°F)
<b>存储温度</b>	-40°C ~ 70°C (-40°F ~ 158°F)	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 70°C (-40°F ~ 158°F)	-20°C ~ 70°C (-4°F ~ 158°F)	-40°C ~ 85°C (-40°F ~ 185°F)
<b>尺寸 (长 x 宽 x 高)</b>	106 x 100 x 25 mm	160 x 125.5 x 48 mm	153 x 107.8 x 30 mm	186 x 121.35 x 37 mm	177 x 112 x 53.5 mm
<b>重量</b>	2.58 kg	0.46 kg	1.5 kg	1.0 kg	2.0 kg
<b>认证</b>	CE, FCC Class A	CE, FCC Class A	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
<b>软件支持</b>	Android 11.0 Linux Debian 10	Android 13 Linux Debian 11.0	Android 4.4 or 6.0 Yocto 2.1	Yocto 1.7 / 2.5	Android 9.0 Linux Yocto 2.5



计算机系统

## 模组化系统



型号	EMS-MTU	EMS-EHL	EMS-TGL	EMS-SKLU
处理器	Intel® MTL-U/H Core™ Ultra 7 Intel® MTL-U/H Core™ Ultra 5	Intel® Celeron® J6413 Intel® ATOM® x6425E	Intel® Core™ i7-1185GRE/ i5-1145GRE/ i3-1115GRE (WT) Intel® Core™ i7-1185G7E/ i5-1145G7E/ i3-1115G4E (ST)	Intel® Core™ i7-6600U/ i5-6300U/ i3-6100U & Celeron® 3955U
系统内存	2 x 262-Pin SODIMM DDR5 5600MHz up to 64GB	1 x 260-Pin SODIMM DDR4 3200MHz up to 32GB	2 x 260-Pin SODIMM DDR4 3200MHz up to 64GB	1 x 260-Pin SO-DIMM DDR4 2133MHz up to 16 GB
扩展	1 x Avalue IET Module Interface 1 x M.2 Key-B 2242/3042/3052 (SATA3/ PCIe Gen4 x1/ USB3.2 Gen2) w/ SIM Slot (Internal) 1 x M.2 Key-E 2230 for Wi-Fi & BT Module (USB 2.0/ PCIe Gen4 x1)	1 x IET Interface (1x DDI, 2x PCIe x2, 3x USB 2.0 1 x Line-out (R/L), 1 x SMBus, LPC) 1 x M.2 Key-B 2242/3042/3052 (SATA3/ PCIe III/ USB3.2 Gen.1) w/ SIM Slot 1 x M.2 Key-E 2230 for Wi-Fi & BT Module (USB2.0/ PCIe III)	1 x Avalue 80-Pin IET Module Interface (1 x DDI, 2 x PCIe x2, 3 x USB2.0, 1 x Line-out (R/L), 1 x SMBus, LPC) 1 x M.2 Key-B 2242/3042/3052 (SATA/ PCIe/ USB3.1) w/ SIM Slot 1 x M.2 Key-E 2230 for Wi-Fi & BT Module	1 x Avalue 80-Pin IET Module Interface (1 x DP, 4 x PCIe x1, 3 x USB, 1 x LPC, 1 x Line-out (R/L), 1 x SMBus) 1 x M.2 Key B 2242/ 3042 (SATA/ PCIe/ USB3.0) w/ SIM Slot 1 x Mini PCIe (PCIe/ USB 2.0) w/ SIM Slot
存储	1 x M.2 Key-M 2280 (1 x PCIe Gen4x4), Support NVMe 1 x M.2 Key-B 2242 (SATA), Share with Expansion Slot	1 x M.2 Key-B 2242/2280 (SATA) 1 x M.2 Key-B 2242 (SATA), Share with Expansion Slot	1 x M.2 Key-M 2242/2280 (PCIe Gen. III x 4) 1 x M.2 Key-B 2242 (SATA), Share with Expansion Slot	1 x 2.5" Drive Bay 1 x M.2 Key-B 2242 (SATA), Share with Expansion Slot
USB	2 x USB2.0, 4 x USB 3.2 Gen.1	2 x USB 3.2 Gen.2, 2 x USB 3.2 Gen.1	2 x USB 3.1 Gen.2, 2 x USB 3.1 Gen.1	4 x USB 3.0
串口	2 x COM RS232/422/485 (BIOS)	2 x COM RS232/422/485 (BIOS)	2 x RS-232/422/485 (BIOS)	2 x RS-232/422/485 (BIOS + DIP Switch)
其它	1 x SIM Card Slot (internal) 8 x Antenna Mounting w/ Dust Cover	1 x SIM Card Slot (internal) 8 x Antenna Mounting w/ Dust Cover	1 x SIM Card Slot (Internal) 8 x Antenna Mounting w/ Dust Cover	2 x SIM Card Slot, 1 x SMBus, 2 x PS2/KB & MS 2 x Antenna Mounting w/ Dust Cover
DIO	1 x 8-bit GPIO (DB9)	1 x 8-bit GPIO (DB9), Optional	1 x 8-bit GPIO (DB9)	1 x 12-bit GPIO
显示芯片组	Intel® Xe LPG Graphics	Intel® UHD Graphics	Intel® Iris® Xe Graphics (Core i7/i5) Intel® UHD Graphics (Core i3)	Intel® HD Graphics 520/510
显示分辨率	1 x DP++ 1.4: 4096 x 2304 @ 60Hz 2 x HDMI 2.0b: 4096 x 2304 @ 60Hz	1 x DP++ 1.4: 4096 x 2304 @ 60Hz 1 x HDMI 2.0b: 4096 x 2304 @ 60Hz	1 x DP++ 1.4: 4096 x 2304 @ 60Hz 1 x HDMI 2.0b: 4096 x 2304 @ 60Hz	1 x DP+1.2: 4096 x 2304 @ 60Hz
音频芯片组	Realtek Audio Code	Realtek Audio Code	Realtek Audio Code	Realtek Audio Code
音频接口	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-in, Line-out
以太网芯片组	2 x Intel® I226-IT	2 x Intel® I226-IT	1 x Intel® I225-LM, 1 x Intel® I219-LM	1 x Intel® I211-AT, 1 x Intel® I219-LM
以太网接口	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45
电源连接器	3-Pin Terminal Block	3-Pin Terminal Block	3-Pin Terminal Block	3-Pin Terminal Block
电源信息	Typical +12/ 24Vdc (+9V ~ +36Vdc)	Typical +12/ 24 Vdc (+9V ~ +36Vdc)	Typical +12/ 24 Vdc (+9V ~ +36Vdc)	Typical +12/ 24Vdc (+9V ~ +32Vdc)
ACPI	Single Power ATX Support S0, S3, S4, S5; ACPI 5.0 Compliant	Single Power ATX Support S0, S3, S4, S5; ACPI 5.0 Compliant	Single Power ATX Support S0, S3, S4, S5; ACPI 5.0 Compliant	Single Power ATX Support S0, S3, S4, S5; ACPI 5.0 Compliant
电源模式	AT/ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)
适配器	Optional AC-DC Adapter (60W/120W)	Optional AC-DC Adapter (60W)	Optional AC-DC Adapter (60W)	Optional AC-DC Adapter (60W)
结构	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal
尺寸 (长 x 宽 x 高)	240 x 150 x 49 mm (Standard) 240 x 150 x 75 mm (w/ IET Module)	240 x 150 x 48 mm (Standard) 240 x 150 x 69 mm (w/ IET Module)	240 x 150 x 48 mm (Standard) 240 x 150 x 69 mm (w/ IET Module)	240 x 151.5 x 45 mm (Standard) 240 x 151.5 x 60 mm (w/ IET Module)
工作温度	-40°C ~ 70°C (w/SSD) Ambient w/ Air Flow, MTL-U Sku -40°C ~ 50°C (w/SSD) Ambient w/ Air Flow, MTL-H Sku	-40°C ~ 70°C (w/SSD) Ambient w/ Air Flow, WT Sku 0°C ~ 70°C (w/SSD) Ambient w/ Air Flow, ST Sku	-40°C ~ 70°C (w/SSD) Ambient w/ Air Flow, WT Sku 0°C ~ 70°C (w/SSD) Ambient w/ Air Flow, ST Sku	-20°C ~ 60°C (w/SSD) Ambient w/ Air Flow
认证	CE Class B, FCC Class B, UKCA	CE, FCC Class B, LVD 62368-1	CE, FCC Class B	CE, FCC Class A



计算机系统

## 可扩展系统



型号	SLP-WHG
处理器	Onboard 8th Gen Intel® Core™ i7-8665UE/ i5-8365UE/ i3-8145UE & Celeron® 4305UE BGA Processor
系统芯片	N/A
系统内存	2 x 260-pin SODIMM Socket Max. up to 32GB DDR4 2133MT/s
扩展	1 x PCIe x1 Slot 1 x PCIe x4 Slot 1 x M.2 Key-E 2230 for Wi-Fi & BT Module
存储	1 x M.2 Key-B 3042/2242/2260/2280, Support SSD 1 x 2.5" Drive Bay (Internal)
USB	3 x USB3.1 Gen1 1 x USB Type C w/o ALT Mode
串口	4 x RS-232
其它	1 x Power on/off Switch with LED 1 x Reset Button 1 x HDD LED 1 x Internal USB 2.0 (Type-A) 1 x PS/2 Keyboard/ Mouse
显示	3 x HDMI 1.4b: 3840 x 2160 @ 30Hz
音频	N/A
以太网	1 x Intel® I219-LM 1 x Intel® I210-IT
电源连接器	Phoenix Connector
电源信息	DC in +12V ~ +24V, Wide Voltage
电源模式	AT/ ATX (ATX is Default Setting)
适配器	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 180W Adapter (24V @ 7.5A)
工作温度	-20~50°C (-4°F ~ 122°F) w/ WT SSD, Ambient w/ 0.5m/s Air Flow
储存温度	-40°C ~ 75°C (-40°F ~ 167°F)
结构	Aluminum + Metal
安装工具包	N/A
尺寸 (长 x 宽 x 高)	217 x 115 x 220 mm
重量	2.6 kg



### TSN 解决方案

- Industrial Internet of Things (IIoT)
- Application on non-RT (IT Use) & RT OS (OT Use)
- Quad Port TSN Gigabit Ethernet Switch
- OS Support : Linux Ubuntu

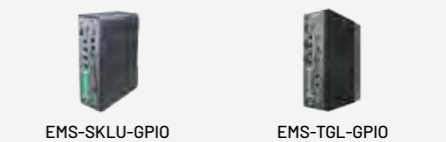
Challenge	Solution
TSN Supported	Integrated & Qualified 3rd Party TSN Network Card
Protocol Support	IEEE 802.1AS-Rev/ AS IEEE 1588V2
Cost Issue	Low Cost of Implementation



### EtherCAT 解决方案

- 工厂自动化
- 吞吐量提高20-30%
- 超过传统的非ECAT解决方案
- 不间断生产工厂
- 机器人生产

Challenge	Solution
PCIe Expansion	Barebone System w/PCIe Expansion
Low Cycle Time	Less than 250 μs
High Cost Issue	Low Cost of Implementation



### 机器视觉解决方案

- 工厂自动化
- 支持4 PoE智能摄像头
- 工厂自动化
- 支持4 PoE智能摄像头

Challenge	Solution
Wide Voltage	9-36V
Harsh Environment	Fanless and Rugged Design
Power Requirement	44-bit GPIO, Supports 1.5KV Isolation



计算机系统

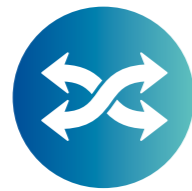
## 准系统

安勤提供多种不同类型的桌面机箱, 可根据客户的具体规格定制产品, 包括主板, 电源模块, 散热器, 扩展卡和配件。我们大多数机器内是使用Mini-ITX和Micro-ATX主板。我们还提供内部的AC/DC电源, 具有标准的ATX电源输出接口。客户可根据需求来选择。

### 基本专业能力和关键属性



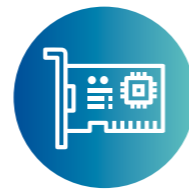
按订单配置



灵活的客户服务



多重组合



PCIe扩展



计算机系统

## 机架式系统

安勤可提供多种规格的机箱, 包括机架式安装系列, 如1U, 2U, 4U等, 供客户选择。我们提供不同的功能。例如, 5.25”托架允许用户安装CD, DVD以及全长卡等, 即使在较短的深度下, 也能满足性能要求的应用。因为配置订购流程是完全可定制的, 所以它创建的产品是为客户量身定制的。



医疗



智慧工厂



办公



数据中心



Supplier	Desktop Chassis				Medical Box	
型号	BMX-T550	BMX-T540	BMX-T820	ACS40-ADP	MAB-T660	MAB-T600
M/B 外型尺寸	Up to 6.7"(W)x 6.7"(D) Mini ITX Compliant MB	Up to 6.7"(W)x 6.7"(D) Mini ITX Compliant MB	Up to 6.7"(W)x 6.7"(D) Mini ITX Compliant MB	Up to 6.7"(W)x 6.7"(D) Thin Mini ITX compliant MB	Up to 6.7"(W)x 6.7"(D) Mini ITX Compliant MB	Up to 9.6"(W)x 9.6"(D) Micro ATX and Mini ITX Compliant MB
颜色	Black	Black	Black	Black	White	White
尺寸 (宽 x 深 x 高)	280 x 75 x 285 mm	372 x 307 x 107 mm	215 x 210 x 55mm	210 x 206 x 55 mm	315 x 272 x 88 mm	330.2 x 341 x 160 mm
硬盘架	Internal 2 x 2.5"	Internal 2 x 2.5"	Internal 1 x 2.5"	Internal 1 x 2.5"	Internal 1 x 2.5"	Internal 2 x 3.5"
扩展槽	1 Full Height Via Riser Card	2 Full Height Via Riser Card	N/A	N/A	2 Half Height Via Riser Card	4 full height expansion
系统冷却	60 x 60 x 25mm Fan	70 x 70 x 15mm Fan	40 x 40 x 15 mm	40 x 40 x 20mm fan	91 x 87.5 x 64.6mm Fan	70 x 70 x 15mm fan (TBD)
前I/O	2 x USB Ports	2 x USB Ports	2 x USB Ports	2 x USB Ports	2 x USB Ports	2 x USB Ports
按钮	System Power on/off System Reset	System Power on/off	System Power on/off	System Power on/off System Reset	System Power on/off	System Power on/off
LED	Power LED HDD LED	Power LED HDD LED LAN LED	Power LED HDD LED	Power LED HDD LED	Power LED	Power LED
安全	Depend on M/B	Depend on M/B	Depend on M/B	Depend on M/B	Depend on M/B	Depend on M/B
CPU冷却器的限制	Depend on CPU TDP	Depend on CPU TDP	Depend on CPU TDP	Depend on CPU TDP	Depend on CPU TDP	Depend on CPU TDP
电源信息	220W 1U Flex ATX Power Supply	400W ATX Power Supply	Typical 12/24Vdc (+9V ~ +36V)	500W ATX Power Supply (Medical Grade)	250W ATX Power Supply (Medical Grade)	500W ATX Power Supply (Medical Grade)
工作温度	0 ~ 50°C (32°F ~ 122°F) w/ SSD, Ambient w/ 0.5m/s Air Flow	0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s Air Flow	0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s Air Flow	0°C ~ 50°C (32°F ~ 104°F), Ambient w 0.5m/s Air Flow	0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s Air Flow	0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s Air Flow
毛重	3.5 kg	6.4 kg	TBD	TBD	TBD	7 kg

Supplier	1U Racmount Chassis	2U Racmount Chassis	4U Racmount Chassis
型号	BCC-CASE-R1U0-01R	BCC-CASE-R2U0-01R	BCC-CASE-R4U0-02R
M/B 外型尺寸	Up to 12"(W)x 9.6"(D) ATX Compliant MB	Up to 12"(W)x 9.6"(D) ATX Compliant MB	Up to 12"(W)x 9.6"(D) ATX Compliant MB
颜色	Black	Black	Black
尺寸 (宽 x 深 x 高)	381 x 482.6 x 44.4 mm	504 x 482.6 x 88.9 mm	504 x 482.6 x 88.9 mm
硬盘架	2 x 3.5" Drive Bay	2 x 5.25" + 4 x 3.5" Drive Bay	2 x 5.25" + 4 x 3.5" Drive Bay
扩展槽	1 Full Height Via Riser Card	7 Low Profile	7 Full Profile
系统冷却	2 x 40 x 28 mm Fans	2 x 80 x 25 mm Fans 1 x 97 mm Blower (Rear)	2 x 80 x 25 mm Fans 1 x 97 mm Blower (Rear)
前I/O	2 x USB Ports	2 x USB Ports	2 x USB Ports
按钮	System Power on/off System Reset	System Power on/off System Reset	System Power on/off System Reset
LED	Power LED HDD LED LAN 1 LAN 2	Power Status LAN Activity Drive Activity	Power Status LAN Activity
安全	Depend on M/B	Depend on M/B	Depend on M/B
CPU冷却器的限制	Depend on CPU TDP	Depend on CPU TDP	Depend on CPU TDP
电源信息	315W 1U Flex 100-240Vac (Included)	500W PS2 100-240Vac Power Supply	500W PS2 100-240Vac Power Supply
工作温度	0°C ~ 35°C (32°F ~ 95°F), (w/HDD), Ambient w/ Air Flow	0°C ~ 35°C (32°F ~ 95°F), (w/HDD), Ambient w/ Air Flow	0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s Air Flow
毛重	7.5 kg	18 kg	20 kg



计算机系统

## 车载 / 船舶专用系统



公共交通

公共服务

物流

重型移动设备



型号	VMS-EHLR	VMS-ADPS	VMS-CFS	VMS-CFS-PSE	VMS-APL	EMS-TGL-Marine	EMS-SKLU-Marine
处理器	Intel® Atom® x6425E	Intel® Core™ i7-1255UL/ i5-1235UL/ i3-1215UL & Celeron® 7305L	Intel® Core™ i7-9700TE/ i7-8700T/ i5-9500TE/ i5-8500T/ i3-9100TE/ i3-8100T & Pentium® G5400T & Celeron® G4900T	Intel® Core™ i7-9700TE/ i7-8700T/ i5-9500TE/ i5-8500T/ i3-9100TE/ i3-8100T & Pentium® G5400T & Celeron® G4900T	Intel® Pentium® N4200 Intel® Celeron® N3350/ J3455 Intel Atom® x7-E3950/ x5-E3940/ x5-E3930	Intel® Core™ i7-1185GRE/ i5-1145GRE/ i3-1115GRE	Intel® Core™ i7-6600U/ i5-6300U/ i3-6100U & Celeron® 3955U
系统内存	1 x 260-Pin SODIMM DDR4 3200MHz up to 32GB	2 x 262-Pin SODIMM DDR5 4800MHz Up to 64GB	2x 260-Pin SODIMM DDR4 2400/2666MHz up to 64GB	2x 260-Pin SODIMM DDR4 2400/2666MHz up to 64GB	1 x 204-Pin SODIMM DDR3L 1866MHz up to 8GB	2 x 260-Pin SODIMM DDR4 3200MHz up to 64GB	1 x 260-Pin SO-DIMM DDR4 2133MHz up to 16 GB
扩展	1 x M.2 Key-B 2242/ 3042/ 3052 (PCIe/ USB 3.1 Gen.2), w/ SIM Slot1 (External) 1 x M.2 Key-E 2230 (PCIe/ USB 2.0) 1 x mPCIe (PCIe/ USB 2.0), w/ SIM Slot2 (External)	1 x M.2 Key-B 3042/3052 (PCIe/ USB 3.2), w/ SIM Slot2 (External) 1 x M.2 Key-E 2230 (PCIe/ USB 2.0) 1 x Full Size Mini PCIe (PCIe/ USB 2.0) w/ SIM Slot2 (External)	1 x Avalue 80-Pin IET Interface 1 x mPCIe (PCIe/ USB 2.0), w/ SIM Slot1 (external) 1 x M.2 Key-E 2230 (PCIe/ USB 2.0) 2 x M.2 Key-B 2242/ 3042/ 2280 (PCIe/ USB 3.1/ SATA), w/ SIM Slot2,3 (External) 1 x CANBus Module Interface	1 x mPCIe (PCIe/ USB 2.0), w/ SIM Slot1 (external) 1 x M.2 Key-E 2230 (PCIe/ USB 2.0) 2 x M.2 Key-B 2242/ 3042/ 2280 (PCIe/ USB 3.1/ SATA), w/ SIM Slot2,3 (external) 1 x CANBus Module Interface	1 x Avalue 80-Pin IET Interface 2 x mPCIe (PCIe/ USB2.0), w/ SIM Slot (External) 1 x CANBus Module Interface	1 x M.2 Key-B 2242/3042/3052 (SATA/ PCIe/ USB3.1) w/ SIM Slot 1 x M.2 Key-E 2230 for Wi-Fi & BT Module (CNVi)	1 x M.2 Key-B 2242/ 3042 (SATA/ PCIe/ USB 3.0) w/ SIM Slot 1 x Mini PCIe (PCIe/ USB 2.0) w/ SIM Slot
存储	1 x 2.5" Drive Bay (SATA III) 1 x M.2 Key-B 2242 (SATA III)	2 x 2.5" Drive Bay (SATA III) 1 x M.2 Key-M 2280 (PCIe4)	2 x 2.5" Drive Bay (SATA III) 2 x M.2 Key-B 2242/2280 (SATA III)	2 x 2.5" Drive Bay (SATA III) 2 x M.2 Key-B 2242/2280 (SATA III)	1 x 2.5" Drive Bay (SATA III) 1 x M.2 Key-B 2242 (SATA III) 1 x SD (3.0)	1 x M.2 Key-M 2242/2280 (PCIe Gen. III x 4) 1 x M.2 Key-B 2242 (SATA), share with Expansion Slot	1 x 2.5" Drive Bay 1 x M.2 Key-B 2242 (SATA), Share with Expansion Slot
USB	2 x USB 3.2 Gen.2 1 x USB 2.0 (M12 A-coded)	2 x USB 2.0 2 x USB 3.2 Gen.2	6 x USB 3.1	6 x USB 3.1 2 x USB 2.0	4 x USB 3.0	2 x USB 3.2 Gen.2 2 x USB 3.2 Gen.1 2 x USB 2.0	4 x USB 3.0 2 x USB 2.0
串口	2 x RS-232/422/385 (BIOS)	1 x RS-232/422/485 (Jumper + DIP Switch) 2 x RS-232/422/485 (Jumper + DIP Switch)	1 x RS232 2 x RS-232/422/485 (BIOS)	1 x RS232 2 x RS-232/422/485 (BIOS)	2 x RS-232/422/485 (Jumper)	2 x RS-232/422/485 (BIOS) 4 x RS-232/422/485 (BIOS), w/ 2.5KV Isolation	2 x RS-232/422/485 (Jumper) 4 x RS-232/422/485 (BIOS), w/ 2.5KV Isolation
其它	2 x SIM Card Slot (External) 7 x Antenna Mounting w/ Dust Cover 1 x CAN 2.0B (DB9), Optional	2 x SIM Card Slot (External) 8 x Antenna Mounting w/ Dust Cover	3 x SIM Card Slot (external) 5 x Antenna Mounting w/ Dust Cover	3 x SIM Card Slot (External) 5 x Antenna Mounting w/ Dust Cover	2 x SIM Card Slot (External) 5 x Antenna Mounting w/ Dust Cover	1 x SIM Card Slot (internal) 8 x Antenna Mounting w/ Dust Cover	2 x SIM Card Slot, 1 x SMBus 2 x PS2/ KB & MS 2 x Antenna Mounting w/ Dust Cover
DIO	1 x 8-Bit GPIO (DB9), w/ 2.5KV Isolation	1 x 10-bits GPIO	1 x 8-Bit GPIO (DB9), w/ 1.5KV Isolation	1 x 8-Bit GPIO (DB9), w/ 1.5KV Isolation	1 x 8-Bit GPIO (DB9)	1 x 8-bit GPIO (DB9)	1 x 12-bit GPIO
显示芯片组	Intel® UHD Graphics	Intel® Iris® Xe Graphics (i7-1255UL/ i5-1235UL) Intel® UHD Graphics (i3-1215UL/ Celeron® 7305L)	Intel® UHD Graphics 630/ 610	Intel® UHD Graphics 630/610	Intel® HD Graphics 505/500	Intel® Iris® Xe Graphics (Core i7/i5) Intel® UHD Graphics (Core i3)	Intel® HD Graphics 520/ 510
显示分辨率	1 x DP++ 1.4: 4096x2304 @ 60Hz 1 x HDMI 2.0 : 4096 x 2304 @ 60Hz 1 x VGA: 1920 x 1080 @ 60Hz (Optional)	2 x DP++ 1.4: 4096x2304 @ 60Hz 2 x HDMI 2.0: 4096 x 2304 @ 60Hz	1 x DP 1.2: 4096 x 2160 @ 60Hz w/HDR 2 x HDMI 1.4: 4096 x 2160 @ 30Hz 1 x LVDS: 1920 x 1200 @ 60Hz	1 x DP 1.2: 4096 x 2160 @ 60Hz w/HDR 2 x HDMI 1.4: 4096 x 2160 @ 30Hz 1 x LVDS: 1920 x 1200 @ 60Hz	1 x DP: 4096 x 2160 @ 60Hz 1 x LVDS: 1920 x 1200 @ 60Hz	1 x DP++ 1.4: 4096 x 2304 @ 60Hz 1 x HDMI 2.0b: 4096 x 2304 @ 60Hz	1 x DP+1.2: 4096 x 2304 @ 60Hz
音频接口	Mic-in, Line-out, Line-in (DB15)	1 x Mic-in, 1 x Line-out	2 x Mic-in, 2 x Line-out	2 x Mic-in, 2 x Line-out	2 x Mic-in, 2 x Line-out	Mic-in, Line-out	Mic-in, Line-in and Line-out
以太网芯片组	2 x Intel® I210-IT	4 x Intel® I226IT	1 x Intel® I211-AT 1 x Intel® I219-LM	1 x Intel® I211-AT 1 x Intel® I219-LM 4 x Intel® WG82574L	2 x Intel® I211-AT	1 x Intel® I225-LM 1 x Intel® I219-LM	2 x Intel® I211-AT
以太网接口	2 x M12, X-coded	4 x RJ-45 (PoE for Option)	2 x RJ45; 4 x Port RJ45/ M12, Supports 802.3af PoE (Optional)	2 x RJ45 (LAN) 4 x RJ45/ M12 (PoE), Supports 802.3af PoE	2 x RJ45	2 x RJ45	2 x RJ45
电源信息	Typical 24Vdc (+9V ~ +36V), w/ Isolation	Typical 12/ 24/ 48 Vdc (+9 ~ 60V)	Typical 12/ 24Vdc (+9V ~ +36V)	Typical 12/ 24Vdc (+9V ~ +36V)	Typical 12/ 24Vdc (+9V ~ +36V)	Typical 12/ 24Vdc (+9V ~ +36V), w/ Isolation	Typical 12/ 24Vdc (+9V ~ +36V), w/ Isolation
电源模式	AT/ ATX (AT Default), w/ Ignition Control and Power Management	AT/ ATX (AT Default), w/ Ignition Control and Power Management	AT/ ATX (AT Default), w/ Ignition Control and Power Management	AT/ ATX (AT Default), w/ Ignition Control and Power Management	AT/ ATX (AT Default), w/ Ignition Control and Power Management	AT/ ATX (ATX is Default Setting)	AT/ATX (ATX is The Default Setting)
尺寸 (长 x 宽 x 高)	240 x 150 x 55 mm	239.4 x 160 x 55 mm	240 x 210 x 110 mm	240 x 210 x 110 mm	239 x 186 x 62 mm	240 x 150 x 69 mm	240 x 151.5 x 75 mm
工作温度	-40°C ~ 70°C (w/SSD) Ambient w/ Air Flow. Follow EN50155, Class OT4	Standard System: -40°C ~ 70°C (-40°F ~ 158°F) with 0.5 m/S Air Flow System with PoE: -40°C ~ 60°C (-40°F ~ 140°F) with 0.5 m/S Air Flow	-40°C ~ 70°C (w/SSD) Ambient w/ Air Flow	-40°C ~ 60°C (w/SSD) Ambient w/ Air Flow	(w/SSD) Ambient w/ Air Flow N4200/ N3350: -20°C ~ 70°C E3950/ E3940/ E3930: -40°C ~ 70°C	-40°C ~ 60°C (w/SSD) Ambient w/ Air Flow	-20°C ~ 60°C (w/SSD), Ambient w/ Air Flow
认证	CE, FCC Class A, EN50155, EN50121, EN45545, IP50 Rating	CE, FCC Class A, E24 Mark, ISO7637-2, IP50 Rating	CE, FCC Class A, E13 Mark, ISO7637-2, IP50 Rating	CE, FCC Class A, E13 Mark, ISO7637-2, IP50 Rating	CE, FCC Class B, E13 Mark, ISO7637-2, IP50 Rating	CE, FCC Class A, IEC 60945, IP50 Rating	CE, FCC Class A, IEC60945, IP50 Rating

## 交通系列产品亮点

### 应用程序层



工业级显示器

电子墨水

加固平板电脑

平板电脑

加固Box PC

交通系统

### 核心设备



### 软件层

REINITY Sentinel 2

远程管理设备

REINITY ARTEMIS

定位系统

操作系统

API/SDK

车辆电源管理

点火控制

安勤的HPC系列产品具有高速度处理数据和执行复杂计算的能力。

HPC系列是计算产品的下一个时代,它带来了闪电般的快速、实时分析和极高的可靠性能。它针对AI、5G、IoT、ML(机器学习)、边缘计算、医疗精密计算和其他需要实时、更快性能和高可靠性的应用进行了优化。



### 解决方案的时间

在现有服务器机架、机柜或空间有限的系统机箱内进行无痛升级



### 支持IPMI2.0

内置板载BMC/IPMI技术,具有实时系统监控功能,并提供预防性维护,以最大限度地减少系统停机时间和现场服务成本



### 全集成系统

经过充分测试的系统。现成的系统可供客户直接部署,加快上市时间。



型号	HPM-ERSUA	HPM-ERSDE	HPM-SIEUA	HPM-SRSUA	HPM-SRSDE	HPM-621DE	HPM-621UA	HPM-246UA	
处理器	Intel LGA4677 Socket Supports 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)	Dual Intel LGA4677 Sockets Support 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W Each)	AMD SP6 Socket Supports 4th Generation AMD EPYC Processor (Max. TDP at 225W)	Intel LGA4677 Socket Supports 4th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)	Dual Intel LGA4677 Sockets Support 4th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W each)	Dual Intel FCLGA3647 Sockets Support 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W each)	Intel FCLGA3647 Socket Supports 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W)	Intel® LGA1151 Socket Supports 8th/ 9th Gen. Core i7/i5/i3/ Pentium/ Celeron/ Xeon E Processors (Max. TDP at 95W)	
系统芯片	Intel® C741 Chipset	Intel® C741 Chipset	N/A	Intel® C741 Chipset	Intel® C741 Chipset	Intel® C621 Chipset	Intel® C621 Chipset	Intel® C246 Chipset	
系统内存	6 x DDR5 5600MHz RDIMM up to 1.5TB	12 x DDR5 5600MHz RDIMM up to 3TB	6 x DDR5 4800/ 4400MHz RDIMM up to 1.5TB	6 x DDR5 4800/ 4400MHz RDIMM up to 1.5TB	12 x DDR5 4800/ 4400MHz RDIMM up to 3TB	12 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 1.5TB	6 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 768GB	4 x DDR4 2666MHz ECC and Non-ECC DIMM Support up to 128GB (ECC Memory Supported by Specific CPU SKUs)	
扩展	4 x PCIe Gen5 x16 Slots and 3 x PCIe Gen5 x4 Slots Slot 1, PCIe 5.0 x16 Slot 2, PCIe 5.0 x4 Slot 3, PCIe 5.0 x16 Slot 4, PCIe 5.0 x4 Slot 5, PCIe 5.0 x16 Slot 6, PCIe 5.0 x4 Slot 7, PCIe 5.0 x16 (Slot 7 is the Slot Closest to CPU)	7 x PCIe Gen5 x16 Slots Slot 1, PCIe 5.0 x16 from CPU2 Slot 2, PCIe 5.0 x16 from CPU1 Slot 3, PCIe 5.0 x16 from CPU2 Slot 4, PCIe 5.0 x16 from CPU1 Slot 5, PCIe 5.0 x16 from CPU2 Slot 6, PCIe 5.0 x16 from CPU1 Slot 7, PCIe 5.0 x16 from CPU2 (Slot 7 is the Slot Closest to CPU)	3 x PCIe Gen5 x16 Slots and 4 x PCIe Gen5 x8 Slots Slot 1, PCIe 5.0 x8 Slot 2, PCIe 5.0 x16 Slot 3, PCIe 5.0 x8 Slot 4, PCIe 5.0 x16 Slot 5, PCIe 5.0 x8 Slot 6, PCIe 5.0 x16 Slot 7, PCIe 5.0 x8 (Slot 7 is the Slot Closest to CPU)	4 x PCIe Gen5 x16 Slots and 3 x PCIe Gen5 x4 Slots Slot 1, PCIe 5.0 x16 Slot 2, PCIe 5.0 x4 Slot 3, PCIe 5.0 x16 Slot 4, PCIe 5.0 x4 Slot 5, PCIe 5.0 x16 Slot 6, PCIe 5.0 x4 Slot 7, PCIe 5.0 x16 (Slot 7 is the Slot Closest to CPU)	7 x PCIe Gen5 x16 Slots Slot 1, PCIe 5.0 x16 from CPU2 Slot 2, PCIe 5.0 x16 from CPU1 Slot 3, PCIe 5.0 x16 from CPU2 Slot 4, PCIe 5.0 x16 from CPU1 Slot 5, PCIe 5.0 x16 from CPU2 Slot 6, PCIe 5.0 x16 from CPU1 Slot 7, PCIe 5.0 x16 from CPU2 (Slot 7 is The Slot Closest to CPU)	4 x PCIe Gen3 x16 Slots 2 x PCIe Gen3 x8 Slots 1 x PCI 3.0 Slot Slot 1, PCIe 3.0 x16 from CPU1 Slot 2, PCI 3.0 Slot 3, PCIe 3.0 x16 from CPU1 Slot 4, PCIe 3.0 x16 from CPU2 Slot 5, PCIe 3.0 x16 from CPU2 Slot 6, PCIe 3.0 x8 from CPU1 Slot 7, PCIe 3.0 x8 from CPU1 (Slot 7 is the Slot Closest to CPU)	1 x PCI 3.0 Slot, 3 x PCIe Gen3 x16 Slots or 6 x PCIe Gen3 x8 Slots Slot 1, PCI 3.0 Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 2 is Used) Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 4 is Used) Slot 6, PCIe 3.0 x8 Slot 7, PCIe 3.0 x16 (Slot 7 is the Slot Closest to CPU, x16 will Switch to x8 Automatically when Slot 6 is Used)	1 x PCIe Gen3 x16 Slot, 1 x PCIe Gen2 x8 Slot, 1 x PCIe Gen3 x4 Slot, 1 x PCIe Gen3 x1 Slot 1 x PCI 3.0 Slot Slot 1, PCI 3.0 Slot 2, PCIe Gen 3.0 x 16 Slot 3, PCIe Gen 3.0 x 8 Slot 4, PCIe Gen 3.0 x 4 Slot 5, PCIe Gen 3.0 x 1 (Slot 5 is the Slot Closest to CPU)	
显示	AST 2600 BMC Controller	AST 2600 BMC Controller	AST 2600 BMC Controller	AST 2600 BMC Controller	AST 2600 BMC Controller	AST 2500 BMC Controller	AST 2500 BMC Controller	Intel® 8/ 9th Generation CPU Integrated AST 2500 BMC Controller	
分辨率	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	3 x DP++ ports DP: 4096 x 2304 @ 60Hz HDMI : 4096 x 2160 @ 30Hz 1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp	
以太网	1 x Intel® I210AT Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet	1 x Intel® I210AT Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet	1 x Intel® I210AT Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet	1 x Intel® I210AT Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet	1 x Intel® I210AT Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet	1 x Intel® I210AT Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet	4 x Intel® I210AT Giga-bit Ethernet	4 x Intel® I210AT Giga-bit Ethernet	7 x Intel® I210AT Giga-bit Ethernet
USB/STAT/串口/网口	10/5/2/5	12/5/2/5	4/4/2/5	10/5/2/5	12/5/2/5	8/10/2/4	8/9/2/4	8/4/2/7	
电源信息	1 x Std. 24 Pin ATX Connector 3 x 8 Pin SSI 12V Connectors	1 x Std. 24 Pin ATX Connector 3 x 8 Pin SSI 12V Connectors	1 x Std. 24 Pin ATX Connector 3 x 8 Pin SSI 12V Connectors	1 x Std. 24 Pin ATX Connector 3 x 8 Pin SSI 12V Connectors	1 x Std. 24 Pin ATX Connector 3 x 8 Pin SSI 12V Connectors	1 x Std. 24 Pin ATX Connector 2 x 8 Pin SSI 12V Connectors	1 x Std. 24 Pin ATX Connector 1 x 8 Pin SSI 12V Connector	1 x Std. 24 pin ATX Connector 1 x 8 Pin SSI 12V Connector	
IPMI	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0	
工作温度	0 ~ 55°C (32 ~ 131°F) to Support up to 250W TDP CPU 0 ~ 45°C (32 ~ 113°F) to Support up to 270W TDP CPU	0 ~ 50°C (32 ~ 122°F) to Support up to 250W TDP CPU 0 ~ 40°C (32 ~ 104°F) to Support up to 270W TDP CPU	0 ~ 60°C (32 ~ 140°F) (without Intel X550) 0 ~ 55°C (32 ~ 131°F) (with Intel X550)	0 ~ 60°C (32 ~ 140°F) to Support up to 250W TDP CPU 0 ~ 50°C (32 ~ 122°F) to Support up to 270W TDP CPU	0 ~ 60°C (32 ~ 140°F) to Support up to 250W TDP CPU 0 ~ 50°C (32 ~ 122°F) to Support up to 270W TDP CPU	0 ~ 50°C (32 ~ 122°F) to Support up to 250W TDP CPU 0 ~ 40°C (32 ~ 104°F) to Support up to 270W TDP CPU	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F)
尺寸 (长 x 宽)	12" x 9.6" (304.8 x 243.84 mm) PCB Thickness is 2.54 mm	12" x 16.452" (304.8 x 417.88 mm) PCB Thickness is 2.86 mm	12" x 9.6" (304.8 x 243.84 mm) PCB Thickness is 2.0 mm	12" x 9.6" (304.8 x 243.84 mm) PCB Thickness is 2.54 mm	12" x 9.6" (304.8 x 243.84 mm) PCB Thickness is 2.86 mm	12" x 13" (304.8 x 330.2 mm) PCB Thickness is 2.0 mm	12" x 9.6" (304.8 x 243.84 mm) PCB Thickness is 2.0 mm	12" x 9.6" (304.8 x 243.84 mm) PCB Thickness is 2.0 mm	
重量	2.62 lbs (1.19 kg)	4.85 lbs (2.2 kg)	2.14 lbs (0.97 kg)	2.62 lbs (1.19 kg)	4.85 lbs (2.2 kg)	3.96 lbs (1.8 kg)	2.14 lbs (0.97 kg)	1.54 lbs (0.7 kg)	



高性能计算机

# 机架式和直立式工作站



型号	HPS-ERSD4A	HPS-ERSDTA	HPS-ERSU4A	HPS-ERSUTA	HPS-SRSD4A	HPS-SRSDTA	HPS-SRSU4A	HPS-SRSUTA	HPS-621U4A	HPS-621UTA	HPS-621D4A	HPS-621DTA	HPS-246U4A	HPS-246UTA	HPS-621U2A
处理器	Dual Intel FCLGA4677 Sockets Support 5th Gen. Intel Xeon Scalable Processors (Max. TDP at 270W Each)		Intel LGA4677 Socket Supports 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)		Dual Intel FCLGA4677 Sockets Support 4th Gen. Intel Xeon Scalable Processors (Max. TDP at 270W Each)		Intel LGA4677 Socket Supports 4th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)		Intel FCLGA3647 Socket Supports 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W)		Dual Intel FCLGA3647 Sockets Support 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W Each)		Intel® LGA1151 Socket Supports 8th/ 9th Generation Core i7/i5/i3/ Pentium/ Celeron/ Xeon E Processors (Max. TDP at 95W)		Intel® FCLGA3647 Socket Supports 1st and 2nd Generation Intel® Xeon Scalable Processors (Max. TDP at 150W)
芯片	Intel® C741 Chipset		Intel® C741 Chipset		Intel® C741 Chipset		Intel® C741 Chipset		Intel® C621 Chipset		Intel® C621 Chipset		Intel® C246 Chipset		Intel® C621 Chipset
内存	12 x DDR5 5600MHz RDIMM up to 3TB		6 x DDR5 5600MHz RDIMM up to 1.5TB		12 x DDR5 4800/ 4400MHz RDIMM up to 3TB		6 x DDR5 4800/ 4400MHz RDIMM up to 1.5TB		6 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 768GB		12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 1.5TB		4 x DDR4 2666MHz ECC and Non-ECC DIMM Support up to 128GB (ECC Memory Supported by Specific CPU SKUs)		6 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 768GB
存储	3 x Front Accessible 2.5" Storage Bays		3 x Front Accessible 2.5" Storage Bays		3 x Front Accessible 2.5" Storage Bays		3 x Front Accessible 2.5" Storage Bays		3 x Front Accessible 2.5" Storage Bays		3 x Front Accessible 2.5" Storage Bays		3 x Front Accessible 2.5" Storage Bays		4 x External 5.25" Storage Bays 2 x Internal 3.5" Storage Bays
IPMI	IPMI 2.0		IPMI 2.0		IPMI 2.0		IPMI 2.0		IPMI 2.0		IPMI 2.0		IPMI 2.0		IPMI 2.0
扩展槽	7 x PCIe Gen5 x16 Slots Slot 1, PCIe 5.0 x16 from 2nd CPU Slot 2, PCIe 5.0 x16 from 1st CPU Slot 3, PCIe 5.0 x16 from 2nd CPU Slot 4, PCIe 5.0 x16 from 1st CPU Slot 5, PCIe 5.0 x16 from 2nd CPU Slot 6, PCIe 5.0 x16 from 1st CPU Slot 7, PCIe 5.0 x16 from 2nd CPU (Slot 7 is the Slot Closest to CPU)		4 x PCIe Gen5 x16 Slots 3 x PCIe Gen5 x4 Slots Slot 1, PCIe 5.0 x16 Slot 2, PCIe 5.0 x4 Slot 3, PCIe 5.0 x16 Slot 4, PCIe 5.0 x4 Slot 5, PCIe 5.0 x16 Slot 6, PCIe 5.0 x4 Slot 7, PCIe 5.0 x16 (Slot 7 is the Slot Closest to CPU)		7 x PCIe Gen5 x16 Slots Slot 1, PCIe 5.0 x16 from 2nd CPU Slot 2, PCIe 5.0 x16 from 1st CPU Slot 3, PCIe 5.0 x16 from 2nd CPU Slot 4, PCIe 5.0 x16 from 1st CPU Slot 5, PCIe 5.0 x16 from 2nd CPU Slot 6, PCIe 5.0 x16 from 1st CPU Slot 7, PCIe 5.0 x16 from 2nd CPU (Slot 7 is the Slot Closest to CPU)		4 x PCIe Gen5 x16 Slots 3 x PCIe Gen5 x4 Slots Slot 1, PCIe 5.0 x16 Slot 2, PCIe 5.0 x4 Slot 3, PCIe 5.0 x16 Slot 4, PCIe 5.0 x4 Slot 5, PCIe 5.0 x16 Slot 6, PCIe 5.0 x4 Slot 7, PCIe 5.0 x16 (Slot 7 is the Slot Closest to CPU)		1 x PCI 3.0 Slot, 3 x PCIe Gen3 x16 Slots or 6 x PCIe Gen3 x8 Slots Slot 1, PCI 3.0 Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 2 is Used) Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 4 is Used) Slot 6, PCIe 3.0 x8 Slot 7, PCIe 3.0 x16 (Slot 7 is the Slot Closest to CPU, x16 will Switch to x8 Automatically when Slot 6 is Used)		4 x PCIe Gen3 x16 Slots, 2 x PCIe Gen3 x8 Slots 1 x PCI 3.0 Slot Slot 1, PCIe 3.0 x16 from CPU1 Slot 2, PCI 3.0 Slot 3, PCIe 3.0 x16 from CPU1 Slot 4, PCIe 3.0 x16 from CPU2 Slot 5, PCIe 3.0 x16 from CPU2 Slot 6, PCIe 3.0 x8 from CPU1 Slot 7, PCIe 3.0 x8 from CPU1 (Slot 7 is the Slot Closest to CPU)		1 x PCIe Gen3 x16 Slot, 1 x PCIe Gen2 x8 Slot 1 x PCIe Gen3 x4 Slot, 1 x PCIe Gen3 x1 Slot 1 x PCI 3.0 slot Slot 1, PCI 3.0 Slot 2, PCIe Gen 3.0 x 16 Slot 3, PCIe Gen 2.0 x 8 Slot 4, PCIe Gen 3.0 x 4 Slot 5, PCIe Gen 3.0 x 1 (Slot 5 is the Slot Closest to CPU)		1 x PCI 3.0 Slot, 3 x PCIe Gen3 x16 Slots or 6 x PCIe Gen3 x8 Slots Slot 1, PCI 3.0 Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 2 is Used) Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 4 is Used) Slot 6, PCIe 3.0 x8 Slot 7, PCIe 3.0 x16 (Slot 7 is the Slot Closest to CPU, x16 will Switch to x8 Automatically when Slot 6 is Used)
网口	5 x RJ45 MGMT Port for Dedicated IPMI Access Only LAN1 Port for 1GbE Shares with IPMI Access LAN2 Port for 2.5GbE LAN3 and 4 Ports for 10GbE		5 x RJ45 MGMT Port for Dedicated IPMI Access Only LAN1 Port for 1GbE Shares with IPMI Access LAN2 Port for 2.5GbE LAN3 and 4 Ports for 10GbE		5 x RJ45 MGMT Port for Dedicated IPMI Access Only LAN1 Port for 1GbE Shares with IPMI Access LAN2 Port for 2.5GbE LAN3 and 4 Ports for 10GbE		5 x RJ45 MGMT Port for Dedicated IPMI Access Only LAN1 Port for 1GbE Shares with IPMI Access LAN2 Port for 2.5GbE LAN3 and 4 ports for 10GbE		4 x RJ45 (LAN1 Shares IPMI Port)		4 x RJ45 (LAN1 Shares IPMI Port)		7 x RJ45 (LAN1 Shares IPMI Port)		4 x RJ45 (LAN1 Shares IPMI Port)
USB	Front: 2 x USB 3.2 Gen1 Ports Rear: 6 x USB 3.2 Gen1 Ports		Front: 2 x USB 3.2 Gen1 Ports Rear: 4 x USB 3.2 Gen1 Ports + 2 x USB 2.0 Type A Ports		Front: 2 x USB 3.2 Gen1 Ports Rear: 6 x USB 3.2 Gen1 Ports		Front: 2 x USB 3.2 Gen1 Ports Rear: 4 x USB 3.2 Gen1 Ports + 2 x USB 2.0 Type A Ports		Front: 2 x USB 3.2 Gen1 Ports Rear: 4 x USB 3.2 Gen1 Ports		Front: 2 x USB 3.2 Gen1 Ports Rear: 4 x USB 3.2 Gen1 Ports		Front: 2 x USB 3.2 Gen1 Ports Rear: 2 x USB 3.2 Gen2 Ports		Front: 2 x USB 2.0 Type A Ports Rear: 4 x USB 3.2 Gen1 Ports
显示	AST 2600 BMC Controller		AST 2600 BMC Controller		AST 2600 BMC Controller		AST 2600 BMC Controller		AST 2500 BMC Controller		AST 2500 BMC Controller		Intel® 8/ 9th Generation CPU Integrated AST 2500 BMC Controller		AST 2500 BMC Controller
分辨率	1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp		1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp		1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp		1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp		1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp		1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp		3 x DP++ Ports, DP: 4096 x 2304 @ 60Hz HDMI : 4096 x 2160 @ 30Hz VGA: 1920 x 1200 @ 60Hz 32bpp		1 x VGA Port VGA: 1920 x 1200 @ 60Hz 32bpp
冷却风扇	1 x 120 x 25mm Front Fan 2 x 80 x 25mm Rear Fans		1 x 120 x 25mm Front Fan 2 x 80 x 25mm Rear Fans		1 x 120 x 25mm Front Fan 2 x 80 x 25mm Rear Fans		1 x 120 x 25mm Front Fan 2 x 80 x 25mm Rear Fans		1 x 120 x 25mm Front Fan 2 x 80 x 25mm Rear Fans		1 x 120 x 25mm Front Fan 2 x 80 x 25mm Rear Fans		2 x 80 x 25mm Rear Fans		4 x 80 x 25mm Middle Fans
电源信息	1 x 1300W PS2 ATX PSU		1 x 1300W PS2 ATX PSU		1 x 1300W PS2 ATX PSU		1 x 1300W PS2 ATX PSU		1 x 1300W PS2 ATX PSU		1 x 1300W PS2 ATX PSU		1 x 500W PS2 ATX PSU		1 x 1U 80plus Gold 500W PSU
工作温度	0 ~ 35°C (32 ~ 95°F)		0°C ~ 35°C (32°F ~ 95°F)		0°C ~ 35°C (32°F ~ 95°F)		0°C ~ 35°C (32°F ~ 95°F)		0 ~ 40°C (32 ~ 104°F)		0°C ~ 40°C (32°F ~ 104°F)		0 ~ 45°C (32 ~ 113°F)		0 ~ 40°C (32 ~ 104°F)
尺寸 (W x H x D)	482.6 x 174.8 x 650 mm with Ear Mount	340 x 488 x 650 mm with External Handles & Pedestal Stand	482.6 x 174.8 x 528 mm with Ear Mount	340 x 488 x 528 mm with External Handles & Pedestal Stand	482.6 x 174.8 x 650 mm with Ear Mount	340 x 488 x 650 mm with External Handles & Pedestal Stand	482.6 x 174.8 x 528 mm with Ear Mount	340 x 488 x 528 mm with External Handles & Pedestal Stand	482.6 x 174.8 x 528 mm with Ear Mount	340 x 488 x 528 mm with External Handles & Pedestal Stand	482.6 x 174.8 x 528 mm with Ear Mount	340 x 488 x 528 mm with External Handles & Pedestal Stand	482.6 x 174.8 x 528 mm with Ear Mount	340 x 488 x 528 mm with External Handles & Pedestal Stand	483 x 88 x 650 mm
外型	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	Tower Chassis	19" 2U Rackmount
操作系统	Windows 10 IoT Enterprise LTSC 2021, Windows 11 Windows Server 2019, Windows Server 2022 Ubuntu 21.1, 22.04 LTS or Later Red Hat Enterprise Linux (RHEL) 8.2 and Later								Windows 10 IoT Enterprise Windows Server 2016 Windows Server 2019						





平板电脑 / 显示器 / 移动端

## 通用平板电脑



型号	SID-10WR2	SID-21WR2	SID-10WR1	SID-15WR1	SID-21WR1	SID-10W04	SID-15W04	SID-21W04
LCD尺寸	10.1"	21.5"	10.1"	15.6"	21.5"	10.1"	15.6"	21.5"
显示器	WXGA	Full HD	WXGA	Full HD	Full HD	WXGA	Full HD	Full HD
分辨率	1280 x 800	1920 x 1080	1280 x 800	1920 x 1080	1920 x 1080	1280 x 800	1920 x 1080	1920 x 1080
像素间距	0.1695 x 0.1695 mm	0.24795 x 0.24795 mm	0.1695 x 0.1695 mm	0.17925 x 0.17925 mm	0.24795 x 0.24795 mm	0.1692 x 0.1692 mm	0.17925 x 0.17925 mm	0.24795 x 0.24795 mm
亮度	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	800	3000	800	800	3000	800	800	3000
视角	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	85 (U), 85 (D), 85 (L), 85 (R)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	85 (U), 85 (D), 85 (L), 85 (R)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	30 ms	30 ms	30 ms	30ms	30ms	30 ms	30 ms	30 ms
背光	LED	LED	LED	LED	LED	LED	LED	LED
触摸屏信息	PCAP	PCAP	PCAP	PCAP	PCAP	PCAP	PCAP	PCAP
透光率	86%	86%	86%	85%	86%	86%	85%	86%
SBC	ACP-RK3568	ACP-RK3568	ACP-RK3288	ACP-RK3288	ACP-RK3288	ACP-APL	ACP-APL	ACP-APL
处理器	Rockchip RK3568 2.0GHz		Rockchip RK3288 1.6GHz			Intel Celeron J3455 1.5GHz		
I/O芯片	Rockchip SoC Integrated		Rockchip SoC Integrated			Intel Celeron Integrated		
内存	2GB DDR4		2GB DDR3L			1 x 204 pin SO-DIMM DDR3L		
存储	32GB eMMC on Board		16GB eMMC on Board			32GB (eMMC) / M.2 3042 SSD		
图像	ARM Mali-G52 GPU Core		ARM Mali-T764 GPU Core			Intel® HD Graphics 500		
HDMI分辨率	HDMI up to 1080p @ 120Hz		HDMI up to 1080p @ 120Hz			HDMI up to 1080p @ 60Hz		
USB	2 x USB 3.0 Type A		2 x USB 2.0 Type A			2 x USB 3.0 Type A		
串口端口	1 x RS-232 DB9		1 x RS-232 DB9			1 x RS-232/485 DB9		
音频接口	1 x Headphone Jack		1 x Headphone Jack			1 x Headphone Jack		
以太网	10/100/1000 RJ45 LAN		10/100/1000 RJ45 LAN			10/100/1000 RJ45 LAN		
WIFI	Wi-Fi 802.11 b/g/n		Wi-Fi 802.11 b/g/n			802.11 a/b/g/n/ac Wireless LAN		
蓝牙	1 x BT 4.0		1 x BT 4.0			1 x BT 5.0		
电源连接器	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack		
电源模式	AT/ ATX(AT is Default Setting)		AT/ ATX(AT is Default Setting)			AT/ ATX(AT is Default Setting)		
适配器	Input: 100 ~ 240 Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)		Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)			Input: 100 ~ 240 Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)		
结构/颜色	Metal, Black		Metal, Black			Metal, Black		
安装工具包	VESA 75 x 75	VESA 100 x 100	VESA 75 x 75	VESA 100 x 100	VESA 100 x 100	VESA 75 x 75	VESA 100 x 100	VESA 100 x 100
尺寸	255.2 x 169.4 x 40.7 mm	509 x 304.8 x 51.3 mm	255.2 x 169.4 x 40.7 mm	391.2 x 239.2 x 48.1 mm	509 x 304.8 x 51.3	258.8 x 182.8 x 49.6 mm	388.8 x 258.8 x 49.6 mm	533.3 x 329.3 x 56.6 mm
重量	1.36 kg	7.2 kg	1.36 kg	3.59 kg	7.2 kg	1.36 kg	3.59 kg	7.2 kg
防护等级	Front IP65		Front IP65			Front IP65		
工作温度	0°C ~ 40°C (32°F ~ 104°F)		0°C ~ 40°C (32°F ~ 104°F)			0°C ~ 40°C (32°F ~ 104°F)		
工作湿度	5% ~ 90% Relative Humidity, Non-condensing		5% ~ 90% Relative Humidity, Non-condensing			5% ~ 90% Relative Humidity, Non-condensing		
认证	CE, FCC Class B		CE, FCC Class B			CE, FCC Class B		
操作系统	Android 11		Linux Debian 9, Android 8.1			Windows 10 IoT, Linux Ubuntu 20.04		



### 给客户带来的益处

- 创新设计 - 亲民价格



### 工业产品优势

- 耐用性 - 长供货期支持





平板电脑 / 显示器 / 移动端

## 通用平板电脑



型号	APC-15WR2	APC-2132	APC-2138	APC-2334
LCD尺寸·显示器	15.6", Full HD	21.5", Full HD	21.5", Full HD	23.8", Full HD
分辨率	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
像素间距	0.17925 mm (H) x 0.17925 mm (V)	0.248mm (H) x 0.248mm (V)	0.248mm (H) x 0.248mm (V)	274.5 um (H) x 274.5 um (V)
亮度	400 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	800	1000	1000	3000
视角	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	8 ms	22 ms	14 ms	16 ms
背光	LED	LED	LED	LED
触摸屏信息	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive
透光率	≥ 87%	≥ 85%	≥ 85%	89%
触摸控制器	USB Touch (ILITEK)	USB Touch (EETI)	USB Touch (ILITEK)	USB Touch (EETI)
SBC	ACP-RK3568A	ARC-SKLU	EMX-TGLC	EMX-KBLUP
处理器	CPU Rockchip RK3568 Quad-core Cortex-A55 up to 2.0GHz	Intel® Core™ i7/i5/i3/ Celeron Processor	Intel® Core™ i5/i3/ Celeron Processor	Intel® Core™ i7/i5/i3/ Celeron Processor
系统芯片	Rockchip	Intel® Skylake U SoC Integrated	Intel® Tigerlake U SoC Integrated	Intel® Kabylake U SoC Integrated
I/O芯片	N/A	EC ITE IT8528E	EC ITE IT8528E	EC ITE IT8528E
系统内存	2GB/ 4GB LPDDR4	1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16GB	2 x 260-pin DDR4 3200MHz SO-DIMM up to 64GB	2 x 260-pin DDR4 2400MHz SO-DIMM Supports up to 32GB
扩展	1 x M.2 3042 B-Key for LTE or SSD	1 x Full Size (Support Half Size, Auto Switch for mSATA, USB, PCIe Signal)	1 x M.2 Type B 3042/3052/2242/2260/2280; 1 x M.2 Key E 2230 Support WiFi Module	1 x M.2 2230 1 x mPCIe with SATA or PCIe x1 mSATA
存储	32GB eMMC 1 x M.2 3042 B-Key	1 x 2.5" SATA3 SSD	1 x 2.5" Drive Bay	1 x 2.5" Drive Bay
USB	2 x USB 3.0	4 x USB 3.0, 2 x USB 2.0 (by IET Module)	3 x USB 3.1 Gen 2; 1 x USB 3.1 Gen 1	4 x USB 3.0
串口端口	1 x RS-232/485 (RJ45 Type)	1 x RS-232/422/485, 1 x RS-232	2 x RS-232/422/485	N/A
显示芯片组	Rockchip	Intel® Skylake SoC Integrated Graphics Supports Dual Display	Intel® Tigerlake SoC Integrated Graphics Supports Dual Display	Intel® Kabylake SoC Integrated Graphics Supports Dual Display
音频	Everest ES8388	Realtek ALC888S Support 5.1-CH	Realtek ALC897	Realtek ALC888S Support 5.1-CH
音频接口	1 x Line-out, 1 x Mic-in, 2 x Speaker	1 x Line-out, 1 x Mic-in (by IET Module)	N/A	1 x Line-out, 1 x Mic-in
以太网	1 x Realtek RTL8211F Gigabit	1 x Intel® I211AT; 1 x Intel® I219LM	1 x Intel® I219LM; 1 x Intel® I225IT	1 x Intel® I211AT; 1 x Intel® I219LM
电源连接器	DC Jack +12 ~ 24V DC in/ Powered LAN	Lockable DC Jack, +12V ~ +26V	Lockable Mini Din 4-pin, +12V ~ +24V	Lockable DC Jack, +12V ~ +24V
电源模式	AT	AT/ ATX	AT/ ATX	AT/ ATX
适配器	N/A	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 90W Adapter (24V @ 3.75A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A Adapter)
结构 (前/后)	White Plastic	Plastic-black	Plastic-black	Plastic-black
尺寸	388.5 x 263 x 31.5 mm	539.6 x 342.6 x 45.5 mm	539.6 x 342.6 x 45.2 mm	592 x 382 x 49.5 mm
重量	2.2 kg	6.3 kg	6.3 kg	7.2 kg
工作温度	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
工作湿度	-10°C ~ 60°C (-14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
操作系统	Android 11	Windows 7, Windows 8.1, Windows 10 IoT, Linux	Windows 10 IoT, Linux	Windows 10 IoT, Linux



型号	FPC-08W29	FPC-10W09	FPC-1736
LCD尺寸	8"	10.1"	17"
显示器	WSVGA	WSVGA	SWGA
分辨率	1024 x 600	1024 x 600	1280 x 1024
像素间距	0.1725 mm (W) x 0.1656 mm (H)	0.2175 mm (W) x 0.2088 mm (H)	0.264 x 0.264
亮度	500 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	700	500	1000
视角	70 (U), 75 (D), 75 (L), 75 (R)	70 (U), 70 (D), 70 (L), 70 (R)	80 (U), 80 (D), 85 (L), 85 (R)
响应时间	20 ms	16 ms	5 ms
背光	LED	LED	LED
触摸屏信息	5-Wire Resistive	5-Wire Resistive	PCAP Multi-touch up to 10 Points (Full Flat Design)
透光率	80 %	80 %	89%
触摸控制器	Onboard USB Touch (PenMount)	Onboard USB Touch (PenMount)	Onboard USB Touch (ILITEK)
SBC	ECM-BYT	ECM-BYT	Mini-ITX H310
处理器	Intel® Atom™ E3845 4-Core 1.91GHz Processor	Intel® Atom™ E3845 4-Core 1.91GHz Processor	8th/9th Generation Intel® Core™ i3/i5/i7 Processors (LGA1151 Socket, Max. TDP at 65W)
系统芯片	Intel® Valleyview SoC	Intel® Valleyview SoC	Intel® H310 Express Chip
I/O芯片	Nuvoton W83627DHG-P	Nuvoton W83627DHG-P	ITE IT8786E-I
系统内存	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8GB	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB	2 x 260-pin DDR4 2133/2400/2666MHz SO-DIMM Socket, up to 64GB Max
扩展	1 x Mini PCIe Supports mSATA	1 x Mini PCIe Supports mSATA	1 x PCIe x4 Slot (Option for 2 x PCI Slot) 1 x M.2 E-key Slot, Type-2230 with PCIe
存储	1 x CompactFlash Type I/II Socket (CF-SATA Optional)	2.5" SSD/ HDD or Type I/II CF Card	1 x M.2 M-key 2242 with SATA
I/O	3 x USB 2.0, 1 x USB 3.0 1 x RS-232/422/485, 1 x RS-232	4 x USB 2.0, 1 x USB 3.0 1 x RS-232/422/485	4 x USB 3.0 4 x RS-232
显示芯片组	Intel® Valleyview SoC Integrated Graphics Supports Dual Display	Intel® Valleyview SoC Integrated Graphics Supports Dual Display	Intel® 8/9th Generation CPU Integrated
分辨率	VGA: Max. Resolution 2560 x 1080 @ 60Hz HDMI: Max. Resolution 1920 x 1200 @ 60Hz	VGA: Max. Resolution 2560 x 1080 @ 60Hz HDMI: Max. Resolution 1920 x 1200 @ 60Hz	VGA: Max. Resolution 2560 x 1080 @ 60Hz HDMI: Max. Resolution 1920 x 1200 @ 60Hz
音频	Realtek ALC888S Support 5.1-CH	Realtek ALC888S Support 5.1-CH	Realtek ALC888S Support 5.1-CH
以太网	2 x Intel® I211AT	2 x Intel® I211AT	1 x Intel® I219-V Gigabit Ethernet, 1 x Intel® I225-V 2.5 Gigabit Ethernet
电源模式	AT/ ATX (ATX is Default Setting), Lockable DC Jack, +12V ~ +26V (12V @ 5A Adapter)	AT/ ATX (ATX is Default Setting), Lockable DC Jack, +12V ~ +26V (12V @ 5A Adapter)	AT/ ATX (ATX is Default Setting), Lockable DC Jack, +12V ~ +24V (19V @ 6.32A Adapter)
结构 (前/后)	Metal, Aluminum + Metal	Metal, Aluminum + Metal	Metal
尺寸	225 x 129 x 43.4 mm	300 x 195 x 56 mm	392.7 x 325.32 x 121.55 mm
重量	1.27 kg	1.50 kg	7.5 kg
工作温度	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 45°C (32°F ~ 113°F)
工作湿度	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 60°C (-4°F ~ 140°F)
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class A, CCC
操作系统	Windows 7, Windows 8.1, Linux, Windows 10 IoT	Windows 7, Windows 8.1, Linux, Windows 10 IoT	Windows 10 IoT, Linux



平板电脑 / 显示器 / 移动端

## 通用平板电脑



平板电脑 / 显示器 / 移动端

## 工业平板电脑



型号	VNS-10WR2
LCD尺寸	10.1"
显示器	WXGA
分辨率	1280 x 800
像素间距	0.1695 (H) x 0.1695 (V) mm
亮度	350 cd/m <sup>2</sup>
对比度	800
视角	85 (U), 85 (D), 85 (L), 85 (R)
响应时间	30 ms
背光	LED
触摸屏信息	PCAP
透光率	86%
触摸控制器	USB Interface
SBC	ACP-RK3568A
处理器	Rockchip RK3568
系统内存	2GB / 4GB LPDDR4
存储	32GB eMMC 1 x M.2 3042 B-Key
USB	2 x USB 3.0 Type A
串口	1 x RS-232/485 (RJ45 Type)
其它	Touch Button for Power/ Brightness/ Volume 1 x 3.5mm Audio Jack, NFC, Cam 2.0 MP LED Indicating Bar
显示芯片组	Rockchip
分辨率	1280 x 800
音频	Everest ES8388
音频接口	1 x Line-out, 1 x Mic-in, 2 x Speaker
以太网	1 x Realtek RTL8211F Gigabit
电源连接器	DC Jack +12 ~ 24V DC in / Powered LAN
电源模式	AT
适配器	N/A
结构	White Plastic w/ Antibacterial
尺寸	270 x 193 x 28 mm
重量	1.1 kg
认证	CE, FCC Class B
操作系统	Android 11, Debian 11



型号	CCD-07WR2	CCD-10WR2
LCD尺寸	7"	10.1"
显示器	WXGA	WXGA
分辨率	1024 x 600	1280 x 800
像素间距	0.1178 x 0.1178 mm	0.1695 x 0.1695 mm
亮度	300 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
对比度	500	800
视角	85 (U), 85 (D), 85 (L), 85 (R)	85 (U), 85 (D), 85 (L), 85 (R)
响应时间	20ms	30 ms
背光	LED	LED
触摸屏信息	PCAP	PCAP
透光率	75%	86%
处理器	Rockchip RK3568 Quad-Core ARM Cortex-A55, up to 2.0GHz	
I/O芯片	Rockchip SoC Integrated	
内存	2GB LPDDR4	
存储	32GB eMMC on Board	
HDMI分辨率	HDMI Up to 1080p @ 30Hz	
USB	2 x USB 3.0 (Type A)	
音频	1 x Headphone Jack, 2 x Speaker	
其它	1 x Camera, 1 x Microphone	
其它	1 x 10/100/1000 RJ45 LAN	
WIFI	802.11 a/b/g/n/ac Built-in	
蓝牙	Bluetooth 5.0 Built-in	
电源连接器	DC Jack, DC 12 ~ 24V	
电源模式	AT	
适配器	Input: 100 ~ 240 Vac / 50 ~ 60Hz Output: 50W Adapter (19V @ 2.1A Adapter)	
结构/颜色	Plastic, White	
安装工具包	VESA 75 x 75	
尺寸	191 x 124 x 33 mm	261 x 181 x 34 mm
重量	580 g	800 g
工作温度	0°C ~ 40°C (32°F ~ 104°F)	
工作湿度	5% ~ 90% Relative Humidity, Non-condensing	
认证	CE, FCC Class B	
操作系统	Linux, Android 11	



型号	BFC-07R1	RPC-15WNX
分辨率	1024 x 800	1920 x 1080
像素间距	0.117 (H) x 0.117 (V)	TBD
亮度	400 cd/m <sup>2</sup>	1500 cd/m <sup>2</sup>
触摸屏信息	Projective Capacitive	N/A
透光率	85 %	N/A
触摸屏信息	USB Touch (SIS)	N/A
处理器	NXP i.MX6 Quad	NXP i.MX6 Cortex-A9 Quad 1GHz
系统内存	1GB LPDDR3	2GB LPDDR3
存储	1 x On Board 4GB eMMC	8G eMMC
外部 I/O连接器	1 x Audio amplifier 1 x HDMI 2.0 Out 1 x Mic-in 1 x Micro SD Slot 1 x RS-232/422/485 Debug 2 x USB 2.0 Type A	1 x LAN 1 x RS485 1 x USB
电源信息	12 ~ 26V DC Input, 2.5mm DC Jack Typical 19V Input With Brownout Detection or Powered LAN (Optional)	24V DC IN 60W by EN50155 PSU
工作温度	-20°C ~ 55°C (-4°F ~ 131°F)	-25°C ~ 70°C (-13°F ~ 158°F)
存储温度	-30°C ~ 70°C (-22°F ~ 158°F)	-40°C ~ 85°C (-40°F ~ 185°F)
尺寸 (长 x 宽 x 高)	184.3 x 124.3 x 30.5 mm	503.6 x 295 x 26.8 mm
重量	1.5 kg	4.24 kg
认证	CE, FCC Class B	CE, FCC Class B
操作系统	Android 6.0	Linux (Ubuntu 14.04 LTS or Later)



## OTC 模块化平板电脑

\* 可根据客户要求调整尺寸

### A 主屏幕

Selection For x86 Panel PC:

- Apollo Lake J3455/ Core I CPU

Selection For ARM Based Panel PC:

- Open Frame with Rockchip RK3288

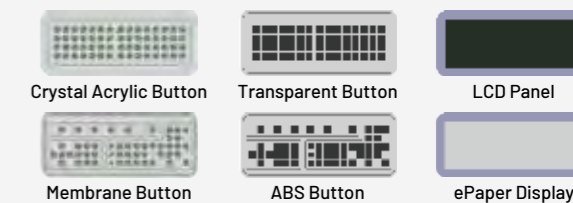
Selection For Touch Monitor:

- Open Frame Monitor (OFM)

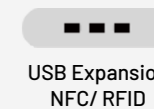
- Industrial Rugged Monitor (ARC)



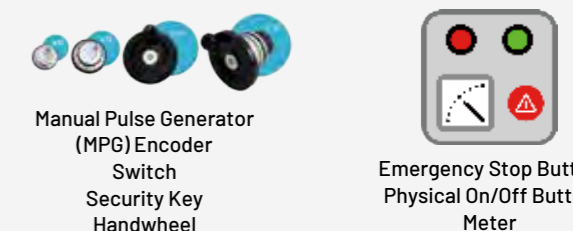
### B D 键盘/ LCD/ E ink/ 按钮



### C 扩展接口/ NFC/ RFID



### E 本机按钮/ MPG编码器



# 不锈钢平板电脑



## 超级防刮面板

SPC系列提供高水平的符合SAA面板的硬质玻璃。它能抵抗钉子、硬币、钥匙和其他锋利金属工具的划痕



## 阳光下可视

SPC采用Avalue光学粘合技术，提供阳光下可视，改善强烈阳光下的视觉效果



## 不锈钢：耐磨损；防油

- 防锈；耐腐蚀性
- 不锈钢
- 耐磨损/耐高温。



## 全IP65/IP69K防水设计

- 防护等级：IP65
- 排水设计
- IP67连接器
- 薄膜按钮



## 宽电压/过电流保护

- 灵活性
- 安全
- 过电流/高峰电压保护



型号	SPC-15W42	SPC-2142	SPC-10W35	SPC-1533-B1	SPC-2133-B1	SPC-15W37
LCD尺寸	15.6", 16:9	21.5", 16:9	10.1", 16:10	15", 4:3	21.5", 16:9	15.6", 16:9
显示器·分辨率	Full HD, 1920 x 1080	Full HD, 1920 x 1080	WXGA, 1280 x 800	XGA, 1024 x 768	Full HD, 1920 x 1080	Full HD, 1920 x 1080
像素间距	179.25um(H) x 179.25um(V)	0.248 x 0.248 mm	0.1695mm(H) x 0.1695mm(V)	0.297 x 0.297 mm	0.248 x 0.248 mm	179.25 um(H) x 179.25 um(V)
亮度	450 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>
对比度	800	3000	800	2000	3000	800
视角	89(U), 89(D), 89(L), 89(R)	89(U), 89(D), 89(L), 89(R)	85(U), 85(D), 85(L), 85(R)	88(U), 88(D), 88(L), 88(R)	89(U), 89(D), 89(L), 89(R)	89(U), 89(D), 89(L), 89(R)
响应时间	13 ms	18 ms	25 ms	16 ms	18 ms	30 ms
背光	LED	LED	LED	LED	LED	LED
触摸屏信息	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points
透光率	89%	89%	88 %	89%	89%	89%
触摸控制器	USB (EETI)	USB (EETI)	EETI	USB (EETI)	USB (EETI)	USB (EETI)
SBC	EMX-RPLP	EMX-RPLP	ECM-EHL3	EMX-APLP	EMX-APLP	EMX-ASLP
处理器	13th Generation Intel® Core™ i3/i5/i7 Processors (LGA1700 Socket)		Onboard Intel® Elkhart Lake Processor	Onboard Intel® Apollo Lake Processor		Onboard Intel® Alder Lake-N Processor
I/O芯片	IT5782VG		IT5571E	ITE IT8528		IT5782VG
系统内存	1 x 262-pin DDR5 4800MHz SO-DIMM		1 x 204-Pin DDR4 3200MHz SO-DIMM Supports up to 32GB (Non-ECC)	2 x 204-pin DDR3L 1600MTs up to 16GB		1 x 262-pin DDR5 4800MHz SO-DIMM Socket Supports up to 16GB Max (Non ECC Only)
扩展	1 x M.2 Key-B 2242/3042/3052 with SIM Card Slot Support SATA3/ PCIe & USB for LTE (4/5G) NVMe 1 x M.2 (Key-E, 2230, PCIe1, USB2.0)		1 x M.2 Type E 2230 Supports WiFi Module 1 x M.2 Type B 3042/2242 1 x M.2 Type M Supports 2260 Slot	1 x Full Size Mini PCI-e Support mSATA (SATA III and mSATA by Auto Switch IC) with 1 x SIM Card Slot 1 x M.2 (2230) A-Key, Support WiFi Module		1 x M.2 (Key-B, 2242/3042/3052, SATAIII, PCIe1, USB 3.2 Gen1 x1 (5Gbps/s)), USB2.0, SIM Slot for LTE Cards, 1 x M.2 (Key-E, 2230, PCIe1, USB 2.0)
存储	1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay		1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay	1 x Full Size Mini PCI-e mSATA, 1 x 2.5" SATA3 Drive Bay		1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay
USB	2 x M12 Connector (USB2.0)		2 x M12 Connector (USB2.0)	2 x M12 Connector (USB2.0)		2 x M12 Connector (USB 2.0)
串口	1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)		1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)	1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)		1 x M12 Connector (RS-232/422/485 by Jumper & BIOS Selection)
显示芯片组	Intel® Iris® Xe Graphics (for Core i5 & i7) Intel® UHD Graphics for 12th Gen Intel® Processors (For Core i3 & Celeron)		Intel® SoC Integrated Graphics	Intel® SoC integrated Graphics		Intel® UHD Graphics
音频	Realtek ALC 888S/897		Realtek ALC 888S	Realtek ALC 888S/897		Realtek ALC 888S/ 897
以太网	1 x M12 Connector (2 x Intel® I226LM 2.5 Gigabit Ethernet)		1 x M2 Connector (2 x Intel® I210AT PCIe Gigabit Ethernet)	1 x M2 Connector (1 x Intel® I211AT PCIe Gigabit Ethernet)		1 x M2 Connector (2 x Intel® I226LM 2.5 Gigabit Ethernet)
电源连接器	1 x M12 DC Jack, +12V ~ 24V		1 x M12 DC Jack, +12V ~ 24V	1 x M12 DC Jack, +12V ~ 26V (Option for Phoenix Connector)		1 x M12 DC Jack, +12 ~ 24V
电源模式	AT/ ATX (ATX is Default Setting)		AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)		AT/ ATX (ATX is Default Setting)
适配器	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A Adapter)		Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (24V @ 2.5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)		Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A Adapter)
结构 (前/后)	Stainless Steel		Stainless Steel	Stainless Steel		Stainless Steel
工作温度	-10°C ~ 50°C (-14°F ~ 122°F)		-10°C ~ 50°C (-14°F ~ 122°F)	-10°C ~ 50°C (-14°F ~ 122°F)		-10°C ~ 50°C (-14°F ~ 122°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)		-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)		-20°C ~ 60°C (-4°F ~ 140°F)
认证	CE, FCC Class A		CE, FCC Class A	CE, FCC Class A		CE, FCC Class A
操作系统	Windows 10 IoT, Windows 11 IoT, Linux		Windows 10 IoT, Windows 11 IoT, Linux	Windows 10 IoT, Linux, Android x86 8.1		Windows 10 IoT, Windows 11 IoT, Linux
防护等级	Full IP66, IP69K		Full IP66, IP69K	Full IP66, IP69K		Full IP66, IP69K
尺寸	TBD	562 x 365.8 x 49 mm	296 x 214 x 49 mm	393 x 315.8 x 49 mm	562 x 365.8 x 49 mm	TBD
重量	5.7 kg	9.4 kg	3 kg	5.7 kg	9.4 kg	5.7 kg



平板电脑 / 显示器 / 移动端

## 加固型平板电脑



型号	ARC-1242	ARC-1542	ARC-21W42
LCD尺寸	12.1", 4:3	15", 4:3	21.5", 16:9
显示器	XGA	XGA	Full HD
分辨率	1024 x 768	1024 x 768	1920 x 1080
像素间距	0.240 mm (H) x 0.240 mm (V)	0.297mm (H) x 0.297mm (V)	247.95 um (H) x 247.95 um (V)
亮度	600 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
对比度	1000	2500	1000
视角	89 (U), 89 (D), 89 (L), 89 (R)	88 (U), 88 (D), 88 (L), 88 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	13 ms	16 ms	14 ms
背光	LED	LED	LED
触摸屏信息	A Model: 5 Wires Resistive Touch/ B Model: PCAP Multi-touch up to 10 Points		PCAP Multi-touch up to 10 Points
透光率	80% (Resistive)/ 89% (PCAP)		89 %
触摸控制器	Onboard USB Touch (PenMount) for Resistive; USB Touch (EETI) for PCAP		USB Touch (EETI)
SBC	ARC-RPLPS		
处理器	13th Generation Intel® Core™ i3/i5/i7 Processors (LGA1700 Socket)		
I/O芯片	IT5782VG		
系统内存	1 x 262-pin DDR5 4800MHz S0-DIMM up to 32GB		
扩展	1 x M.2 Key-B 2242/3042/3052/2280 with SIM Card Slot Support SATA3/ PCIe & USB for LTE (4/5G)/ NVMe 1 x M.2 (Key-E, 2230, PCIe1, USB2.0), 1 x 80-pin IET Interface		
存储	1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay		
USB	4 x USB 3.2, 1 x USB Type C (with PD, Display, USB Function)		
串口	1 x RS-232/422/485, 1 x RS-232		
其它	7 x Knockouts for Antenna Mounting (5 from Rear Cover + 2 from IET Bracket)		
显示芯片组	Intel® Iris® Xe Graphics (for Core i5 & i7) Intel® UHD Graphics for 12th Gen Intel® Processors (for Core i3 & Celeron)		
音频	Realtek ALC 888S/897		
音频接口	2 x 2W Speaker Output Line-in, Line-out, Mic-in by Expandable IET (Option)		
以太网	2 x Intel® I226LM 2.5 GbE		
电源连接器	Lockable DC Jack (Phoenix Connector by Option), +12V ~ 24V		
电源模式	AT/ ATX (ATX is Default Setting)		
适配器	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A Adapter)		Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 120W Adapter (24V @ 5A Adapter)
结构 (前/后)	Silver Aluminum (Resistive), Die Casting with Cover Lens (P-cap) Black Die Casting		Die Casting with Cover Lens (P-cap) Black Die Casting
工作温度	-20°C ~ 60°C (-4°F ~ 140°F)		-10°C ~ 50°C (14°F ~ 122°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)		-20°C ~ 60°C (-4°F ~ 140°F)
认证	CE, FCC Class B		CE, FCC Class B
操作系统	Windows 10 IoT, Windows 11 IoT, Linux		
尺寸	A Model: 283 x 221 x 51.2 mm B Model: 284 x 223 x 46 mm	A Model: 350 x 274 x 54.5 mm B Model: 350.51 x 274.51 x 56.5 mm	538.05 x 341.05 x 60.05mm
重量	2.4 kg	3.7 kg	7.3 kg

Model Number	ARC-1235	ARC-1535	ARC-21W35	ARC-1037	ARC-10W37
LCD尺寸	12.1", 4:3	15", 4:3	21.5"	10.4", 4:3	10.1", 16:10
显示器	XGA	XGA	Full HD	XGA	WXGA
分辨率	1024 x 768	1024 x 768	1920 x 1080	1024 x 768	1280 x 800
像素间距	0.240 x 0.240 mm	0.297 x 0.297 mm	0.248 x 0.248	0.0685 mm (H) x 0.2055 mm (V)	0.1695 mm x 0.1695 mm
亮度	600 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
对比度	1000	2000	3000	1200	800
视角	89 (U), 89 (D), 89 (L), 89 (R)	88 (U), 88 (D), 88 (L), 88 (R)	89 (U), 89 (D), 89 (L), 89 (R)	88 (U), 88 (D), 88 (L), 88 (R)	85 (U), 85 (D), 85 (L), 85 (R)
响应时间	13 ms	16 ms	20 ms	25 ms	25 ms
背光	LED	LED	LED	LED	LED
触摸屏信息	A Model: 5-Wire Resistive Touch B Model: PCAP Multi-touch up to 10 Points (Full Flat Design)		PCAP Multi-touch up to 10 Points	5-Wire Resistive Touch	PCAP Multi-touch up to 10 Points
透光率	A Model: 80%, B Model: 89%		88%	80%	88%
触摸控制器	A Model: Onboard USB Touch (PenMount) B Model: External USB Controller		USB touch (EETI)	Onboard USB Touch (PenMount)	USB Touch (EETI)
SBC	ARC-EHL			ARC-ADLN	
处理器	Onboard Intel® Pentium®/ Celeron®/ Atom™ SoC BGA Processor			Onboard Intel® Pentium®/ Celeron®/ Atom™ Alder Lake-N Processor	
I/O芯片	EC ITE IT5571			EC ITE IT5782VG	
系统内存	Single 260-pin DDR4 SODIMM Socket Supports up to 32GB DDR4 3200MTs SDRAM			Single 262-pin DDR5 4800MHz S0-DIMM Socket Supports up to 32GB Max (Non ECC Only)	
扩展	1 x M.2 Key-E 2230 for Wi-Fi & BT Module 1 x M.2 Key-B 2242/3042/3052 for SATA 3/ PCIe x1/ USB 3.1			1 x M.2 Key-E 2230 for Wi-Fi & BT Module 1 x M.2 Key-B 2242/3042/3052 for SATA3/ PCIe x1/ USB3.1	
存储	1 x M.2 Key-B 2242/3042/3052 for SATA 3/ PCIe x1/ USB 3.1 or 1 x 2.5" Drive Bay (7mm HDD Restricted)			1 x M.2 Key-B 2242/3042/3052 for SATA3/ PCIe x1/ USB 3.1 or 1 x 2.5" Drive Bay (7mm HDD Restricted)	
USB	4 x USB 3.1 Gen.2			2 x USB 3.1 Gen.2 (1 x Dual Deck, Type A) 1 x USB Type C (w/ PD, USB, Display Function)	
串口	1 x RS-232/422/485, Selectable by BIOS, RS-485 Supports Auto Flow, Pin-9 Selected by Ring/ +5V/ +12V); 1 x RS-232			1 x RS-232/422/485, Selectable by BIOS, RS-485 Supports Auto Flow, Pin-9 Selected by Ring/ +5V/ +12V); 1 x RS-232	
显示芯片组	Intel® Elkhart Lake SoC Processor Integrated Gen11 LP Graphics			Intel® Alder Lake-N Processor Integrated Gen 12 UHD Graphics	
显示分辨率	HDMI: Max. Resolution 4096 x 2160 @ 60Hz (Optional by IET Module)			HDMI: Max. Resolution 4096 x 2160 @ 60Hz (Optional by IET Module)	
音频	Realtek ALC888S/ 897			Realtek ALC888S/ 897	
音频接口	2 x 2W Speakers			2 x 2W Speakers	
以太网	2 x Intel® I225-IT 2.5 Gigabit Ethernet (Wide Temperature)			2 x Intel® I226-LM 2.5 Gigabit Ethernet	
电源连接器	Lockable DC Jack, +12V ~ 24V			Lockable DC Jack, +12V ~ 24V	
电源模式	AT/ ATX (ATX is Default Setting)			AT/ ATX (ATX is Default Setting)	
适配器	Input: 100 ~ 240 Vac/ 50 ~ 60 Hz Output: 72W Adapter (19V @ 3.78A)		Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 120W Adapter (24V @ 5A)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A)	
结构 (前/后)	A Model: Front Metal, Rear Aluminum Die Casting; B Model: Aluminum Die Casting			Front Metal, Rear Aluminum Die Casting Aluminum Die Casting	
工作温度	A Model: -20°C ~ 60°C (-4°F ~ 140°F), B Model: -10°C ~ 50°C (14°F ~ 122°F)			-10°C ~ 50°C (14°F ~ 122°F)	
储存温度	-30°C ~ 70°C (-22°F ~ 158°F)			-20°C ~ 60°C (-4°F ~ 140°F)	
认证	CE, FCC Class B			CE, FCC Class B	
操作系统	Windows 10 IoT, Windows 11 IoT, Linux			Windows 10 IoT, Windows 11 IoT, Linux	
尺寸	A Model: 283 x 221.1 x 51.2 mm B Model: 192.86 x 225.4 x 51.5 mm	A Model: 350 x 274 x 54.5 mm B Model: 350.51 x 274.51 x 56.5 mm	538.05 x 341.05 x 64 mm	259.6 x 195.8 x 46 mm	282.29 x 200.93 x 50.9 mm
重量	2.4 kg	3.7 kg	7.3 kg	2.3 kg	2.17 kg



平板电脑 / 显示器 / 移动端

## 加固型平板电脑



型号	ARC-1033	ARC-1533	ARC-10W33	ARC-15W33	ARC-21W33
LCD尺寸	10.4", 4:3	15", 4:3	10.1", 16:10	15.6", 16:9	21.5"
显示器	XGA	XGA	WXGA	WXGA	Full HD
分辨率	1024x768	1024 x 768	1280 x 800	1366 x 768	1920 x 1080
像素间距	0.0685 mm(H) x 0.2055 mm (V)	0.297 mm (H) x 0.297 mm (V)	0.1695 mm x 0.1695 mm	0.252 mm (H) x 0.252 mm (V)	0.248 x 0.248
亮度	500 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	1200	700	800	500	3000
视角	88 (U), 88 (D), 88 (L), 88 (R)	70 (U), 70 (D), 80 (L), 80 (R)	85 (U), 85 (D), 85 (L), 85 (R)	80 (U), 80 (D), 80 (L), 80 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	25 ms	16 ms	25 ms	8 ms	18 ms
背光	LED	LED	LED	LED	LED
触摸屏信息	5-Wire Resistive Touch		PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points
透光率	80%		88%	88%	89%
触摸控制器	Onboard USB Touch (PenMount)		USB Touch (EETI)	USB Touch (EETI)	USB Touch (EETI)
SBC	ARC-APL		ARC-APL		
处理器	Onboard Intel® Apollo Lake-I/M Processor		Intel® Celeron® N3350/J3455 Processor		
I/O芯片	EC ITE IT8528E		EC ITE IT8528E		
系统内存	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB		1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8GB		
扩展	1 x Mini PCIe Supports mSATA, 1 x Optional 80-pin Expansion		1 x Mini PCIe Supports mSATA, 1 x Optional 80-pin Expansion		
存储	1 x 2.5" Drive Bay (7mm HDD Restricted)		1 x 2.5" Drive Bay (7mm HDD Restricted)		
USB	4 x USB 3.0		4 x USB 3.0		
串口	1 x RS-232/422/485 (Factory Optional), 1 x RS-232		1 x RS-232/422/485, 1 x RS-232		
其它	1 x WiFi (Option), 3 x Knockouts for Antenna Mounting		1 x WiFi (Option), 3 x Knockouts for Antenna Mounting		
显示芯片组	Intel® Apollo Lake SoC Processor Integrated Gen9 LP Graphics Supports Optional Dual Display		Intel® HD Graphics 500		
显示分辨率	HDMI: Max. Resolution 3840 x 2160 @ 30Hz (Optional by IET Module)		HDMI: Max. Resolution 3840 x 2160 @ 30Hz (Optional by IET Module)		
音频	Realtek ALC888S		Realtek ALC888S		
音频接口	2 x 2W Speaker out		2 x 2W Speaker Out		
以太网	2 x Intel® I210IT (Apollo Lake I), 2 x Intel® I211AT (Apollo Lake M)		2 x Intel® I211AT		
电源连接器	Lockable DC Jack, +9V ~ +36V		Lockable DC Jack, +9V ~ +36V		
电源模式	AT/ ATX (ATX is Default Setting)		AT/ ATX (ATX is Default Setting)		
适配器	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)		Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)		
结构 (前/后)	Aluminum Die Casting		Metal with Cover Lens, Black Diet Casting		
工作温度	(N3350/N4200/J3455 CPU) -10°C ~ 50°C (14°F ~ 122°F) (E3900 CPU) -20°C ~ 60°C (-4°F ~ 140°F)		-10°C ~ 50°C (14°F ~ 122°F)		
储存温度	(N3350/N4200/J3455 CPU) -20°C ~ 60°C (-4°F ~ 140°F) (E3900 CPU) -30°C ~ 70°C (-22°F ~ 158°F)		-20°C ~ 60°C (-4°F ~ 140°F)		
认证	CE, FCC Class B		CE, FCC Class B		
操作系统	Windows 10 IoT, Linux		Windows 10 IoT, Linux		
尺寸	259.6 x 195.8 x 46 mm	350 x 274 x 53.1 mm	282.29 x 200.93 x 50.9 mm	391.2 x 239.2 x 57.5 mm	537.9 x 329.4 x 55.9 mm
重量	1.67 kg	3.7 kg	2 kg	4 kg	7.3 kg



型号	ARC-1238	ARC-1538	ARC-21W38	ARC-1738-C1
LCD尺寸	12.1"	15"	21.5"	17"
显示器	XGA	XGA	Full HD	SWGA
分辨率	1024 x 768	1024 x 768	1920 x 1080	1280 x 1024
像素间距	0.240 x 0.240 mm	0.297 x 0.297 mm	0.248 x 0.248	0.264 x 0.264
亮度	600 cd/m <sup>2</sup>	300 cd/m <sup>2</sup> , 500 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	1000	2000	3000	1000
视角	89 (U), 89 (D), 89 (L), 89 (R)	88 (U), 88 (D), 88 (L), 88 (R)	89 (U), 89 (D), 89 (L), 89 (R)	80 (U), 80 (D), 85 (L), 85 (R)
响应时间	13 ms	16 ms	20 ms	5 ms
背光	LED	LED	LED	LED
触摸屏信息	A Model: 5-Wire Resistive Touch B Model: PCAP Multi-touch up to 10 Points (Full Flat Design)		PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points (Full Flat Design)
透光率	5-Wire Resistive Touch: 80%, Projective Capacitive Multi-Touch: 89%		88%	89%
触摸控制器	A Model: Onboard USB Touch (PenMount); B Model: External USB Controller		USB touch (EETI)	Onboard USB Touch (ILITEK)
SBC	ARC-TGL			EMX-TGLC
处理器	On board 11th Gen. Intel® Core™ i7/i5/i3/ Celeron BGA Processor			On board 11th Gen. Intel® Core™ i5/i3/Celeron BGA Processor
I/O芯片	EC (IT8528VG-I/FX)			EC (ITE IT8528E)
系统内存	Single 260-pin DDR4 SODIMM Socket, Supports up to 32GB DDR4 3200MTs SDRAM			2 x 260-pin DDR4 3200 MHz SO-DIMM Socket, up to 64GB Max
扩展	1 x M.2 Key-E 2230 for Wi-Fi & BT Module 1 x M.2 Key-B 2242/3042/3052 for SATA3/PCIe x1/ USB3.1			1 x M.2 Key B 3042/3052/2242/2260/2280 for SATA/ USB 3.0/ USB 2.0, 1 x M.2 Key E 2230 Support WiFi Module
存储	1 x M.2 Key-B 2242/3042/3052 for SATA3/PCIe x1/ USB3.1 or 1 x 2.5" Drive Bay (7mm HDD Restricted)			1 x M.2 Key B 3042/3052/2242/2260/2280 Support 1 x PCIe x1/ SATA/ USB 3.0/ USB 2.0 or 1 x 2.5" Drive Bay
USB	4 x USB 3.1 Gen.2			3 x USB 3.1 Gen2, 1 x USB 3.1 Gen1, 3 x USB 2.0 (Optional) *1 x USB 2.0 for Option Shared The Same Port with COM
串口	1 x RS-232/422/485, Selectable by BIOS, RS-485 Supports Auto Flow, Pin-9 Selected by Ring/ +5V/ +12V); 1 x RS-232			COM1: 1 x RS-232/422/485 (Default); COM2: 1 x RS-232/422/485 (Optional); COM3: 1 x RS-232 (Optional) COM4 ~ 6: 3 x RS-232/ GPIO/ USB 2.0 (Optional)
显示芯片组	Intel® 11th Generation CPU Integrated			Intel® 11th Generation CPU Integrated
显示分辨率	HDMI: Max. Resolution 4096 x 2160 @ 60Hz (Optional by IET Module)			2 x DP++: 1920 x 1080 @ 60Hz
音频	Realtek ALC897			Realtek ALC897 Co-lay ALC888S & Tempo 92HD73
音频接口	2 x 2W Speakers			2 x 5W Speakers
以太网	1 x Intel® I219LM PCI-e Gigabit Ethernet, 1 x Intel® I225LM 2.5 Gigabit Ethernet			1 x Intel® I219LM Gigabit Ethernet PHY (LAN1) 1 x Intel® I226LM 2.5 Gigabit Ethernet (LAN2)
电源连接器	Lockable DC Jack, +12 ~ 24V			Mini-DIN 4pin DC-in, +12V ~ 24V DC-in
电源模式	AT/ ATX (ATX is Default Setting)			AT/ ATX (ATX is Default Setting)
适配器	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A)		Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 120W Adapter (24V @ 5A)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 120W Adapter (24V @ 5A)
结构 (前/后)	A Model: Front Metal, Rear Aluminum Die Casting; B Model: Aluminum Die Casting			Front Aluminum Die Casting, Rear Aluminum Alloy
工作温度	-10°C ~ 50°C (14°F ~ 122°F)			0°C ~ 50°C (32°F ~ 122°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)			-20°C ~ 60°C (-4°F ~ 140°F)
认证	CE, FCC Class B			CE, FCC Class A, CCC
操作系统	Windows 10 IoT, Windows 11 IoT, Linux			Windows 10 IoT, Windows 11 IoT, Linux
尺寸	A Model: 283 x 221 x 51.2 mm B Model: 284 x 223 x 46 mm	A Model: 350 x 274 x 54.5 mm B Model: 350.51 x 274.51 x 56.5 mm	538.05 x 341.05 x 64 mm	393 x 325 x 72 mm
重量	2.4 kg	3.7 kg	7.3 kg	4.4 kg

# 开放式平板电脑



型号	OFT-07WR1	OFT-10WR1	OFT-15WR1	OFT-21WR1
LCD尺寸	7"	10.1"	15.6"	21.5"
分辨率	800 x 1280	1280 x 800	1920 x 1080	1920 x 1080
亮度	300 cd/m <sup>2</sup>	350/ 1000 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
视角	80 (U), 80 (D), 80 (L), 80 (R)	85 (U), 85 (D), 85 (L), 85 (R)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)
触摸屏信息	PCAP	PCAP	PCAP	PCAP
处理器	Rockchip RK3288	Rockchip RK3288	Rockchip RK3288	Rockchip RK3288
系统内存	2GB DDR3L	2GB DDR3L	2GB DDR3L	2GB DDR3L
无线	802.11 b/g/n Wireless LAN	802.11 b/g/n Wireless LAN	802.11 b/g/n Wireless LAN	802.11 b/g/n Wireless LAN
存储	16G eMMC	16G eMMC	16G eMMC	16G eMMC
外部I/O连接器	1 x 10/100/1000 RJ45 LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 2.0 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 2.0 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 2.0 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 2.0 Out 1 x Reset 2 x USB 3.0 Type A
内部I/O连接器	1 x A-MIC 1 x DC Input 1 x GPIO 1 x I <sup>2</sup> C 1 x I <sup>2</sup> C Sensor Interface 1 x LVDS 1 x M.2 3042 B-Key 1 x Micro SD Slot 1 x Micro USB 1 x MIPI DSI 1 x Power Button 1 x RS-232 1 x RS-485 1 x RS-485 1 x RS-232/422/485 Debug 1 x RTC Battery 1 x Speaker 1 x SPI 1 x Touch Button 1 x USB Touch Interface	1 x A-MIC 1 x DC Input 1 x GPIO 1 x I <sup>2</sup> C 1 x I <sup>2</sup> C Sensor Interface 1 x LVDS 1 x M.2 3042 B-Key 1 x Micro SD slot 1 x Micro USB 1 x MIPI DSI 1 x Power Button 1 x RS-232 1 x RS-485 1 x RS-485 1 x RS-232/422/485 Debug 1 x RTC Battery 1 x Speaker 1 x SPI 1 x Touch Button 1 x USB Touch Interface	1 x A-MIC 1 x DC Input 1 x eDP 1 x GPIO 1 x I <sup>2</sup> C Sensor Interface 1 x LVDS 1 x M.2 3042 B-Key 1 x Micro SD Slot 1 x Micro USB 1 x MIPI DSI 1 x Power Button 1 x RS-232 1 x RS-485 1 x RS-232/422/485 Debug 1 x RTC Battery 1 x Speaker 1 x SPI 1 x Touch Button 1 x USB Touch Interface	1 x A-MIC 1 x DC Input 1 x GPIO 1 x I <sup>2</sup> C Sensor Interface 1 x LVDS 1 x M.2 3042 B-Key 1 x Micro SD slot 1 x Micro USB 1 x MIPI DSI 1 x Power Button 1 x RS-232 1 x RS-485 1 x RS-232/422/485 Debug 1 x RTC Battery 1 x Speaker 1 x SPI 1 x Touch Button 1 x USB Touch Interface
电源信息	DC 12V ~ 24V	DC 12V ~ 24V	DC 12V ~ 24V	DC 12V ~ 24V
电源模式	AT	AT	AT	AT
工作温度	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)
工作湿度	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing
操作系统	Android 8.1	Android 8.1	Android 8.1	Android 8.1
尺寸	115.9 x 183.1 x 33.4 mm	252 x 166 x 32.7 mm/ 252 x 166 x 38.2 mm	387 x 235 x 35.3 mm	501.88 x 294.2 x 44.1 mm
重量	0.45 kg	0.7 kg	1.5 kg	3.4 kg
认证	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A



型号	OFT-07WR2	OFT-10WR2	OFT-21WR2	OFT-10W04	OFT-15W04	OFT-21W04
LCD尺寸	7"	10.1"	21.5"	10.1"	15.6"	21.5"
分辨率	600 x 1024	800 x 1280	1920 x 1080	800 x 1280	1920 x 1080	1920 x 1080
亮度	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
视角	85 (U), 85 (D), 85 (L), 85 (R)	80 (U), 80 (D), 80 (L), 80 (R)	89 (U), 89 (D), 89 (L), 89 (R)	85 (U), 85 (D), 85 (L), 85 (R)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)
触摸屏信息	PCAP	PCAP	PCAP	PCAP	PCAP	PCAP
处理器	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Intel® Celeron® J3455 2M Cache 1.50 GHz	Intel® Celeron® J3455 2M Cache 1.50 GHz	Intel® Celeron® J3455 2M Cache 1.50 GHz
系统内存	2GB DDR4	2GB DDR4	2GB DDR4	4GB DDR3L RAM 1 x 204 pin SO-DIMM	4GB DDR3L RAM 1 x 204 pin SO-DIMM	4GB DDR3L RAM 1 x 204 pin SO-DIMM
无线	802.11 a/b/g/n/ac Wireless LAN	802.11 a/b/g/n/ac Wireless LAN	802.11 a/b/g/n/ac Wireless LAN	802.11 a/b/g/n/ac (2230)	802.11a/b/g/n/ac (2230)	802.11 a/b/g/n/ac (2230)
存储	32G eMMC	32G eMMC	32G eMMC	32GB(eMMC)/ M.2 3042 SSD	32GB(eMMC)/ M.2 3042 SSD	32GB(eMMC)/ M.2 3042 SSD
外部I/O连接器	1 x 10/100/1000 RJ45 Powered LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 1.4 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 Powered LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 1.4 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 Powered LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 1.4 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 Powered LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 1.4 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 Powered LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 1.4 Out 1 x Reset 2 x USB 3.0 Type A	1 x 10/100/1000 RJ45 Powered LAN 1 x DC Jack 1 x Headphone Jack 1 x HDMI 1.4 Out 1 x Reset 2 x USB 3.0 Type A
内部I/O连接器	1 x A-MIC 1 x DC Input 1 x GPIO 1 x I <sup>2</sup> C Sensor Interface 1 x M.2 3042 B-Key 1 x Mic-in 1 x MIPI DSI 2 x RS-232 1 x RS-485 1 x RTC Battery 1 x Speaker 1 x Touch Button 1 x USB CAM_DMIC Interface 1 x USB Touch Interface	1 x A-MIC 1 x DC Input 1 x GPIO 1 x I <sup>2</sup> C Sensor Interface 1 x M.2 3042 B-Key 1 x Micro SD slot 1 x Micro USB 1 x MIPI DSI 1 x Power Button 1 x RS-232 1 x RS-485 1 x RS-232/422/485 Debug 1 x RTC Battery 1 x Speaker 1 x SPI 1 x Touch Button 1 x USB Touch Interface	1 x A-MIC 1 x DC Input 1 x GPIO 1 x I <sup>2</sup> C Sensor Interface 1 x LVDS 1 x M.2 3042 B-Key 1 x Micro SD slot 1 x Micro USB 1 x MIPI DSI 1 x Power Button 1 x RS-232 1 x RS-485 1 x RS-232/422/485 Debug 1 x RTC Battery 1 x Speaker 1 x SPI 1 x Touch Button 1 x USB Touch Interface	1 x A-MIC 1 x DC Input 1 x DIO 1 x M.2 3042 B-Key 1 x Micro USB 1 x MIPI DSI 1 x RS-232/422/485 Debug 1 x SD Card Slot 1 x Speaker 1 x Touch Button	1 x A-MIC 1 x DC Input 1 x DIO 1 x M.2 3042 B-Key 1 x Micro USB 1 x MIPI DSI 1 x RS-232/422/485 Debug 1 x SD Card Slot 1 x Speaker 1 x Touch Button	1 x A-MIC 1 x DC Input 1 x DIO 1 x M.2 3042 B-Key 1 x Micro USB 1 x MIPI DSI 1 x RS-232/422/485 Debug 1 x SD Card Slot 1 x Speaker 1 x Touch Button
电源信息	DC 12V ~ 24V	DC 12V ~ 24V	DC 12V ~ 24V	DC 12V~24V	DC 12V~24V	DC 12V~24V
电源模式	AT	AT	AT	AT	AT	AT
工作温度	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)
工作湿度	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing
操作系统	Android 11, Debian 11	Android 11, Debian 11	Android 11, Debian 11	Windows 10 IoT, Ubuntu	Windows 10 IoT, Ubuntu	Windows 10 IoT, Ubuntu
尺寸	190 x 130 x 31.8 mm	254 x 178 x 33.8 mm	515 x 322 x 44.9 mm	254 x 178 x 41.6 mm	384 x 254 x 47.5 mm	515 x 322 x 53.7 mm
重量	0.5 kg	0.7 kg	3.6 kg	1.28 kg	2.2 kg	4.3 kg
认证	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A



平板电脑 / 显示器 / 移动端

## 开放式平板电脑



型号	OFP-07W33	OFP-15W33	OFP-21W33	OFT-07WR3	OFT-10WR3	OFT-15WR3	OFT-07WAD	OFT-10WAD
LCD尺寸	7", 16:10	15.6", 16:9	21.5", 16:9	7"	10.1"	15"	7"	10.1"
分辨率	1280 x 800	1920 x 1080	1920 x 1080	800 x 400	800 x 1280	1024 x 768	600 x 1024	800 x 1280
亮度	300 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
视角	89 (U), 89 (D), 89 (L), 89 (R)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)	85 (U), 85 (D), 85 (L), 85 (R)	88 (U), 88 (D), 88 (L), 88 (R)	1750 (H), 1750 (V)	1750 (H), 1750 (V)
触摸屏信息	PCAP Multi-touch up to 10 Points			PCAP Multi-touch up to 10 Points			PCAP Multi-touch up to 10 Points	
处理器	Onboard Intel® Celeron® N3350/J3455 SoC BGA Processor			Rockchip RK3568J Quad-core Cortex-A55 1.4/1.8GHz			Intel® IOTG Alder Lake-N Processor 6W N50	
系统内存	4GB DDR3L Memory (Option up to 8GB by One SO-DIMM Socket)	4GB DDR3L Memory (Option up to 16GB by Two SO-DIMM Socket)	4GB DDR3L Memory (Option up to 16GB by Two SO-DIMM Socket)	2GB/ 4GB LPDDR4	2GB/ 4GB LPDDR4	2GB/ 4GB LPDDR4	8GB/ 16GB LPDDR5	8GB/ 16GB LPDDR5
无线	Option by Mini PCIe : 802.11 a/b/g/n/ac Wireless LAN and Bluetooth 4.0+			802.11 a/b/g/n/ac (2230)	802.11 a/b/g/n/ac (2230)	802.11 a/b/g/n/ac (2230)	Option by M.2: Follow WIFI Module Specification	Option by M.2: Follow WIFI Module Specification
存储	64GB mSATA by mPCIe Slot	64GB mSATA by mPCIe Slot (Option for SATA interface 2.5" HDD/ SSD)	64GB mSATA by mPCIe Slot (Option for SATA interface 2.5" HDD/ SSD)	32GB/ 64GB eMMC (Optional)	32GB/ 64GB eMMC (Optional)	32GB/ 64GB eMMC (Optional)	32GB/ 64GB/ 128GB eMMC (Optional)	32GB/ 64GB/ 128GB eMMC (Optional)
外部I/O连接器	2 x Intel® I211AT 4 x USB 3.0 1 x HDMI 1 x RS-232 1 x DC Jack	2 x Intel® I211AT, 4 x USB 3.0 1 x RS-232/422/485 1 x DP++, 1 x DP, 1 x HDMI 1 x Line-out, 1 x Mic-in 1 x DC Jack, 1 x Phoenix Connector for DC in 1 x Phoenix Connector for Reset	2 x Intel® I211AT, 4 x USB 3.0 1 x RS-232/422/485 1 x DP++, 1 x DP, 1 x HDMI 1 x Line-out, 1 x Mic-in 1 x DC Jack, 1 x Phoenix Connector for DC in 1 x Phoenix Connector for Reset	2 x 10/100/1000 RJ45 LAN 1 x DC Jack 1 x HDMI 2.0 Out 1 x Reset 1 x RS-232/422/485 DB9 2 x USB 3.0 Type A	2 x 10/100/1000 RJ45 LAN 1 x DC Jack 1 x HDMI 2.0 Out 1 x Reset 1 x RS-232/422/485 DB9 2 x USB 3.0 Type A	2 x 10/100/1000 RJ45 LAN 1 x DC Jack 1 x HDMI 2.0 Out 1 x Reset 1 x RS-232/422/485 DB9 2 x USB 3.0 Type A	2 x 10/100/1000 RJ45 LAN 1 x Audio Jack TRS 1 x DC Jack 1 x HDMI 2.0 Out 1 x Reset 2 x USB 3.0 Type A	2 x 10/100/1000 RJ45 LAN 1 x Audio Jack TRS 1 x DC Jack 1 x HDMI 2.0 Out 1 x Reset 2 x USB 3.0 Type A
内部I/O连接器	1 x RS-232/422/485 2 x USB 2.0 1 x GPIO 1 x Full Size Mini-PCIe Support mSATA 1 x Half Size Mini-PCIe for Option WIFI/ BT	4 x RS-232 (Optional) 4 x USB 2.0 (Optional) 1 x GPIO 1 x Full Size Mini-PCIe Support mSATA 1 x SIM Card Slot 1 x M.2 (2230) A-Key, Support WiFi Module	4 x RS-232 (Optional) 4 x USB 2.0 (Optional) 1 x GPIO 1 x Full Size Mini-PCIe Support mSATA 1 x SIM Card Slot 1 x M.2 (2230) A-Key, Support WiFi Module	1 x Backlight 2 x CAN 1 x DC Input 1 x eDP, 1 x GPIO 1 x I <sup>2</sup> C, 1 x LVDS 1 x M.2 2230 E-Key 1 x M.2 3042 B-Key 1 x MIPI DSI 2 x RS-232 1 x RS-485 1 x RTC Battery 1 x SIM Card Slot 1 x Speaker 1 x Touch Button 2 x USB 2.0	1 x Backlight 2 x CAN 1 x DC Input 1 x eDP, 1 x GPIO 1 x I <sup>2</sup> C, 1 x LVDS 1 x M.2 2230 E-Key 1 x M.2 3042 B-Key 1 x MIPI DSI 2 x RS-232 1 x RS-485 1 x RTC Battery 1 x SIM Card Slot 1 x Speaker 1 x Touch Button 2 x USB 2.0	1 x Backlight 2 x CAN 1 x DC Input 1 x eDP, 1 x GPIO 1 x I <sup>2</sup> C, 1 x LVDS 1 x M.2 2230 E-Key 1 x M.2 3042 B-Key 1 x MIPI DSI 2 x RS-232 1 x RS-485 1 x RTC Battery 1 x SIM Card Slot 1 x Speaker 1 x Touch Button 2 x USB 2.0	1 x A-MIC 2 x GPIO 1 x I <sup>2</sup> C 1 x M.2 2230 E-Key 1 x Micro SD slot 1 x MIPI DSI 1 x RS-232 1 x RS-485 1 x RTC Battery 1 x Speaker 2 x Touch Button 1 x USB 2.0 2 x USB 2.0 + DMIC	1 x A-MIC 2 x GPIO 1 x I <sup>2</sup> C 1 x M.2 2230 E-Key 1 x Micro SD Slot 1 x MIPI DSI 1 x RS-232 1 x RS-485 1 x RTC Battery 1 x Speaker 2 x Touch Button 1 x USB 2.0 2 x USB 2.0 + DMIC
电源信息	+12V ~ 26V DC in	+12V ~ 24V DC in	+12V ~ 24V DC in	DC 12V ~ 24V	DC 12V ~ 24V	DC 12V ~ 24V	DC 12V ~ 24V	DC 12V ~ 24V
电源模式	AT/ ATX (Default is AT Mode)	AT/ ATX (Default is AT Mode)	AT/ ATX (Default is AT Mode)	AT	AT	AT	AT	AT
工作温度	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)
工作湿度	0% ~ 90% Relative Humidity, Non-condensing	0% ~ 90% Relative Humidity, Non-condensing	0% ~ 90% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing
操作系统	Windows 10 IoT, Linux, x86 Android 8.1	Windows 10 IoT, Linux, x86 Android 8.1	Windows 10 IoT, Linux, x86 Android 8.1	Android 13	Android 13	Android 13	Windows 10 IoT, Windows 11 IoT (w/ TPM) Linux Ubuntu 22.04	Windows 10 IoT, Windows 11 IoT (w/ TPM) Linux Ubuntu 22.04
尺寸	183.1 x 115.8 x 48.6 mm	387 x 235 x 46 mm	501.9 x 296.2 x 52.4 mm	170 x 110 x 6 mm	143 x 228.6 x 2.5 mm	326.5 x 253.5 x 9.1 mm	183.1 x 115.9 x 24.3 mm	252 x 166 x 38 mm
重量	700 g	2.5 kg	4.1 kg	TBD	TBD	TBD	TBD	TBD
认证	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A





平板电脑 / 显示器 / 移动端

## 开放式平板电脑



型号	OFP-15W38	OFP-21W38	OFP-15W42	OFP-21W42	OFR-15WMX	OFR-21WMX
LCD尺寸	15.6", 16:9	21.5", 16:9	15.6", 16:9	21.5", 16:9	15.6", 16:9	21.5", 16:9
分辨率	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
亮度	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
视角	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)
触摸屏信息	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points
处理器	Onboard Tiger Lake U 11th Intel® Core™ SoC i7/i5/i3 BGA Processor or Celeron® BGA Processor	Onboard Tiger Lake U 11th Intel® Core™ SoC i7/i5/i3 BGA Processor or Celeron® BGA Processor	Onboard Intel® Raptor Lake-PS Processor	Onboard Intel® Raptor Lake-PS Processor	Onboard MT8365 CPU, Quad-core ARM 2.0GHz Cortex-A53 MP Core, ARM Mali G52 GPU	Onboard MT8365 CPU, Quad-core ARM 2.0GHz Cortex-A53 MP Core, ARM Mali G52 GPU
系统内存	4GB DDR4 Memory (Option up to 64GB)	4GB DDR4 Memory (Option up to 64GB)	1 x 262-pin DDR5 4800MHz S0-DIMM up to 32GB	1 x 262-pin DDR5 4800MHz S0-DIMM up to 32GB	4GB DDR4	4GB DDR4
无线	Option by M.2 WIFI/ BT Module	Option by M.2 WIFI/ BT Module	Option by M.2 WIFI/ BT Module	Option by M.2 WIFI/ BT Module	Option by M.2 WIFI/ BT Module	Option by M.2 WIFI/ BT Module
存储	Default with 64GB M.2 (Option for SATA Interface 2.5" HDD/ SSD)	Default with 64GB M.2 (Option for SATA Interface 2.5" HDD/ SSD)	Default with 64GB M.2 (Option for SATA Interface 2.5" HDD/ SSD)	Default with 64GB M.2 (Option for SATA Interface 2.5" HDD/ SSD)	32GB eMMC	32GB eMMC
外部I/O连接器	3 x USB 3.1 Gen2, 1 x USB 3.1 Gen1 1 x RS-232 (Default)/422/485 1 x Intel® I225IT 2.5 GbE 1 x Intel® I219LM GbE PHY 2 x DP++ 1 x Line-out, 1 x Mic-in 1 x Mini Din 4-pin DC Jack 1 x Phoenix Connector for DC in 1 x Phoenix Connector for Reset	3 x USB 3.1 Gen2, 1 x USB 3.1 Gen1 1 x RS-232 (Default)/422/485 1 x Intel® I225IT 2.5 GbE 1 x Intel® I219LM GbE PHY 2 x DP++ 1 x Line-out, 1 x Mic-in 1 x Mini Din 4-pin DC Jack 1 x Phoenix Connector for DC in 1 x Phoenix Connector for Reset	4 x USB 3.2 Gen2 1 x RS-232 (Default)/422/485 2 x Intel® I226LM 2.5 GbE 4 x DP++ 1 x Line-out, 1 x Mic-in 1 x Mini Din 4-pin DC Jack 1 x Phoenix Connector for DC in 1 x Phoenix Connector for Reset	4 x USB 3.2 Gen2 1 x RS-232 (Default)/422/485 2 x Intel® I226LM 2.5 GbE 4 x DP++ 1 x Line-out, 1 x Mic-in 1 x Mini Din 4-pin DC Jack 1 x Phoenix Connector for DC in 1 x Phoenix Connector for Reset	1 x Audio amplifier 1 x DC Jack 3 x HDMI 2.0 In 1 x HDMI 2.0 Out 1 x Line-out 1 x RS-232/422/485 DB9 4 x USB 3.0 Type A 1 x M.2 Key M	1 x Audio amplifier 1 x DC Jack 3 x HDMI 2.0 In 1 x HDMI 2.0 Out 1 x Line-out 1 x RS-232/422/485 DB9 4 x USB 3.0 Type A 1 x M.2 Key M
内部I/O连接器	1 x RS-232/422/485 (Optional) 3 x RS-232 (Optional) 4 x USB 2.0 (optional) 1 x GPIO 1 x SIM Card Slot 1 x M.2 (2230) E-Key, Support WiFi Module/ BT 1 x M.2 (2242) B-Key, Support Storage/ 5G Module	1 x RS-232/422/485 (Optional) 3 x RS-232 (Optional) 4 x USB 2.0 (Optional) 1 x GPIO 1 x SIM Card Slot 1 x M.2 (2230) E-Key, Support WiFi Module/ BT 1 x M.2 (2242) B-Key, Support Storage/ 5G Module	1 x RS-232/422/485 (Optional) 3 x RS-232 (Optional) 4 x USB 2.0 (Optional) 1 x GPIO 1 x SIM Card Slot 1 x M.2 (2230) E-Key, Support WiFi Module/ BT 1 x M.2 (2242) B-Key, Support Storage/ 5G Module 1 x M.2 Key-M 2280 (PCI-ex4) Slot for Storage NVMe SSD	1 x RS-232/422/485 (Optional) 3 x RS-232 (Optional) 4 x USB 2.0 (Optional) 1 x GPIO 1 x SIM Card Slot 1 x M.2 (2230) E-Key, Support WiFi Module/ BT 1 x M.2 (2242) B-Key, Support Storage/ 5G Module 1 x M.2 Key-M 2280 (PCI-ex4) Slot for Storage NVMe SSD	1 x TV 1 x HR 1 x FAN	1 x TV 1 x HR 1 x FAN
电源信息	DC in +12-24V	DC in +12-24V	DC in +12-24V	DC in +12-24V	DC 12V	DC 12V
电源模式	AT/ ATX (Default is AT Mode)	AT/ ATX (Default is AT Mode)	AT/ ATX (Default is AT Mode)	AT/ ATX (Default is AT Mode)	AT	AT
工作温度	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)
工作湿度	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing
操作系统	Windows 10 IoT, Windows 11 IoT, Linux	Windows 10 IoT, Windows 11 IoT, Linux	Windows 10 IoT, Windows 11 IoT, Linux	Windows 10 IoT, Windows 11 IoT, Linux	Windows 10 IoT, Linux	Windows 10 IoT, Linux
尺寸	387 x 235 x 48 mm	501.9 x 296.2 x 55 mm	387 x 235 x 48 mm	501.9 x 296.2 x 55 mm	501.9 x 296.2 x 55 mm	501.9 x 296.2 x 55 mm
重量	2.9 kg	5.2 kg	2.9 kg	5.2 kg	5.2 kg	5.2 kg
认证	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A

### 可选配件

Accessories	Part Number	Description
WIFI/ BT	ACC-OFT-WIFI-01R	M.2 WIFI-Kit for OFP Series (2230, key AE)/ Antenna/ Cable/ BT4.2/ 802.11 ac/a/b/g/n
	ACC-OFT-NBCAM-01R	2.0M CMOS, USB2.0/ 1600 x 1200
	ACC-OFT-NBCAM-02R	5.0M Auto Focus CMOS, USB2.0, without Mic
Camera	ACC-OFT-NBCAM-03R	5.0M Auto Focus CMOS, USB2.0, with Mic
	ACC-OFT-BCS-02R	2D Barcode Scanner with Cable Slim Type/CPU/ 640 x 480/ All-in-One Board/ USB + TTL232 IO/ Buzzer + Trigger/ CBL-115U
Barcode Scanner	ACC-OFT-BCS-03R	2D Barcode Scanner Scan Engine (N4680) + (CB-2D002) + FFC + USB Cable
	ACC-OFT-SCR-01R	Smart Card Reader (USB), Comply with: ISO7816-1,2,3,4 T=0, T=1 Protocol (Option: NFC ISO 14443 A,B,C Type, ISO 15693, ISO 18092)
Smart Card Reader	ACC-OFT-SCR-02R	Smart Card Reader (USB)/ with Cable, Comply with: EN/ IEC 60950, ISO7816, EMV Level 1, PC/ SC, CCID, FIPS201/ TAA (USA), J-LIS/ VCCI (Japan), PBOC (China), Microsoft WHQL Size: (LWH) 72.2 x 69 x 14 mm
	ACC-OFT-SCR-03R	Smart Card Reader (USB)/ with Cable, Comply with: EN/ IEC 60950, ISO7816, EMV Level 1, PC/ SC, CCID, FIPS201/ TAA (USA), J-LIS/ VCCI (Japan), PBOC (China), Microsoft WHQL Size: (LWH) 80 x 45 x 7.4 mm
	ACC-OFT-NFC-01R	NFC Module 100mm Antenna+ 500mm USB Cable, 13.56Mhz, ISO 1443 A/B, MIFARE, Felica
RFID	ACC-OFT-RFID-01R	RFID (USB with Antenna) Mifare Class with MAD1/ MAD2/ MAD3 T=CL ISO7816 Interface Supported ISO 14443 A Mifare Class USB Interface, 19200, N, 8, 1 RF Date Rate: 106k, 212k, 424k, 848k bps Frequency: 13.56MHz
	ACC-OFT-RFID-02R	RFID 13.56MHz USB Module Full 3DES/ AES Crypto Methods for Desfire EV1 USB, RS232 (19200, N, 8, 1) T=CL ISO7816 Interface Card Compatibilities NFC 1-4 TAGS ISO14443A/ ISO14443B/ ISO15693
	ACC-OFT-RFID-03R	RFID (w/o LED, Buzzer) (W/ Antenna) Mifare Class with MAD1/ MAD2/ MAD3 T=CL ISO7816 Interface Supported ISO 14443 A Mifare Class USB Interface, 19200, N, 8, 1 RF Date Rate: 106k, 212k, 424k, 848k bps Frequency: 13.56MHz



平板电脑 / 显示器 / 移动端

## 医疗及平板电脑



型号	HID-2340	HID-2334	HID-2138	HID-2132	HID-2100	HID-1540
LCD尺寸·显示器	23.8" Full HD	23.8", FHD	21.5", Full HD	21.5", Full HD	21.5", Full HD	15.6", Full HD
分辨率	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
像素间距	0.274 x 0.274	0.274 x 0.274	0.248 x 0.248	0.248 x 0.248	0.248 x 0.248	0.179 x 0.179
亮度	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
对比度	3000	3000	1000	1000	1000	1000
视角	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	16 ms	16 ms	22 ms	22 ms	22 ms	25 ms
背光	LED	LED	LED	LED	LED	LED
触摸屏信息	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive
透光率	86%	86%	89%	89%	89%	89%
触摸控制器	USB Interface, EETI	USB Interface, EETI	USB Interface, EETI	USB Interface, EETI	USB Interface, EETI	USB Interface, EETI
SBC	HID ADLPS Motherboard	HID-2334 M/B + Charger Board	HID TGLP Motherboard	ARC-SKLU	HID-2100 AD Board	HID ADLPS Motherboard
处理器	12th Gen Intel® Core™ i7/i5/i3/Celeron Processor	7th Generation Intel® Kaby Lake Core™ i7/i5/i3/ Celeron® Processor	11th Gen Intel® Core™ i7/i5/i3/Celeron Processor	6th Gen Intel® Core™ i7/i5/i3/ Celeron Processor	N/A	12th Gen Intel® Core™ i7/i5/i3/ Celeron Processor
I/O芯片	EC ITE IT5782VG	EC ITE IT8518E	EC ITE IT8528E	EC ITE IT8528E	N/A	EC ITE IT5782VG
系统内存	1 x 262-pin DDR5 4800MHz SO-DIMM Socket up to 32GB Max (Min 8GB)	2 x 260pin SODIMM Socket up to 32GB DDR4 2400 SDRAM	2 x 260-pin DDR4 3200 MHz SO-DIMM socket up to 64GB Max	1 x 260pin SODIMM Socket up to 16GB DDR4 2133 SDRAM	N/A	1 x 262-pin DDR5 4800MHz SO-DIMM Socket up to 32GB Max (Min 8GB)
扩展	Optional M.2 Key B 3042/3052/2280 x 1 Optional M.2 Key E for WIFI x 1 Optional IET Expansion x 1	1 x M.2 (Key E, 2230) with PCIe x1 CNVI and USB2.0 for Wireless 1 x mini PCIe with SATA or PCIe x1, mSATA	Optional PCIe Low Profile Card x 1 Optional M.2 Storage x 1 Optional M.2 5G Module x 1	1 x Full Size (Support Half Size, Auto Switch for mSATA, USB, PCIe Signal)	N/A	Optional M.2 Key B 3042/3052/2280 x 1 Optional M.2 Key E for WIFI x 1
存储	1 x M.2 Key M Storage (Optional) 1 x 2.5" SSD (Optional)	1 x 2.5" SATA3 SSD	1 x M.2 Key-B 2242/3042/2260 for Storage	1 x 2.5" SATA3 SSD	N/A	1 x M.2 Key M Storage (Optional) 1 x 2.5" SSD (Optional)
USB	1 x USB 2.0, 3 x USB 3.0 1 x USB Type C, 1 x USB 1.1 (Isolated 5KV)	4 x USB 3.0	2 x USB 2.0 2 x USB Type C	4 x USB 3.0, 2 x USB 2.0 by Pin Header 1 x USB 2.0 (Isolated 5KV)	2 x USB 2.0 1 x USB Type B	1 x USB 2.0 3 x USB 3.0 1 x USB Type C
串口	1 x RS-232/422/485 1 x RS-232 (Isolated 5KV)	N/A	Optional	1 x RS-232/422/485, 1 x RS-232 1 x RS-232 (Isolated 5KV)	N/A	1 x RS-232/422/485
其它	Optional 5.0M AF camera Optional Barcode Scanner Optional NFC, Optional Capture Card Optional IET Board, Optional WIFI/BT	Dual LED Reading Light Bar, I/O Cover Option for 2 x 6900mAh Hot Swappable Batteries and 4 Slot Charging Bay Option for 5.0M Auto Focus Camera with Cover	Option 5.0M AF Camera Optional Barcode Scanner Optional NFC Optional Handset	Option 5.0M AF Camera Optional Barcode Scanner Optional NFC Optional Handset	HDMI Input DP Input VGA Input DC Output	Optional 5.0M AF Camera Optional NFC Optional WIFI/ BT
显示芯片组	Intel® 12th Generation CPU Integrated	Intel® HD Graphics 620	Intel® 11th Generation CPU Integrated	Intel® HD Graphics 520	N/A	Intel® 12th Generation CPU Integrated
音频	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S	RTD2525AR-CG Integrated	Realtek ALC888S
音频接口	Line-out, Mic-in, 2 x 2W Speaker	2 x 2W	Line-out, Mic-in, 2 x 2W Speaker	2 x 0.5W	Line-out, Mic-in, 2 x 2W Speaker	Line-out, Mic-in, 2 x 2W Speaker
以太网	1 x Intel® I225LM Gigabit Ethernet 1 x Intel® I226LM Gigabit Ethernet	1 x Intel® I211AT, 1 x Intel® I219LM	1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I226LM Gigabit Ethernet PHY	1 x Intel® I219LM, 1 x Intel® I211AT 1 x Intel® I210AT (Isolated 5KV) on IET Module	N/A	1 x Intel® I225LM Gigabit Ethernet 1 x Intel® I226LM Gigabit Ethernet
适配器	AC/ DC Medical Power Adapter Output: 120W Adapter (24V/ 5A Adapter)	AC/ DC Medical Power Adapter Output: 120W Adapter (24V/ 5A Adapter)	AC/ DC Medical Power Adapter Output: 120W Adapter (24V/ 5A Adapter)	AC/ DC Medical Power Adapter Output: 90W Adapter (19V/ 4.74A Adapter)	AC/ DC Power Adapter Output: 120W Adapter (24V/ 5A Adapter)	AC/ DC Medical Power Adapter Output: 120W Adapter (24V/5A Adapter)
结构 (前/后)	Plastic, Plastic	Plastic, Plastic	Plastic, Plastic	Plastic, Plastic	Plastic, Plastic	Plastic, Plastic
尺寸	592 x 382 x 49.5mm	380 x 587 x 45.5mm	539.6 x 342.6 x 45.4 mm	539.6 x 342.6 x 45.2 mm	539.6 x 342.6 x 45.5 mm	400 x 263 x 42.5 mm
重量	6.0 kg	6.9 kg (without Batteries)	4.8 kg	5.6 kg	5.3 kg	2.3 kg
工作温度	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
储存温度	-10°C ~ 60°C (14°F ~ 140°F)	-30°C ~ 70°C (-22°F ~ 158°F)	-10°C ~ 60°C (14°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)
认证	CE, FCC Class B, UL60601-1	CE, FCC Class B, UL60601-1 4th Edition	CE, FCC Class B, UL60601-1	CE, FCC Class B, UL60601-1 4th Edition	CE, FCC Class B	CE, FCC Class B, UL60601-1
操作系统	Windows 10 IoT, Linux	Win 10/ Linux	Win 10/ Linux	Win 7/ 10/ Linux	N/A	Win10 64bit, Linux

移动电池盒	EPB-1001
SBC	EPB-1001 Battery Board
MCU	IT8911
充电IC	LTC1760
电源IC	LTC3789 for Vout1
直流输入	24Vdc/ 5A
充电电流	4A Max. for 2 Batteries
充电电压	16.8 V
每个电池的输出电流	6.8 A
每个电池的输出电压	14.4 V
输出功率	12V/ 19V DC-out 80W
USB端口	Type A
Indicator Light	Power/ Battery1/ Battery 2
电源连接器	DC Jack with Lock
电源模式	DC in
颜色	Black/ White
尺寸	235 x 182 x 43 mm
重量	1.2 kg
工作温度	0°C ~ 40°C (32°F ~ 104°F)
储存温度	-40°C ~ 75°C (-40 ~ 167°F) (Without Battery Pack)
认证	CE/ FCC ANSI/ AAMI ES 60601 CAN/ CSA C22.2 No. 60601-1



平板电脑 / 显示器 / 移动端

## 工业显示器



型号	OFM-15W00	OFM-21W00
LCD尺寸	15.6", 16:9	21.5", 16:9
显示器	Full HD	Full HD
分辨率	1920 x 1080	1920 x 1080
像素间距	0.17925 (H) x 0.17925 (V)	0.24795 (H) x 0.24795 (V)
亮度	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	800	2000
视角	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	30 ms	35 ms
背光	LED	LED
触摸屏信息	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points
透光率	89 %	89 %
触摸控制器	USB Type (EETI)	USB Type (EETI)
输入连接器	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys
电源连接器	DC Jack (Option for Phoenix Connector)	DC Jack (Option for Phoenix Connector)
电源模式	+12V DC in (Option for 9V ~ 36V DC in)	+12V DC in (Option for 9V ~ 36V DC in)
适配器	By Option	By Option
结构 (前/后)	Metal	Metal
选项功能	Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal Available Panel Mount Kits, Wall Mount Kits by Option	Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal Available Panel Mount Kits, Wall Mount Kits by Option
尺寸	387 x 235 x 46 mm	501.9 x 294.2 x 53.4 mm
重量	2.5 kg	4.1 kg
工作温度	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)

型号	ARC-10W00	ARC-1200	ARC-1500	ARC-15W00	ARC-1700	ARC-21W00
LCD尺寸	10.1"	12.1"	15"	15.6"	17"	21.5"
显示器	WXGA	XGA	XGA	WXGA	SXGA	FHD
分辨率	1280 x 800	1024 x 768	1024 x 768	1366 x 768 (Optional for 1920 x 1080)	1280 x 1024	1920 x 1080
像素间距	0.1695 x 0.1695 mm	0.240 x 0.240 mm	0.297 x 0.297 mm	0.252 x 0.252 mm	0.264 x 0.264 mm	0.24795 x 0.24795
亮度	350 cd/m <sup>2</sup>	600 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	800	1000	2000	500	800	3000
视角	85 (U), 85 (D), 85 (L), 85 (R)	88 (U), 88 (D), 88 (L), 88 (R)	88 (U), 88 (D), 88 (L), 88 (R)	80 (U), 80 (D), 80 (L), 80 (R)	60 (U), 88 (D), 88 (L), 88 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	25 ms	11 ms	16 ms	8 ms	30 ms	25 ms
背光	LED	LED	LED	LED	LED	LED
触摸屏信息	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points	PCAP Multi-touch up to 10 Points
透光率	88%	88%	88%	88%	88%	88%
触摸控制器	USB Type	USB Type	USB Type	USB Type	USB Type	USB Type
输入连接器	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in	HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in
电源连接器	DC Jack (Option for Phoenix Connector)	DC Jack (Option for Phoenix Connector)	DC Jack (Option for Phoenix Connector)	DC Jack (Option for Phoenix Connector)	DC Jack (Option for Phoenix Connector)	DC Jack (Option for Phoenix Connector)
电源模式	+12V DC in (Option for 9V ~ 36V DC in)	+12V DC in (Option for 9V ~ 36V DC in)	+12V DC in (Option for 9V ~ 36V DC in)	+12V DC in (Option for 9V ~ 36V DC in)	+12V DC in (Option for 9V ~ 36V DC in)	+12V DC in (Option for 9V ~ 36V DC in)
适配器	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)
结构 (前/后)	Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits	Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits	Full Flat Die Casting with Cover Lens/ Metal Default with Panel mount kits	Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits	Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits	Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits
选项功能	Support WiFi6 Media Server function Bi-direction Image Transfer and USB Signal	Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal	Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal	Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal	Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal	Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal
尺寸	282.36 x 201 x 61.4 mm	293.77 x 226.31 x 61.5 mm	350.5 x 274.5 x 63.5 mm	391.21 x 239.21 x 68 mm	392.72 x 325.32 x 70.25 mm	538.05 x 341.05 x 71 mm
重量	2 kg	2.5 kg	3.7 kg	3.2 kg	4.6 kg	5.9 kg
工作温度	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F) Option -20°C ~ 70°C	-10°C ~ 50°C (14°F ~ 122°F) Option -20°C ~ 70°C	-10°C ~ 50°C (14°F ~ 122°F) Option -10°C ~ 60°C	-10°C ~ 50°C (14°F ~ 122°F) Option -20°C ~ 70°C	-10°C ~ 50°C (14°F ~ 122°F) Option -20°C ~ 70°C
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F) Option -30°C ~ 70°C	-20°C ~ 60°C (-4°F ~ 140°F) Option -30°C ~ 70°C	-20°C ~ 60°C (-4°F ~ 140°F) Option -30°C ~ 70°C	-20°C ~ 60°C (-4°F ~ 140°F), Option -30°C ~ 70°C	-20°C ~ 60°C (-4°F ~ 140°F)



平板电脑 / 显示器 / 移动端

## 移动平板电脑 / POS终端



型号	CAXA0
处理器	Intel® Celeron® N3350 1.1GHz Processor
系统内存	Onboard 4GB LPDDR4
存储	64GB M.2 Solid State Drive (Option up to 128GB)
操作系统	Windows 10/ Android 8.1
LCD尺寸	10.1", WXGA
分辨率	1280 x 800
亮度	300 cd/m <sup>2</sup>
触摸屏	10 Points Projective Capacitive
无线局域网	802.11 a/b/g/n/ac
蓝牙	Bluetooth 5.0
照相机	2MP Front Camera 8MP Rear Camera With Auto Focus
NFC	ISO/ IEC 14443 A/B, 15693/ 18092, NFCIP-1, NFCIP-2 Support MIFARE and Felica
条形码扫描仪	1D/2D Barcode Scanner (Optional)
下测I/O连接器	1 x Audio Jack, 2 x USB 2.0 Type A, 1 x Micro SD 1 x DC Jack, 1 x HDMI Output
控制按钮	1 x Power Button 1 x Barcode Scanner Trigger
LED指示灯	1 x Power
电源信息	DC Jack +19V
电池	28.44W Li-Polymer Battery
电池工作时间	6 Hours
结构	Rubber + Plastic
尺寸	281 x 193.3 x 19.95 mm
重量	1 kg
工作温度	0°C ~ 40°C (32°F ~ 104°F)
存储温度	-20°C ~ 60°C (-4°F ~ 140°F)
等级保护	IP65
认证	CE, FCC, VCCI, CCC, BSMI, EN60601-1, EN60601-1-2

型号	RiPac-10P3
处理器	Intel® Celeron® N3350 1.1GHz Processor
系统内存	4GB LPDDR4 Onboard
存储	64G eMMC/ Option for 128GB
操作系统	Windows 10, Android 8.1
LCD尺寸	10.1" LCD, 5" LCD (Customer Facing)
分辨率	1280 x 800 (10.1"), 1280 x 720 (5")
触摸屏	Projected Capacitive Touch
无线局域网	Built-in IEEE 8.0211 a/b/g/n/ac
蓝牙	Bluetooth 4.2
串行端口	2 x RS-232 in DB9, Powered with 5V/ 12V
USB Port	4 x USB 3.0
记忆卡	1 x SD Card Slot Support up to 128GB
网口	2 x RJ45 (Realtek 8111H)
钱箱	1 x RJ11 (12V/ 24V)
NFC	ISO/ IEC 14443 A/B, 15693, 18092 (Optional)
热敏打印纸	Printing Method: Thermal Dot Line Printing Resolution: (W) 8 Dots/mm, (H) 8 Dots/mm Maximum Print Speed: 200 mm/s Maximum Print Width: 72 mm Maximum Paper Width: 80 mm Type of Paper Cutting: Full Cut & Partial Cut
电源模式	+24V/ 6A 120W
尺寸	299 (L) x 316.2 (W) x 148.9 (H) mm
重量	3 kg ±10%
工作温度	5°C ~ 40°C (41°F ~ 104°F)
存储温度	-10°C ~ 60°C (14°F ~ 140°F)
工作湿度	0% ~ 95% Non-condensing
认证	CE, FCC, VCCI, CCC

型号	PT58	RiVar-1502	Rity153	Rity103
LCD尺寸	15.6", 16:9	15.6", 16:9	15", 4:3	10.1", 16:9
显示器 · 分辨率	Full HD, 1920 x 1080	Full HD, 1920 x 1080	XGA, 1024 x 768	WSVGA, 1024 x 600
像素间距	0.179 x 0.179 mm	0.179 x 0.179 mm	0.297 x 0.297 mm	0.2175 x 0.2088 mm
亮度	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
视角	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	88 (U), 88 (D), 88 (L), 88 (R)	70 (U), 70 (D), 70 (L), 70 (R)
触摸屏信息	Projective Capacitive	Projective Capacitive	5-Wire Resistive/ Projective Capacitive Touch	5-Wire Resistive/ Projective Capacitive Touch
透光率	85%	85%	RES 75% / PCT90%	RES 75% / PCT90%
触摸控制器	Build-in Touch Controller	Build-in Touch Controller	Onboard USB Touch (PenMount)/ USB Touch (EETI)	Onboard USB Touch (PenMount)/ USB Touch (EETI)
处理器	Intel® Celeron® Processor J6412 12th Gen. Intel® Core™ i3-1215U/ i5-1235U	Intel® Celeron® Processor J3455	Intel® Celeron® Processor N3350 1.1GHz	Intel® Celeron® Processor N3350 1.1GHz
系统芯片	Intel® Alder Lake SoC Intel® Elkhart Lake SoC	Intel® Apollo Lake SoC	Intel® Apollo Lake SoC	Intel® Apollo Lake SoC
系统内存	1 x 8GB DDR4 SO-DIMM Memory (Max. Support up to 16GB)	Default Onboard 4GB DDR4 SDRAM (Option up to 8GB)	1 x 204-Pin DDR3L 1066MHz SO-DIMM up to 8 GB	1 x 204-Pin DDR3L 1066MHz SO-DIMM up to 8 GB
扩展	1 x M.2 Slot for Storage	1 x M.2 E Key Slot for .24/ 5G WiFi Module	1 x M.2 B Key Slot Support	1 x M.2 B Key Slot Support
存储	M.2 2242 SATA 128GB	Default 128GB eMMC	1 x 2.5" Drive Bay, 1 x M.2 B Key Slot	1 x M.2 B Key Slot
I/O	3 x USB 2.0, 3 x USB 3.1 2 x COM Supported 5V/ 12V Output 1 x RJ-11 for Cash Drawer 12/ 24V 1 x Type C (DP+PD)	4 x USB 3.0 2 x COM Supported 5V/ 12V Output 1 x RJ-11 for Cash Drawer 12/ 24V 1 x HDMI	2 x USB 2.0, 4 x USB 3.0 2 x RS-232/422/485 (BIOS) 1 x RS-232, 1 x HDMI 1.4b, 1 x VGA 1 x RJ11 for Cash Drawer 1 x Battery in Connector	4 x USB 3.0 2 x RS-232/422/485 (BIOS) 1 x RS-232 1 x HDMI 1.4b 1 x RJ11 for Cash Drawer
显示芯片组	Intel® UHD Graphics	Intel® HD Graphics 500	Intel® HD Graphics 500	Intel® HD Graphics 500
音频	Realtek ALC887	ES8316C	Realtek 888S	Realtek 888S
音频接口	2 x 2W Speaker	2 x 2W Speaker	2 x 2W Speaker	2 x 2W Speaker
以太网	1 x RJ45 with Realtek RTL8111H	2 x RJ45 with Realtek 8111H	2 x Realtek RTL8111E-VB-GR	2 x Realtek RTL8111E-VB-GR
第二块液晶屏	10.1" Resolution 1280 x 800	N/A	N/A	N/A
可选项目	iButton Reader/ RFID Reader/ Fingerprint Reader/ 2D Scanner/ 2 x 20 Character LCM/ 3-Track MSR USB interface	Camera/ NFC/ MSR	MSR	N/A
电源连接器	Mini-din 4P for DC in w/ Lock Type, +19V DC in	DC Jack w/ Lock Type, +24V DC in	Mini-din 4P for DC in w/ Lock Type, +19V ~ 24V DC in	Mini-din 4P for DC in w/ Lock Type, +19V ~ 24V DC in
电源模式	ATX	ATX	AT/ ATX (ATX is Default Setting)	AT/ ATX (ATX is Default Setting)
适配器	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 65W Adapter (19V @ 3.42A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (24V @ 2.5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 90W Adapter (24V @ 3.75A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 90W Adapter (24V @ 3.75A Adapter)
结构	Aluminum + Plastic	Plastic	Black Coverlens, ABS Plastic	Black Coverlens, ABS Plastic
防护等级	IP65 for Front Panel	IP65 for Front Panel, IP41 for Rear	IP65 for Front Panel	IP65 for Front Panel
工作温度	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
储存温度	-10°C ~ 60°C (14°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)
尺寸 (长 x 宽 x 高)	361.6 x 300.5 x 191.9 mm	391 x 251 x 44.5 mm	362.1 x 290.08 x 51 mm	260 x 178 x 42 mm
重量	3 kg	2.7 kg	4 kg	1.8 kg
认证	CE/ FCC/ VCCI	CE/ FCC/ VCCI: Class B	CE, FCC Class B, VCCI	CE, FCC Class B, VCCI
操作系统	Windows 10 IoT (64 bit) Windows 11 (64 bit)	Windows 10, Android 8.1	Win10 IoT, Linux	Win10 IoT, Linux



平板电脑 / 显示器 / 移动端

## 触摸屏套件



型号	PCC-LPC-AB08-R	PCC-FPC-AB08-R	PCC-FPC-AB10-R	PCC-ARC-AB12-R
LCD尺寸	8", 4:3	8", 16:9	10.1", 16:9	12.1", 4:3
显示器	SVGA	WVGA	WSVGA	XGA
LED驱动板	Panel Built-in	External Board	Panel Built-in	Panel Built-in
分辨率	800 x 600	1024 x 600	1024 x 600	1024 x 768
像素间距	0.0675 mm (H) x 0.2025 mm (V)	0.1725 mm (W) x 0.1656 mm (H)	0.2175 mm (W) x 0.2088 mm (H)	0.240 mm (H) x 0.240 mm (V)
亮度	500	500	350	600
对比度	500	700	500	1000
视角	50 (U), 70 (D), 70 (L), 70 (R)	70 (U), 75 (D), 75 (L), 75 (R)	70 (U), 70 (D), 70 (L), 70 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	25 ms	20 ms	16 ms	11 ms
透光率	80%	80%	80%	80%
触摸控制器	EETI	EETI	EETI	EETI
触摸屏信息	5W	5W	5W	5W
显示类型	LVDS	LVDS	LVDS	LVDS
工作温度	-10°C ~ 70°C	-10°C ~ 70°C	0°C ~ 50°C	-10°C ~ 70°C



型号	PCC-PPC-AB15-R	PCC-SPC-AB17-R	PCC-PPC-AB21-R
LCD尺寸	15", 4:3	17", 4:3	21.5", 16:9
显示器	XGA	SXGA	FHD
LED驱动板	Panel Built-in	Panel Built-in	External Board
分辨率	1024 x 768	1280 x 1024	1920 x 1080
像素间距	0.297 mm (H) x 0.297 mm (V)	0.264 mm (H) x 0.264 mm (V)	0.248 mm (H) x 0.248 mm (V)
亮度	300	350	250
对比度	2000	800	3000
视角	88 (U), 88 (D), 88 (L), 88 (R)	80 (U), 80 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	16 ms	30 ms	18 ms
透光率	80%	80%	80%
触摸控制器	EETI	EETI	EETI
触摸屏信息	5W	5W	5W
显示类型	LVDS	LVDS	LVDS
工作温度	-10°C ~ 70°C	-10°C ~ 70°C	0°C ~ 50°C



型号	PCC-OPF-AB07-C	PCC-ARC-AB10-C	PCC-ARC-AB12-C	PCC-ARC-AB15-C
LCD尺寸	7", 16:10	10.1" 16:10	12.1", 4:3	15", 4:3
显示器	WXGA	WXGA	XGA	XGA
LED驱动板	Panel Built-in	Panel Built-in	Panel Built-in	Panel Built-in
分辨率	1280 x 800	1280 x 800	1024 x 768	1024 x 768
像素间距	0.03925 (H) x 0.11775 (V)	0.1695 mm (H) x 0.1695 mm (V)	0.240 mm (H) x 0.240 mm (V)	0.297 mm (H) x 0.297 mm (V)
亮度	300	350	600	300
对比度	900	800	1000	2000
视角	89 (U), 89 (D), 89 (L), 89 (R)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)	88 (U), 88 (D), 88 (L), 88 (R)
响应时间	30 ms	25 ms	11 ms	16 ms
透光率	89%	88%	89%	89%
触摸控制器	EETI	EETI	EETI	ILITEK
触摸屏信息	PCAP	PCAP	PCAP	PCAP
显示类型	LVDS	LVDS	LVDS	LVDS
工作温度	-20°C ~ 70°C	-10°C ~ 50°C	-20°C ~ 70°C	-10°C ~ 70°C



型号	PCC-ARC-AB15-C	PCC-ARC-AB15-C	PCC-ARC-AB17-C	PCC-ARC-AB21-C	PCC-APC-AB23-C
LCD尺寸	15.6", 16:9	15.6", 16:9	17", 4:3	21.5", 16:9	23.8", 16:9
显示器	WXGA	FHD	SXGA	FHD	FHD
LED驱动板	Panel Built-in	Panel Built-in	Panel Built-in	External Board	External Board
分辨率	1366 x 768	1920 x 1080	1280 x 1024	1920 x 1080	1920 x 1080
像素间距	0.252 mm (H) x 0.252 mm (V)	0.17925 (H) x 0.17925 (V)	0.264 mm (H) x 0.264 mm (V)	0.24795 mm (H) x 0.24795 mm (V)	0.2745 mm (H) x 0.2745 mm (V)
亮度	300	450	350	250	250
对比度	500	800	800	3000	1000
视角	80 (U), 80 (D), 80 (L), 80 (R)	85 (U), 85 (D), 85 (L), 85 (R)	60 (U), 80 (D), 80 (L), 80 (R)	89 (U), 89 (D), 89 (L), 89 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	8 ms	13 ms	30 ms	20 ms	16 ms
透光率	89%	85%	89%	89%	85%
触摸控制器	WEIDA	WEIDA	EETI	EETI	EETI
触摸屏信息	PCAP	PCAP	PCAP	PCAP	PCAP
显示类型	LVDS	LVDS	LVDS	LVDS	LVDS
工作温度	0°C ~ 60°C	-20°C ~ 70°C	-20°C ~ 70°C	0°C ~ 50°C	0°C ~ 50°C



类似纸张



始终打开



阳光下可视



宽视角



低功耗

电子纸

电子纸

## 通讯板

- 内置触摸屏
- 低功耗
- 高性能i.MX 7双处理器
- 无需电源即可维持显示图像

EPD-42T / EPD-4200



## 数字标牌

- 全平面前面板
- 室外/室内通用
- 前盖等级
- 可选开放式框架

EPD-3133 / EPD-2501



## 手写板

- 轻薄
- 高对比度
- 一次充电最多可使用三周
- 方便的书写, 突出显示和擦除工具
- A4大小

ENT-13T1



型号	EPD-42T	EPD-4200	EPD-3133	EPD-2501	ENT-13T1
LCD尺寸	42"	42"	31.2"	25.3"	13.3"
分辨率	H: 2160 x V: 2880	H: 2160 x V: 2880	H: 2560 x V: 1440	H:3200 x V:1800	H: 1650 x V: 2200
视角	180 (U), 180 (D), 180 (L), 180 (R)	180 (U), 180 (D), 180 (L), 180 (R)	180 (U), 180 (D), 180 (L), 180 (R)	180 (U), 180 (D), 180 (L), 180 (R)	180 (U), 180 (D), 180 (L), 180 (R)
触摸屏信息	Projective Capacitive	Cover Lens Only	Projective Capacitive	Cover Lens Only	Projective Capacitive
处理器	NXP i.MX 7 Dual Processor/ Dual Arm® Cortex®-A7 Cores and Cortex-M4	N/A	Onboard Intel® Celeron® SoC BGA Processor N3350 (Apollo Lake Platform)	Onboard Intel® Celeron® SoC BGA Processor N3350 (Apollo Lake Platform)	88IAPI40A0-BTY2C012TT404 (Cortex-A53 1.2GHz x 4 Core)
系统内存	On-Board 2GB DDR3L	N/A	1 x 204-Pin DDR3L 1866MTs SO-DIMM Up to 8GB	1 x 204-Pin DDR3L 1866MTs SO-DIMM up to 8GB	2GB DDR3L
无线	M.2 Wi-Fi/ Bluetooth Module (Optional)	N/A	mPCIe Wi-Fi/ Bluetooth Module (Optional)	mPCIe Wi-Fi/ Bluetooth Module (Optional)	Wi-Fi/ Bluetooth Module
存储	On-Board 8GB eMMC	N/A	2.5" SATA3 SSD 64GB	2.5" SATA3 SSD 64GB	16GB eMMC NAND Flash Memory Approx. 10.86GB Free Storage
外部I/O连接器	2 x USB 2.0 (Edge I/O) 1 x Micro USB for USB OTG 1 x RJ-45 Connector for Gigabit Ethernet	1 x USB 1.1	4 x USB 3.1 (Gen1 5Gbps) 1 x DB-9 Male Connector for COM1 2 x RJ45 LAN Port 2 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz	2 x HDMI 1 x COM 2 x LAN 4 x USB 3.1 (Gen1)	1 x USB
电源信息	DC +12V	DC +12V	DC +19V	DC +12V	Lithium-Ion Polymer Battery (2000mAh)
电源模式	AT	N/A	AT/ ATX	AT/ ATX	ATX
工作温度	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 40°C (32°F ~ 104°F)	5°C ~ 35°C (41°F ~ 95°F)
存储温度	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4 ~ 140°F)	0°C ~ 40°C (32°F ~ 104°F)
工作湿度	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 90% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing
软件支持	Android 5.1 (Default) Linux 4.15 (Yocto 2.1)	N/A	Android 8.1 (Default) Windows 10 IoT	Android 8.1 (Default) Windows 10 IoT	Android 5.1
尺寸	918.8 x 704.6 x 37.6 mm	934.2 x 704.6 x 39 mm	750 x 445 x 36.7 mm	607 x 350 x 38.8 mm	302.6 x 224 x 5.7 mm
重量	7.5 kg	11.4 kg	7.2 kg	4.4 kg	0.352 kg
认证	CE, FCC Class B	FCC Class B & CE (EN 55032 & 55035) ESD Level 3	CE, FCC Class A	CE, FCC Class B	FCC, VCCI

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