



能源

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数字医疗

透光率

# 创造美好生活

## 安勤IoT蓄势待发

# 3.5" 主板



型号	ECM-ADLS	ECM-CFS	ECM-KBLH	ECM-WHL	ECM-KBLU	ECM-EHL	ECM-EHL3	ECM-TGU	ECM-TGUC
<b>处理器</b>	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)	7th Gen Intel® Core™ i7/i5/i3/ Celeron® Processor	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 11th Gen Intel® Tiger Lake U Core™ & Celeron® BGA Processor (with CPU Bottom Mounted)	Onboard 11th Gen Intel® Tiger Lake U Core™ & Celeron® BGA Processor (with CPU Bottom Mounted)
<b>系统芯片</b>	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
<b>系统内存</b>	1 x 262-pin DDR5 4800MHz SO-DIMM supports up to 32GB	1 x 260-Pin DDR4 2400MHz SO-DIMM up to 32 GB	1 x 260-Pin DDR4 2400MHz SO-DIMM up to 16 GB	2X 260-pin DDR4 2400MHz SO-DIMM up to 64GB	1 x 260-Pin DDR4 2133MT/s SO-DIMM Up to 16 GB	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)
<b>看门狗计时器</b>	H/W Reset, 1sec. ~ 65535sec.	H/W Reset, 1sec. ~ 65535sec.	H/W Reset, 1sec. ~ 65535sec.	H/W Reset, 1sec. ~ 65535sec.	H/W Reset, 1sec. ~ 65535sec.	H/W Reset, 1sec. ~ 65535sec. and 1sec./step	H/W Reset, 1sec. ~ 65535sec. and 1sec./step	H/W Reset, 1sec. ~ 65535sec. and 1sec./step	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
<b>扩展</b>	1 x M.2 (2230) E-Key	1 x Mini PCIe Supports mSATA (Q370 support mPCIe/mSATA/USB2.0 device, H310 support mSATA/USB2.0 device)	1 x Mini PCIe Supports mSATA 1 x M.2 (2242) B-Key	1 x M.2 (2242/3042) B Key, (SATA, USB3.0/2.0, SIM Slot) 1 x M.2 E Key 2230, (PCIe, USB2.0, CNVI)	1 x Full Size mPCIe, 1 x M.2 (2242/3042) B Key	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
<b>存储</b>	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 mSATA support from Mini PCIe, 1 x M.2 (M.2 support SATA or PCIe x1/USB)	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
<b>I/O</b>	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	2 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 8bit GPIO, 1 x LPC, 1 x SPI	4 x USB 2.0, 2 x USB 3.1 Gen2 1 x SATA III, 3x 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, 4x 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, 4x RS-232, 2 x RS-232/422/485 1 x 8bit GPIO, 1 x LPC, 1 x SPI	5 x USB 2.0, 3 x USB 3.2 1 x SATA III, 5x RS-232, 1 x RS-232/422/485 1 x 8bit GPIO, 1 x SPI, 1 x e-SPI
<b>显示芯片组</b>	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+HDMI1(default LVDS enable) or HDMI1+HDMI2 (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® HD Graphics 620 (i7-7600U, i5-7300U, i3-7100U), Intel® HD Graphics 610 (Celeron 3965U) 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 2x 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
<b>分辨率</b>	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: Max. resolution 4096 x 2304 @ 30Hz LVDS: 1920 x 1080 @ 60Hz	Dual HDMI: Max. resolution 4096 x 2160 @ 24Hz LVDS: 1920 x 1080 @ 60Hz	Dual HDMI: Max. Resolution 4096 x 2160 @ 24/30Hz, LVDS: 1920 x 1080 @ 60Hz	Dual HDMI: Max. Resolution 4096 x 2160 @ 24Hz, LVDS: 1920 x 1080 @ 60Hz	HDMI: Max. resolution 4096 x 2160 @ 24Hz DP: Max. resolution 4096 x 2160 @ 60Hz eDP: Max. resolution 4096 x 2160 @ 60Hz	2 x DP++: Max. resolution 4096 x 2304 @ 60Hz Dual Channel 18/24bits LVDS Max. resolution 1920 x 1080 @ 60Hz eDP Max. resolution 4096 x 2160 @ 60Hz	2 x DP++: Max. resolution 4096 x 2304 @ 60Hz Dual Channel 18/24bits LVDS Max. resolution 1920 x 1080 @ 60Hz eDP Max. resolution 4096 x 2160 @ 60Hz	2 x DP++: Max. resolution 4096 x 2304 @ 60Hz Dual Channel 18/24bits LVDS Max. resolution 1920 x 1080 @ 60Hz eDP Max. resolution 4096 x 2160 @ 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 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	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
<b>以太网</b>	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	1 x Intel® I211AT 1 x Intel® I219LM	2 x Intel® I226LM/IT	1 x Intel® I226LM 2 x Intel® I210AT	3 x Intel® I226LM/IT	1 x Intel® I225V 1 x Intel® I219LM
<b>电源信息</b>	+12V	+12V	+12V	+12V	+12V ~ +24V	+9V ~ +36V	+9V ~ +36V	+12V ~ +24V	+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
<b>工作温度</b>	0°C ~ 60°C	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 ~ 60°C (-4~140°F) For wide temperature CPU SKU	0°C ~ 60°C (32°F ~ 140°F)
<b>尺寸 (长 x 宽)</b>	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)

## 3.5" 主板



型号	ECM-APL	ECM-APL2-A	ECM-BYT2	ECM-BYT
处理器	Intel® Pentium®/Celeron®/Atom™ SoC Processor	Intel® Pentium®/Celeron®/Atom™ SoC Processor (with CPU Bottom Mounted)	Intel® Atom™/ Celeron® processor (with CPU Bottom Mounted)	Intel® Atom™/ Celeron® processor
系统芯片	N/A	N/A	N/A	N/A
系统内存	1 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM supports up to 8 GB SDRAM (Non-ECC)	1 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM supports up to 8 GB SDRAM (Non-ECC)	1 x 204-Pin DDR3L 1066/1333MHz SO-DIMM up to 8 GB	1 x 204-Pin DDR3L 1066/1333MHz SO-DIMM up to 8 GB
看门狗计时器	H/W Reset, 1sec. ~ 65535sec. and 1sec./step	H/W Reset, 1sec. ~ 65535sec. and 1sec./step	H/W Reset, 1sec. ~ 65535sec and 1sec./step	H/W Reset, 1sec. ~ 65535sec and 1sec./step
扩展	1 x Mini PCIe (for PCIe & USB2.0) 1 x M.2(2242) B-Key	2 x Mini PCIe 1 x Full-size Mini PCIe with mSATA Supported 1 x Half-size Mini PCIe	2 x Mini PCIe, 1 x Full-size Mini PCIe with mSATA Supported, 1 x Half-size Mini PCIe	1 x Mini PCIe Supports mSATA
存储	1 x M.2 (M.2 support SATA or PCIe x1/USB)	1 x mSATA Supported from Mini PCIe	1 x mSATA Supported from Mini PCIe	1 x CFAST Slot 1 x mSATA Supported from Mini PCIe
I/O	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	2 x USB 2.0, 4 x USB 3.0, 1 x SATA III, 2 x RS-232/422/485, 1 x 8bit GPIO, 1 x LPC, 1 x SPI	7 x USB 2.0, 1 x USB 3.0, 1 x SATA II, 1 x RS-232, 1 x RS-232/422/485, 1 x 8bit GPIO, 1 x LPC	5 x USB 2.0, 1 x USB 3.0, 1 x SATA II, 3 x RS-232, 1 x RS-232/422/485, 1 x 8bit GPIO, 1 x LPC, 1 x PS2/ KB & MS
显示芯片组	Intel® HD Graphics 500 Supports triple display	Intel® HD Graphics 500 Supports triple display	Intel® HD Graphics Supports dual display	Intel® HD Graphics Supports dual display
分辨率	Dual HDMI: Max. resolution 3840 x 2160 @ 30Hz LVDS: Max. resolution 1920 x 1080 @ 60Hz	Dual HDMI: Max. resolution 3840 x 2160 @ 30Hz VGA:1920 x 1200 @ 60Hz	VGA: Max. resolution 2560 x 1080 @ 60Hz HDMI: Max. resolution 1920 x 1200 @ 60Hz LVDS: Max. resolution 1920 x 1080 @ 60Hz	VGA: Max. resolution 2560 x 1080 @ 60Hz HDMI: Max. resolution 1920 x 1200 @ 60Hz LVDS: Max. resolution 1920 x 1080 @ 60Hz
音频芯片组	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 Mic-In, Line-In, Line-Out
以太网	2 x Intel® I210AT	2 x Intel® I210AT	2 x Realtek 8111E	2 x Intel® I210AT
电源信息	+12V ~ +24V	+12V ~ +24V	+12V ~ +24V	+12V ~ +24V
电源模式	AT/ATX	AT/ATX	AT/ATX	AT/ATX
工作温度	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) (Optional for Wide Temp.)	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) (Optional for Wide Temp.)	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (-40°F ~ 185°F) (Optional for Wide Temp.)
尺寸 (长 x 宽)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)	5.7" x 4" (146 mm x 101 mm)

## Mini-ITX主板

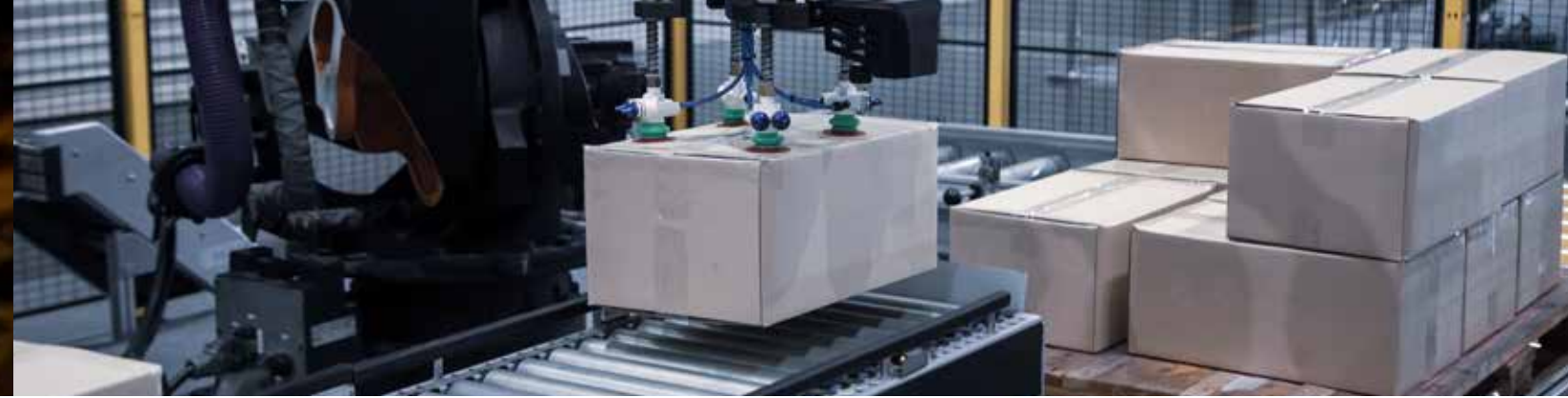


型号	EMX-R680P	EMX-H610P	EMX-H310P	EMX-C246P	EMX-Q170KP	EMX-H110KP
处理器	Intel® LGA1700 Socket Supports 12th Gen. Core™ i9/i7/ i5/ i3/ Pentium®/ Celeron® Processors (Max. TDP at 125W)	Intel® LGA1700 Socket Supports 12th Gen. Core™ i9/i7/ i5/ i3/ Pentium®/ Celeron® Processors (Max. TDP at 125W)	Intel® LGA1151 Socket Supports 8/9th Gen. Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors	Intel® LGA1151 Socket Supports 8/9th Gen. Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors	Intel® LGA1151 Socket Supports 6/7th Gen. Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors (Max. TDP at 95W)	Intel® LGA1151 Socket Supports 6/7th Gen. Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors (Max. TDP at 95W)
系统芯片	Intel® R680E Chipset	Intel® H610E Chipset	Intel® H310 Chipset	Intel® C246 Chipset	Intel® Q170 Chipset	Intel® H110 Chipset
系统内存	2 x 262-pin DDR5 4800MHz DIMM supports up to 64GB (ECC memory supported by CPU)	2 x 262-pin DDR5 4800MHz DIMM supports up to 64GB (ECC memory supported by CPU)	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB (ECC memory supported by CPU)	2 x 260-pin DDR4 2400MHz SO-DIMM supports up to 32GB	2 x 260-pin DDR4 2400MHz SO-DIMM supports up to 32GB
扩展	1 x PCI-e x16 2 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 M.2 B-Key	1 x PCI-e x16 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 Full Size Mini PCI-e 1 x Half Size Mini PCI-e	1 x PCI-e x16 1 x Full Size Mini PCI-e 1 x Half Size Mini PCI-e
显示	Intel® 12th Gen. CPU integrated HDMI + DP + DP + LVDS/ eDP	Intel® 12th Gen. CPU integrated VGA + HDMI + LVDS/eDP VGA + DP + LVDS/eDP VGA + DP + HDMI	Intel® 8/9th Gen. CPU integrated VGA + LVDS, VGA + HDMI, VGA + DP, HDMI + LVDS, HDMI + DP, LVDS + DP	Intel® 8/9th Gen. CPU integrated VGA + HDMI + LVDS VGA + HDMI + HDMI	Intel® 6/7th Gen. CPU integrated VGA + HDMI + LVDS VGA + DP + LVDS VGA + DP + HDMI	Intel® 6/7th Gen. CPU integrated VGA + LVDS, VGA + HDMI, VGA + DP, HDMI + LVDS, HDMI + DP, LVDS + DP
分辨率	HDMI: 2.1b (supported with LSPCON): 8K@60 2 x DP++: 4096x2160@60Hz LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes	HDMI: 4096 x 2304 @ 60Hz 1 x DP++: 4096x2160@60Hz LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes	VGA: 2048 x 1536 @ 60Hz HDMI: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz DP++: 4096x2160@30Hz Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS) By BOM option	VGA: 2048 x 1536 @ 60Hz HDMI: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz DP: 4096 x 2304 @ 60Hz LVDS (Chrontel CH7511B eDP to LVDS) By BOM option	VGA: 2560 x 1600 @ 60 Hz HDMI: 4096 x 2160 @ 24Hz, 2560 x 1600 @ 60Hz DP: 4096 x 2304 @ 60Hz Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)	VGA: 2560 x 1600 @ 60 Hz HDMI: 4096 x 2160 @ 24Hz, 2560 x 1600 @ 60Hz DP: 4096 x 2304 @ 60Hz Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)
音频	Realtek Audio codec Mic-in, Line-out 2W4Q Audio Amplifier	Realtek Audio codec Mic-in, Line-out, Line-in 2W4Q Audio Amplifier	N/A	Realtek Audio code 6W Audio Amplifier	Realtek Audio code Mic-in, Line-out, Line-in 6W Audio Amplifier	Realtek Audio code Mic-in, Line-out, Line-in 6W Audio Amplifier
以太网	4 x Intel® i226LM	2 x Intel® i226LM	1 x Intel® I219LM 3 x Intel® I210AT	1 x Intel® I219LM 3 x Intel® I210AT	1 x Intel® I219LM 1 x Intel® I210AT	1 x Intel® I219LM 1 x Intel® I210AT
USB/SATA/串口/ 网口	14/2/5/4	8/2/6/2	12/3/6/4	13/4/6/4	12/6/6/2	8/4/6/2
电源信息	+12V/+5V/5VSB/+3.3V/-12V	+12V/+5V/5VSB/+3.3V/-12V	+12V/+5V/5VSB/+3.3V/-12V	+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	AT/ATX	AT/ATX	AT/ATX
工作温度	0°C ~ 55°C (32°F ~ 131°F)	0°C ~ 55°C (32°F ~ 131°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)
尺寸 (长 x 宽)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)
重量	0.88 lbs (0.4 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)	0.88 lbs (0.4 kg)

# 超薄型Mini-ITX主板



型号	EMX-ADLP	EMX-TGLP	EMX-TGLC	EMX-SKLUP
<b>处理器</b>	Onboard 12th Gen Intel® Alder Lake-P Core™ & Celeron® BGA Processor	Onboard 11th Gen Intel® Tiger Lake U Core™ & Celeron® BGA Processor	Onboard 11th Gen Intel® Tiger Lake U Core™ & Celeron® BGA Processor	Onboard 6th Gen. Intel® Core™ & Celeron® BGA Processor
<b>系统芯片</b>	N/A	N/A	N/A	N/A
<b>系统内存</b>	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>	1x PCI-e x8 (For H series only) 1x PCI-e x8 (For P & U series) 2 x M.2 B-Key 1x M.2 M-Key 1x 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® 12th SoC Processor integrate 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>	2 x DP++: 4096 x 2304 @ 60 Hz, DP: 4096 x 2304 @ 60 Hz, (2 x DP++, 2 x DP, eDP, LVDS) Dual Channel 18/24bits LVDS 1920 x 1080 Hz eDP 4096 x 2304 @ 60 Hz	2 x DP++: 4096 x 2304 @ 60 Hz, DP: 4096 x 2304 @ 60 Hz, (2 x DP++, 2 x DP, eDP, LVDS) Dual Channel 18/24bits LVDS 1920 x 1080 Hz eDP 4096 x 2304 @ 60 Hz	2 x DP++: 4096 x 2304 @ 60 Hz, (2 x DP++, eDP, LVDS) Dual Channel 18/24bits LVDS 1920 x 1080 Hz eDP 4096 x 2304 @ 60 Hz	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 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>	3 x Intel® I226LM/IT 1 x Intel® I219LM	1 x Intel® I225LM/IT 1 x Intel® I219LM 2 x Intel® I210AT/IT	1 x Intel® I226LM 1 x Intel® I219LM	1 x Intel® I219LM 1 x Intel® I210AT
<b>USB/SATA/串口/网口</b>	8/2/6/4	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
<b>电源模式</b>	AT/ATX	AT/ATX	AT/ATX	AT/ATX
<b>工作温度</b>	0 ~ 60°C (32°F ~ 140°F) -20 ~ 60°C (-4~140°F) - For wide temperature CPU SKU	0 ~ 60°C (32°F ~ 140°F) -20 ~ 60°C (-4~140°F) - For wide temperature CPU SKU	0 ~ 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 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm 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)



型号	EMX-EHLP	EMX-APLP	EMX-BYT2	EMX-C246DP	EMX-H310DP
<b>处理器</b>	Intel® Pentium®/ Celeron®/ Atom™ SoC Processor	Intel® Celeron®/ Atom™ SoC Processor	Intel® Celeron® Processor J1900 (2M Cache, Up to 2.42 GHz)	Intel® LGA1151 Socket Supports 8/9th Gen. Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors	Intel® LGA1151 Socket Supports 8/9th Gen. Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors
<b>系统芯片</b>	N/A	N/A	N/A	Intel® C246 Chipset	Intel® H310 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 IBCEC)	2 x 204-pin DDR3L 1333/1600MHz SO-DIMM supports up to 16GB	2 x 204-pin DDR3L 1333MHz SO-DIMM supports up to 8GB	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB (ECC memory supported by CPU)	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB
<b>扩展</b>	1 x M.2 B-Key 1 x M.2 E-Key	1 x PCI-e 1 x Mini PCI-e 1 x M.2 E-Key 1 x SIM card slot	1 x PCI-e 1 x Mini PCI-e, 1 x Mini PCI-e (Support mSATA only) 1 x SD card slot, 1 x SIM card slot	1 x PCI-e x16 1 x M.2 M-Key 1 x M.2 E-Key 1 x M.2 B-Key	1 x PCI-e x16 1 x M.2 E-Key 1 x M.2 B-Key
<b>显示</b>	Intel® UHD Graphics for 10th Gen Intel® Processors Triple Display DP++, HDMI, LVDS (eDP by BOM option)	Intel® HD Graphics 500 Triple Display LVDS + (DP/HDMI) + DP++	Intel® HD Graphics HDMI + LVDS, HDMI + VGA, VGA + LVDS	Intel® 8/9th Gen. CPU integrated HDMI + HDMI + LVDS	Intel® 8/9th Gen. CPU integrated HDMI + LVDS
<b>分辨率</b>	1 x HDMI 2.0b: 4096 x 2160 @ 60 Hz 1 x DP++: 4096 x 2160 @ 60 Hz Dual Channel 18/24bits LVDS 1920 x 1080 1 x eDP 4096 x 2160 @ 60Hz (BOM optional)	HDMI 1.4b: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz; LVDS: 1920 x 1080 @ 60Hz; 2 x DP 1.2a: 4096 x 2160 @ 60Hz (1 x HDMI/DP, 1 x DP)	VGA: 2560 x 1600 @ 60Hz HDMI: 1920 x 1200 @ 60Hz LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes	HDMI 1.4b: 3840 x 2160 @ 30 Hz 2560 x 1600 @ 30 Hz	HDMI 1.4b: 3840 x 2160 @ 30 Hz 2560 x 1600 @ 30 Hz
<b>音频</b>	Realtek Audio code Mic-in, Line-out 2 x 6W Audio Amplifier	Realtek Audio codec Mic-in, Line-out 2 x 2W Audio Amplifier	Realtek Audio codec Mic-in, Line-out 2 x 2W Audio Amplifier	Realtek Audio code 6W Audio Amplifier	Realtek Audio code 6W Audio Amplifier
<b>以太网</b>	4 x Intel® I226LM/IT	2 x Intel® I226LM	2 x Intel® I210AT	1 x Intel® I219LM 2 x Intel® I210AT	1 x Intel® I219LM 2 x Intel® I210AT
<b>USB/SATA/串口/网口</b>	8/2/6/4	9/2/6/2	6/2/6/2	10/2/4/3	8/2/4/3
<b>电源信息</b>	+12V-24V	+12V-24V	+12V	+12V-26V	+12V-26V
<b>电源模式</b>	AT/ATX	AT/ATX	AT/ATX	AT/ATX	AT/ATX
<b>工作温度</b>	0 ~ 60°C (32 ~ 140°F) -20 ~ 60°C (-8 ~ 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)	0°C ~ 60°C (32°F ~ 140°F)
<b>尺寸 (长 x 宽)</b>	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm x 170 mm)	6.69" x 6.69" (170 mm 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)	0.88 lbs (0.4 kg)

## ATX/Micro ATX主板



型号	EAX-R680P	EAX-W480P	EAX-C246P	EAX-C246BP	EAX-Q170KP (C236KP)
<b>处理器</b>	Intel® LGA1700 Socket Supports 12th Gen. Intel® Core™, Pentium®/ Celeron® Processors	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	Intel® LGA1151 Socket Supports 8/9th Gen. Intel® Xeon® (Workstation)/ Core™, Pentium®/ Celeron® Processors	Intel® LGA1151 Socket Supports 6/7th Gen. Core™, Pentium®/ Celeron® Processors (Max. TDP at 95W) * C236KP support Intel® Xeon® (Workstation)
<b>系统芯片</b>	Intel® R680E Chipset	Intel® W480E Chipset	Intel® C246 Chipset	Intel® C246 Chipset	Intel® Q170 Chipset (Co-layer C236 Chipset)
<b>系统内存</b>	4 x 288-pin DDR4 3200MHz DIMM supports up to 128GB (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)	4 x 288-pin DDR4 400/2666MHz DIMM supports up to 128GB (ECC memory supported by CPU)	4 x 288-pin DDR4 2400MHz DIMM supports up to 64GB * C236: (ECC memory supported by CPU)
<b>扩展</b>	1 x PCI-e x16 or 2 x PCI-e x8, 3 x PCI-e x4 1 x PCI-e x2 2 x M.2 M-Key	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=	1 x PCI, 1 x PCI-e x16 or 2 x PCI-e x8 by auto switch, 3 x PCI-e x4	4 x PCI, 1 x PCI-e x16 1 x PCI-e x4, 1 x PCI-e x1 1 x M.2 Key-A, 1 x SIM card slot, 1 x Full/Half Size Mini-PCIe
<b>显示</b>	Intel® 12th Gen. CPU Integrated HDMI + DP++ + DP++	Intel® 10th Gen. CPU Integrated DVI-D + DP++ + DP++	Intel® 8/9th Gen. CPU Integrated VGA + HDMI + DP	Intel® 8/9th Gen. CPU Integrated DVI-I + DP++ + DP++	Intel® 6/7th Gen. CPU Integrated VGA + HDMI + DP
<b>分辨率</b>	HDMI: 3840 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz DP++: 1920 x 1080 @ 60Hz	DVI-D: 2048 x 1536 @ 60Hz DP++: 3840 x 2160 @ 60Hz	VGA: 2048 x 1536 @ 60 Hz HDMI: 3840 x 2160 @ 30 Hz, 2560 x 1600 @ 30 Hz DP: 4096 x 2304 @ 60Hz	DVI-I: 2048 x 1536 @ 60 Hz 2 x DP++: 4096 x 2304 @ 60Hz	VGA: 2048 x 1536 @ 50Hz HDMI: 4096 x 2160 @ 24Hz, 2560 x 1600 @ 60Hz DP: 4096 x 2304 @ 60Hz
<b>音频</b>	Realtek Audio codec Mic-in, Line-in, Line-out 1 x 6W Audio Amplifier	N/A	Realtek Audio code Mic-in, Line-in, Line-out 1 x 6W Audio Amplifier	Realtek Audio code Mic-in, Line-in, Line-out 1 x 6W Audio Amplifier	Realtek Audio code Mic-in, Line-in, Line-out 2 x 6W Audio Amplifier
<b>以太网</b>	1 x Intel® I225LM 1 x Intel® X550AT2 (optional)	1 x Intel® I225V 1 x Intel® I219LM 1 x Intel® I210AT	1 x Intel® I219LM 1 x Intel® I210AT	1 x Intel® I219LM 1 x Intel® I210AT	1 x Intel® I219LM 1 x Intel® I211AT/I20AT
<b>USB/SATA/串口/网口</b>	14/4/6/4	12/4/10/3	14/6/10/2	16/4/10/2	12/6/6/2
<b>电源信息</b>	+12V/+5V/5VSB/+3.3V/-12V	+12V/+5V/5VSB/+3.3V/-12V	+12V/+5V/5VSB/+3.3V/-12V	+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	AT/ATX
<b>工作温度</b>	0°C ~ 55°C (32°F ~ 131°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)
<b>尺寸 (长 x 宽)</b>	12" x 9.6" (304.8 mm x 243.84 mm)	12" x 9.6" (304.8 mm x 243.84 mm)	12" x 9.6" (304.8 mm x 243.84 mm)	12" x 9.6" (304.8 mm x 243.84 mm)	12" x 9.6" (304.8 mm x 243.84 mm)
<b>重量</b>	1.54 lbs (0.7 kg)	1.32 lbs (0.6 kg)	1.32 lbs (0.6 kg)	1.32 lbs (0.6 kg)	1.32 lbs (0.6 kg)

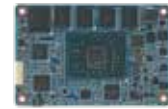
## 2.5"/1.8" SBC主板



型号	ERX-W480P
<b>处理器</b>	Intel® LGA1200 Socket Supports 10th Gen. Intel® Xeon® (Workstation)/ Core™, Pentium®/Celeron® Processors (Max. TDP at 95W)
<b>系统芯片</b>	Intel® W480E Chipset
<b>系统内存</b>	4 x 288-pin DDR4 2400-2933MHz DIMM supports up to 128GB (ECC memory supported by CPU)
<b>扩展</b>	2 x PCI-e x16 (1 x PCI-e x16 or 2 x PCIe-x8), 2 x PCI-e x4
<b>显示</b>	Intel® 10th Gen. CPU Integrated VGA / HDMI / DP++ / LVDS Triple display
<b>分辨率</b>	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
<b>音频</b>	Realtek Audio code Line-in, Mic-in, Line-out 6W Amplifier
<b>以太网</b>	1 x Intel® I219LM 1 x Intel® I210AT 2 x Intel® I225LM 1 x Intel® X550-AT2 (BOM option)
<b>USB/SATA/串口/网口</b>	14/4/6/4 or 6
<b>电源信息</b>	+12V/+5V/5VSB/+3.3V/-12V
<b>电源模式</b>	AT/ATX
<b>工作温度</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>尺寸 (长 x 宽)</b>	9.6" x 9.6" (243.84 mm x 243.84 mm)
<b>重量</b>	1.35 lbs (0.6 kg)

型号	EPX-EHLP	EPX-APLP	EZX-EHLP
<b>处理器</b>	Intel® Celeron®/ Atom™ SoC Processor	Intel® Celeron®/ Atom™ SoC Processor	Intel® Pentium®/ Celeron® / Atom™ Processor
<b>系统芯片</b>	N/A	N/A	N/A
<b>系统内存</b>	1 x 260-pin DDR4 2666MHz SO-DIMM supports up to 32 GB	1 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM supports up to 8 GB	Single channel LPDDR4 4/8GB memory down
<b>扩展</b>	1 x M.2 Key-B, 1 x M.2 Key-E, 1 x Micro SIM to SIM adapter by option	1 x M.2 Key-B, 1 x M.2 Key-E, 1 x Micro SIM to SIM adapter by option	1 x M.2 Key-B, 1 x Micro SIM to SIM adapter by option onboard eMMC
<b>显示</b>	Intel® UHD Graphics for 10th Gen Intel® Processors 2 x DP++/LVDS	Intel® HD Graphics 500 HDMI + LVDS + DP++	Intel® UHD Graphics for 10th Gen Intel® Processors Mini DP/ eDP
<b>分辨率</b>	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	mini DP++ : 4096 x 2160 @ 60 Hz eDP: 4096 x 2160 @ 60 Hz LVDS: 1920 x 1080
<b>音频</b>	N/A	Realtek Audio codec 2 x 2W Audio Amplifier	N/A
<b>以太网</b>	2 x Intel® I226LM/IT	2 x Intel® I226LM	1 x Intel® I210AT/IT
<b>USB/SATA/串口/网口</b>	6/1/2/2	6/1/6/2	6/0/1/1
<b>电源信息</b>	+12V	+12V	+12V
<b>电源模式</b>	AT/ATX	ATX	AT/ ATX
<b>工作温度</b>	0 ~ 60 °C (32 ~ 140 °F) -20 ~ 60°C (-8 ~ 140°F) - For wide temperature CPU SKU	0 ~ 60 °C (32 ~ 140 °F)	0 ~ 60 °C (32 ~ 140 °F) -20 ~ 60°C (-8 ~ 140°F) - For wide temperature CPU SKU
<b>尺寸 (长 x 宽)</b>	3.93" x 2.83" (100 mm x 72 mm)	3.93" x 2.83" (100 mm x 72 mm)	3.3" x 2.5" (85 mm x 65 mm)
<b>重量</b>	0.88 lbs (0.4 Kg)	0.88 lbs (0.4 Kg)	0.66 lbs (0.3 Kg)

# COM Express模块



型号	ESM-APLM	ESM-EHLC	ESM-APLC	ESM-BYT2	ESM-KBLU
处理器	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
系统内存	1 x 204-pin DDR3L 1600/1333MHz SO-DIMM up to 8GB	2 x 260-pin DDR4 3200MHz SO-DIMM supports up to 32GB (Only Atom® x6000 Series Processors support IBCECC)	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
扩展	1 x PCIe4	3 x PCIe1	3 x PCIe1	3 x PCIe1	8 x PCIe1
USB	6 x USB 2.0 2 x USB 3.0	8 x USB 2.0 4 x USB 3.2 Gen2x1 (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
SATA	2 x SATA III	2 x SATA III	2 x SATA III	2 x SATA II	3 x SATA III
串口	N/A	2 x UART	1 x UART	2 x UART	2 x UART
MIO	1 x SMBus 1 x LPC	1 x SMBus 1 x LPC/eSPI(default) 1 x I²C 1 x SPI	1 x SMBus 1 x LPC 1 x I²C	1 x SMBus 1 x LPC 1 x I²C	1 x SMBus 1 x LPC 1 x I²C 1 x SPI
显示芯片组	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)
显示	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
以太网	1 x Intel® I210AT	1 x Intel® I225LM/IT	1 x Intel® I210AT	1 x Intel® I210AT	1 x Intel® I219LM
电源信息	+4.75V ~ +20V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V
工作温度	0°C ~ 60°C (32°F ~ 140°F)	0°C ~ 60°C (32°F ~ 140°F) 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)
尺寸 (长 x 宽)	3.31" x 2.17" (84mm x 55mm)	3.7" x 3.7" (95 mm x 95 mm)	3.7" x 3.7" (95 mm x 95 mm)	3.7" x 3.7" (95 mm x 95 mm)	3.7" x 3.7" (95 mm 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



型号	ESM-TGH	ESM-CFH	ESM-SKLH	ESM-BYT
处理器	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	Intel® Atom™/Celeron® processor
系统内存	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 96 GB	2 x 260-pin DDR4 SO-DIMM up to 32GB	2 x 204-pin DDR3L 1066MHz SO-DIMM (for Bay trail-I E3826/E3825/E3815) or 204-pin DDR3L 1333MHz SO-DIMM up to 8 GB (E3845 & J1900 only support 1333MHz)
扩展	1 PEGx16 (Gen4, 16.0 GT/s) support dGFX and NVMe Storage 8 PCIe1 (Gen3, 8.0 GT/s)	1 x PCIe x16 Gen3 8 x PCIe x1	8 x PCIe1	3 x PCIe1
USB	8 x USB 2.0 4 x USB 3.2 Gen2x1 (10Gbps)	8 x USB 2.0 4 x USB 3.1	8 x USB 2.0 4 x USB 3.0	7 x USB 2.0 1 x USB 3.0
SATA	4 x SATA III	4 x SATA III	4 x SATA III	2 x SATA II
串口	2 x UART	2 x UART	2 x UART	1 x UART
MIO	1 x SMBus 1 x LPC (eSPI default) 1 x I²C	1 x SMBus 1 x LPC 1 x I²C 1 x SPI	1 x SMBus 1 x LPC 1 x I²C	1 x SMBus 1 x LPC 1 x I²C
显示芯片组	Intel® 11th H series SoC Processor integrated	Intel® 8/9th SoC Processor integrated	Intel® 6th SoC Processor integrated	Intel® HD Graphics
显示	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® Valleyview SoC integrated
以太网	1 x Intel® I225LM/IT	1 x Intel® I219LM	1 x Intel® I219LM	1 x Intel® I210AT
电源信息	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V	+9V ~ +19V
工作温度	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)	0°C ~ 60°C (32°F ~ 140°F) (Standard) Extend: -40°C ~ 85°C (-40°F ~ 185°F) on request
尺寸 (长 x 宽)	5" x 3.7" (125 mm x 95 mm)	5" x 3.7" (125 mm x 95 mm)	5" x 3.7" (125 mm x 95 mm)	5" x 3.7" (125 mm x 95 mm)
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B

## 基于ARM的SBC主板



型号	RSC-IMX8M	RSC-IMX61	ACP-IMX6POS	RSC-BCX6
处理器	NXP i.MX8M Cortex-A53 Quad Core 1.3GHz; Cortex-M4 core processor	NXP i.MX6 Dual Lite NXP i.MX6 Quad Core	NXP i.MX6 Dual Lite NXP i.MX6 Quad Core	NXP i.MX6 Solo
系统内存	1GB DDR4 expandable to 2GB	1GB DDR3 expandable to 2GB	1GB DDR3 (Dual Lite) 2GB DDR3 (Quad Core) expandable to 2GB	512MB DDR3 expandable to 1GB
存储	eMMC 16GB	eMMC 4GB	eMMC 4GB	N/A
外部I/O连接器	1x USB 3.0 Type A (Vertical type) 1x USB 3.0 Type C 1x Gigabit LAN 1x HDMI (Vertical type) 1x Micro SD socket 1x Hand Phone 1x Reset 1x Power LED (Green)	1x USB2.0 Type A x2 (Double deck) 1x HDMI with screw lock 1x 10/100/1000 LAN Optional Powered LAN support (IEEE 802.3at), 1x Micro SD socket, 1x Jack for I/R extender cable, co-design (Optional) with on board I/R sensor (Optional)	1x USB2.0 Type A x2 (Double deck) 1x 10/100/1000 LAN Optional 2nd 1x 10/100/1000 LAN (RJ45 x 1) 1x HDMI Connector (Vertical Type) 1x Mini USB Connector 1x RJ11 Connector for Cash Drawer 2x DB9 Male Connector (COM 1 & 2 can be select from RS232/422/485) 1x DC 12V Power Input by Power DC Jack 1x Micro SD socket	1x Line-Out 2x USB 2.0 1x Micro USB Connector (USB OTG) 1x HDMI 1x RJ-45 1x Barrel Type Connector 1x DC-in Jack
内部I/O连接器	1x Front Panel 2x MIPI CSI, 1x MIPI DSI 1x DC in 1x LVDS, 1x Black Light 1x I <sup>2</sup> C, 1x USB 2x M.2 socket 1x SIM Socket 1x Extend connector	1x USB2.0, 1x USB OTG 1x 2x5 GPIO, 1x LVDS 24bit x2 1x Backlight control 1x Line-out, speaker-out Mic-in, 1x Mini-PCIe (half size) 1x I <sup>2</sup> C, 1x SATA (i.MX6 Quad only) 1x Battery connector for RTC 1x debug port, 1x RS232	2x RS232, 1x debug port 1x LVDS 24bit x2, 1x Backlight control 1x VGA, 1x I <sup>2</sup> C 3x USB pin header 1x 5-wire Resistive Touch Interface 1x Dual Channel 24-bit LVDS 1x Stereo Speaker-out 1x Mini PCIe (Full size) 1x SIM Socket 1x Front Panel Connector with Power Button & Indicate LED for Power & WIFI 1x Battery connector for RTC	1x LVDS, 1x Backlight control 1x USB 2.0, 1x RS232 1x 8 bits GPIO 1x Front Panel, 1x Battery connector for RTC 1x I <sup>2</sup> C, 1x CAN Bus, 1x Mic-in, 1x Line-out (Optional) 1x Micro SD socket 1x Mini PCIe (Half size) 1x SIM Socket
电源信息	12 ~ 24V DC input, Terminal block	12 ~ 26V DC input, 2.5mm DC Jack, typical 19V input With brownout detection or Powered LAN	12 ~ 24V DC input	5V DC input
工作温度	-40°C ~ 85°C (-40°F ~ 185°F)	-20°C ~ 85°C (-4°F ~ 185°F)	A Version 0°C ~ 60°C (32°F ~ 140°F) B Version -20°C ~ 85°C (-4°F ~ 185°F)	0°C ~ 60°C (32°F ~ 140°F)
储存温度	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 85°C	-40°C ~ 85°C (-40°F ~ 185°F)	-20°C ~ 80°C (-4°F ~ 176°F)
尺寸 (长 x 宽)	146 mm x 102 mm	146 mm x 102 mm	175 mm x 110 mm	120 mm x 78 mm
重量	0.15 kg	0.15 kg	0.16 kg	0.1 kg
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class A
软件支持	Android 9.0/10 Yocto 2.5	Android 4.4 / 6.0 Yocto 2.1	Android 4.4 Yocto 1.7	Android 4.3, 4.4 and 5.0 can be supported if upgraded to 1G DDR3 memory Linux Yocto 1.7

## Qseven 模块



型号	E0M-APL	E0M-BYT
处理器	Intel® Pentium®/ Celeron® processor	Intel® Atom™/ Celeron® processor
系统内存	Onboard DDR3L 1600 & 1333MHz 4GB Up to 8GB	Onboard DDR3L 2GB up to 4GB (Processor E3845 only support 1333MHz)
扩展	3 x PCIe1	3 x PCIe1
USB	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 II
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 LPC, 1 x SMBus, 1 x I <sup>2</sup> C
显示芯片组	Intel® HD Graphics 500	Intel® HD Graphics
显示	(HDMI or DP) + (eDP or LVDS)	DDI (HDMI or DP) + LVDS
音频	Intel® High Definition Audio	Intel® High Definition Audio
以太网	1 x Intel® I210AT	1 x Intel® I211 (commercial)
电源信息	+5V	+5V
其它	N/A	N/A
工作温度	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)	2.8" x 2.8" (70 mm x 70 mm)	2.8" x 2.8" (70 mm x 70 mm)
认证	CE, FCC Class B	CE, FCC Class B
软件支持	Win 10 Linux Android	Win 10 Win 7 Win 8 Linux



## Qseven 解决方案

### 移动应用的超小型主板

- 开放的行业标准
- 开发成本低
- 高性能接口
- 高速串行接口
- 紧凑结构

低成本

低功耗

小尺寸





## SMARC功能评估板/ SMARC开发测试载板



型号	SMA-X81	SMA-IMX6-E	REV-SA01	REV-SA02	REV-SA03
<b>处理器</b>	NXP i.MX 8M Mini	NXP i.MX 6 Dual NXP i.MX 6 Quad Core	N/A	N/A	N/A
<b>系统内存</b>	1GB DDR4 expandable to 2 GB	1GB DDR3 expandable to 2 GB	N/A	N/A	N/A
<b>存储</b>	eMMC 16 GB	eMMC 8 GB	N/A	N/A	N/A
<b>外部I/O连接器</b>	1 x USB 2.0 Port (One OTG) 3 x I <sup>2</sup> C 1 x I <sup>2</sup> S 1 x SPI 8 x GPIO 1 x UART 1 x MIPI CSI 1 x MIPI DSI 1 x LVDS 3 x PCIE 4 x USB 2.0 1 x Giga Lan	2 x USB 2.0 Port (One OTG) 2 x RX/TX (Ser1/3) 2 x UART (Ser0/2) 3 x PCIe1 1 x MLB150 12 x GPIOs 1 x SDIO 1 x SATA eMMC 2 x SPI 3 x I <sup>2</sup> C 1 x SPDIF 1 x WDT 2 x CAN 1 x JTAG	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 Micro SD socket 1 x Mini USB (OTG) 1 x USB Type A 2.0 double deck 1 x HDMI 1 x VGA 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
<b>内部I/O连接器</b>	N/A	N/A	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 1 x BackLight 4P Header 1 x I2C Touch Screen connector 1 x MIPI DSI Screen connector 1 x MIPI CSI Screen connector 1 x LVDS Screen connector 1 x GPIO 16 bit 1 x CAN Bus
<b>电源信息</b>	12~24V	3V to 5.25V - Operates Directly from Single Level Lithium Ion Cells, or Fixed 3.3V or 5V Power Supplies	+9V ~ 36V DC-in (REV-SA01-02-A1R) +9V ~ 24V DC-in (REV-SA01-03-A1R)	DC +12V	DC +12V
<b>工作温度</b>	Optional Commercial Temp.: 0°C ~ 85°C (32°F ~ 185°F) Industrial Temperature: -40°C ~ 85°C (-40°F ~ 185°F)	Optional Commercial Temp.: 0°C ~ 60°C (32°F ~ 140°F) Industrial Temperature: -40°C ~ 85°C (-40°F ~ 185°F)	0°C ~ 60°C (32°F ~ 140°F)	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 85°C (-40°F ~ 185°F)
<b>储存温度</b>	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 85°C (-40°F ~ 185°F)	-20°C ~ 80°C (-40°F ~ 176°F)	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 85°C (-40°F ~ 185°F)
<b>尺寸 (长 x 宽)</b>	82 mm x 50 mm	82 mm x 50 mm	146 mm x 101 mm	170 mm x 170 mm	165 mm x 120 mm
<b>重量</b>	0.06 kg	0.06 kg	0.13 kg	0.024 kg	0.024 kg
<b>认证</b>	CE, FCC Class 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 Yocto 2.5	Android 4.4 Yocto 2.1	N/A	N/A	N/A



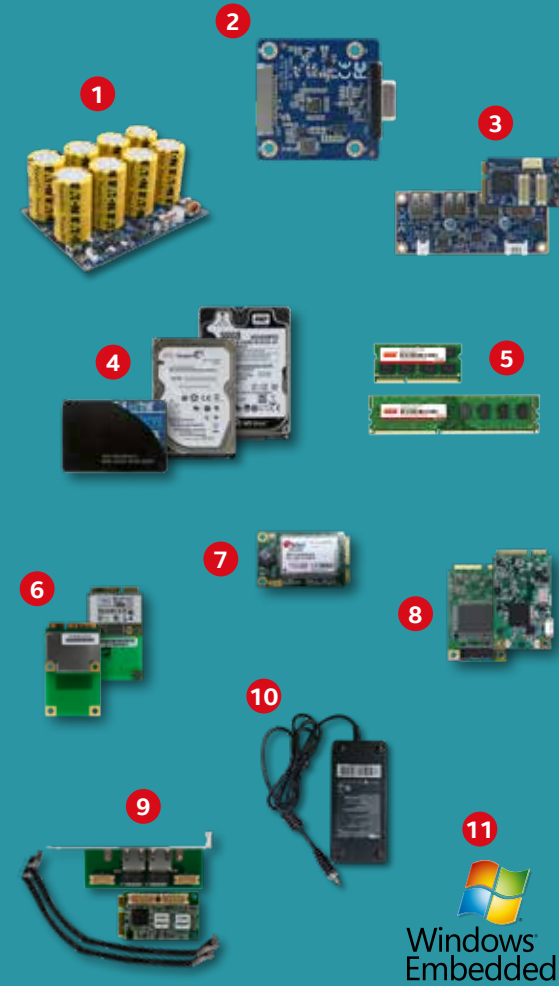
## Qseven载板/ 评估测试载板



型号	REV-0703 (A/B)	EEV-EX16-B1	EEV-EX15	EEV-EX14
<b>USB</b>	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 (Gen2/10Gbps)	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)
<b>SATA</b>	2 x SATA (On board)	4 x SATA III (On Board)	2 x SATA III (On Board)	4 x SATA II (On Board)
<b>串口</b>	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)
<b>视频</b>	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, 3 x HDMI 1 x LVDS (1 x LVDS on board) 1 x eDP	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)
<b>其它</b>	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 CAN, 1 x LPC 1 x JFP (Miscellaneous Setting Connector) 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
<b>DIO</b>	1 x 16 bit GPIO	1 x 8bit GPIO	1 x 8bit GPIO	1 x 8bit GPIO
<b>MIO</b>	1 x SD socket for version A 1 x Micro SD socket for version B	N/A	N/A	1 x IrDA
<b>扩展</b>	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
<b>音频芯片组</b>	ALC892/ WM8962	ALC888	ALC892	ALC892
<b>音频接口</b>	Mic-In, Line-In, Line-Out	Mic-In and Line-Out	Mic-In and Line-Out	Mic-In, Line-In and Line-Out
<b>电源信息</b>	DC +12V	ATX	ATX	AT/ATX
<b>工作温度</b>	-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)
<b>尺寸 (长 x 宽)</b>	6.69" x 6.69" (170 mm x 170 mm)	9.6" x 9.6" (243.84 mm x 243.84 mm)	6.7" x 6.7" (170 mm x 170 mm)	9.6" x 9.6" (243.84 mm x 243.84 mm)
<b>认证</b>	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B



## 外围设备&配件



安勤科技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。

外围设备&配件		
序号	嵌入式外围设备	描述
1	<b>Power Board</b>	EPM-1715 Super Cap Power Module
		EPM-1721 Railway 60W Power board
2	<b>Display Board</b>	EPM-1502 eDP to VGA converter
3	<b>IO Board</b>	EPM-1601 mPCIe to 4-RS-232 Module
		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
4	<b>Industrial Storage</b>	EPM-1608 M.2 2242/2260/2280 Dual 2.5 GbE LAN module
		SSD: 2.5", mSATA, M.2, CFAST, CF, DOM
		HDD: 2.5", 3.5"
		M.2: 2242, 2280
5	<b>Industrial Module</b>	Type: SO-DIMM, Long-DIMM Capacity: Max. Up to 32GB Temperature: Standard or Industrial temperature
6	<b>Wi-Fi Module</b>	Form Factor: mPCIe/ M.2 Bluetooth supported
7	<b>4G/ 5G Module</b>	Type: 4G/ 5G Module Interface: mCPIE, M.2
8	<b>Capture Card</b>	Mini SDI/HDV capture card w/H.264 High Profile encoding
9	<b>Mini LAN Port</b>	2-port 10/100/1000 Ethernet board
10	<b>Power Adapter</b>	AC DC Adapter 60W/84W/120W
11	<b>Microsoft Windows Embedded OS</b>	Avalue provides Embedded Software to customers who integrated Avalue's hardware products. Windows Embedded Standard 7/8 Windows 10 IoT Enterprise Windows 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°C to 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°C to 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°C to 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°C to 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 1.5/12/480 Mbps), USB1.1 compatible



### EPM-1605 USB to mPCIe Module with USIM

- Input Interface USB 2.0
- Output Interface USB 2.0
- Operation temperature : 0 °C to 60°C
- 1 x USIM Slot expansion



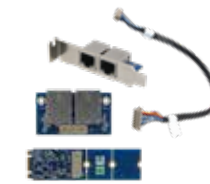
### EPM-1606 mPCIe to M.2 A/E key Transfer Board

- 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°C to 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-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°C ~ +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°C ~ +85°C
- Wide DC Input: +9 ~ 36Vdc
- Over voltage and current Protection
- Certified with EN50155 and EN50121-3-2

# 运输

安勤科技能为客户在智慧城市的公共交通、物流和相关基础设施等领域提供最佳的解决方案。同时，我们的理想是在更快的上市时间内，为客户提供最佳质量及性能的产品和理想的解决方案，使这个世界变得更加智能。



广泛的产品系列选择



运输市场的领域专有技术



解决方案构建思维



专门的支持团队

## 运输产品亮点

### 应用程序层








工业级监测器



电子墨水



加固平板电脑



加固Box PC



运输系统



平板电脑



远程管理设备



定位系统



车辆电源管理



操作系统  
(Win/安卓/Linux)



API/SDK



点火控制



### 铁路

### 车辆

### 海上运输



型号	VMS-EHLR	VMS-CFS	VMS-CFS-PSE	VMS-APL	EMS-TGL-Marine	EMS-SKLU-Marine
处理器	Intel® Atom® x6425E	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 (WT) Intel® Core™ i7-1185G7E/ i5-1145G7E/ i3-1115G4E (ST)	Intel® Core™ i7-6600U/ i5-6300U/ i3-6100U & Celeron® 3955U
系统内存	1 x 260-Pin SODIMM DDR4 3200MHz up to 32GB	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 8 GB	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 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 1 x mPCIe (PCIe/ USB2.0), w/ SIM Slot1 (external) 1 x Mini PCIe (PCIe/ USB2.0), w/ SIM Slot2 (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 (CNV1)	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) 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 x4) 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)	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 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 CAN2.0B (DB9), optional	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 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® 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
分辨率	DP++ 1.4: 4096x2304 @ 60Hz HDMI 2.0 : Max. resolution 4096 x 2304 @ 60Hz VGA: 1920 x 1080 @ 60Hz (optional)	DP 1.2: 4096 x 2160 @ 60Hz w/HDR HDMI 1.4: 4096 x 2160 @ 30Hz LVDS: 1920 x 1200 @ 60Hz	DP 1.2: 4096 x 2160 @ 60Hz w/HDR HDMI 1.4: 4096 x 2160 @ 30Hz LVDS: 1920 x 1200 @ 60Hz	DP: Max. Resolution 4096 x 2160 @ 60Hz LVDS: Max. Resolution 1920 x 1200 @ 60Hz	DP++ 1.4: 4096 x 2304 @ 60Hz HDMI 2.0b: Max. resolution 4096 x 2304 @ 60Hz	DP++1.2: Max. resolution 4096 x 2304 @ 60Hz
音频接口	Mic-In, Line-Out, Line-in (DB15)	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	1 x Intel® I211-AT 1 x Intel® I219-LM	1 x Intel® I211-AT 1 x Intel® I219-LM	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	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 12/24Vdc (+9V ~ +36V)	Typical 12/24Vdc (+9V ~ +36V)	Typical 12/24Vdc (+9V ~ +36V)	Typical 12/24Vdc (+9.9 ~ +25.2V), 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 (ATX is default setting)	AT/ATX (ATX is the default setting)
尺寸 (长 x 宽 x 高)	240 x 150 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 0T4	-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 ~ 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, FCC Class A, EN50155, EN50121, EN45545, 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

## 可扩展无风扇系统



型号	EMS-EHL	EMS-TGL	EMS-SKLU
主板	EBM-EHLS	EBM-TGLS	EBM-SKLUS
处理器	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	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 IET interface (1 x DDI, 2x PCIeIII x2, 3 x USB2.0, 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 PCIe3 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 PCIe1, 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-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 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 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	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), optional	1 x 8-bit GPIO (DB9)	1 x 12-bit GPIO
显示芯片组	Intel® UHD Graphics	Intel® Iris® Xe Graphics (Core i7/i5) Intel® UHD Graphics (Core i3)	Intel® HD Graphics 520/510
分辨率	DP++ 1.4: 4096x2304 @ 60Hz HDMI 2.0b: Max. resolution 4096x2304 @ 60Hz	DP++ 1.4: 4096x2304 @ 60Hz HDMI 2.0b: Max. resolution 4096x2304 @ 60Hz	DP++ 1.2: Max. resolution 4096x2304 @ 60Hz
音频芯片组	Realtek Audio code	Realtek Audio code	Realtek Audio code
音频接口	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	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
电源连接器	3-Pin Terminal Block	3-Pin Terminal Block	3-Pin Terminal Block
电源信息	Typical +12/24 Vdc (+9V ~ +32Vdv)	Typical +12/24 Vdc (+9V ~ +32Vdv)	Typical +12/24 Vdc (+9V ~ +32Vdv)
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
电源模式	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)	Optional AC-DC Adapter (60W)	Optional AC-DC Adapter (60W)
结构	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal
尺寸 (长 x 宽 x 高)	240mm x 150mm x 48 mm (Standard) 240mm x 150mm x 69 mm (w/ IET module)	240mm x 150mm x 48mm (Standard) 240mm x 150mm x 69mm (w/ IET module)	240mm x 151.5mm x 45mm (Standard) 240mm x 151.5mm x 60mm (w/ IET module)
工作温度	-40°C ~ 70°C (w/SSD) ambient w/ 0.5 air flow, WT sku -40°C ~ 60°C (w/SSD) ambient w/ 0.2 air flow, WT sku 0°C ~ 70°C (w/SSD) ambient w/ 0.5 air flow, ST sku 0°C ~ 60°C (w/SSD) ambient w/ 0.2 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, FCC Class B	CE, FCC Class B	CE, FCC Class A



型号	SLP-WHG	SLP-RPS
处理器	Onboard 8th Gen Intel® Core™ SoC i7-8665UE/ i5-8365UE/ i3-8145UE & Celeron® 4305UE BGA Processor	Intel® 12/13th Gen Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor
系统芯片	N/A	Intel® Q670E
系统内存	2 x 260-pin SODIMM socket Max. up to 32GB DDR4 2133MT/s	2 x DIMM Up to 64GB Dual Channel DDR5 SO-DIMM 4800MHz
扩展	1 x PCIe x1 slot 1 x PCIe x4 slot 1 x M.2 Key-E 2230 for Wi-Fi & BT Module	1 x PCIe x16 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)	1 x M.2 Key-B 3042/2242/2260/2280, support SSD 1 x M.2 Key-M 2242/2280, support SATA/ PCIe Gen IV x4 (NVMe SSD) 1 x 2.5" Drive Bay (internal)
USB	3 x USB3.1 Gen1 1 x USB Type C w/o ALT mode	4 x USB 3.1 Gen.2 (10Gbps)(under I226-LM) 2 x USB 2.0 (under I219-LM) 2 x USB 2.0 (180-degree type A Internal) (on backplane board)
串口	4 x RS-232	2 x RS232 4 x RS232/422/485
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	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 @ 30 Hz	2 x HDMI 2.0b: Max. resolution 4096x2304 @ 60Hz 1 x VGA: 2048 x 1536 @ 60Hz 1 x DP++ 1.4: 4096x2304 @ 60Hz
音频	N/A	Mic-In, Line-Out
以太网	1 x Intel® I219-LM 1 x Intel® I210-IT	1 x Intel® I219-LM 2 x Intel® I226-LM
电源连接器	Phoenix Connector	Phoenix Connector
电源信息	DC in +12V ~ +24V, wide voltage	DC in +12V ~ +24V, wide voltage
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: 180W Adapter (24V @ 7.5A)	NA
工作温度	-20~50°C (-4°F ~ 122°F) w/WT SSD, ambient w/ 0.5m/s air flow	-10°C ~ 60°C (14°F ~ 140°F) w/SSD, ambient w/ 0.5 air flow
储存温度	-40°C ~ 75°C (-40°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)
结构	Aluminum + Metal	Aluminum + Metal
安装工具包	NA	Wall mount kit (standard) DIN RAIL (optional)
尺寸 (长 x 宽 x 高)	217 mm x 115 mm x 220 mm	235 mm x 142mm x 219 mm
重量	2.6 kg	TBD



## 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

### 工业自动化

挑战	解决方案
PCIe 扩展	带PCIe扩展的准系统
低周期时间	小于250µs
高成本问题	实施成本低



## 机器视觉解决方案

- 工厂自动化
- 支持4 PoE智能摄像头
- 支持Din导轨设计
- 强大的边缘计算系统

### 工业自动化

挑战	解决方案
宽压	9-32V
恶劣环境	无风扇、坚固耐用的设计
功率要求	44位GPIO, 支持1.5KV隔离

# 无风扇嵌入式系统



型号	EPS-ADS	EPS-CFS	EPS-CFS2	ACS10-TGU
主板	ECM-ADS	ECM-CFS	ECM-CFS	ECM-TGUC
处理器	i9-12900TE, i7-12700TE, i5-12500TE, i3-12100TE	i7-8700T, i7-9700TE, i5-8500T, i5-9500TE, i3-8100T, i3-9100TE, G5400T, G4900T	i7-8700T, i7-9700TE, i5-8500T, i5-9500TE, i3-8100T, i3-9100TE, G5400T, G4900T	Intel® Core™ i5-1135G7 Intel® Core™ i3-1115G4
系统芯片	Intel® H610E Express Chipset Intel® Q670E Express Chipset	Intel® Q370 Express Chipset Intel® H310 Express Chipset	Intel® Q370 Express Chipset Intel® H310 Express Chipset	
系统内存	2 DIMM Dual Channel DDR5 4800MHz Up to 64GB	1 x 260-Pin DDR4 2400/2666MHz SO-DIMM up to 32 GB	1 x 260-Pin DDR4 2400/2666MHz SO-DIMM up to 32 GB	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/USB3.2 Gen. 1 and internal nano SIM slot1(support 5G Module 3.3V & 3.8V) 1 x M.2 Key-E 2230 PCIeIII x 1/USB2.0 for Wi-Fi & BT Modules	1 x mPCIe (default) (Q370 - PCIe/SATA/USB 2.0) (H310 - SATA/USB 2.0) 1 x mPCIe, support USB 2.0 (factory option)	1 x mPCIe (default) (Q370 - PCIe/SATA/USB 2.0) (H310 - SATA/USB 2.0)	1 x M.2 Key-E 2230 (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 x4 (NVMe SSD), RAID 0/1(0670 only) 1 x M.2 Key-B 2242, support SATA (share with expansion slot)	2 x 2.5" Drive Bay 1 x mSATA	2 x 2.5" Drive Bay 1 x mSATA	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, 4 x USB 3.1	2 x USB 2.0, 4 x USB 3.1	3 x USB 3.2 Gen.2 3 x USB 2.0
串口	2 x RS232 4 x RS232/422/485	2 x RS-232	2 x RS-232	1 x RS-232/422/485 1 x RS-232
显示芯片组	Intel® 12th Generation CPU integrated	Intel® UHD Graphics 630/610	Intel® UHD Graphics 630/610	Intel® Iris® Xe Graphics (i5-1135G7) Intel® UHD Graphics for 11th Gen Intel® Processors (i3-1115G4)
分辨率	HDMI 2.0b: Max. resolution 4096 x 2304 @ 60Hz DP++ 1.4: 4096 x 2304 @ 60Hz	HDMI: Max. resolution 4096 x 2304 @ 30Hz	HDMI: Max. resolution 4096 x 2304 @ 30Hz	DP++ 1.4: 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 and Line-Out	Mic-In and Line-Out	Mic-In and Line-Out	Mic-In and Line-Out
以太网芯片组	1 x Intel® I219-LM 1 x Intel® I226-LM	1 x Intel® I211AT 1 x Intel® I219LM	1 x Intel® I211AT 1 x Intel® I219LM	1 x Intel® I219LM 1 x Intel® I225-V
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	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack
电源信息	DC in typical 12/24V, wide voltage	+12V	+12V	+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	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)	AT/ATX (ATX is default setting)
尺寸 (长 x 宽 x 高)	215.8 x 202.5 x 75 mm	212 x 240 x 85 mm	170 x 195 x 65 mm	188 x 120 x 48mm
工作温度	With extended temperature peripherals w/ air flow: -10°C ~ 50°C (32°F ~ 122°F)	With extended temperature peripherals w/ air flow: -10°C ~ 50°C (14°F ~ 122°F)	With extended temperature peripherals w/ air flow: -10°C ~ 45°C (14°F ~ 113°F)	0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow
认证	CE, FCC Class A (DC-in)	CE, FCC Class B	CE, FCC Class B	CE, FCC Class A, UKCA



型号	NUC-TGU	NUC-EHL	NUC-APL	NUC-APL-Slim
处理器	11th Generation Intel® Core™ i7/ i5/ i3 BGA Processor	Intel® Celeron® J6412 Processor	Intel® Celeron® J3455/ N3350 Processor	Intel® Celeron® J3455/ N3350 Processor
系统芯片	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
扩展	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)
存储	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 (7mm) 1 x M.2 (Key-B, 2242)	1 x M.2 (Key-B, 2242)
USB	4 x USB 3.2 Gen.2, 2 x USB 2.0	4 x USB 3.2Gen.2, 2 x USB 2.0	4 x USB 3.0 (5Gbps)	4 x USB 3.0 (5Gbps)
串口	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)
其它	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 w/ Dust Cover	1 x Power on/off Button w/ LED 1 x Storage LED 2 x Antenna Mounting w/ Dust Cover
显示	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
音频	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)
以太网	1 x Intel I225LM, 1 x Intel I219LM	2 x Intel I225LM	2 x Realtek RTL8111E Gigabit	2 x Realtek RTL8111E Gigabit
电源连接器	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack
电源信息	+12V	+12V	+12V	+12V
电源模式	ATX	ATX	ATX	ATX
适配器	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W Adapter (12V @ 10A)	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W Adapter (12V @ 10A)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A)
工作温度	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)
结构	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal
安装工具包	Stand/ Din Rail/ VESA	Stand/ Din Rail/ VESA	VESA/ Din rail	VESA/ Din rail
尺寸 (长 x 宽 x 高)	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)
重量	1 kg	1 kg	0.85 kg	0.72kg
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class A	CE, FCC Class A



## 无风扇嵌入式系统



型号	EPC-TGU	EPC-EHL	EPC-WHL	EPC-SKLU	EPC-APL
主板	ECM-TGU	ECM-EHL	ECM-WHL	ECM-SKLU	ECM-APL2
处理器	11th Generation Intel® Core™ i7/ i5/ i3/ Celeron® Processor	Intel® ATOM® Processor x64i3E Processor	8th Generation Intel® Core™ i7/ i5/ i3/ Celeron® Processor	6th Generation Intel® Core™ i7/ i5/ i3/ Celeron® Processor	Intel® Pentium® N4200 Processor Intel® Celeron® J3455/ N3350 Processor
系统内存	1x 260-Pin SO-DIMM Socket, Max. Up to 32GB DDR4 3200MHz	1x 260-Pin SO-DIMM Socket, Max. Up to 32GB DDR4 3200MHz	2x 260-Pin DDR4 2400MHz SO-DIMM Socket Up to 64GB	1x 260-Pin DDR4 2133MHz SO-DIMM up to 16 GB	1x 204-Pin DDR3L 1866MHz SO-DIMM up to 8 GB
扩展	1x M.2 (Key-M, 2242) 1x M.2 (Key-B, 2242/3042/3052, w/ SIM Slot) 1x M.2 (Key-E, 2230)	1x M.2 (Key-B, 2242/3042, w/ SIM Slot) 1x M.2 (Key-E, 2230)	1x M.2 (Key-B, 2242/3042, w/ SIM Slot) 1x M.2 (Key-E, 2230, CNVi)	1x Full Size Mini PCIe (mSATA) 1x M.2 (Key-B, 2242, w/SIM Slot)	1x Full size Mini PCIe Supports mSATA 1x Half size Mini PCIe Supports Wi-Fi Module
存储	1x 2.5" Drive Bay (7mm) 1x M.2 (Key-M, 2242, NVMe) 1x M.2 (Key-B, 2242)	1x 2.5" Drive Bay (7mm) 1x M.2 (Key-B, 2242)	1x 2.5" Drive Bay (7mm) 1x M.2 (Key-B, 2242)	1x 2.5" Drive Bay (7mm) 1x M.2 (Key-B, 2242) 1x mSATA	1x 2.5" Drive Bay 1x mSATA
USB	4x USB 3.1 Gen.2 2x USB 2.0	2x USB 3.1, 2x USB 2.0	4x USB 3.1	2x USB 2.0, 4x USB 3.0	4x USB 3.0
串口	2x RS232/422/485 (BIOS)	4x RS232	1x RS232 (Factory Option)	1x RS-232 1x RS-232/422/485 (Cable & BIOS)	1x RS-232/422/485 (Jumper)
其它	2x Antenna Mounting with Dust Protection Cover	2x Antenna Mounting with Dust Protection Cover	2x Antenna Mounting with Dust Protection Cover	2x Antenna Mounting with Dust Protection Cover	2x Antenna Mounting with Dust Protection Cover
显示芯片组	Intel® Iris® Xe Graphics (i7/ i5) Intel® Iris® UHD Graphics (i3/Celeron)	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® UHD Graphics 620 (i7/ i5/ i3) Intel® UHD Graphics 610 (Celeron)	Intel® HD Graphics 520/ 510	Intel® HD Graphics 505/500
分辨率	DP++ 1.4a: 4096 x 2304 @ 60Hz	1x HDMI 2.0b Max resolution 4096 x 2160 @ 60Hz 1x DP 1.4a Max resolution 4096 x 2160 @ 60Hz	2x HDMI 1.4: Max. Resolution 4096 x 2160 @ 24Hz	2x HDMI: Max. Resolution 4096 x 2160 @ 24Hz	1x VGA: Max. resolution 1920 x 1200 @ 60Hz 1x HDMI: Max. resolution 3840 x 2160 @ 30Hz
音频芯片组	Realtek Audio code	Realtek Audio code	Realtek Audio code	Realtek Audio code	Realtek Audio code
音频接口	1x Combo Jack (Mic-In + Line-Out)	1x Line-Out 1x Mic-In	1x Line-Out 1x Mic-In	Mic-in/ Line-out (Factory Option)	Mic-in/ Line-out (Factory Option)
以太网芯片组	2x Intel® I226-LM	2x Intel® I226-IT	1x Intel® I211AT 1x Intel® I219LM	1x Intel® I211AT 1x Intel® I219LM	2x Intel® I211AT
以太网接口	2x RJ45	2x RJ45	2x RJ45	2x RJ45	2x RJ45
电源连接器	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack	Lockable DC Jack
电源信息	+12V	+12V +24V	+12V	+12V ~ +26V	+12V ~ +26V
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	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)	AT/ ATX (ATX is default setting)
适配器	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 120W 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 @ 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: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter
结构	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal	Aluminum + Metal
尺寸 (长 x 宽 x 高)	6.97" x 4.84" x 2.17" (177mm x 123mm x 55mm)	6.97" x 4.84" x 2.2" (177mm x 123mm x 65mm)	6.97" x 4.84" x 2.17" (177mm x 123mm x 55mm)	7" x 4.8" x 2.0" (177mm x 123mm x 50mm)	6.97" x 4.84" x 1.77" (177mm x 123mm x 45mm)
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)	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 (14°F ~ 122°F)	With extended temp. peripherals w/ air flow: -10°C ~ 50°C (14°F ~ 122°F)
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B



## 基于ARM的系统/ 无线传感器节点



型号	AIB-IMX6	AIB-IMX6A	AIB-IMX8M
处理器	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
系统内存	Onboard DDR3 1GB	Onboard DDR3 1GB	Onboard DDR4 2GB
存储	1x On board 4GB eMMC	1x On board 8GB eMMC	1x On board 8GB eMMC
外部I/O连接器	1x USB2.0 Type A (Double deck) 1x HDMI 1x 10/100/1000 LAN RJ45 Optional Powered LAN support (IEEE 802.3at) 1x Micro SD socket	2x USB 2.0 (Double deck) 1x Mini-USB Connector 4x COM Port COM1/2 on board-DB9 (RS232/422/485) COM3 Cable-DB9 (RS232) Debug Port 1x HDMI 2x Gigabit LAN 1x Micro SD socket	1x USB 3.0 Type A (Vertical type) 1x USB 3.0 Type C 2x Gigabit LAN 1x HDMI (Vertical type) 1x Micro SD socket 1x Hand Phone 1x Reset 1x Power LED (Green)
电源信息	12 ~ 26V DC input, 2.5mm DC Jack, typical 19V input With brownout detection or Powered LAN (optional)	12 ~ 24V DC input, 2.5mm DC Jack, typical 19V input With brownout detection	12 ~ 24V DC input, Terminal block
工作温度	-20°C ~ 70°C (-4°F ~ 158°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-40°C ~ 85°C (-40°F ~ 185°F)
储存温度	-40°C ~ 70°C (-40°F ~ 158°F)	-20°C ~ 70°C (-4°F ~ 158°F)	-40°C ~ 85°C (-40°F ~ 185°F)
尺寸 (长 x 宽 x 高)	153 mm x 107.8 mm x 30 mm	186 mm x 121.35 mm x 37 mm	177 mm x 112 mm x 53.5 mm
重量	1.5 kg	1.0 kg	2.0 kg
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
软件支持	Android 4.4 or 6.0 Yocto 2.1	Yocto 1.7 / 2.5	Android 9.0 Linux Yocto 2.5

型号	ASN-NBIOT
处理器	STMicroelectronics STM32L-476ZGT6
闪存存储器	1MB Flash Memory
SRAM	128KB SRAM
LPWAN模块	Quectel BC95-G Support LTE Band : 1/3/5/8/20/28
GPS模块	Quectel L70B-M39
指示LED	LED for Power & NBIOT connection status Power: Green OK; Orange Charging; Red Lower battery NBIOT: Green Connected; Red Disconnected
电池	1S2P 18650 Rechargeable Battery
外部I/O连接器	1x IP65 M12 connector for power input and sensors I/O interface include with UART/SPI/I2C/ADC/DAC
内部I/O连接器	Micro USB : Firmware update interface for STM32L476ZGT6 Micro SD : Micro SD socket for storage extension Micro Sim : Micro Sim socket for NBIOT JI01 : 20 Pins I/O interface for sensors, include with UART/SPI/I2C/ADC signals Antenna 1 : Antenna connector for NBIOT module Antenna 2 : Antenna connector for GPS module
电源信息	8V ~ 18V Wide Range DC IN (Typical : 12V DC IN)
IP级别	IP65
安装方式	DIN 35 rail or wall mount
工作温度	-20°C ~ 60°C (-4°F ~ 140°F) w/o battery 15°C ~ 40°C (59°F ~ 104°F) w/ battery
储存温度	-40°C ~ 85°C (-40°F ~ 185°F) w/o battery -20°C ~ 20°C (-4°F ~ 68°F) w/ battery
尺寸 (长 x 宽 x 高)	38.7 mm x 94 mm x 148 mm
重量	w/o Battery: 0.23 KG w/ Battery: 0.33 KG

# 高性能计算解决方案

安勤的HPC系列产品具有高速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IPMI 2.0

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



## 延长生命周期

Intel®将IOTG路线图产品的可用性延长至10年，以响应物联网市场需求（基于Intel®IOTG路线）

## 高性能计算标准模组



### 主板

- 完成设计验证，包括SI、功率和热测量。
- 支持IPMI的服务器板，具有服务器级可管理性。



### 准系统

- 根据客户要求灵活选择关键部件。
- 100%MP测试覆盖率和可追溯性。



### 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。

### 保健

精确诊断/生命科学

### 医疗

先进的医学影像技术

### 通信

高速工作站

### 智能制造

可视化机器视觉/变革分析

### 智慧城市

智能公共安全和执法技术



型号	HPM-246UA	HPM-621DE	HPM-621UA	HPM-SRSUA	HPM-SRSD
处理器	Intel® LGA1151 Socket supports 8th/9th Gen. Core i7/i5/i3/Pentium/Celeron/Xeon E Processors (Max. TDP at 95W)	Dual Intel® FCLGA3647 Sockets support 1st and 2nd Gen. Intel® Xeon Scalable Processors (Max. TDP at 150W each)	Intel® FCLGA3647 Socket supports 1st and 2nd Gen. Intel® Xeon Scalable Processors (Max. TDP at 150W)	Intel® LGA4677 Socket supports 4th Gen. Intel® Xeon® Scalable Processor (Max. TDP at 250W)	Dual Intel® LGA4677 Sockets support 4th Gen. Intel® Xeon® Scalable Processor (Max. TDP at 250W each)
系统芯片	Intel® C246 Chipset	Intel® C621 Chipset	Intel® C621 Chipset	Intel® C741 Chipset	Intel® C741 Chipset
系统内存	4 x DDR4 2666MHz ECC and Non-ECC DIMM support up to 128GB (ECC memory supported by specific CPU SKUs)	12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 1.5TB	6 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 768GB	6 x DDR5 4800/ 4400 MHz RDIMM up to 1.5TB	12 x DDR5 4800/ 4400 MHz RDIMM up to 3TB
扩展	1 x PCIe Gen 3.0 x16 slot 1 x PCIe Gen 2.0 x 8 slot 1 x PCIe Gen 3.0 x 4 slot 1 x PCIe Gen 3.0 x 1 slot 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)	Slot 1, PCI 3.0 slot Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 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)	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)	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)
显示	Intel® 8/9th Gen. CPU Integrated AST 2500 BMC Controller	AST 2500 BMC Controller	AST 2500 BMC Controller	AST 2600 BMC Controller	AST 2600 BMC Controller
分辨率	3 x DP++ port DP: 4096 x 2304 @ 60Hz HDMI: 4096 x 2160 @ 30Hz 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
以太网	7 x Intel® I210AT Giga-bit Ethernet	4 x Intel® I210AT Giga-bit Ethernet	4 x Intel® I210AT Giga-bit Ethernet	1 x Intel® I210AT 1Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet (Option)	1 x Intel® I210AT 1Giga-bit Ethernet 1 x Intel® I226-LM 2.5Giga-bit Ethernet 1 x Intel® X550-AT2 10Giga-bit Ethernet (Option)
USB/SATA/串口/网口	8/4/2/7	8/10/2/4	8/9/2/4	12/5/2/5	12/5/2/5
电源信息	1 x Std. 24 pin ATX Connector 1 x 8 Pin SSI 12V Connector	1 x Std. 24 Pin ATX Connector 2 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 3 x 8 Pin SSI 12V Connector	1 x Std. 24 Pin ATX Connector 5 x 8 Pin SSI 12V Connector
IPMI	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0	IPMI 2.0
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)	0°C ~ 60°C (32°F ~ 140°F) (without Intel X550) 0°C ~ 55°C (32°F ~ 131°F) (with Intel X550)	0°C ~ 60°C (32°F ~ 140°F) (without Intel X550) 0°C ~ 55°C (32°F ~ 131°F) (with Intel X550)
尺寸 (长 x 宽)	12" x 9.6" (304.8 mm x 243.84 mm) PCB thickness is 2.0mm	12" x 13" (304.8 mm x 330.2 mm) PCB thickness is 2.0mm	12" x 9.6" (304.8 mm x 243.84 mm) PCB thickness is 2.0mm	12" x 9.6" (304.8 mm x 243.84 mm) PCB thickness is 2.54mm	12" x 16.452" (304.8 mm x 417.88 mm) PCB thickness is 2.86mm
重量	1.54 lbs (0.7 kg)	3.96 lbs (1.8 kg)	2.14 lbs (0.97 kg)	2.62 lbs (1.19 kg)	TBD

# 高性能计算解决方案



型号	HPS-246U4A	HPS-246UTA	HPS-SRSU4A	HPS-SRSUTA	HPS-621D4A	HPS-621U4A	HPS-621DTA	HPS-621UTA	HPS-621U2A	
处理器	Intel® LGA1151 Socket supports 8th/9th Gen. Core i7/i5/i3/Pentium/Celeron/Xeon E Processors (Max. TDP at 95W)	Intel® LGA1151 Socket supports 8th/9th Gen. Core i7/i5/i3/Pentium/Celeron/Xeon E Processors (Max. TDP at 95W)	Intel® LGA4677 Socket supports 4th Gen. Intel® Xeon® Scalable Processor (Max. TDP at 250W)	Intel® LGA4677 Socket supports 4th Gen. Intel® Xeon® Scalable Processor (Max. TDP at 250W)	Dual Intel® FCLGA3647 Sockets support 1st and 2nd Gen. Intel® Xeon Scalable Processors (Max. TDP at 150W each)	Intel® FCLGA3647 Sockets supports 1st and 2nd Gen. Intel® Xeon Scalable Processors (Max. TDP at 150W)	Dual Intel® FCLGA3647 Sockets support 1st and 2nd Gen. Intel Xeon Scalable Processors (Max. TDP at 150W each)	Intel® FCLGA3647 Sockets supports 1st and 2nd Gen. Intel® Xeon Scalable processors (Max. TDP at 150W)	Intel® FCLGA3647 Sockets supports 1st and 2nd Gen. Intel® Xeon Scalable Processors (Max. TDP at 150W)	
芯片	Intel® C246 Chipset	Intel® C246 Chipset	Intel® C741 Chipset	Intel® C741 Chipset	Intel® C621 Chipset	Intel® C621 Chipset	Intel® C621 Chipset	Intel® C621 Chipset	Intel® C621 Chipset	
内存	4 x DDR4 2666MHz ECC and Non-ECC DIMM support up to 128GB (ECC memory supported by specific CPU SKUs)	4 x DDR4 2666MHz ECC and Non-ECC DIMM support up to 128GB (ECC memory supported by specific CPU SKUs)	6 x DDR5 4800/ 4400 MHz RDIMM up to 1.5TB	6 x DDR5 4800/ 4400 MHz RDIMM up to 1.5TB	12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 1.5TB	6 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 768GB	12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 1.5TB	6 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 768GB	6 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 768GB	
存储	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 1 x 5.25" storage bay 3 x Front accessible 2.5" storage bay	External: 4 x 5.25" storage bay Internal: 2x 3.5" drive bay
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	IPMI 2.0	
扩展槽	1 x PCIe Gen 3.0 x16 slot 1 x PCIe Gen 2.0 x 8 slot 1 x PCIe Gen 3.0 x 4 slot 1 x PCIe Gen 3.0 x 1 slot 1 x PCI 3.0 slot	1 x PCIe Gen 3.0 x16 slot 1 x PCIe Gen 2.0 x 8 slot 1 x PCIe Gen 3.0 x 4 slot 1 x PCIe Gen 3.0 x 1 slot 1 x PCI 3.0 slot	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)	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)	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)	Slot 1, PCI 3.0 slot Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 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)	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)	Slot 1, PCI 3.0 slot Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 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)	Slot 1, PCI 3.0 slot Slot 2, PCIe 3.0 x8 Slot 3, PCIe 3.0 x16 Slot 4, PCIe 3.0 x8 Slot 5, PCIe 3.0 x16 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	7 x RJ45 Gigabit Ethernet Ports, IPMI shared LAN1 Port	7 x RJ45 Gigabit Ethernet Ports, IPMI shared LAN1 Port	5 x RJ45 MGMT port for dedicated IPMI access only. LAN1 port for 1GbE shared with IPMI access. LAN2 port for 2.5GbE LAN3 and 4 ports for 10GbE (Option)	5 x RJ45 MGMT port for dedicated IPMI access only. LAN1 port for 1GbE shared with IPMI access. LAN2 port for 2.5GbE LAN3 and 4 ports for 10GbE (Option)	4 x RJ45 Gigabit Ethernet Ports, IPMI shared LAN1 Port	4 x RJ45 Gigabit Ethernet Ports, IPMI shared LAN1 Port	4 x RJ45 Gigabit Ethernet Ports, IPMI shared LAN1 Port	4 x RJ45 Gigabit Ethernet Ports, IPMI shared LAN1 Port	4 x RJ45 Gigabit Ethernet Ports, IPMI shared LAN1 Port	
USB	Front: 2 x USB 3.2 Gen1 Port Rear: 2 x USB 3.2 Gen2 Port	Front: 2 x USB 3.2 Gen1 Port Rear: 2 x USB 3.2 Gen2 Port	Front: 2x USB 3.2 Gen1 Port Rear: 4x USB 3.2 Gen1 Port + 2x USB 2.0 type A Port	Front: 2x USB 3.2 Gen1 Port Rear: 4x USB 3.2 Gen1 Port + 2x USB 2.0 type A Port	Front: 2 x USB 3.2 Gen1 Port Rear: 4 x USB 3.2 Gen1 Port	Front: 2 x USB 3.2 Gen1 Port Rear: 4 x USB 3.2 Gen1 Port	Front: 2 x USB 3.2 Gen1 Port Rear: 4 x USB 3.2 Gen1 Port	Front: 2 x USB 3.2 Gen1 port Rear: 4 x USB 3.2 Gen1 Port	Front: 2x USB 2.0 type A Port Rear: 4x USB 3.2 Gen1 Port	
显示	Intel® 8/9th Gen. CPU Integrated AST 2500 BMC Controller	Intel® 8/9th Gen. CPU Integrated AST 2500 BMC Controller	AST 2600 BMC Controller	AST 2600 BMC Controller	AST 2500 BMC Controller	AST 2500 BMC Controller	AST 2500 BMC Controller	AST 2500 BMC Controller	AST 2500 BMC Controller	
分辨率	3 x DP++ Port DP: 4096 x 2304 @ 60Hz HDMI: 4096 x 2160 @ 30Hz VGA: 1920 x 1200 @ 60Hz 32bpp	3 x DP++ Port 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	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
冷却风扇	2x 80 x 25mm Rear Fan	2x 80 x 25mm Rear Fan	1x 120 x 25mm Front Fan 2x 80 x 25mm Rear Fan	1x 120 x 25mm Front Fan 2x 80 x 25mm Rear Fan	1x 120 x 25mm Front Fan 2x 80 x 25mm Rear Fan	1x 120 x 25mm Front Fan 2x 80 x 25mm Rear Fan	1x 120 x 25mm Front Fan 2x 80 x 25mm Rear Fan	1x 120 x 25mm Front Fan 2x 80 x 25mm Rear Fan	4x 80 x 25mm Middle Fan	
电源信息	1 x 500W PS2 ATX PSU	1 x 500W 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 1300W PS2 ATX PSU	1x 1U 80plus Gold 500W PSU	
工作温度	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°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)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	
重量 (宽 x 高 x 深)	482.6mm x 174.8mm x 528mm with ear mount	340mm x 488mm x 528mm with external handles & pedestal stand	482.6mm x 174.8mm x 528mm with ear mount	340mm x 488mm x 528mm with external handles & pedestal stand	482.6mm x 174.8mm x 528mm with ear mount	482.6mm x 174.8mm x 528mm with ear mount	340mm x 488mm x 528mm with external handles & pedestal stand	340mm x 488mm x 528mm with external handles & pedestal stand	483mm x 88mm x 650mm	
外型	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	Tower Chassis	19" 4U Rackmount	19" 4U Rackmount	Tower Chassis	Tower Chassis	19" 2U Rackmount	
操作系统	Windows 10 IoT Enterprise 64-bit Windows Server 2016 Windows Server 2019	Windows 10 IoT Enterprise 64-bit Windows Server 2016 Windows Server 2019	Windows 10 IoT Enterprise LTSC 2021. Windows 11 IoT Enterprise. Windows Server IoT 2019 with VT-d disabled. Windows Server IoT 2022. Ubuntu 20.04 LTS or later Red Hat Enterprise Linux (RHEL) 8.2 & later	Windows 10 IoT Enterprise LTSC 2021. Windows 11 IoT Enterprise. Windows Server IoT 2019 with VT-d disabled. Windows Server IoT 2022. Ubuntu 20.04 LTS or later Red Hat Enterprise Linux (RHEL) 8.2 & later	Windows 10 IoT Enterprise 64-bit Windows Server 2016 Windows Server 2019	Windows 10 IoT Enterprise 64-bit Windows Server 2016 Windows Server 2019	Windows 10 IoT Enterprise 64-bit Windows Server 2016 Windows Server 2019	Windows 10 IoT Enterprise 64-bit Windows Server 2016 Windows Server 2019	Windows 10 IoT Enterprise 64-bit Windows Server 2016 Windows Server 2019	

## 准系统

### 桌面机箱

Avalue 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



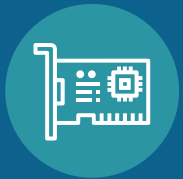
按订单配置



灵活的客户服务



多重组合



PCIe 扩展



Supplier	Desktop Chassis	Desktop Chassis	Medical Box	
型号	BMX-T550	BMX-T540	MAB-T600	ACS40-ADP
M/B外形尺寸	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 9.6" (W) x 9.6" (D) Micro ATX and Mini ITX compliant MB	Up to 6.7" (W) x 6.7" (D) Thin Mini ITX compliant MB
颜色	Black	Black	White	Black
尺寸 (宽 x 深 x 高)	280 x 75 x 265 mm	372 x 307 x 107 mm	330.2 x 341 x 160 mm	210 x 206 x 55 mm
硬盘架	Internal 2 x 2.5"	Internal 2 x 2.5"	Internal 2 x 2.5"	Internal 1 x 2.5"
扩展槽	1 full height via riser card	2 full height via riser card	4 full height expansion	NA
系统冷却	60 x 60 x 25mm fan	70 x 70 x 15mm fan	70 x 70 x 15mm fan (TBD)	40 x 40 x 20mm fan
前I/O	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
LED	Power LED HDD LED	Power LED HDD LED LAN LED	Power LED	Power LED HDD LED
安全	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
电源信息	220W 1U Flex ATX Power Supply	400W ATX Power Supply	500W 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
毛重	3.5kg	6.4kg	TBD	TBD

## 机架式系统

### 机架式系统

Avalue 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订制的。



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外形尺寸	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 28mm fans	2 x 80x25mm fans 1 x 97mm blower (rear)	2 x 80x25mm fans 1 x 97mm 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	7.5kg	18kg	20kg





## 医疗平板电脑



### 互动

所有医疗终端都集成了领先的触摸屏技术



### 多媒体

交互式患者解决方案利用了许多多媒体功能：视频，IP语音，网络摄像机/视频和立体声音频



### 沟通

IP语音手机采用数字电话，并包含一个薄膜按钮和一个可选的二维条码扫描仪



### 连接性

为系统用户提供电源控制USB端口和音频连接(用于耳机)。多种外部外设可适应终端的对接区域



### 安全性

智能技术解决方案利用RFID阅读器激活一个安全的门户，供医护人员访问患者临床记录。智能卡读卡器用于唯一的患者登录，或用于选定娱乐服务的支付信息卡。



### 环境的

正面IP65密封可防止液体和灰尘进入。医疗终端的后部设计符合IP54标准



型号	HID-2100	HID-2132	HID-2138	HID-2334
LCD尺寸, 显示器	21.5", Full HD	21.5", Full HD	21.5", Full HD	23.8", FHD
分辨率	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
像素间距	0.248 x 0.248	0.248 x 0.248	0.248 x 0.248	0.274 x 0.274
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>
对比度	1000	1000	1000	3000
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)
响应时间	22 ms	22 ms	22 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	89%	89%	89%	86%
触摸控制器	USB interface, EETI	USB interface, EETI	USB interface, EETI	USB interface, EETI
SBC	HID-2100 AD Board	ARC-SKLU	HID TGLP Mother Board	HID-2334 M/B + Charger board
处理器	-	6th Gen Intel® Core™ i7/i5/i3/Celeron processor	11th Gen Intel® Core™ i7/i5/i3/Celeron Processor	7th Generation Intel® Kaby Lake Core™ i7/i5/i3/ Celeron® Processor
I/O 芯片	-	EC ITE IT8528E	EC ITE IT8528E	EC ITE IT8518E
系统内存	-	1 x 260pin SODIMM socket up to 16GB DDR4 2133 SDRAM	2 x 260-pin DDR4 3200 MHz SO-DIMM socket up to 64GB Max	2 x 260pin SODIMM socket up to 32GB DDR4 2400 SDRAM
扩展	-	1 x Full Size (support half size, Auto switch for mSATA, USB, PCIe signal)	Optional PCIe low profile card x1 Optional M.2 storage x1 Optional M.2 5G Module x1	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
存储	-	1 x 2.5" SATA3 SSD	1 x M.2 Key-B 2242/3042/2260 for storage	1 x 2.5" SATA3 SSD
USB	2 x USB 2.0 1 x USB Type B	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 2 x USB type C	4 x USB 3.0
串口	-	1 x RS-232/422/485, 1 x RS-232 1 x RS-232 (Isolated 5KV)	Optional	N/A
其它	HDMI input DP input VGA input DC output	Option 5.0M AF camera Optional Barcode Scanner Optional NFC Optional Handset	Option 5.0M AF camera Optional Barcode Scanner Optional NFC Optional Handset	Dual LED Reading Light Bar, I/O Cover Option for 2x 6900mAh hot swappable batteries and 4 slot charging bay Option for 5.0M auto focus camera with cover
显示芯片组	-	Intel® HD Graphics 520	Intel® 11th Generation CPU integrated	Intel® HD Graphics 620
音频	RTD2525AR-CG integrated	Realtek ALC888S	Realtek ALC888S	Realtek ALC888S
音频接口	Line-out, Mic-in, 2 x 2W Speaker	2 x 0.5W	Line-out, Mic-in, 2 x 2W Speaker	2 x 2W
以太网	-	1 x Intel® I219LM, 1 x Intel® I211AT 1 x Intel® I210AT (Isolated 5KV) on IET module	1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I226LM Gigabit Ethernet PHY	1 x Intel® I211AT, 1 x Intel® I219LM
适配器	AC/ DC power adapter Output: 120W Adapter (24V/5A Adapter)	AC/ DC medical power adapter Output: 90W Adapter (19V/4.74A Adapter)	AC/ DC medical 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
尺寸	539.6 x 342.6 x 45.5 mm	539.6 x 342.6 x 45.5 mm	539.6 x 342.6 x 45.4 mm	380 x 587 x 45.5mm
重量	5.3kg	6.2 kg	4.8 kg	6.9 kg (without batteries)
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)	-10°C ~ 60°C (14°F ~ 140°F)	-30°C ~ 70°C (-22°F ~ 158°F)
认证	CE, FCC Class B	CE, FCC Class B, UL60601-1 4th edition	CE, FCC Class B, UL60601-1	CE, FCC Class B, UL60601-1 4th edition
操作系统	-	Win 7/ 10/ Linux	Win 10/ Linux	Win 10/ Linux

Model Number	EPB-1001
SBC	EPB-1001 Battery Board
MCU	IT8911
充电器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	6.8A
每个电池的输出电压	14.4V
输出功率	12/19V 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

# 强固型人机界面平板电脑



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>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	1000	2000	3000	1000
视角	88 (U), 88 (D), 88 (L), 88 (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	11 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: Projective Capacitive Multi-Touch (Full Flat design)		Projective Capacitive	Projective Capacitive Multi-Touch (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™ i7/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/USB3.0/USB2.0, 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 1xPCIe1/SATA/USB3.0/USB2.0 or 1 x 2.5" Drive Bay
USB	4 x USB 3.1 Gen.2			3 x USB3.1 Gen2, 1 x USB 3.1 Gen1, 3 x USB 2.0 (optional) *1 x USB2.0 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 RS232/422/485 (default); COM2: 1 x RS232/422/485 (optional); COM3: 1 x RS232 (optional) COM4-6: 3 x RS232/GPIO/USB 2.0 (optional)
其它	5 x Knockouts for Antenna + 2 x antenna by IET bracket			6 x Knockouts for Antenna
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@60 Hz
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 ~ 26V			Mini-DIN 4pin DC-in, +12~24V DC-in
适配器	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: 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, Linux			Windows 10, Linux, Windows 11 (optional)
尺寸	284 x 223 x 46mm	350 x 274 x 53.1 mm	538.05 x 341.05 x 63.55 mm	393 x 325 x 72 mm
重量	2.4Kg	3.7 Kg	7.3 Kg	4.4 Kg



型号	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	1024x768	1280 x 800
像素间距	0.240 x 0.240 mm	0.297 x 0.297 mm	0.248 x 0.248	0.0685mm (H) x 0.2055mm (V)	0.1695mm x 0.1695mm
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	88 (U), 88 (D), 88 (L), 88 (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	11 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: Projective Capacitive Multi-Touch (Full Flat design)		Projective Capacitive	5-Wire Resistive Touch	Projective Capacitive
透光率	5-Wire Resistive Touch: 80%, Projective Capacitive Multi-Touch: 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 IT5782V6	
系统内存	Single 260-pin DDR4 SODIMM Socket, Supports Up to 32GB DDR4 3200MTs SDRAM			Single 262-pin DDR5 4800MHz SO-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 SATA3/ PCIe x1/ USB3.1			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 SATA3/ PCIe x1/ USB3.1 or 1 x 2.5" Drive Bay (7mm HDD Restricted)			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)	
USB	4 x USB 3.1 Gen.2			2 x USB3.1 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	
其它	5 x Knockouts for Antenna + 2 x antenna by IET bracket			3 x Knockouts for Antenna Mounting	
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 ALC897			Realtek ALC897	
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, +12 ~ 26V			Lockable DC Jack, +12 ~ 24V	
适配器	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)	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, Linux			Windows 10, Windows 11, Linux	
尺寸	284 x 223 x 46 mm	350 x 274 x 53.1 mm	537.9 x 329.4 x 55.9 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

## 强固型人机界面平板电脑



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	0.0685mm (H) x 0.2055mm (V)	0.297mm (H) x 0.297mm (V)	0.1695mm x 0.1695mm	0.252mm (H) x 0.252mm (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	A Model: 5-Wire Resistive Touch B Model: Projective Capacitive Multi-Touch (Full Flat design)		Projective Capacitive	Projective Capacitive	Projective Capacitive
透光率	5-Wire Resistive Touch: 80%; Projective Capacitive Multi-Touch: 89%		88%	88%	89%
触摸控制器	A Model: Onboard USB touch (PenMount); B Model: EETI External USB controller		USB touch (EETI)	USB touch (EETI)	USB interface, 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 8 GB		
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 ALC892		Realtek ALC892		
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		
适配器	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	Win 10, Linux		Win 10, 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

## 可扩展平板电脑



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	0.1725mm (W) x 0.1656mm (H)	0.2175mm (W) x 0.2088mm (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	20 ms	5 ms
背光	LED	LED	LED
触摸屏信息	5-Wire Resistive	5-Wire Resistive	Projective Capacitive Multi-Touch (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	Intel® LGA1151 Socket Supports 8th/9th refresh Generation Core™ Pentium® /7/ /5/ /3 Processors (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 8 GB	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB	2 x 260-pin DDR4 2133/2400/2666 MHz 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
显示分辨率	VGA: Max. resolution 2560x1080 @ 60Hz HDMI: Max. resolution 1920x1200 @ 60Hz	VGA: Max. resolution 2560x1080 @ 60Hz HDMI: Max. resolution 1920x1200 @ 60Hz	VGA: Max. resolution 2560x1080 @ 60Hz HDMI: Max. resolution 1920x1200 @ 60Hz
音频	Realtek ALC892 Support 5.1-CH	Realtek ALC892 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)
储存温度	-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	Win 7, Win 8, Linux, Win10	Win 7, Win 8, Linux, Win10	Windows 10, Linux

## 开放式平板显示器/ 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	Projective Capacitive Multi-Touch supports up to 10 points	Projective Capacitive Multi-Touch supports 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 9~36V DC in)	+12V DC in (option for 9~36V 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	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive
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 9~36V DC in)	+12V DC in (option for 9~36V DC in)	+12V DC in (option for 9~36V DC in)	+12V DC in (option for 9~36V DC in)	+12V DC in (option for 9~36V DC in)	+12V DC in (option for 9~36V 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 -10°C ~ 70°C	-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), 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)



## 轻便的工业平板电脑



型号	SID-10WR2	SID-21WR2	SID-10WR1	SID-15WR1	SID-21WR1
LCD尺寸	10.1"	21.5"	10.1"	15.6"	21.5"
显示器	WXGA	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
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
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>
对比度	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)
响应时间	30ms	30ms	30ms	30ms	30ms
背光	LED	LED	LED	LED	LED
触摸屏信息	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive
透光率	86%	86%	86%	85%	86%
SBC	ACP-RK3568	ACP-RK3568	ACP-RK3288	ACP-RK3288	ACP-RK3288
处理器	Rockchip RK3568 2.0GHz		Rockchip RK3288 1.6GHz		
I/O 芯片	Rockchip SoC Integrated		Rockchip SoC Integrated		
内存	2GB DDR4 Memory on board		2GB DDR3L Memory on board		
存储	32GB eMMC on board		16GB eMMC on board		
图像	ARM Mali-G52 GPU core		ARM Mali-T764 GPU core		
HDMI分辨率	HDMI up to 1080p @ 120Hz		HDMI up to 1080p @ 120Hz		
USB	2 x USB 3.0 (Type A)		2 x USB 2.0 (Type A)		
串行端口	1 x RS-232		1 x RS-232		
音频接口	1 x Line-Out		1 x Line-Out		
以太网	1 x Gigabit Ethernet, 10/100/1000 Mbps		1 x Gigabit Ethernet, 10/100/1000 Mbps		
Wi-Fi	802.11 b/g/n Built-in		802.11 b/g/n Built-in		
蓝牙	Bluetooth 4.0 Built-in		Bluetooth 4.0 Built-in		
电源连接器	DC-in jack, 12 ~ 24V DC Powered LAN optional	DC-in jack, 12 ~ 24V DC	DC-in jack, 12 ~ 24V DC Powered LAN optional	DC-in jack, 12 ~ 24V DC	DC-in jack, 12 ~ 24V DC
电源模式	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 ~ 240 Vac/ 50 ~ 60Hz; Output: 60W Adapter (12V @ 5A Adapter)		
结构/颜色	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
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 mm
重量	1.36 kg	7.2 kg	1.36 kg	3.59 kg	7.2 kg
防护等级	Front IP65		Front IP65		
工作温度	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		
认证	CE, FCC Class B		CE, FCC Class B		
操作系统	Android 11		Linux Debian 9, Android 8.1		

型号	SID-10W03	SID-15W03	SID-21W03	SID-10W04	SID-15W04	SID-21W04
LCD尺寸	10.1"	15.6"	21.5"	10.1"	15.6"	21.5"
显示器	WXGA	Full HD	Full HD	WXGA	Full HD	Full HD
分辨率	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	0.17925 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>	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	800	3000	800	800	3000
视角	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	30ms	30ms	30 ms	30ms	30ms
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%	85%	86%	86%	85%	86%
SBC	ACP-CHT3	ACP-CHT3	ACP-CHT3	ACP-FR1AA	ACP-FR1AA	ACP-FR1AA
处理器	Intel® Atom™ x5-Z8350 1.44GHz			Intel Celeron J3455 1.5GHz		
I/O 芯片	Intel® Atom™ SoC Integrated			Intel Celeron Integrated		
内存	2GB / 4GB DDR3L Memory on board			1 x 204 pin SO-DIMM DDR3L		
存储	32GB / 64GB eMMC on board			32GB (eMMC) / M.2 3042 SSD		
图像	Intel® Gen8 HD Graphic core			Intel® HD Graphics 500		
HDMI分辨率	HDMI up to 1080p @ 60Hz			HDMI up to 1080p @ 60Hz		
USB	1 x USB 3.0 (Type A), 1 x USB 2.0 (Type A)			2 x USB 3.0 (Type A)		
串行端口	1 x RS-232			1 x RS-232, 1 x RS-485		
音频接口	1 x Line-Out			1 x Line-Out		
以太网	1 x Fast Ethernet, 10/100 Mbps			1 x Gigabit Ethernet, 10/100/1000 Mbps		
Wi-Fi	802.11 b/g/n/ac Built-in			1 x M.2 2230 E-Key 802.11 a/b/g/n/ac Wireless LAN		
蓝牙	Bluetooth 5.0 Built-in			Bluetooth 5.0		
电源连接器	DC-in jack, 12 ~ 24V DC			DC-in jack, 12 ~ 24V DC		
电源模式	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 ~ 240 Vac/ 50 ~ 60Hz; Output: 60W Adapter (12V @ 5A Adapter)		
结构/颜色	Metal, Black			Metal, Black		
安装工具包	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	391.2 x 239.2 x 48.14 mm	509 x 304.8 x 51.3 mm	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	3.59 kg	7.2 kg	1.36 kg	3.59 kg	7.2 kg
防护等级	Front IP65			Front IP65		
工作温度	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		
认证	CE, FCC Class B			CE, FCC Class B		
操作系统	Win 10 IoT, Linux Ubuntu 19.04			Win 10 IoT, Linux Ubuntu 20.04		

## 轻便的工业平板电脑



型号	APC-15WR2	APC-2132	APC-2138	APC-2334
<b>LCD尺寸, 显示器</b>	15.6", Full HD	21.5", Full HD	21.5", Full HD	23.8", Full HD
<b>分辨率</b>	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
<b>像素间距</b>	0.17925mm(H) x 0.17925mm(V)	0.248mm(H) x 0.248mm(V)	0.248mm(H) x 0.248mm(V)	274.5um(H) x 274.5um(V)
<b>亮度</b>	400 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
<b>对比度</b>	800	1000	1000	3000
<b>视角</b>	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)
<b>响应时间</b>	8 ms	22 ms	14 ms	16ms
<b>背光</b>	LED	LED	LED	LED
<b>触摸屏信息</b>	Projective Capacitive	Projective Capacitive	Projective Capacitive	Projective Capacitive
<b>透光率</b>	≥ 87%	≥ 85%	≥ 85%	89%
<b>触摸控制器</b>	USB touch (ilitek)	USB touch (EETI)	USB touch (ACDC)	USB touch (EETI)
<b>SBC</b>	ACP-RK3568A	ARC-SKLU	EMX-TGLC	EMX-KBLUP
<b>处理器</b>	CPU Rockchip RK3568 Quad-core Cortex-A55 up to 2.0GHz	Intel® Core™ i7/ i5/ i3 / Celeron Processor	Intel® Core™ i7/ i5/ i3 / Celeron Processor	Intel® Core™ i7/ i5/ i3 / Celeron Processor
<b>系统芯片</b>	Rockchip	Intel® Skylake U SoC integrated	Intel® Tigerlake U SoC integrated	Intel® Kabylake U SoC integrated
<b>I/O 芯片</b>	N/A	EC ITE IT8528E	EC ITE IT8528E	EC ITE IT8528E
<b>系统内存</b>	2GB LPDDR4 up to 4GB	1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16 GB	2 x 260-pin DDR4 3200 MHz SO-DIMM up to 64GB	2 x 260-pin DDR4 2400MHz SO-DIMM supports up to 32GB
<b>扩展</b>	1 x M.2 Type A 3042 support LTE or SSD module	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
<b>存储</b>	1 x eMMC(32GB); 1 x M.2 Type A 3042 support SSD module	1 x 2.5" SATA3 SSD	1 x 2.5" Drive Bay	1 x 2.5" Drive Bay
<b>USB</b>	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
<b>串口</b>	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
<b>显示芯片组</b>	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
<b>音频</b>	Everest ES8388	Realtek ALC888S Support 5.1-CH	Realtek ALC897	Realtek ALC888S Support 5.1-CH
<b>音频接口</b>	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
<b>以太网</b>	1 x Gigabit Ethernet	1 x Intel® I211AT; 1 x Intel® I219LM	1 x Intel® I219LM; 1 x Intel® I226LM	1 x Intel® I211AT; 1 x Intel® I219LM
<b>电源连接器</b>	DC Jack, +12V ~ +24V	Lockable DC Jack, +12V ~ +26V	Lockable Mini Din 4-pin, +12V ~ +24V	Lockable DC Jack, +12V ~ +24V
<b>电源模式</b>	AT	AT / ATX	AT/ATX	AT / ATX
<b>适配器</b>	N/A	Input:100 ~ 240Vac/ 50 ~ 60Hz Output:72W Adapter (19V @ 3.78A Adapter)	Input:100 ~ 240Vac/ 50 ~ 60Hz Output:72W Adapter (24V @ 3.75A Adapter)	Input:100 ~ 240Vac/ 50 ~ 60Hz Output:72W Adapter (19V @ 3.78A Adapter)
<b>结构(前,后)</b>	White Plastic	Plastic-black	Plastic-black	Plastic-black
<b>尺寸</b>	388.5 x 263 x 31.5 mm	539.6 x 342.6 x 45.5 mm	539.6 x 342.6 x 45.5 mm	592 x 382 x 49.5 mm
<b>重量</b>	TBD	6.3 Kg	6.3 Kg	7.2 Kg
<b>工作温度</b>	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)
<b>储存温度</b>	-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)
<b>认证</b>	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
<b>操作系统</b>	Android 11	Win 7, Win 8.1, Win 10, Linux	Win 10, Linux	Win 10, Linux



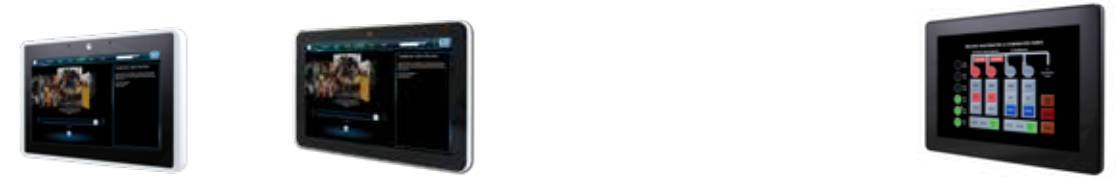
型号	PPC-1529	PPC-1729	PPC-2129
<b>LCD尺寸</b>	15", 4:3	17", 4:3	21.5"
<b>显示器</b>	XGA	SXGA	Full HD
<b>分辨率</b>	1024 x 768	1280 x 1024	1920 x 1080
<b>像素间距</b>	0.297mm(H)x0.297mm(V)	0.264mm(H)x0.264mm(V)	0.248mm(H)x0.248mm(V)
<b>亮度</b>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
<b>对比度</b>	700	800	1000
<b>视角</b>	70(U), 70(D), 80(L), 80(R)	80(U), 80(D), 85(L), 85(R)	80(U), 80(D), 85(L), 85(R)
<b>响应时间</b>	16 ms	30 ms	5 ms
<b>背光</b>	LED	LED	LED
<b>触摸屏信息</b>	5-Wire Resistive	5-Wire Resistive	5-Wire Resistive
<b>透光率</b>	80 %	80 %	80 %
<b>触摸控制器</b>	Onboard USB touch (EETI)	Onboard USB touch (EETI)	Onboard USB touch (EETI)
<b>SBC</b>	EBM-BYT	EBM-BYT	EBM-BYT
<b>处理器</b>	Intel® Celeron® J1900 4-Core 2.0GHz	Intel® Celeron® J1900 4-Core 2.0GHz	Intel® Celeron® J1900 4-Core 2.0GHz
<b>系统芯片</b>	Intel® Valleyview SoC	Intel® Valleyview SoC	Intel® Valleyview SoC
<b>I/O 芯片</b>	EC ITE IT8528E	EC ITE IT8528E	EC ITE IT8528E
<b>系统内存</b>	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
<b>扩展</b>	1 x Mini PCIe Supports mSATA	1 x Mini PCIe Supports mSATA	1 x Mini PCIe Supports mSATA
<b>存储</b>	1 x CompactFlash Type I/II Socket, 1 x 2.5" Drive Bay	1 x CompactFlash Type I/II Socket, 1 x 2.5" Drive Bay	1 x CompactFlash Type I/II Socket, 1 x 2.5" Drive Bay
<b>USB</b>	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
<b>串口</b>	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232/422/485
<b>显示芯片组</b>	Intel® Valleyview SoC Integrated Graphics Supports dual display	Intel® Valleyview SoC Integrated Graphics Supports dual display	Intel® Valleyview SoC Integrated Graphics Supports dual display
<b>显示分辨率</b>	HDMI: Max. resolution 1920 x 1200 @ 60Hz	HDMI: Max. resolution 1920 x 1200 @ 60Hz	HDMI: Max. resolution 1920 x 1200 @ 60Hz
<b>音频</b>	Realtek ALC892 Support 5.1-CH	Realtek ALC892 Support 5.1-CH	Realtek ALC892 Support 5.1-CH
<b>音频接口</b>	Line-Out	Line-Out	Line-Out
<b>以太网</b>	2 x Intel® I210IT	2 x Intel® I210IT	2 x Intel® I210IT
<b>电源连接器</b>	Lockable DC Jack, +12V ~ +26V	Lockable DC Jack, +12V ~ +26V	Lockable DC Jack, +12V ~ +26V
<b>电源模式</b>	AT/ATX (ATX is default setting)	AT/ATX (ATX is default setting)	AT/ATX (ATX is default setting)
<b>适配器</b>	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)
<b>结构(前,后)</b>	White Plastic, Gray Plastic	White Plastic, Gray Plastic	White Plastic, Gray Plastic
<b>尺寸</b>	351 x 319 x 54 mm	391.5 x 364.5 x 59 mm	542 x 382 x 63 mm
<b>重量</b>	4.9 kg	5.9 kg	7.2 kg
<b>工作温度</b>	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
<b>储存温度</b>	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)
<b>认证</b>	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
<b>操作系统</b>	Win 7, Win 10, Linux	Win 7, Win 10, Linux	Win 7, Win 10, Linux

## 轻便的工业平板电脑



型号	VNS-10WR2	VNS-10W01	VNS-15W01
LCD尺寸	10.1"	10.1"	15.6"
显示器	WXGA	WXGA	Full HD
分辨率	1280 x 800	1280 x 800	1920 x 1080
像素间距	0.1695 (H) x 0.1695 (V) mm	0.1695 (H) x 0.1695 (V) mm	0.17925 (H) x 0.17925 (V) mm
亮度	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>
对比度	800	800	500
视角	85 (U), 85 (D), 85 (L), 85 (R)	85 (U), 85 (D), 85 (L), 85 (R)	20 (U), 45 (D), 45 (L), 45 (R)
响应时间	30ms	30ms	8ms
背光	LED	LED	LED
触摸屏信息	Projective Capacitive	Projective Capacitive	Projective Capacitive
透光率	86%	86%	86%
触摸控制器	USB interface	I <sup>2</sup> C interface	USB interface
SBC	CPU Rockchip RK3568 Quad-core Cortex-A55 up to 2.0GHz	DNA 50	DNA 30
处理器	ROCKCHIP RK3568	Intel® Atom™ x5-Z8350: 2M Cache, up to 1.92 GHz	Intel® Atom™ x5-Z8350: 2M Cache, up to 1.92 GHz
系统芯片	Rockchip	Intel® Atom™	Intel® Atom™
系统内存	2GB LPDDR4 up to 4GB	2GB DDR3L RAM / option: 4GB for win 10 & Ubuntu 19.04	2GB DDR3L RAM / option: 4GB for win 10 & Ubuntu 19.04
存储	1 x eMMC(32GB) 1 x M.2 Type A 3042 support SSD module	32GB eMMC / option: 64GB for win 10 & Ubuntu 19.04	32GB eMMC / option: 64GB for win 10 & Ubuntu 19.04
USB	2 x USB 3.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A
串口	1 x RS-232/485 (RJ45 Type)	1 x RJ45 for RS232 or RS422 or RS485	1 x RJ45 for RS232 or RS422 or RS485
其它	Touch Button for Power/ Brightness/ Volume, 1 x 3.5mm Audio Jack, NFC, Cam 2.0 MP, LED indicating bar	Touch Button for Power/ Brightness/ Volume, 1 x 3.5mm Audio Jack, NFC, Cam 2.0 MP, LED indicating bar	Touch Button for Power/ Brightness/ Volume, 1 x 3.5mm Audio Jack, NFC, Cam 2.0 MP, LED indicating bar, Reading Light x2, Smart card reader
显示芯片组	Rockchip	Intel® HD Graphics 400	Intel® HD Graphics 400
分辨率	LVDS: Max. resolution 1280 x 800	LVDS: Max. resolution 1280 x 800	LVDS: Max. resolution 1280 x 800
音频	Everest ES8388	Realtek ALC 5645	Realtek ALC 5645
音频接口	1 x Line out, 1 x Mic in, 2 x Speaker	Mic-In and Line-Out, 2 x 2W Speaker Output	Mic-In and Line-Out, 2 x 2W Speaker Output
以太网	1 x Gigabit Ethernet	Realtek RTL8111H-CG	Realtek RTL8111H-CG
电源连接器	DC Jack+12~24V DC in / Powered LAN	DC Jack+12~24V DC in / Powered LAN	DC Jack+12~24V DC in / Powered LAN
电源模式	AT	AT	AT
适配器	N/A	Input: 100 ~ 240 Vac / 50~ 60Hz; Output: 60W Adapter (12V / 5A Adapter)	Input: 100 ~ 240 Vac / 50~ 60Hz; Output: 60W Adapter (12V / 5A Adapter)
结构	White Plastic w/ antibacterial	White Plastic w/ antibacterial	White Plastic w/ antibacterial
尺寸	270 x 193 x 28 mm	270 x 193 x 28 mm	410 x 269 x 38 mm
重量	1.1 kg	1.1 kg	2.5 kg
认证	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B

## 基于ARM的平板电脑



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	Projective Capacitive	Projective Capacitive
透光率	75%	86%
SBC	ACP-HR170	ACP-HR170
处理器	Rockchip RK3568 Quad-Core ARM Cortex-A55, up to 2.0GHz	
I/O 芯片	Rockchip SoC Integrated	
内存	2GB DDR4 Memory on board	
存储	32GB eMMC on board	
图像	ARM G52 2EE	
HDMI分辨率	HDMI up to 1080p @ 30Hz	
USB	2 x USB 3.0 (Type A)	
音频	1 x Line-Out, 2 x Speaker	
其它	1 x Camera, 1 x Microphone	
以太网	1 x Fast Ethernet, 10/100/1000 Mbps	
Wi-Fi	802.11 a/b/g/n/ac Built-in	
蓝牙	Bluetooth 5.0 Built-in	
电源连接器	DC-in jack, 12 ~ 24V DC	
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	580g	800g
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	

Model Number	BFC-07R1
分辨率	1024 x 800
像素间距	0.117 (H) x 0.117 (V)
亮度	400 cd/m <sup>2</sup>
触摸屏信息	Projective Capacitive
透光率	85 %
触摸控制器	USB touch (SIS)
处理器	NXP i.MX6 Quad
系统内存	1 x Onboard DDR3 1GB
存储	1 x On board 4GB eMMC
外部I/O连接器	1 x USB2.0 Type A (Double deck), 1 x HDMI, 1 x 10/100/1000 LAN RJ45, Optional Powered LAN support (IEEE 802.3at), 1 x Micro SD socket 1 x RS232, or Optional Debug port 1 x speaker 1 x MIC
电源信息	12 ~ 26V DC input, 2.5mm DC Jack, typical 19V input With brownout detection or Powered LAN (optional)
工作温度	-20°C ~ 55°C (-4°F ~ 131°F)
储存温度	-30°C ~ 70°C (-22°F ~ 158°F)
尺寸 (长 x 宽 x 高)	184.3 x 124.3 x 30.5 mm
重量	1.5 kg
认证	CE, FCC Class B
软件支持	Android 6.0



## 不锈钢平板电脑



型号	SPC-1533-B1	SPC-2133-B1
LCD尺寸	15", 4:3	21.5", 16:9
显示器	XGA	Full HD
分辨率	1024 x 768	1920 x 1080
像素间距	0.297 x 0.297 mm	0.248 x 0.248 mm
亮度	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
对比度	2000	3000
视角	88 (U), 88 (D), 88 (L), 88 (R)	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	16 ms	18 ms
背光	LED	LED
触摸屏信息	Projective Capacitive with Multi-Touch	Projective Capacitive with Multi-Touch
透光率	89%	89%
触摸控制器	USB (EETI)	USB (EETI)
SBC	EMX-APLP	EMX-APLP
处理器	Onboard Intel® Apollo Lake Processor	Onboard Intel® Apollo Lake Processor
I/O 芯片	ITE IT8528	ITE IT8528
系统内存	2 x 204-pin DDR3L 1600MTs up to 16GB	2 x 204-pin DDR3L 1600MTs up to 16GB
扩展	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 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
存储	1 x full size Mini PCI-e mSATA 1 x 2.5" SATA3 Drive Bay	1 x full size Mini PCI-e mSATA 1 x 2.5" SATA3 Drive Bay
USB	2 x M12 Connector (USB2.0)	2 x M12 Connector (USB2.0)
串口	1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)	1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)
显示芯片组	Intel® SoC integrated Graphics	Intel® SoC integrated Graphics
音频	Realtek ALC 888S/897	Realtek ALC 888S/897
音频接口	N/A	N/A
以太网	1 x M2 Connector (1 x Intel® I211AT PCIe Gigabit Ethernet)	1 x M2 Connector (1 x Intel® I211AT PCIe Gigabit Ethernet)
电源连接器	1 x M12 DC Jack, +12~26V (Option for Phoenix Connector)	1 x M12 DC Jack, +12~26V (Option for Phoenix Connector)
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	Aluminum
工作温度	-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)
认证	CE, FCC Class A	CE, FCC Class A
操作系统	Window 10, Linux, Android x86 8.1	Window 10, Linux, Android x86 8.1
防护等级	Full IP66, IP69K	Full IP66, IP69K
尺寸	393 x 315.8 x 49mm	562 x 365.8 x 49mm
重量	5.7 kg	9.4 kg

## 高度定制物理按钮的 模块化设计概念操作技术

## 模块化平板电脑

### OTC系列

- 各种类型的处理器
- 屏幕尺寸范围广
- 自定义控制面板
- 各种类型的物理按钮
- 手柄设计选项
- 耐水性和耐油性



电阻式触摸



PCAP触摸



多种尺寸



坚固的设计



各种安装方式

## 模块化平板电脑分为5个不同区域



\* 可根据客户要求调整尺寸

### A 主屏幕



#### Selection For x86 Panel PC:

- Open Frame with Apollo Lake J3455/ Core I CPU
- Panel PC with Apollo Lake J3455/ Core I CPU

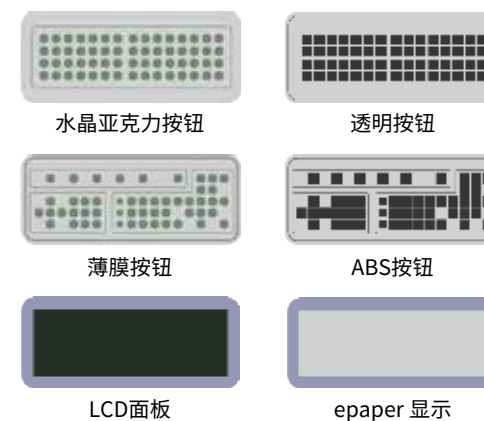
#### Selection For ARM Based Panel PC:

- 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



USB扩展  
NFC/RFID

### E 本机按钮/ MPG编码器



可编辑触发按钮  
和安全锁



紧急停止按钮  
物理开/关按钮仪表



## i-Face 设计

- 01 快速工具栏**  
小型自定义工具栏, 可包含常用的命令
- 02 文件选项卡**  
具有项目管理功能的文件菜单
- 03 屏幕选项卡**  
快速切换屏幕进行编辑
- 04 屏幕管理器**  
可以单击屏幕编辑, 查看和总结当前内容
- 05 屏幕编辑区域**  
编辑项目中每个屏幕的内容
- 06 子窗口快捷方式**  
打开或关闭子窗口的快速命令
- 07 多语言和插件状态**  
从多种语言和控件状态中选择查看和编辑。



- 08 软件界面设置**  
更改GUI的外观或语言
- 09 使用功能区**  
功能区包含多个选项卡, 这些选项卡具有多项功能, 以方便编辑和项目管理
- 10 系统小工具库**  
一个丰富而精致的小工具库, 供用户选择
- 11 用户小工具库**  
用户还可以轻松创建自定义的小工具库
- 12 已编译结果反馈区**  
编译错误消息显示在此窗口中, 以便用户可以快速调试
- 13 缩放, 网格和坐标**  
放大或缩小屏幕以获得完美的查看效果。网格和坐标用于快速方便地在屏幕上定位小工具



## iM-连接网关



- iM连接菜单**  
包含每个iM连接功能的目录
- 基本设置**  
PLC, 标签, 数据记录器和警报的设置与iFace Designer相同。可轻松操作两个软件。
- 网关URL**  
在WEB浏览器中输入URL可访问iM-连接网页
- 高级设置**  
高级功能包括MQTT, 宏命令, OPCUA, 在线监视器等
- 项目设置**  
人机界面连接到客户的电能质量表(PQM)系统, 以获取高度准确的测量结果
- 系统设置**  
人机界面连接到客户的电能质量表(PQM)系统, 以获取高度准确的测量结果
- 功能设置区域**  
人机界面连接到客户的电能质量表(PQM)系统, 以获取高度准确的测量结果
- 系统状态栏**  
查看系统的当前使用情况和剩余容量, 以及运行时状态, 用户名和所选语言

型号	i-Face Designer (Software Solution)	
操作系统	Windows 10, Linux Operating System for iFACE Editor: • Windows 7 – iFACE Designer 1.6.71 • Windows 10 64 bits – iFACE Designer 2.0.01 Operating System for iFACE Runtime: • Windows 10 • Ubuntu 16	
工具库	Built-in vector graphic widget library of refreshingly designed, easy to use widgets, elegant and stylish. Which contains the most-commonly used widgets such as push buttons, switches, lamps, meters, bars,... etc.	
PLC驱动程序数据库	<b>PLC Drivers and industrial protocols</b>	Support standard industrial communication protocols and mainstream PLC drivers just with simple selection and settings.
	<b>CODESYS PLC Handler</b>	Built-in PLCHandler for the communication between CODESYS Soft PLCs controller and HMI. CODESYS symbol .xml file import supported.
	<b>PLC Pass Through</b>	Create a tunnel for PC to directly monitor and control PLC, upload and download PLC program to PLC through HMI without extra connection.
多样化的智能功能	<b>Macro</b>	Powerful yet simple scripting language for data manipulation, data conversion, and data movement.
	<b>Data Logger</b>	High precision sampling time and adjustable data refresh rate. Support data with a max of 32 data fields each log.
	<b>Scheduler</b>	Automatic actions according to the pre-defined schedules to increase work efficiency.
	<b>Program Simulation</b>	Online and offline simulation to see how your application works with/without connection to controllers right on your PC.
	<b>Statistics Charts</b>	Display data logs with charts with a variety of line types and backgrounds.
	<b>Trigger Action</b>	According to the programmed conditions to trigger associated actions and alarms.
	<b>Report</b>	Data log backup can be further exported into reports in .txt, .csv, or .pdf formats.
	<b>Recipe</b>	Easy grouping parameters recipe. Each recipe data field can seamlessly link to widgets.
	<b>VNC</b>	Remote control and monitoring of HMI can be easily achieved through VNC connection.
	<b>VPN</b>	VPN enables all the remote control and monitoring across firewalls and networks via a secured tunnel.
	<b>FTP</b>	Data logs, historical alarm tables, recipes, screen captures, and HMI project can be remotely upload or download via FTP.
	<b>MQTT</b>	Support both MQTT (Message Queuing Telemetry Transport) server and client for message exchange between publisher and subscriber.
	<b>RESTful API</b>	Sends requests and receives responses in JSON format while avoiding security breaches with HTTPS encryption algorithm.
	<b>OPC UA</b>	Built-in OPC UA server and client for data exchange with standardized communication and interoperability.
	<b>Line Notify</b>	Alarm and event messages can be sent through Line Notify when the defined condition is met.
	<b>Online Upgrade</b>	Support software version as well as PLC driver library online upgrade.

型号	iM-Connect (Software Solution)	
操作系统	<b>Web-based Software (HTML5)</b>	HTML5.
PLC支持	<b>PLC Driver Database and industrial protocols</b>	<b>Modbus RTU / Modbus TCP/IP) CANOpen / BACnet</b> Support standard industrial communication protocols and mainstream PLC drivers just with simple selection and settings.
	<b>Codesys PLC Handler</b>	Built-in PLCHandler for the communication between CODESYS Soft PLCs controller and Gateway. CODESYS symbol .xml file import supported.
数据库和云	<b>Database Connection and Acquisition</b>	<b>MySQL / MS SQL / SQLite</b> Data log can be pushed to Databases, such as MySQL, MS SQL, and SQLite when triggered by condition or at any given interval.
	<b>Cloud Connection</b>	<b>Amazon AWS / Microsoft Azure / Google Cloud</b>
多样化的智能功能	<b>Programmable Marco</b>	Based on <b>JavaScript</b> , it's a powerful yet simple tool for data manipulation, data conversion, and data movement.
	<b>SECS / GEM (option)</b>	<b>SEMI E4 / E5 / E30 / E37 / PCBECI</b> Different equipment data can be collected and converted to meet Semiconductor and PCB industry specific standard.
	<b>MQTT Protocol</b>	<b>Broker / Client</b> Support both MQTT (Message Queuing Telemetry Transport) server and client for message exchange between publisher and subscriber.
	<b>RESTful API</b>	Sends requests and receives responses in JSON format while avoiding security breaches with HTTPS encryption algorithm.
	<b>OPC UA</b>	<b>Server / Client</b> Built-in OPC UA server and client for data exchange with standardized communication and interoperability.
	<b>Alarm Notification</b>	<b>Email / SMS / Line</b> Alarm and event messages can be sent through Line Notify when the defined condition is met.
	<b>Real-time Data Monitor</b>	Remote control and monitoring of HMI can be easily achieved through VNC connection.
	<b>Online Upgrade</b>	Real-time monitor the current tag values and status from the controllers connected to gateway.
	<b>Open VPN</b>	VPN enables all the remote control and monitoring across firewalls and networks possible.
	<b>User Management</b>	Permission setting, Login with username and password. User can be set to two different security levels for different access: administrator (modified and view) or user (view only).
	<b>USB File Back-up</b>	<b>Data log / Alarm History</b>
	<b>Data logger &amp; Report Export</b>	<b>Data logging / Alarm History</b> High precision sampling time and adjustable data refresh rate. Support data with a max of 32 data fields each log. Data log backup can be further exported into reports in.txt, .csv, or .pdf formats.
	<b>FTP</b>	<b>Server / Client</b> Data log backup can be remotely upload or download via FTP.

## 5线电阻触摸屏套件



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	800x600	1024 x 600	1024 x 600	1024 x 768
像素间距	0.0675mm (H) x 0.2025mm (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 to 70°C	-10 to 70°C	0 to 50°C	-10 to 70°C



型号	PCC-PPC-AB15-R	PCC-SPC-AB17-R	PCC-PPC-AB21-R	PCC-SPC-AB22-R
LCD尺寸	15", 4:3	17", 4:3	21.5", 16:9	22", 16:10
显示器	XGA	SXGA	FHD	WSXGA
LED驱动板	Panel Built-in	Panel Built-in	External board	External board
分辨率	1024x768	1280x1024	1920x1080	1680x1050
像素间距	0.297mm (H) x 0.297mm (V)	0.264mm(H) x 0.264mm(V)	0.248mm (H) x 0.248mm (V)	0.282mm(H) x 0.282mm(V)
亮度	300	350	250	250
对比度	2000	800	3000	1000
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)	80 (U), 80 (D), 85 (L), 85 (R)
响应时间	16 ms	30 ms	18 ms	5 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 to 70°C	-10 to 70°C	0 to 50°C	0 to 50°C

## 投射式电容触摸屏套件



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	1280x800	1024x768	1024 x 768
像素间距	0.03925 (H) x 0.11775 (V)	0.1695mm (H) x 0.1695mm (V)	0.240mm (H) x 0.240mm (V)	0.297mm (H) x 0.297mm (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 to 70°C	-10 to 50°C	-20 to 70°C	-10 to 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	1366x768	1920x1080	1280x1024	1920x1080	1920x1080
像素间距	0.252mm (H) x 0.252mm (V)	0.17925 (H) x 0.17925 (V)	0.264mm (H) x 0.264mm (V)	0.24795mm (H) x 0.24795mm (V)	0.2745mm (H) x 0.2745mm (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 to 60°C	-20 to 70°C	-20 to 70°C	0 to 50°C	0 to 50°C



## 开放式平板电脑



型号	OFT-07WR1	OFT-10WR1	OFT-15WR1	OFT-21WR1
<b>LCD尺寸</b>	7"	10.1"	15.6"	21.5"
<b>分辨率</b>	800 x 1280	1280 x 800	1920 x 1080	1920 x 1080
<b>亮度</b>	300	350 / 1000	220	250
<b>视角</b>	160°(H/V)	170°(H/V)	170°(H/V)	178°
<b>触摸屏信息</b>	PCAP	PCAP	PCAP	PCAP
<b>处理器</b>	Rockchip RK3288	Rockchip RK3288	Rockchip RK3288	Rockchip RK3288
<b>系统内存</b>	2GB DDR3L RAM	2GB DDR3L RAM	2GB DDR3L RAM	2GB DDR3L RAM
<b>无线</b>	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
<b>存储</b>	16G eMMC	16G eMMC	16G eMMC	16G eMMC
<b>外部I/O连接器</b>	1x Giga Ethernet 2 x USB 2.0 type A connectors 1x HDMI 1.4a connector 1x Head phone jack 1x DC jack 1x Reset	1x Giga Ethernet 2 x USB 2.0 type A connectors 1x HDMI 1.4a connector 1x Head phone jack 1x DC jack 1x Reset	1x Giga Ethernet 2 x USB 2.0 type A connectors 1x HDMI 1.4a connector 1x Head phone jack 1x DC jack 1x Reset	1x Giga Ethernet 2 x USB 2.0 type A connectors 1x HDMI 1.4a connector 1x Head phone jack 1x DC jack 1x Reset
<b>内部I/O连接器</b>	1x LVDS interface, 1x MIPI interface 1x USB Touch interface, 1x I <sup>2</sup> C Touch interface 1x Micro USB client (Android only) 1x USB CAM_DMIC interface 1x RS232 (TX/RX), 1x RS485 1x GPIO (16bit) interface 1x Speaker interface 1x A-MIC interface 1x Micro SD slot 1x Touch button connector 1x I <sup>2</sup> C sensor interface 1x Debug connector 1x Battery charger connector 1x DC input 4-pin header 1x M.2 B-Key socket 1x RTC battery 1x Power button connector	1x LVDS interface, 1x MIPI interface 1x USB Touch interface, 1x I <sup>2</sup> C Touch interface 1x Micro USB client (Android only) 1x USB CAM_DMIC interface 1x RS232 (TX/RX), 1x RS485 1x GPIO (16bit) interface 1x Speaker interface 1x A-MIC interface 1x Micro SD slot 1x Touch button connector 1x I <sup>2</sup> C sensor interface 1x Debug connector 1x Battery charger connector 1x DC input 4-pin header 1x M.2 B-Key socket 1x RTC battery 1x Power button connector	1x LVDS interface 1x eDP interface 1x USB Touch interface 1x Micro USB client (Android only) 1x USB CAM_DMIC interface 1x USB OTG 1x RS232 (TX/RX), 1x RS485 1x GPIO (16bit) interface 1x Speaker interface 1x A-MIC interface 1x Micro SD slot 1x Touch button connector 1x I <sup>2</sup> C sensor interface 1x Debug connector 1x DC input 4-pin header 1x M.2 B-Key socket 1x RTC battery 1x Power button connector	1x LVDS interface 1x eDP interface 1x USB Touch interface 1x Micro USB client (Android only) 1x USB CAM_DMIC interface 1x USB OTG 1x RS232 (TX/RX), 1x RS485 1x GPIO (16bit) interface 1x Speaker interface 1x A-MIC interface 1x Micro SD slot 1x Touch button connector 1x I <sup>2</sup> C sensor interface 1x Debug connector 1x DC input 4-pin header 1x M.2 B-Key socket 1x RTC battery 1x Power button connector
<b>电源信息</b>	DC 12 ~ 24V	DC 12 ~ 24V	DC 12 ~ 24V	DC 12 ~ 24V
<b>电源模式</b>	AT	AT	AT	AT
<b>工作温度</b>	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
<b>储存温度</b>	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
<b>工作湿度</b>	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
<b>软件支持</b>	Android 8.1	Android 8.1	Android 8.1	Android 8.1
<b>尺寸</b>	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
<b>重量</b>	0.45 kg	0.7 kg	1.5 kg	3.4 kg
<b>认证</b>	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A



型号	OFT-07WR2	OFT-10WR2	OFT-21WR2
<b>LCD尺寸</b>	7"	10.1"	21.5"
<b>分辨率</b>	600 x 1024	800 x 1280	1920 x 1080
<b>亮度</b>	350	350	250
<b>视角</b>	170°(H/V)	160°(H/V)	178°
<b>触摸屏信息</b>	PCAP	PCAP	PCAP
<b>处理器</b>	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568
<b>系统内存</b>	2GB DDR4 RAM	2GB DDR4 RAM	2GB DDR4 RAM
<b>无线</b>	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
<b>存储</b>	32G eMMC	32G eMMC	32G eMMC
<b>外部I/O连接器</b>	1x Giga Ethernet 2 x USB 3.0 type A connectors 1x HDMI 1.4a connector 1x Head phone jack 1x DC jack 1x Reset	1x Giga Ethernet 2 x USB 3.0 type A connectors 1x HDMI 1.4a connector 1x Head phone jack 1x DC jack 1x Reset	1x Giga Ethernet 2 x USB 3.0 type A connectors 1x HDMI 1.4a connector 1x Head phone jack 1x DC jack 1x Reset
<b>内部I/O连接器</b>	1x MIPI interface 1x USB Touch interface, 1x USB CAM_DMIC interface 2 x RS232 (TX/RX), 1x RS485 1x GPIO (16bit) interface 1x Speaker interface 1x A-MIC interface 1x Micro SD slot 1x Touch button connector 1x I <sup>2</sup> C sensor interface 1x Debug connector 1x DC input 4-pin header 1x M.2 B-Key socket 1x RTC battery	1x MIPI interface 1x USB Touch interface, 1x USB CAM_DMIC interface 2 x RS232 (TX/RX), 1x RS485 1x GPIO (16bit) interface 1x Speaker interface 1x A-MIC interface 1x Micro SD slot 1x Touch button connector 1x I <sup>2</sup> C sensor interface 1x Debug connector 1x DC input 4-pin header 1x M.2 B-Key socket 1x RTC battery	1x LVDS interface 1x USB Touch interface, 1x USB CAM_DMIC interface 2 x RS232 (TX/RX), 1x RS485 1x GPIO (16bit) interface 1x Speaker interface 1x A-MIC interface 1x Micro SD slot 1x Touch button connector 1x I <sup>2</sup> C sensor interface 1x Debug connector 1x DC input 4-pin header 1x M.2 B-Key socket 1x RTC battery
<b>电源信息</b>	DC 12 ~ 24V	DC 12 ~ 24V	DC 12 ~ 24V
<b>电源模式</b>	AT	AT	AT
<b>工作温度</b>	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
<b>储存温度</b>	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
<b>工作湿度</b>	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing	40°C @ 95% Relative Humidity, Non-condensing
<b>软件支持</b>	Android 11	Android 11	Android 11
<b>尺寸</b>	190 x 130 x 31.8 mm	254 x 178 x 33.8 mm	515 x 322 x 44.9 mm
<b>重量</b>	0.5 kg	0.7 kg	3.6 kg
<b>认证</b>	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A

# 开放式平板电脑



型号	OFT-07W03	OFT-10W03	OFT-15W03	OFT-21W03	OFT-10W04	OFT-15W04	OFT-21W04
LCD尺寸	7"	10.1"	15.6"	21.5"	10.1"	15.6"	21.5"
分辨率	800 x 1280	1280 x 800	1920 x 1080	1920 x 1080	800 x 1280	1920 x 1080	1920 x 1080
亮度	300	350	220	250	350	220	250
视角	160° (H/V)	170° (H/V)	170° (H/V)	178°	170° (H/V)	170° (H/V)	178° (H/V)
触摸屏信息	PCAP	PCAP	PCAP	PCAP	P-CAP	P-CAP	P-CAP
处理器	Intel® Atom™ x5-Z8350: 2M Cache, up to 1.92 GHz	Intel® Atom™ x5-Z8350: 2M Cache, up to 1.92 GHz	Intel® Atom™ x5-Z8350: 2M Cache, up to 1.92 GHz	Intel® Atom™ x5-Z8350: 2M Cache, up to 1.92 GHz	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	2G / 4G DDR3L RAM	2G / 4G DDR3L RAM	2G / 4G DDR3L RAM	2G / 4G DDR3L RAM	1 x 204 pin SO-DIMM DDR3L 4GB	1 x 204 pin SO-DIMM DDR3L 4GB	1 x 204 pin SO-DIMM DDR3L 4GB
无线	802.11a/b/g/n/ac Wireless LAN	802.11a/b/g/n/ac Wireless LAN	802.11a/b/g/n/ac Wireless LAN	802.11a/b/g/n/ac Wireless LAN	802.11a/b/g/n/ac (2230)	802.11a/b/g/n/ac (2230)	802.11a/b/g/n/ac (2230)
存储	32G / 64G eMMC	32G / 64G eMMC	32G / 64G eMMC	32G / 64G 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 Ethernet 1 x USB 2.0/1 x USB 3.0 type A connectors 1 x HDMI 1.4a connector 1 x Head phone jack 1 x DC jack 1 x Reset	1 x 10/100 Ethernet 1 x USB 2.0/1 x USB 3.0 type A connectors 1 x HDMI 1.4a connector 1 x Head phone jack 1 x DC jack 1 x Reset	1 x 10/100 Ethernet 1 x USB 2.0/1 x USB 3.0 type A connectors 1 x HDMI 1.4a connector 1 x Head phone jack 1 x DC jack 1 x Reset	1 x 10/100 Ethernet 1 x USB 2.0/1 x USB 3.0 type A connectors 1 x HDMI 1.4a connector 1 x Head phone jack 1 x DC jack 1 x Reset	1 x Giga LAN port 2 x USB 3.0 1 x HDMI 1 x HP jack 1 x DC jack 1 x Power button	1 x Giga LAN port 2 x USB 3.0 1 x HDMI 1 x HP jack 1 x DC jack 1 x Power button	1 x Giga LAN port 2 x USB 3.0 1 x HDMI 1 x HP jack 1 x DC jack 1 x Power button
内部I/O连接器	1 x LVDS interface 1 x USB Touch interface 1 x I²C Touch interface 1 x USB CAM_DMIC interface 1 x RS232 (TX/RX), 1 x RS485 1 x GPIO's (16bit) interface 1 x Speaker interface 1 x A-MIC interface 1 x Micro SD slot 1 x Touch button connector 1 x I²C sensor interface 1 x Debug connector 1 x DC-in wafer, 1 x RTC battery 1 x M.2 3042 B-Key socket 1 x Power button connector	1 x LVDS interface 1 x USB Touch interface 1 x I²C Touch interface 1 x USB CAM_DMIC interface 1 x Micro USB (Android only) 1 x RS232 (TX/RX), 1 x RS485 1 x GPIO's (16bit) interface 1 x Speaker interface 1 x A-MIC interface 1 x Micro SD slot 1 x Touch button connector 1 x I²C sensor interface 1 x Debug connector 1 x DC-in wafer, 1 x RTC battery 1 x M.2 3042 B-Key socket 1 x Power button connector	1 x eDP interface 1 x USB Touch interface 1 x I²C Touch interface 1 x USB CAM_DMIC interface 1 x Micro USB (Android only) 1 x RS232 (TX/RX), 1 x RS485 1 x GPIO's (16bit) interface 1 x Speaker interface 1 x A-MIC interface 1 x Micro SD slot 1 x Touch button connector 1 x I²C sensor interface 1 x Debug connector 1 x DC-in wafer, 1 x RTC battery 1 x M.2 3042 B-Key socket 1 x Power button connector	1 x LVDS interface 1 x USB Touch interface 1 x I²C Touch interface 1 x USB CAM_DMIC interface 1 x Micro USB (Android only) 1 x RS232 (TX/RX), 1 x RS485 1 x GPIO's (16bit) interface 1 x Speaker interface 1 x A-MIC interface 1 x Micro SD slot 1 x Touch button connector 1 x I²C sensor interface 1 x Debug connector 1 x DC-in wafer, 1 x RTC battery 1 x M.2 3042 B-Key socket 1 x Power button connector	1 x MIPI interface 1 x Amic 1 x USB 1 x SPK 1 x Touch button 1 x RS485/RS232 1 x RS232 1 x DIO 1 x Micro USB (Android only) 1 x SD card slot 1 x DC-in wafer 1 x M.2 3042 B-Key (SSD or WWAN)	1 x eDP interface 1 x Amic 1 x USB 1 x SPK 1 x Touch button 1 x RS485/RS232 1 x RS232 1 x DIO 1 x Micro USB (Android only) 1 x SD card slot 1 x DC-in wafer 1 x M.2 3042 B-Key (SSD or WWAN)	1 x LVDS interface 1 x Amic 1 x USB 1 x SPK 1 x Touch button 1 x RS485/RS232 1 x RS232 1 x DIO 1 x Micro USB (Android only) 1 x SD card slot 1 x DC-in wafer 1 x M.2 3042 B-Key (SSD or WWAN)
电源信息	DC 12 ~ 24V	DC 12 ~ 24V	DC 12 ~ 24V	DC 12 ~ 24V	DC 12V-24V	DC 12V-24V	DC 12V-24V
电源模式	AT	AT	AT	AT	AT	AT	AT
工作温度	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
储存温度	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
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	40°C @ 95% Relative Humidity, Non-condensing
软件支持	Win 10/ Ubuntu 19.04	Win 10/ Ubuntu 19.04	Win 10/ Ubuntu 19.04	Win 10/ Ubuntu 19.04	Win 10/ Ubuntu	Win 10/ Ubuntu	Win 10/ Ubuntu
尺寸	120 x 180 x 33.45 mm	252 x 166 x 32.7 mm	387 x 235 x 35.3 mm	501.88 x 294.2 x 44.1 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	1.5 kg	3.4 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	CE, FCC Class A

# 开放式平板电脑



型号	OFT-07W33	OFT-15W33	OFT-21W33	OFP-15W38	OFP-21W38
LCD尺寸	7", 16:10	15.6", 16:9	21.5", 16:9	15.6", 16:9	21.5", 16:9
分辨率	1280 x 800	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
亮度	300 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	220 cd/m <sup>2</sup>	250 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)	85 (U), 85 (D), 85 (L), 85 (R)	89 (U), 89 (D), 89 (L), 89 (R)
触摸屏信息	Projective Capacitive Multi-Touch supports up to 10 points			Projective Capacitive with Multi-Touch	
处理器	Onboard Intel® Celeron® N3350/J3455 SoC BGA Processor			Onboard Tiger Lake U 11th Intel® Core™ SoC i7/i5/i3 BGA Processor or Celeron®BGA Processor	
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)	4GB DDR4 Memory (Option up to 64GB)	4GB DDR4 Memory (Option up to 64GB)
无线	Option by Mini PCIe : 802.11a/b/g/n/ac Wireless LAN and Bluetooth 4.0+			Option by M.2 WIFI/BT Module	
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)	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)
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	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
内部I/O连接器	1 x RS-232/422/485 2 x USB 2.0 1 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 PCI-e 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 PCI-e support mSATA 1 x SIM card slot 1 x M.2 (2230) A-Key, support WiFi module	1 x RS232/422/485 (optional) 3 x RS232 (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 RS232/422/485 (optional) 3 x RS232 (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
电源信息	+12V~26V DC in	+12V~24V DC in	+12V~24V DC in	DC in +12~24V	DC in +12~24V
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/ ATX(Default is AT Mode)
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)
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)
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
软件支持	Windows 10 IoT, Linux, x86 Android 8.1	Windows 10 IoT, Linux, x86 Android 8.1	Windows 10 IoT, Linux, x86 Android 8.1	Windows 10 IoT, Linux	Windows 10 IoT, Linux
尺寸	183.1 x 115.8 x 51.6 mm	387 x 235 x 46 mm	501.9 x 296.2 x 52.4 mm	387 x 235 x 48 mm	501.9 x 296.2 x 55 mm
重量	1.1 kg	2.5 Kg	4.1 Kg	2.9 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

## 开放式验证附件

Accessories	Part Number	Description
WIFI/ BT	ACC-OFT-WIFI-01R	M.2 WIFI-Kit for OFP Series (2230, key AE) / Antenna/Cable/BT 4.2/802.11 ac/a/b/g/n
Camera	ACC-OFT-NBCAM-01R	2.0M CMOS, USB2.0/1600x1200
	ACC-OFT-NBCAM-02R	5.0M Auto Focus CMOS, USB2.0, without mic
	ACC-OFT-NBCAM-03R	5.0M Auto Focus CMOS, USB2.0, with mic
Barcode Scanner	ACC-OFT-BCS-02R	2D barcode scanner with cable Slim Type/ CPU/640*480 /All-in-One Board/USB + TTL232 IO/Buzzer+Trigger/CBL-115U
	ACC-OFT-BCS-03R	2D barcode scanner Scan Engine (N4680) + (CB-2D002) + FFC + USB cable
Smart Card Reader	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)
	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) 72.2x69x14 (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) 80x45x7.4 (mm)
NFC	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 data 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 data rate: 106k, 212k, 424k, 848k bps Frequency: 13.56MHz



## POS终端



## Renity POS解决方案

面向小型零售业的一体化智能无风扇POS机

- 1 可选HDMI或VGA辅助显示器
- 2 MSR读卡器(可选), 用于读取身份证或信用卡
- 3 5线电阻触摸(可选多点触摸P帽)
- 4 前IP-65, 后IP-41
- 5 1 x RJ-11位于后部I/O, 用于控制现金抽屉, 4 x USB 2.0, 左侧可选2 x USB
- 6 支架(可选) 专为该POS机设计, 以适应节省空间



型号	RiVar-1502
LCD尺寸, 显示器	15.6", FHD
分辨率	1920 x 1080
像素间距	0.179 x 0.179
亮度	300cd/m <sup>2</sup>
对比度	700
视角	89 (U), 89 (D), 89 (L), 89 (R)
响应时间	14ms
背光	LED
触摸屏信息	Projective Capacitive
透光率	85%
处理器	Intel® Celeron® Processor J3455
I/O 芯片	EC ITE 8987E
系统内存	Default Onboard 4GB DDR4 SDRAM (Option Up to 8GB)
扩展	1 x M.2 E Key slot for .2/4/5G WiFi module
存储	Default 64GB eMMC (Option Up to 128GB)
USB	4 x USB3.0
串口	2 x COM supported 5V/12V output
其它	RJ-11 for Cash Drawer 12/24V, 1 x HDMI Optional for Camera/ NFC/ MSR
热敏打印机	N/A
第2个LCD面板	N/A
显示芯片组	Intel® HD Graphics 500
音频	ES8316C
音频接口	2 x 2W
以太网	2 x RJ45 with Realtek 8111H
适配器	24V DC in 60W
结构(前,后)	Plastic
工作温度	0°C ~ 40°C (32°F ~ 104°F)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)
防护等级	IP65 for front Panel, IP41 for Rear
认证	CE/FCC/VCCI: Class B
操作系统	Windows 10, Android 8.1
尺寸	391 x 251 x 44.5 mm
重量	2.7 Kg



型号	Rity103	Rity153
LCD尺寸	10.1", 16:9	15", 4:3
显示器	WSVGA	XGA
分辨率	1024 x 600	1024 x 768
像素间距	0.2175 x 0.2088 mm	0.297 x 0.297 mm
亮度	350 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
对比度	500	2500
视角	70 (U), 70 (D), 70 (L), 70 (R)	88 (U), 88 (D), 88 (L), 88 (R)
响应时间	25 ms	16 ms
背光	LED	LED
触摸屏信息	5-Wire Resistive/ Projective Capacitive Touch	5-Wire Resistive/ Projective Capacitive Touch
透光率	RES 75 % / PCT 90%	RES 75 % / PCT 90%
触摸控制器	Onboard USB touch (PenMount) / USB touch (EETI)	Onboard USB touch (PenMount) / USB touch (EETI)
处理器	Intel® Celeron® Processor N3350 1.1GHz	Intel® Celeron® Processor N3350 1.1GHz
系统芯片	Intel® Apollo Lake SoC	Intel® Apollo Lake SoC
系统内存	1 x 204-Pin DDR3L 1066MHz SO-DIMMup to 8 GB	1 x 204-Pin DDR3L 1066MHz SO-DIMMup to 8 GB
扩展	1 x M.2 B key slot support	1 x M.2 B key slot support
存储	1 x M.2 B key slot	1 x 2.5" Drive Bay 1 x M.2 B key slot
I/O	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	2 x USB 2.0 4 x USB 3.0 2 x RS-232/422/485 (BIOS) 2 x RS-232 1 x HDMI 1.4b 1 x VGA 1 x RJ11 for cash drawer 1 x Battery in connector
显示芯片组	Intel® HD Graphics 500	Intel® HD Graphics 500
音频	Realtek 888S	Realtek 888S
音频接口	2 x 2W speaker	2 x 2W speaker
以太网	2 x Realtek RTL8111E-VB-GR	2 x Realtek RTL8111E-VB-GR
电源连接器	Mini-din 4P for DC in w/ lock type, +19-24V DC in	Mini-din 4P for DC in w/ lock type, +19-24V 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: 60W Adapter (12V @ 5A Adapter)	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)
结构(前,后)	Black Coverlens, ABS Plastic	Black Coverlens, ABS Plastic
工作温度	0°C ~ 40°C (32°F ~ 95°F)	0°C ~ 40°C (32°F ~ 95°F)
储存温度	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)
尺寸(长 x 宽 x 高)	260 x 178 x 42 mm	362.1 x 290.08 x 51 mm
重量	1.8 kg	4 kg
认证	CE, FCC Class B, VCCI	CE, FCC Class B, VCCI
操作系统	Win10 IoT, Linux	Win10 IoT, Linux

## 迷你POS终端



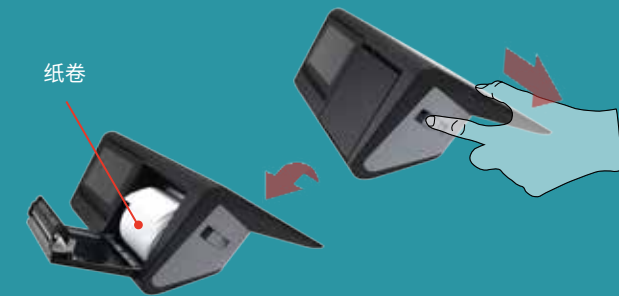
### 顾客显示器

- 5" 第二显示器供客户查看
- 可调整以获得最佳视角



### 集成打印机

- 支持58/80mm,带自动切割热敏打印机
- 易于更换打印纸的打印机模块



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面板	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 5/12V
USB	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)
热敏打印机	Printing Method: Thermal Dot Line Printing Resolution: (W) 8 Dots/mm, (H) 8 Dots/mm Maximum Print Speed: 200mm/s Maximum Print Width: 72mm Maximum Paper Width: 80mm 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)
储存温度	-10°C ~ 60°C (14°F ~ 140°F)
工作湿度	0 ~ 95% non-condensing
认证	CE, FCC, VCCI, CCC



### 坚固耐用

IP-65防尘防水保护  
MIL-STD-810G 4英尺跌落测试  
高级大猩猩玻璃盖镜头



### 寿命长

5年长期供应  
各种附件支持  
多操作系统支持



### 认证

EN 60601-1-2第4版  
CE/FCC/VCCI/CCC/BSMI  
更多认证正在进行中  
(澳大利亚、巴西等)



## 半坚固手持



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)
储存温度	-20°C ~ 60°C (-4°F ~ 140°F)
防护等级	IP65
认证	CE, FCC, VCCI, CCC, BSMI, EN60601-1, EN60601-1-2



### CAXA0-DC CAXA0 Desktop Cradle

- Desktop Cradle for CAXA0
- +19V DC input
- Support 3 x USB2.0/ 1 x 10/100 LAN
- 180 x 198.2 x 129.2 mm
- 1.05 Kg



### CAXA0-WM CAXA0 Wall Mount kit

- Wall Mount kit for CAXA0
- +19V DC input
- Support 3 x USB2.0/ 1 x 10/100 LAN
- VESA mount compliant (75 x 75 mm)
- 143.6 x 218.8 x 48.6 mm
- 0.58 kg



### CAXA0-CS CAXA0 Battery Charging Station

- Battery Charging Station for CAXA0
- +19V DC input
- Support 3 Batteries charging
- 159 x 105 x 57.9 mm
- 0.62 Kg



### CAXA0-SS CAXA0 Shoulder Strap

- Shoulder Strap for CAXA0
- Adjustable shoulder strap with 130cm drop



### CAXA0-HS CAXA0 Hand Strap

- Hand Strap for CAXA0





为您量身定制



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