

CES-R814/R836/R866-W44A

嵌入式无风扇工业电脑CES系列

Intel® 8th Gen. U i3-8145UE/i5-8365UE/i7-8665UE CPU, TDP 15W, 4 x LAN
4 x COM (up to 6 x COM), 6 x USB, 10-36V power input, fan-less system



板载Intel® 8th Gen. U Processors i3-8145UE/i5-8365UE/i7-8665UE CPU,
主频最大可以达到2.2GHz

支持单通道DDR4 2133/2400 MHz SO-DIMM内存插槽, 内存容量最大可达32GB

支持4个千兆网口

支持DP/HDMI/EDP 扩展同步于/异步显示

内置2 x Mini-PCIe, 1 x M.2 2242, 1 x M.2 2230(CNV1), 1 x M.2 3042/3052 多种模块扩展

10~36V宽压设计, 可锁附DC-IN接口

On board Intel® 8th Gen. U Processors i3-8145UE/i5-8365UE/i7-8665UE CPU,
base frequency 2.2GHz

Support single channel DDR4 2133/2400 MHz SO-DIMM memory slot, max capacity 32 GB

Support Quad GbE LAN

Support DP/HDMI/EDP Triple display

Support 2 x Mini-PCIe, 1 x M.2 2242, 1 x M.2 2230(CNV1), 1 x M.2 3042/3052
extension of multiple modules

10-36V power input, lockable DC-IN phoenix connector



规格 Specification

系统 System		外部接口 External I/O	
处理器 Processor	Intel® 8th Gen. U Dual Core Processors i3-8145UE (2.2GHz up to 3.9GHz) Intel® 8th Gen. U Quad Core Processors i5-8365UE (1.6GHz up to 4.1GHz) Intel® 8th Gen. U Quad Core Processors i7-8665UE (1.7 GHz up to 4.4GHz)	网口 Ethernet	4 x RJ45, Intel® I210 AT GbE (10/100/1000 Mbps), support Wake On Lan
内存 Memory	1 x DDR4 2133/2400MHz SO-DIMM up to 32 GB	显示 Video	1 x HDMI: max resolution up to 4096x2304@24Hz 1 x DP: max resolution up to 4096x2304@60Hz
图形 Graphics	Intel@UHD Graphics 620, dual display	音频 Audio	1 x Audio(Line-out&Mic-in 2 in 1) Realtek® ALC888S HD Audio codec
存储 Storage	1 x mSATA Colay mini-PCIe Connect 1 x M.2 2242 SSD 1 x 2.5" SATA 3.0 HDD/SSD BAY (与 M.2 2242 组 Raid 0/1)	串口 COM	4 x RS232/422/485 auto-flow 2 x Internal RS232 (optional by 3*3 pin-head)
操作系统 OS	Windows 10, Linux	USB	4 x USB 3.1 Gen2 2 x USB 2.0
看门狗定时器 Watchdog Timer	Programmable 255 levels timer interval, from 1~255 sec/min	按钮 Button	1 x Power button (White for Power-on, Blink for Sleep mode, Off for Power-off)
机构 Mechanical		指示灯 LED	1 x Power LED (Green for DC-in) 1 x HDD LED (Green blink for Data read or write) 1 x programmable LED (Green Default monitoring CPU temperature)
外观 Housing	铝合金 Aluminum Alloy	内部接口 Internal I/O	
安装方式 Mounting	Desk-Mount (桌面式) Wall-Mount (壁挂式) VESA-Mount (100 x 100mm)(optional)	扩展接口 Expansion	1 x Mini-PCIe slot (PCIe/SATA/USB2.0 Singal Support) 1 x M.2 2230 Key-E slot (only supported CNVI WiFi module)
尺寸 Dimension	224 x 140 x 40.2 mm (基础型) 224 x 140 x 64 mm (一层扩展) 224 x 140 x 87.8 mm (二层扩展)	功放 Speaker	1 x Internal (3W 4Ω) Speaker pin-head
重量 Weight	1.35kg	LPC	1 x LPC
环境 Environment		GPIO	1 x Internal 8bit programmable GPIO pin-head
操作温度 OperatingTemp.	-20°C ~ 60°C (SSD), 0°C ~ 40°C (HDD)	SIM 卡	1 x SIM Card socket for 3G/4G module
存储温度 Storage Temp.	-40°C ~ 85°C	扩展模组 Extension module	
湿度 Relative Humidity	5% ~ 95%, 非凝结状态 Non-condensing	Module A (optional)	1 x Mini-PCIe slot (PCIe/USB2.0 Singal Supported) 1 x M.2 3042/3052 Key-B slot (5G communication module supported) 1 x EDP: max resolution up to 4096x2304@60Hz 1 x SIM socket for 5G module
振动 Vibration	SSD: 5~500Hz, 5Grms operation (Only Use Solid state SSD) HDD: 5~500Hz, 1Grms operation	Module B (optional) [1]	1 x Mini-PCIe slot (PCIe/USB2.0 Singal Supported) 1 x Internal USB3.0 1 x EDP: max resolution up to 4096x2304@60Hz
机械冲击 Shock	Operation: 50G@11ms (Only Use Solid state SSD) Non-operation: 30G@11ms	Module C (optional)	1 x 32bit DI/O with optocoupler isolation DI 2500vrms, DO 2500vrms, response time ≤ 2ms, Output Frequency ≤ 500Hz, Maximum driving capacity 100mA, NPN or PNP by optional
认证 Certification			
安规认证 Safety Certification	CCC, CE, FCC		
电源 Power			
电源输入 Power Input	10~36V DC, 2-pin phoenix connector		

[1] Extension Module B 与 Extension Module A 不能同时选择

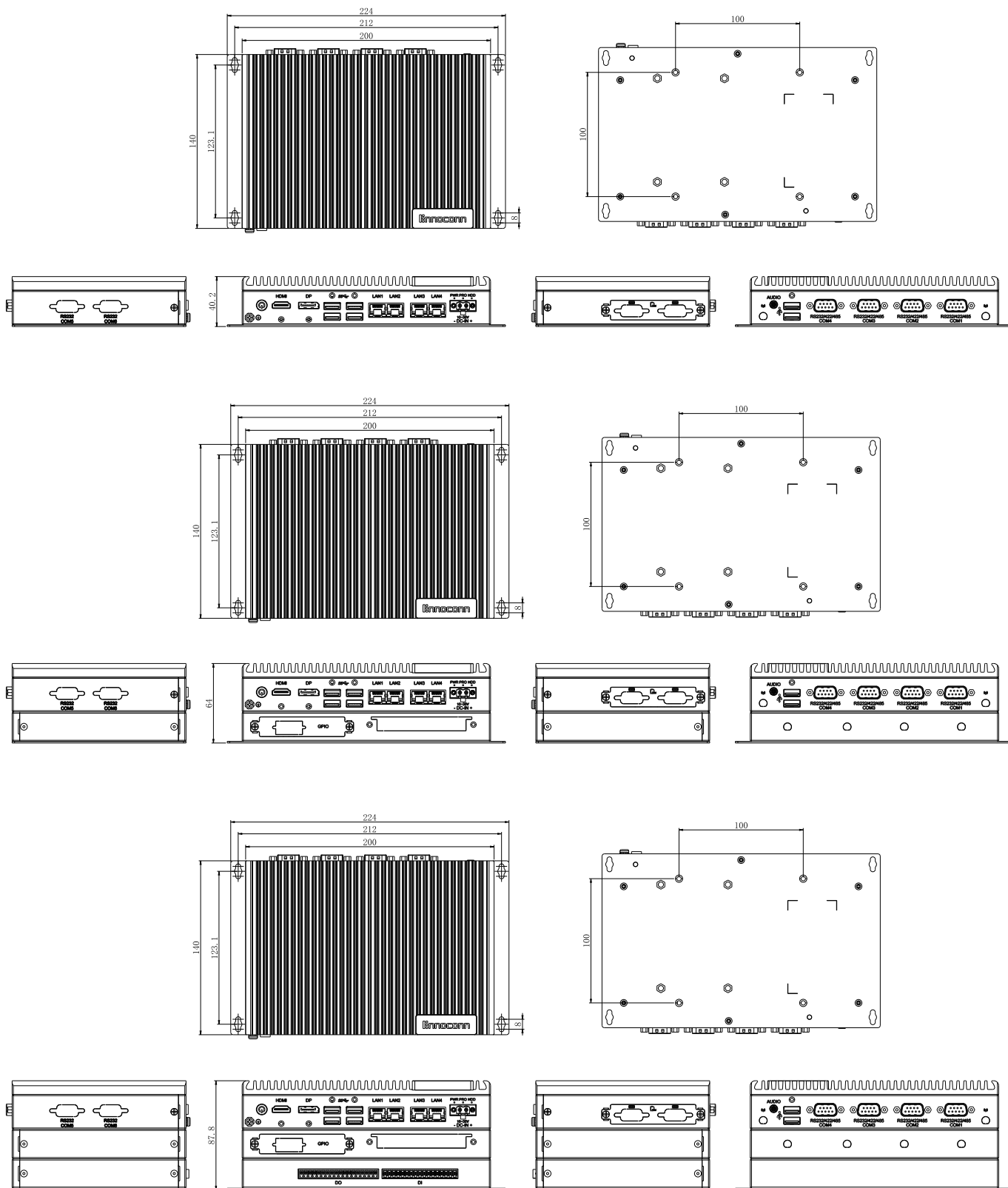
配置 Configuration

型号 Model	处理器 CPU
CES-R430-W44A	Intel® Celeron 4305UE Dual Core Processor 2.00 GHz
CES-R814-W44A	Intel® 8th Gen. U i3-8145UE Dual Core Processor (2.2GHz up to 3.9GHz)
CES-R836-W44A	Intel® 8th Gen. U i5-8365UE Quad Core Processor (1.6GHz up to 4.1GHz)
CES-R866-W44A	Intel® 8th Gen. U i7-8665UE Quad Core Processor (1.7GHz up to 4.4GHz)

订购清单 Order List

标配 Standard	型号 Model	描述 Description	选配 Optional	型号 Model	描述 Description
	2G151DE00-HUH-G	M2-2242_THERMAL-PAD_28*26*2		CEA-090W-HK00	HUNTKEY 12V 90W adapter,150cm power cord
	2G151DT00-HUH-G	Memory_thermal-pad_57*12.5*1.5		35105R800-JTU-G	8bit GPIO Cable (DB9 Connect)
	CTO-R8xx-PLUG	CES-R8xx-Wxxx PLUG 紧固配件		35107YP00-JTU-G	2*RS232 Y Cable
	34046QH00-GLA-G	2pin DC-IN Phoenix Connector,5mm,FOXCONN		061001800-187-G	Wireless Card,CNVI,INTEL 9560NGW
			061001E00-187-G	Wireless Card,CNVI,WIFI 6,INTEL AX200NGW,	
			2T71A7Y00-JTW-G	DIN-RAIL/VESA Bracket,165mm*115mm*10.5mm	
			Module A	Module A,w/5G,w/Mini-PCIe,w/EDP	
			Module B	Module B,w/USB3.0,w/Mini-PCIe,w/EDP	
			Module C	Module C,w/16bit DI/O	

■ 尺寸 Dimension (Unit:mm)



注

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