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USR-EC100

X86 Industrial Computer

IoT Controller

All- New Featured Industrial Computer Series

X86 Architecture；Intel Core；4 Cores & 4 Threads；12th-gen CPU；2.0GHz main frequency；

Rich Interfaces；All-aluminum Casing；Anti-corrosion & Anti-vibration；7*24H Operation.







LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Product Features

- 12th generation J6412 design, Intel core, 4-core 4-thread CPU, 2GHz main frequency;
- 8G DDR4 +128G storage, flexible selection of different capacity configuration;
- 2*LAN，2*RS232/RS485，4*USB3.0；
- 2*HDMI，4K HD Display，Support synchronous/asynchronous dual-screen display content;
- Multi - system Compatibility(Windows / Linux / Ubuntu)； Note:Windows system is standard configuration;
- Full aluminum alloy , fanless cooling;

Product Parameter

Model	USR-EC100	
Processor	CPU	Intel® Celeron J6412 (Atom/Core 4th-13th Gen optional)
	BIOS	AMI UEFI 64M bit
Memory	Architecture	DDR4 SO-DIMM
	Memory	8GB (Single SO-DIMM Slot, maximum support 16GB)
Storage	Storage	128G
	interface	MiniPcie
Display	HDMI	2*HDMI OUT (4K)
	DP	1*DP
	VGA	None
	Dual display	Supports synchronous/asynchronous display
Ethernet	LAN	2*RJ45 , Realtek ， 1Gbps
Audio	Interface	1*Line-out 1*Mic-in
I/O	Serial	2*RS485/232 （DB9）
	USB	4*USB 3.0
	WatchDog	255-level programmable settings
Expansion slot	MiniPCle	2*MiniPcie（one with 128GB SSD pre-installed）
	SSD	1*MSATA
Operating system	Operating System	Windows（Linux optional）
Power	Input Voltage	DC 12V
	Minimum Input Power	12V/3A
	Power Adapter	Optional
Power consumption	No-load	15W
	Full-load	Depends on CPU, total power not exceeding 100W
Mechanical parameters	Enclosure	Full aluminum enclosure
	Installation mode	Desktop mounting, DIN rail mounting, embedded mounting
	Dimensions	159.6mm*127.0mm*53.2mm
	Weight	1.2kg
Enviromental parameter	Operating temperature	-20~60℃(with wide-temperature SSD)
	Storage temperature	-40℃~85℃
	Relative humidity	5~95%(non-condensing)
	Vibration during operation	SSD:5~500Hz, 2Grms operation
	Shock during operation	Operation:10G@11MS Non-operation:30G@11ms
	ESD	Contact 6KV, Air 8KV

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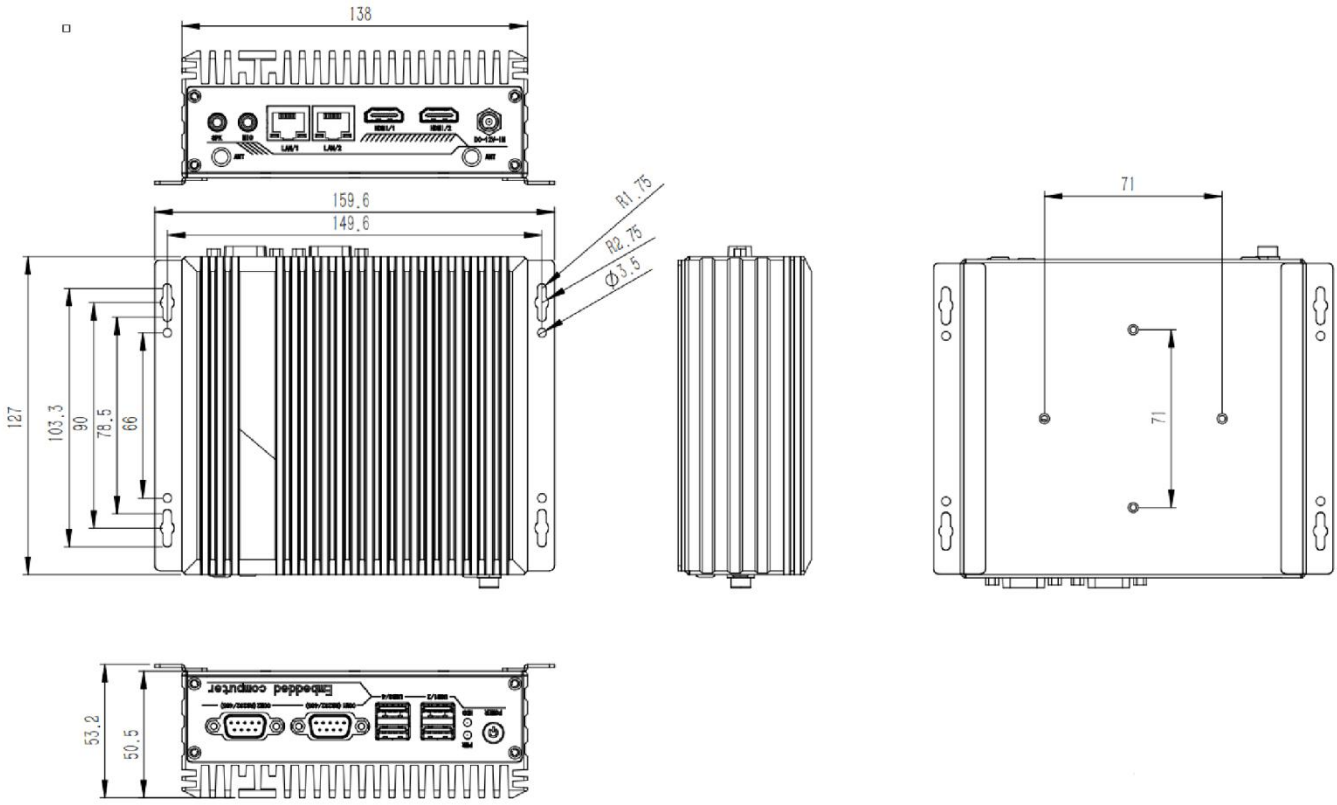
Product types choosing

Product Model	Configure							
	CPU	**Memory**	**SSD**	**LAN**	**COM**	**USB**	**MiniPCIe**	**Display**
USR-EC100	J1900 N2840 I3-5005U I5-4300U I5-5300U I7-5600U	1*DDR3 Maximum 8GB	1*MSATA	2*RTL8111	2*RS232 ; COM1 supports switching to RS485	2*USB2.0 4*USB3.0	1*MINI-PCIE, with SIM card slot, supporting 3G/4G/WiFi/ Bluetooth/GPS module (only one type can be installed)	1*VGA 1*HDMI
	J4125	1*DDR4 Maximum 8GB	1*MSATA	2*RTL8111	2*RS232	4*USB3.0	2*MINIPCIE	2*HDMI
	J6412	1*DDR4 Maximum 16GB	1*MSATA	2*RTL8111	2*RS232/485	4*USB3.0	2*MINIPCIE	2*HDMI 1*DP
	N100	1*DDR4 Maximum 16GB	1*MSATA	2*RTL8111	2*RS232	4*USB3.0	1*M.22230,supporting WiFi/Bluetooth,not supporting 4G modules	2*HDMI 1*DP
	J4125	1*DDR4	1*MSATA	4*INTEL	1*RS232	4*USB2.0 2*USB3.0	1*MINIPCIE	1*HDMI
	J6426	1*DDR4	1*M.2 2280	4*INTEL	1*RS232 1*RS485	4*USB2.0 2*USB3.0	1*MINIPCIE 1*M.2 2230 not supporting 4G modules	1*HDMI 1*DP
	N100	1*DDR4	1*MSATA	4*INTEL	1*RS232 1*RS485	4*USB2.0 2*USB3.0	1*M.2 2230 not supporting 4G modules	1*HDMI 1*DP
	I5-4278U I7-4578U	1*DDR3 Maximum 8GB	1*MSATA	2*RTL8111	2*RS232	4*USB2.0 4*USB3.0	1*Mini-PCIe, with a SIM card slot, supporting 3G/4G/WiFi/Bluet ooth/GPS modules (only one type can be installed)	1*HDMI 1*VGA
	I3-6167U I3-7020U I5-7287U I3-8130U I5-8350U I7-8650U	1*DDR4 Maximum 16GB	1*M.2 2280					
	I3-10110U I5-10310U I7-10610U	2*DDR4 Maximum 32G						
	I3-1215U I5-1235U I7-1355U	1*DDR4 Maximum 64G						

Optional accessories

Component Name	Configuration
Memory	Supports DDR4, single SO - DIMM Slot, max up to 16GB
Hard Disk	MSATA hard disk

Product Dimensions



Product Interfaces

