UBX-310D

Intel® Celeron® Quad Core J1900 SoC with Multiple I/Os Fanless Box PC

Features

- Intel Bay Trail Quad Core J1900, 2.0GHz up to 2.42GHz
- DDR3L 1333 MHz SO-DIMM memory support up to 8GB
- Display : VGA,HDMI
- Support 1 x 2.5" SATA HDD Bay and 1 x mSATA
- Multiple I/O: 6 x USB, 1 x LAN, 6x COM, 1 x RJ11, 1 x LPT
- Support 1 x Full-size MiniPCIe
- Lockable DC jack design
- Optional VESA
- Supports WISE-PaaS/RMM and Embedded Software APIs

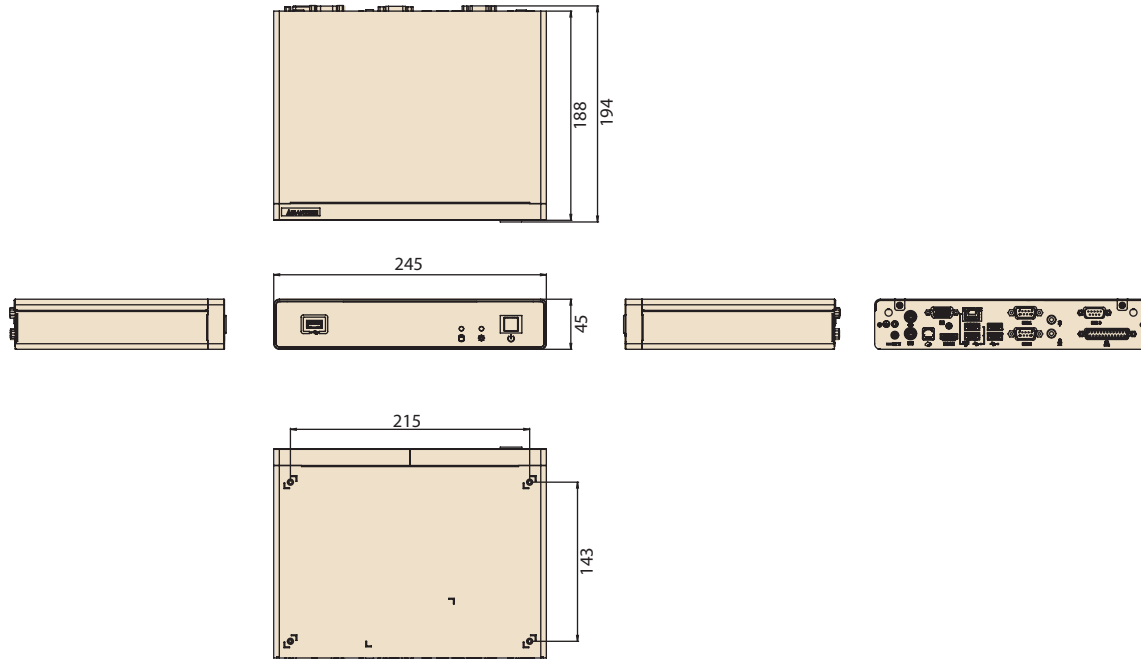**WISE-PaaS/RMM** CCC UL CE FCC RoHS COMPLIANT 2002/95/EC

Introduction

UBX-310D, an intelligent, fanless embedded system powered by Intel® Celeron™ J1900 Quad Core low power processor with multiple I/O interface. The new generation Intel® Celeron™ processor brings 300% improvement on processing power and 300% on graphics performance than previous generation Intel® Atom™ processors. These low-power platforms provide energy-efficient and environmentally responsible solutions, and serve applications targeted at factory automation, machine automation,retail, kiosks, and self-service applications.

Specifications

		UBX-310D-L0B0E	UBX-310D-F0B0E
Processor System	CPU	Intel Bay Trail Quad Core J1900	
	Max. Speed	2.0 GHz, Turbo Boost up to 2.42GHz	
	L2 Cache	2 MB	
	BIOS AMI	AMI EFI 64Mbit SPI	
Memory	Technology	Single channel DDR3L 1333MHz SDRAM	
	Max. Capacity	8 GB	
	Socket	1 x 204-pin SO-DIMM	
Graphics	Controller	Integrated Intel HD Graphics engine	
	HDMI	Up to 1920 x 1080 (@60Hz)	
	VGA	Up to SXGA 2560 x 1600 (@60Hz)	
Ethernet	LAN1	1 x RJ45, 10/100/1000 Mbps Realtek 8111E GbE	
Audio	Interface	Realtek ALC269, Line-out and Mic-in	
I/O Interface	Serial Port	3 x RS-232 ports, COM3 support 5V & 12V by order	6 x RS-232 ports, COM3 support 5V & 12V by order
	USB	5 x USB 2.0 port	5 x USB 2.0 port, 1 x USB 3.0
	LPT	1 x LPT	
	RJ11	1 x RJ11, cash drawer, 24V default, 12V buy order	
Other	Watchdog	255-level timer inteeval, setup by software	
Expansion	Mini PCIe1	1 x Full-size Mini PCIe, supports WWAN module	
Storage	HDD	1 x SATA HDD Bay for 2.5" device	
	Solid State Disk	1 x mSATA	
Software Support	Microsoft Windows	Windows Embedded POSReady 7, Windows 7 Pro Embedded, Windows 8.1 Pro Embedded (64-bit)	
	Linux	Linux Kernel 3.13 or above (by project)	
Power Requirements	Power Type	ATX mode	
	Power Input Voltage	12 V_{DC}, ± 10%	
	Power Adapter	AC to DC, DC12V / 5A, 60W (Optional)	
Mechanical	Construction	Steel	
	Dimensions (W x H x D)	245 x 45 x 185 mm	
	Weight	2.0 kg	
Environment	Operating Temperature	With 2.5-inch hard disk 0 ~ 40° C (32 ~ 104° F) with 0.7 m/s air flow	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	90% @ 40° C (non-condensing)	
	Vibration During Operation	With HDD: 0.5 Grms, IEC 60068-2-64, random, 5~500Hz, 3 axes, 1hr/axis	
	Shock During Operation	With HDD: 10 G, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CCC/BSMI/CE/FCC	
	Safety	CCC/BSMI/CB/UL	

Dimensions

Unit: mm

188
194

245
45

215
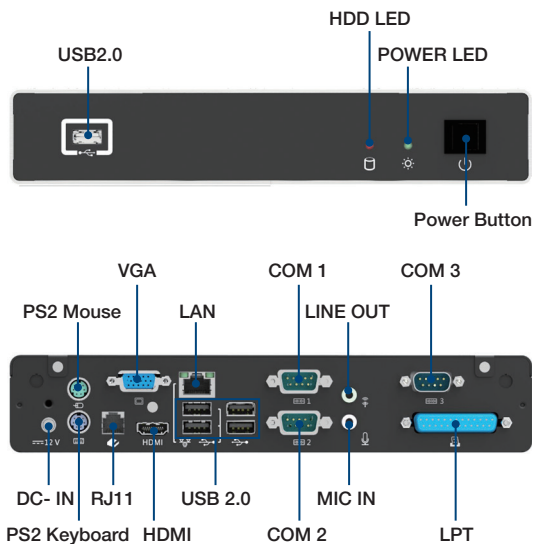
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Ordering Information

Part No.	Description
UBX-310D-L0B0E	Intel Celeron J1900, Fanless, RJ11, LPT
UBX-310D-LHB0E	Intel Celeron J1900, Fanless, RJ11, LPT with 2G RAM, 500G HDD
UBX-310D-F0B0E	Intel Celeron J1900,Fanless,Full I/O,Bare BOM

Installation Accessory

Part No.	Description
HIP-33B-MOUNT1E	VESA MOUNT

Fully- Integrated I/O

UBX-310D-L0B0E

USB2.0
HDD LED
POWER LED
Power Button

VGA
PS2 Mouse
LAN
COM 1
LINE OUT
COM 3
DC- IN RJ11
PS2 Keyboard HDMI
USB 2.0
MIC IN
COM 2
LPT

UBX-310D-F0B0E

COM 4
COM 6
Power Button
USB 2.0
COM 5
HDD LED
USB 3.0
Power LED

VGA
PS2 Mouse
LAN
COM 1
LINE OUT
COM 3
DC- IN RJ11
PS2 Keyboard HDMI
USB 2.0
MIC IN
COM 2
LPT