

UBX-310

Intelligent Compact Fanless BOX PC



DeviceOn/iService

Features

- Equipped with DeviceOn/iService software remote device management
- Embedded in Intel Bay Trail J1900/Skylake Core i3/i5 processor
- Compact design with 45mm in height
- Easy/quick installation for additional peripherals and expanded modular
- Support 1 x 2.5" SATA HDD Bay and 1 mSATA
- Multiple IO ports is suitable for variety of applications.
- Lockable DC jack design
- Support wall/VESA mount
- Supports WISE-PaaS/RMM and Embedded Software APIs



Introduction

UBX-310, an intelligent, fanless embedded system powered by Intel® Celeron™ J1900/Skylake Core i3/i5 low power processor with multiple I/O interface. Fanless design can provide the user quiet operation environment and reduce the failure rate. These low-power platforms provide energy-efficient and environmentally responsible solutions, compact and fanless design and serve applications targeted at factory automation, machine automation, retail, kiosks, and self-service applications.

Moreover, UBX-310 is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn/iService enables easy device configuration and deployment for convenient remote device management

Specifications

		UBX-310D-L0B0E	UBX-310D-F0B0E	UBX-310F-I3B00	UBX-310F-I5B00
Processor	CPU	Baytrail J1900		Core i3-6100U	Core i5-6300U
	Max Speed	2.0GHZ, Turbe Boost up to 2.42GHZ		2.3GHZ	2.4GHZ
Memory	Technology	Single channel DDR3L 1333 MHz SDRAM			Single channel DDR4 2133 MHz SDRAM
	Max Capacity	Up to 8GB			Up to 16GB
	Socket	1 x 204-pin SO-DIMM			1 x 260-pin SO-DIMM
Graphic	Capacity	Integrated Intel® HD Graphics Engine			
	HDMI	Max. resolution 1920 x 1200 @ 60 Hz			Max. resolution 3840 x 2160 @30Hz
	VGA	Up to SXGA 2560 x 1600 @ 60 Hz			Up to SXGA 2048 x 1152 @ 60 Hz
Ethernet	Interface	10/100/1000 Mbps			10/100/1000 Mbps
	Controller	Realtek RTL8111E GbE LAN			I219LM/I211AT GbE LAN
Audio	Interface	Realtek ALC269			Realtek ALC892
Front IO	USB2.0	1	1	1	
	USB3.0	NA	1	NA	
	Serial	NA	3	NA	
Rear IO	VGA	1		1	
	HDMI	1		1	
	RJ-45	1		2	
	USB	4 x USB2.0		4 x USB3.0, 2 x USB2.0	
	Serial	3, COM3 support 5V/12V power by order		4, COM1&COM2 support 5V/12V Power, COM2 support RS232/422/485 by order	
	LPT	1		NA	
	RJ11	1, cash drawer default 24V		1, cash drawer default 12V	
	Audio	1 x Line-out, 1 x Mic-in		1 x Line-out, 1 x Mic-in	
DC Jack	1		1		
Expansion	Mini PCIe	1 x F/S MiniPCIe		2 x F/S MiniPCIe	
Storage	SATA3.0	1 x 2.5-inch SATA 2.0 HDD/SSD (7mm height)		1 x 2.5-inch SATA3.0 HDD/SSD (7mm height)	
	mSATA	1		2	
Power	Requirement	ATX Mode, AC to DC, DC 12V/5A, 60W			
Miscellaneous	Dimension (L x W x H)	245 x 185 x 45 mm			
	Weight	2.0kg			
Mounting Mode	Accessories	Wall /VESA mount			
Software	OS	Win7, Win10, POSReady7, Linux			
Environment	Operating Temperature	0 ~ 40 °C			
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)			
	Relative Humidity	90% @ 40 °C (non-condensing)			
	Vibration during operation	With HDD:0.5Grms, 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				
Certification		CCC/BSMI/CE/FCC/UL/CB			

Notes : UBX-310 doesn't support WIFI and BT function in Europe Area.

Specifications (Cont.)

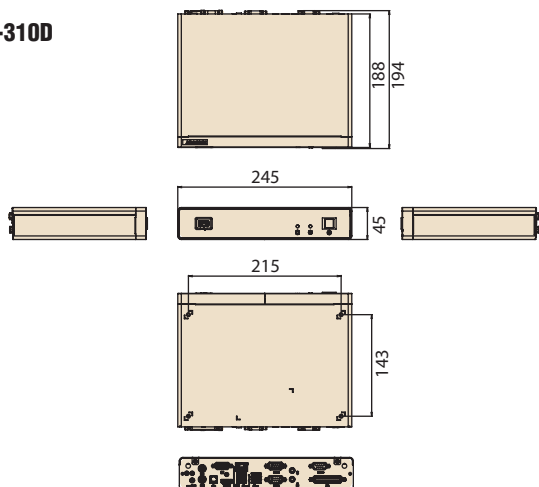
DeviceOn/iService Remote Device Management	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓ (VNC)
	Device-Specific Controls(Audio controls)	✓
	Connection Status	✓
	Hardware Status	✓
	Hard Disk Status	✓
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software Watchlist	✓
	Software Start/Stop	✓
Peripherals Watchlist	✓	

Note: DeviceOn/iService software must be downloaded from the Advantech website at <https://www.advantech.com/search?q=DeviceOn%2FiService&st=support&ssl=Utility>

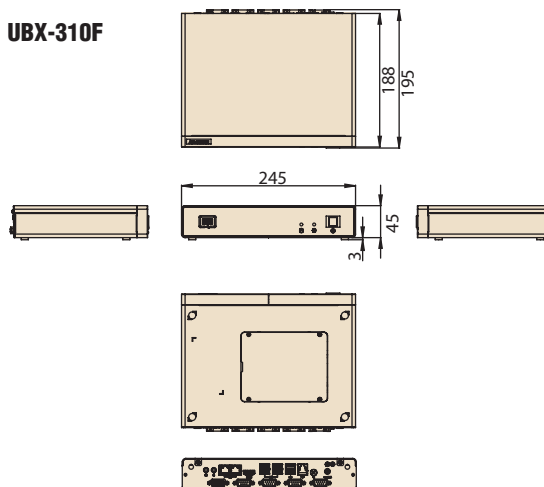
Dimensions

Unit: mm

UBX-310D

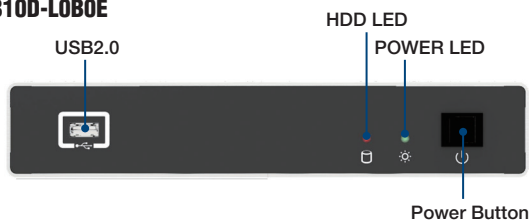


UBX-310F

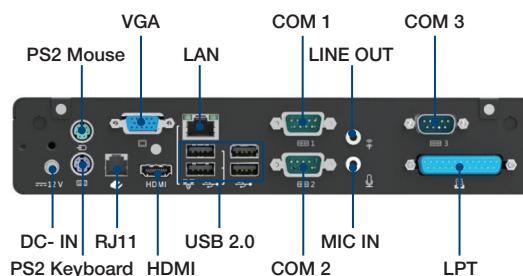
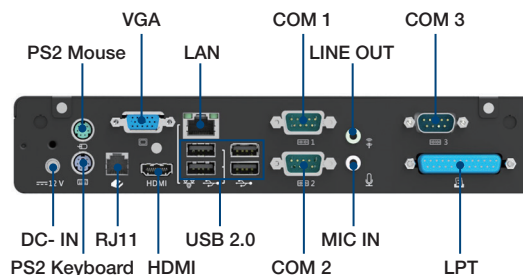
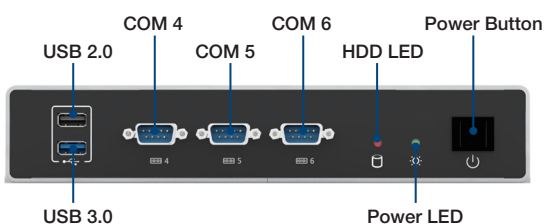


Fully- Integrated I/O

UBX-310D-LOB0E

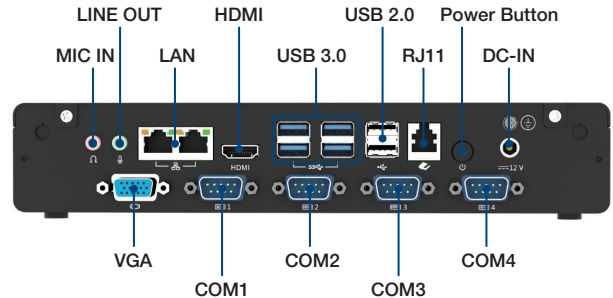


UBX-310D-F0B0E



Fully- Integrated I/O

UBX-310F



Ordering Information

PN	Description
UBX-310D-LOB0E	Intel Baytrail J1900 Fanless Mini Box PC w/o RAM and Storage
UBX-310D-F0B0E	Intel Baytrail J1900 Fanless Mini Box PC with extended IO configuration, w/o RAM and Storage
UBX-310D-LOU0E	Intel Baytrail J1900 Fanless Mini Box PC w/o RAM and Storage, special for USA
UBX-310F-I3B00	Intel Skylake Core i3 6100U Fanless Mini Box PC w/o RAM and Storage
UBX-310F-I5B00	Intel Skylake Core i5 6300U, Fanless Mini PC w/o RAM and Storage

Accessory

Accessory	Part Number	Description
Memory	AQD-D3L8GR16-SG	8G R-DDR3-1600 1.35V&1.5V 512X8 SAM
	AQD-D3L4GR16-SG	4G R-DDR3-1600 1.35V&1.5V 512X8 SAM
	AQD-D4U4GR24-SG	4G R-DDR4-2400 1.2V 512X8 SAM
	AQD-D4U8GR24-SE	8G R-DDR4-2400 1.2V1GX8 SAM
	AQD-D4U16R24-SE	16G R-DDR4-2400 1.2V 1GX8 SAM
Storage	SQF-S25M4-64G-SBC	SQF 2.5" SATA SSD 640 64G MLC (0-70°C)
	SQF-S25M4-128G-SBC	SQF 2.5" SATA SSD 640 128G MLC (0-70°C)
	SQF-S25M4-256G-SBC	SQF 2.5" SATA SSD 640 256G MLC (0-70°C)
	SQF-S25V2-64G-SBC	SQF 2.5" SATA SSD 640 64G 3D TLC (BiCS3) (0-70°C)
	SQF-S25V2-128G-SBC	SQF 2.5" SATA SSD 640 128G 3D TLC (BiCS3) (0-70°C)
	SQF-S25V4-256G-SBC	SQF 2.5" SATA SSD 640 256G 3D TLC (BiCS3) (0-70°C)
	SQF-S25V2-64GCSBC	SQF 2.5" SATA SSD 640-C 64G 3D TLC (BiCS4) (0-70°C)
	SQF-S25V2-128GCSBC	SQF 2.5" SATA SSD 640-C 128G 3D TLC (BiCS4) (0-70°C)
	SQF-S25V2-256GCSBC	SQF 2.5" SATA SSD 640-C 256G 3D TLC (BiCS4) (0-70°C)
	96ND500G-ST-SG5KA1	SEAGATE 500G 2.5" SATAIII 5KRPM 16M(G)24*7
SQF-SMSM4-64G-S9C	SQF MSATA 630 64G MLC (0-70°C)	
SQF-SMSM4-32G-S9C	SQF MSATA 630 32G MLC (0-70°C)	
Wifi Module	EWM-W157H01E	802.11 a/b/g/n/ac, Realtek RTL8821AE, WiFi 1T1R, BT4.0, Half-size Mini PCIe Card
	1750005885*2	WiFi Coaxial Cable, 230 mm
	1750002842*2	WiFi 2.4 GHz and 5 GHz dipole Antenna
	1930003278*1	Screw M2*3L F/S D=3.5 H=0.8 + ST BNi NK
	9656EWMG00E	Half-size to Full-size Mini PCIe Bracket Pack
	1750008717-01*2	Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK(outer antenna)
Power Cord	96CB-POWER-B-1.8MA	Power Cord(China), 3P 1.8M, BK(CCC)
	17AP164900518011	Power Cord CEE 7/16+C13 10A/16A 250V L1.8M(CE)
	1700013977	Power Cord 10A 250V 3P 180/90 CCC 200cm(CCC)
	1702002600	Power Cord 3P UL/CSA 10A 125V 1.83M 180D(USA)
	1702002605	Power Cord 2P FRANCE 10A 250V 1.83M 90D(EU)
	1700001714	Power Cord BSMI 3P 7A 125V 18AWG 180CM(BSMI)
	1700000237	Power Cord 3P PSE 12A 125V 1.83M(Japan)
1700018704	Power Cord BSI 3P 10A 250V 180cm(UK)	
Mount Kit	HIP-33B-MOUNT1E	VESA MOUNT for UBX-310
Windows OS for UBX-310F	2070015073	Image POSReady7 UBX-310F V1.00 3MUI 64Bit
	2070015074	Image WIN7PSP1 UBX-310F V1.00 3MUI 64Bit
	2070015075	Img WIN10 LTSB-6(1315) UBX-310F V1.00 3MUI 64Bit
Windows OS for UBX-310D	2070014259	Image PODREADY7 UBX-310D V1.00 ENG CHS 32Bit
	2070014374	Image WES7P UBX-310D V1.00 ENG CHS 64Bit
	2070014375	Image WES7P UBX-310D V1.00 ENG CHS 32Bit
	2070014571	img Win7Pro UBX-310D X32 V1.0 SimpChn (ChinaBP)
	2070015072	Image WES7P UBX-310D V1.00 3MUI 64Bit
	20708WX6ES0006	Img WIN10 LTSB-6-U UBX-310D V1.00 7MUI 64Bit
	20708WX9ES0028	Img WIN10 LTSC-9-U-E UBX-310D V1.00 7MUI 64bit

Notes : Can support Ubuntu 18.04 or higher by request

Mounting Kit

Mounting	Part Number	Description
Wall Mount	1960073138N101*2	VESA SUPPORT FOR UBX-310D(BLACK 7C)
	1930030500*4	S/S D=5.0 H=1 120°(2+) M3*5L ST Ni
	1950020055N001*1	VESA BRACKET ASSY FOR UBX-310D(BLACK 7C)
VESA Mount	1960073138N101*2	VESA SUPPORT FOR UBX-310D(BLACK 7C)
	1930030500*8	S/S D=5.0 H=1 120°(2+) M3*5L ST Ni

DeviceOn/iService

Unified Remote Device Management Software



Features

- Supports Advantech devices equipped with Windows, Android, and Linux OS
- Flexible device, location, user, and permissions management
- Enables remote monitoring and control of hardware, software, and peripherals
- Supports over-the-air (OTA) firmware and software updates
- Ensures quick, easy, and secure device onboarding
- RESTful APIs for third-party system integration

Introduction

Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn/iService supports Advantech devices equipped with Windows, Linux, or Android operating systems. The software also supports the management of applications and integrated peripherals, such as a barcode scanner, card reader, camera, and printer. Users can remotely access and control connected devices, take screenshots, rollout OTA upgrades, and use remote desktop capabilities for troubleshooting from any location at any time. Moreover, DeviceOn/iService supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

Total Management



Devices & Hardware

- Windows, Linux, Android
- Hardware, storage, battery



Software & Peripherals

- Software monitoring & access
- Screens, USB devices, printers



Open for Expansion

- Peripheral integration
- Open APIs for integration

Remote Access



Real-Time Monitoring

- Connection/hardware status
- Software/peripheral status
- Failure notifications



Remote Controls

- Power controls
- Audio, backlight controls
- Software controls



Troubleshooting

- Screenshots
- Remote desktop support

Operational Efficiency



OTA updates

- System/software updates
- File repository management
- App store



Batch Controls

- 1-to-many batch reboot, etc.
- Time-saving tasks

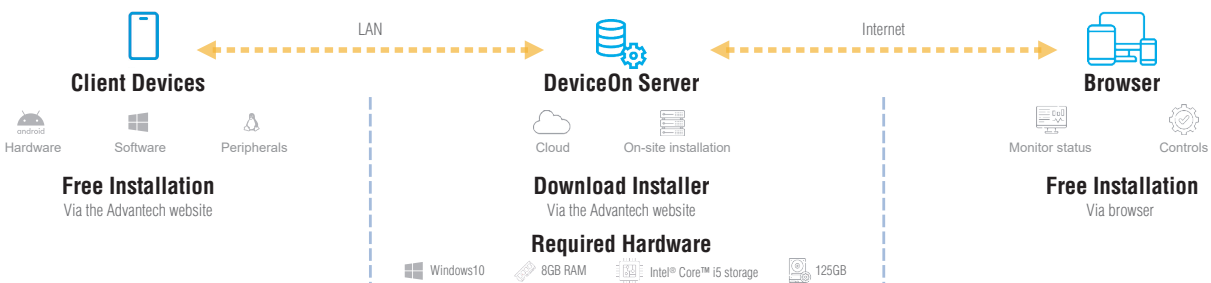


Setup Booster

- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture



Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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 www.autocont-ipc.cz



PRŮMYSLOVÉ POČÍTAČE

fanless embedded PC, do racku, ...



POČÍTAČE S DISPLEJEM

panelové PC, terminály, do vozidel, ...



AUTOMATIZACE A SBĚR DAT

převodníky, karty, moduly, switche, ...



PERIFERIE A KOMPONENTY

monitory, klávesnice, desky, skříně, ...



NOTEBOOKY A TABLETY

odolné, windows, android, IP65, ...



INFORMAČNÍ KIOSKY

interiérové, venkovní, ...



MEDICÍNSKÁ TECHNIKA

počítače, tablety, LCD, klávesnice, ...



SOFTWAREVÁ ŘEŠENÍ

pro výrobu, zaměstnance, kiosky, ...



PŘEJÍT DO E-SHOPU

eshop.autocont-ipc.cz



DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.