

UBX-310

Intelligent Compact Fanless BOX PC



DeviceOn/iService

Features

- Equipped with DeviceOn/iService software remote device management
- Embedded in Intel 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® 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-310F-I3B00	UBX-310F-I5B00
Processor	CPU	Core i3-6100U	Core i5-6300U
	Max Speed	2.3GHZ	2.4GHZ
Memory	Technology	Single channel DDR4 2133 MHz SDRAM	
	Max Capacity	Up to 16GB	
	Socket	1 x 260-pin S0-DIMM	
Graphic	Capacity	Integrated Intel® HD Graphics Engine	
	HDMI	Max. resolution 3840 x 2160 @30Hz	
	VGA	Up to SXGA 2048 x 1152 @ 60 Hz	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	I219LM/I211AT GbE LAN	
Audio	Interface	Realtek ALC892	
Front IO	USB2.0	1	
	USB3.0	NA	
	Serial	NA	
Rear IO	VGA	1	
	HDMI	1	
	RJ-45	2	
	USB	4 x USB3.0, 2 x USB2.0	
	Serial	4, COM1&COM2 support 5V/12V Power, COM2 support RS232/422/485 by order	
	LPT	NA	
	RJ11	1, cash drawer default 12V	
	Audio	1 x Line-out, 1 x Mic-in	
	DC Jack	1	
	Expansion	Mini PCIe	2 x F/S MiniPCIe
Storage	SATA3.0	1 x 2.5-inch SATA3.0 HDD/SSD (7mm height)	
	mSATA	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	
Certification	Shock during operation	With HDD:10 G, IEC 60068-2-27, half sine, 11 ms duration	
		CCC/BSMI/CE/FCC/UL/CB	

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

Specifications (Cont.)

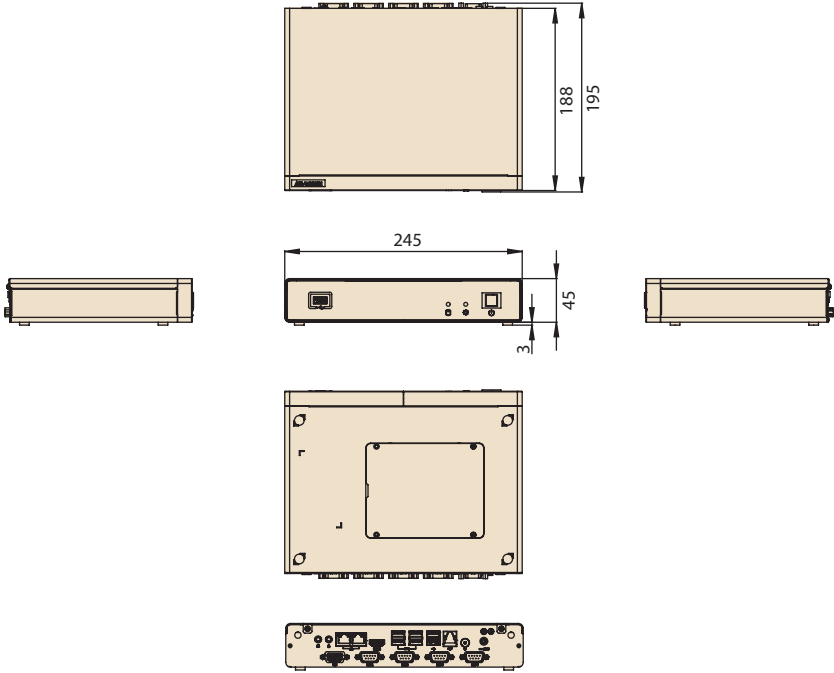
DeviceOn/iService Remote Device Management	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓ (VNC)
	Device-Specific Controls(Audio controls)	✓
	Connection Status	✓
	Hardware Status	✓
	Hard Disk Status	✓
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software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

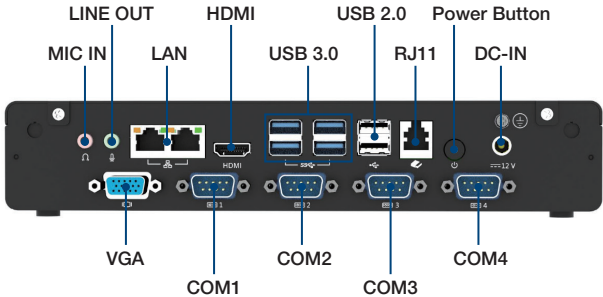
UBX-310F

Unit: mm



Fully- Integrated I/O

UBX-310F



Ordering Information

PN	Description
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-SD4U8GN32-SE	8GB DDR4 SODIMM-3200 1GbX8 SAM
	AQD-SD4U16GN32-SE	16GB DDR4 SODIMM-3200 1GbX8 SAM
	AQD-SD4U32GN32-SB	32GB DDR4 SODIMM-3200 2GbX8 SAM
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

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
VESA Mount	1950020055N001*1	VESA BRACKET ASSY FOR UBX-310D(BLACK 7C)
	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



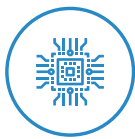
Features

- 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

