AIR-300

Intel® Xeon® E3 / Core™ i3/i5/i7 LGA1151 Edge Inference System



Windows Embedded

WISE-PaaS/ DeviceOn SUSI API

Features

- Supports Intel® Xeon® / 6th & 7th Gen. Core™ i3/i5/i7 processors
- Dual independent display: VGA + HDMI
- DDR4 SO-DIMM memory support up to 32 GB
- 850W bundled power supply
- Optional internal drive bay for two 2.5" hard drive
- Supports PCIe x16 high power GPU card up to 260W

Specifications

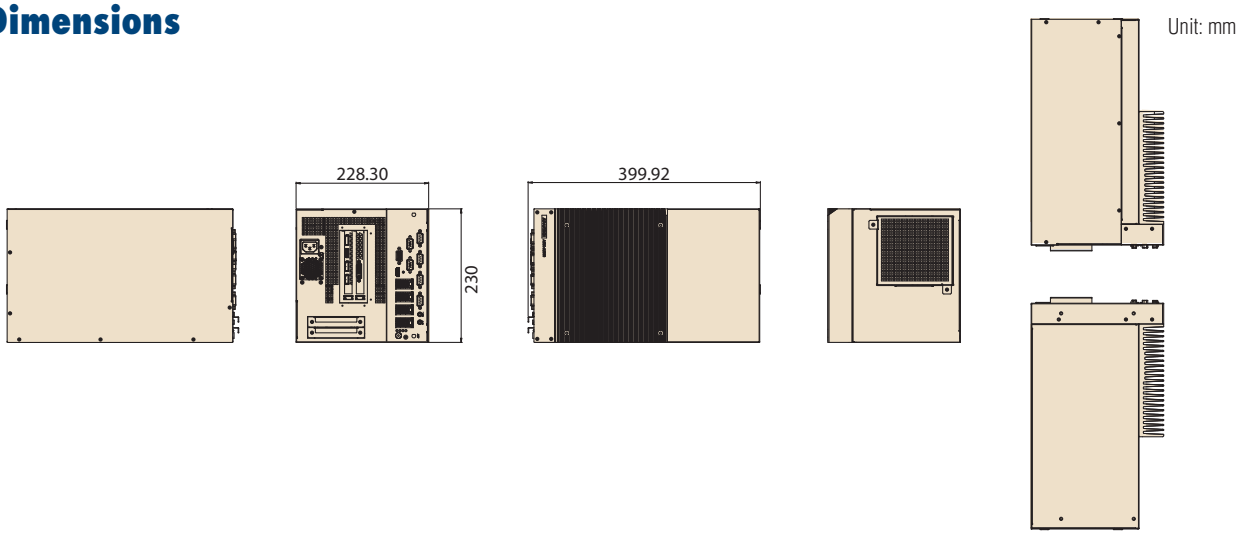
Processor System	CPU	E3-1235L V5	i7-7700/i7-6700	i5-7500	i3-7101E
	Frequency	2.0GHz	3.6GHz/3.4GHz	3.4GHz	3.9GHz
	L3 Cache	8MB	8MB	6MB	3MB
	TDP	25W	65W	65W	54W
	Chipset	C236			
	BIOS	AMI EFI 127Mbit			
Memory	Technology	DDR4 2133 MHz			
	Max. Capacity	32 GB			
	Socket	2 x 260-pin SO-DIMM			
Graphics	Chipset	Intel® HD Graphics 630			
	Graphic Engine	Direct x 12, OpenGL 4.4 HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9			
	VGA	1920x1200@ 60Hz			
	HDMI	1 HDMI port, HDMI 2.0 for HD video playback, 3840x2160@30Hz			
Ethernet	LAN1	10/100/1000 Mbps Intel I219-LM GbE, support Wake On Lan			
	LAN2, 3, 4	10/100/1000 Mbps Intel I210 GbE, support Wake On Lan			
Audio	Interface	Realtek ALC888S, High Definition Audio, Line-out, Mic-in			
Others	Watch dog Timer	255-level timer interval, setup by software			
	TPM	TPM 2.0 (Optional by project support)			
I/O Interface	Serial Port	4 x RS-232/422/485 port with auto flow control; COM 1 support 5V/12V power supply (by jumper)			
	USB	8 x USB 3.0 ports			
Expansions	Mini PCIe	2 x Full-size Mini PCIe (2 x support mSATA, 1 x support SIM holder)			
	M.2	1 x E key for WiFi			
	Add-on Card Slot	Maximum card size 110mm (H) x 300mm (L) Suggested maximum power consumption 260W 1 Slots PCIex16			
Storage	SSD	2 x 2.5" SATAIII hard drive Bay with Max Height 15mm (Support Up to 4 x 2.5" SATAIII hard drive Bay by Optional)			
	mSATA	2 x mSATA socket (Share with Mini PCIe)			
Software Support	Microsoft Windows	Windows 10 (Windows 7 for 6th Gen CPU only)			
	Linux	By Project Support			
Power Requirements	Power Type	ATX			
	Power Input Voltage	100-240V AC			
	Power Supply	850W power supply			
Power Consumption (CPU/Memory Only)	Typical	23W			
	Max.	66W			
Mechanical	Construction	Aluminum housing			
	Mounting	Desk mounting			
	Dimensions (W x H x D)	228.3 x 230 x 399.92 mm			
	Weight	10.2Kg			
Environment	Operating Temperature	With extended temp peripherals: 0 ~ 50 °C with 0.7m/s air flow			
	Storage Temperature	-20 ~ 80 °C			
	Relative Humidity	95% @ 40 °C (non-condensing)			
	EMC	CE/FCC Class B, CCC, BSMI			
	Safety	CB, UL, CCC, BSMI			

All product specifications are subject to change without notice.

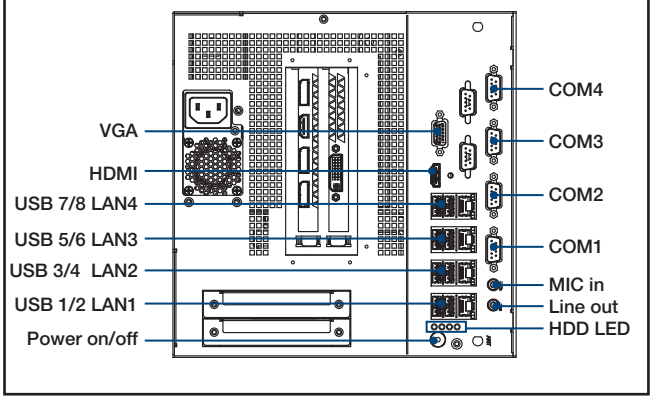
Last updated: 31-Oct-2019

Dimensions

Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	DDR4	Gbe	VGA	HDMI	RS-232/422/485	USB 3.0	MiniPCIe	SIM	M.2	AC Input	Expansion
AIR-300-00A1	LGA1151 Socket Type	Up to 32GB	4	1	1	4	8	2	1	1	100-240V	1 x PCIex16

Note: CPU/Memory/Storage and operating system bundled by request.

Packing List

Part Number	Description
-	AIR-300 Unit
-	Mounting Kit
-	User Manual (Simplified Chinese)
-	China RoHS

Embedded OS

Part Number	Description
20706WX6HS0006	WIN10 IoT LTSB 64bit for Xeon and Core i7
20706WX6VS0012	WIN10 IoT LTSB 64bit for Core i3/i5 and Celeron

AIR-300 Option Items

Optional Item for Default SKU

Part Number	Description
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, EU type
1702031801	Power cable 3-pin 183cm, UK type
1700000237	Power cable, 3-Pin 183cm, PSE type
AMK-A0031	internal 2.5" hard drive kit