AIR-300

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

Windows Embedded **WISE-PaaS/ DeviceOn SUSI API**

Features

- Intel® Xeon® / 6th & 7th Gen. Core™ i3/i5/i7 up to 65W CPU
- Dual independent display: VGA + HDMI
- Dual Channel DDR4 SO-DIMM memory up to 32 GB
- 850W power supply built-in
- PCIe x16 Graphics card support up to 260W
- Two swappable 2.5" hard drive bay

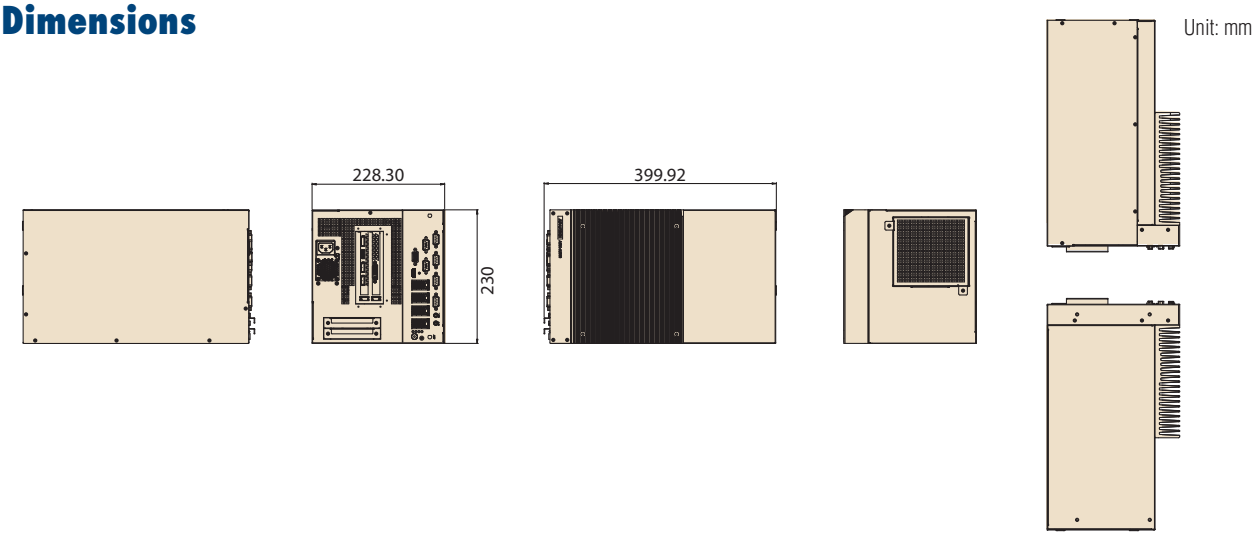
Specifications

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) #1			
	M.2	1 x 2230 E key for WiFi #1			
	Add-on Card Slot	1 slot PCIe x16. Maximum power consumption 260W, Maximum card size: 311mm (L) x 113mm (H) x 52mm (W), gold finger included			
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 built-in			
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			

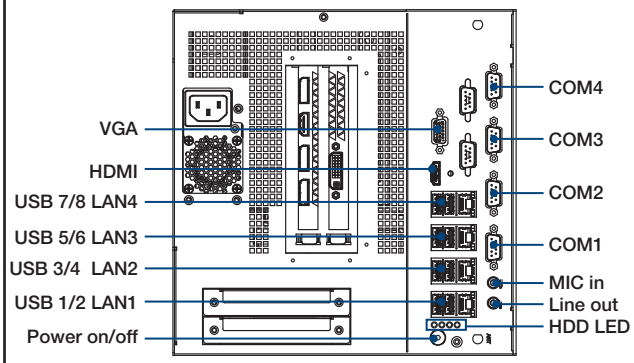
#1 SIM holder and M.2 slot are hardware interface for wireless communication integration only. System level RF certification is not available.

All product specifications are subject to change without notice.

Dimensions



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
20706WX9HS0023	WIN10 IoT LTSC 64bit for Xeon and Core i7
20706WX9VS0026	WIN10 IoT LTSC 64bit for Core i3 and i5

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
1700030682-01	16bit DIO cable
1700030683-01	COM5/6 cable
AMK-A0031	internal 2.5" hard drive kit