

# AIR-100

## Edge AI Inference System with Intel Atom E3950 and One Intel MA2485 VPU

NEW



### Features

- Intel Atom E3950
- Intel Movidius Myriad X MA2485 VPU x1 Built in
- Integrated Nvidia GeForce GT1030 graphics for ultra HD playback
- Intel OpenVINO toolkit supported
- 1 x 204-pin SO-DIMM DDR3L 4GB memory (-20~85°C) built in
- 1 x 64GB SSD built-in
- 4 x independent HDMI outputs
- Reserve TPM 2.0 for security application
- Signage content management software built-in
- Integrated with Edge AI Suite



Acronis WISE-PaaS/SignageCMS WISE-DeviceOn



#### OpenVINO™ Toolkit

- Model optimizer
- Inference engine
- Supports TensorFlow, Caffe, mxnet, ONNX



#### Enhanced Inference Efficiency

Scaling AI inference workloads with modular, plug & play design



#### VEGA-320 built-in

- Single MA2485 VPU
- M.2 2230 (Key A+E)
- PCIe Gen2 x1, USB 2.0

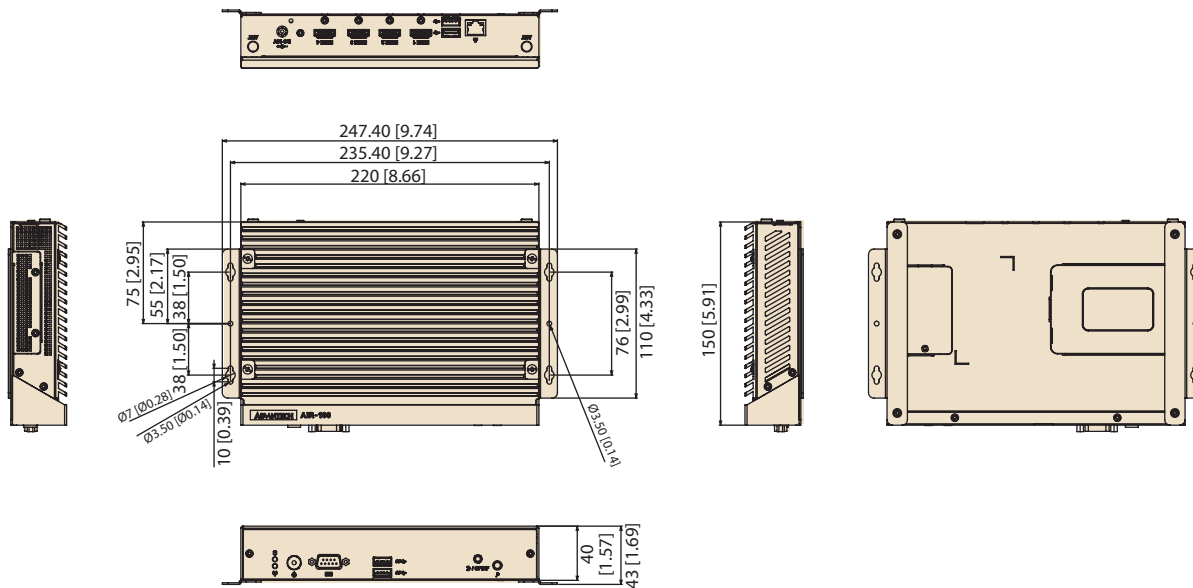
## Specifications

		AIR-100
Processor System	CPU	Intel® Atom™ Processor E3950
	System Chipset	Integrated in CPU
	L2 Cache	2 MB
	BIOS	AMI uEFI 64-Mbit
Memory	Technology	2 x DDR3L 204-pin SO-DIMM
	Max. Capacity	16 GB (Pre-installed 4GB)
Graphic & Display Tech.	Graphic Engine	HDMI-1 and HDMI-2: NVIDIA® GeForce GT 1030 HDMI-3 and HDMI-4: Intel® HD Graphics 505
	Graphic Memory	2GB GDDR5
	Resolution	HDMI 2.0: up to 3840 x 2160 @ 60Hz HDMI 1.4: up to 3840 x 2160 @ 30Hz (HDMI-4 supports CEC function)
	Output	2 x HDMI 1.4, 2 x HDMI 2.0
	Multi Display	Up to 4 simultaneous outputs
	Video Format	Decode for H.264, VC-1, WMV9, H.265/HEVC, VP8, VP9, JPEG/MJPEG, MPEG2 (only for Yocto project Linux) Encode for H.264, MVC, WMV9, H.265/HEVC, VP8, VP9, JPEG/MJPEG
AI Engine	VPU	One Intel Movidius Myriad X MA2485 (1 x VEGA-320-01A1 Built-in)
Storage	SATA	1 x 2.5-inch SATA III HDD/SSD (Pre-installed 64GB SSD)
Ethernet	Interface	Gigabit LAN controller
	Controller	1 x Intel I211-AT
I/O Interface	LAN	1 (RJ-45)
	USB 2.0	2
	USB 3.0	2
	Audio	1 x audio phone jack for Mic In, 1 x SPDIF/Line Out (supports jack sensing via OS settings)
	Serial	1 x RS-232
Expansion	Mini PCIe	1 x Full Size MiniPCIe support mSATA; w/SIM holder, support WWAN module (USB interface) #1
Trusted Platform Module	TPM 2.0	Option
Power Requirement	Input Voltage	19 V DC in (ATX/AT mode, default ATX)
	Output	Interrupt, system reset
Watchdog Timer	Interval	Programmable using WISE-PaaS/EdgeSense
	Mounting	Wall mount kits for LCD or plasma panels
Physical Characteristics	Dimensions (W x H x D)	220 x 40 x 150 mm
	Weight	1.7 kg
	Operating Temperature	0 - 50 °C with 0.7m/s air flow
Environment	Relative Humidity	95% @ 40° C (non-condensing)
	Operating System	Pre-installed Microsoft Windows 10
Software Development Kit	Linux	By project
	EMC	CE, FCC Class B, BSMI
Certification	Safety	UL, CCC, BSMI, CB

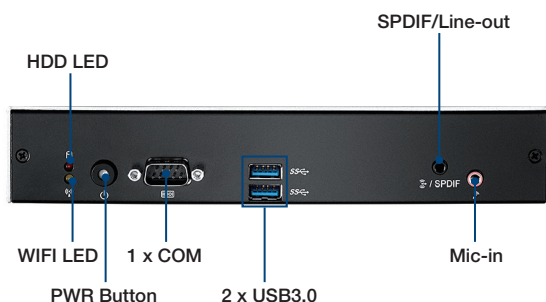
#1 SIM holder is hardware interface for wireless communication integration only. System level RF certification is not available.

## Dimensions

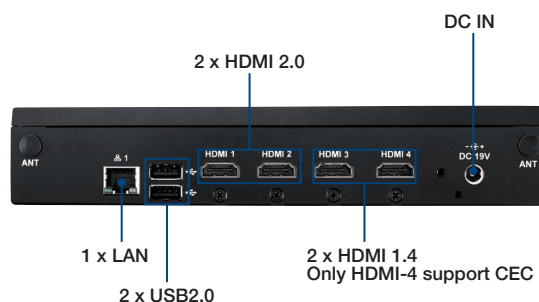
Unit: mm [inch]



## Front View



## Rear View



## Packing List

Part Number	Description
-	1 x AIR-100 unit
-	1 x Power adapter (DC 19 V/3.42A 65 W)
-	1 x Bracket set for fixing power adapter plug
-	2 x Mounting brackets
-	2 x User manual
-	1 x Content management software

## Power Cord

Part Number	Description
1700001524	3-pin power cord (US)
170203183C	3-pin power cord (EU)
170203180A	3-pin power cord (UK)
1702031836	3-pin power cord (AU)
1700008921	3-pin power cord (Japan)
1700019146	3-pin power cord (China)

## Ordering Information

Part Number	Description
AIR-100-S61A1	Intel Atom E3950 with one Movidius Myriad X, 4G memory and 64G SSD built-in and pre-installed win10

## Mounting Kits

Part Number	Description
AMK-V005E	VESA mount kit (generic for ARK-DS/DS)