

AIR-310

Intel® Core™ 14th Gen i3/i5/i7/i9 LGA1700 MXM GPU Edge AI System

Preliminary



Features

- Support Intel® 14th Gen. Core™ i3/i5/i7/i9 processor up to 65W
- DDR5 SO-DIMM memory support up to 64 GB
- Dual display: HDMI + DP
- Support MXM 3.1 Type A GPU card up to 60W
- Support 2 x 2.5GbE, 16-bit DIO, 2 x CANBus, TPM 2.0
- Qualified for Edge AI SDK

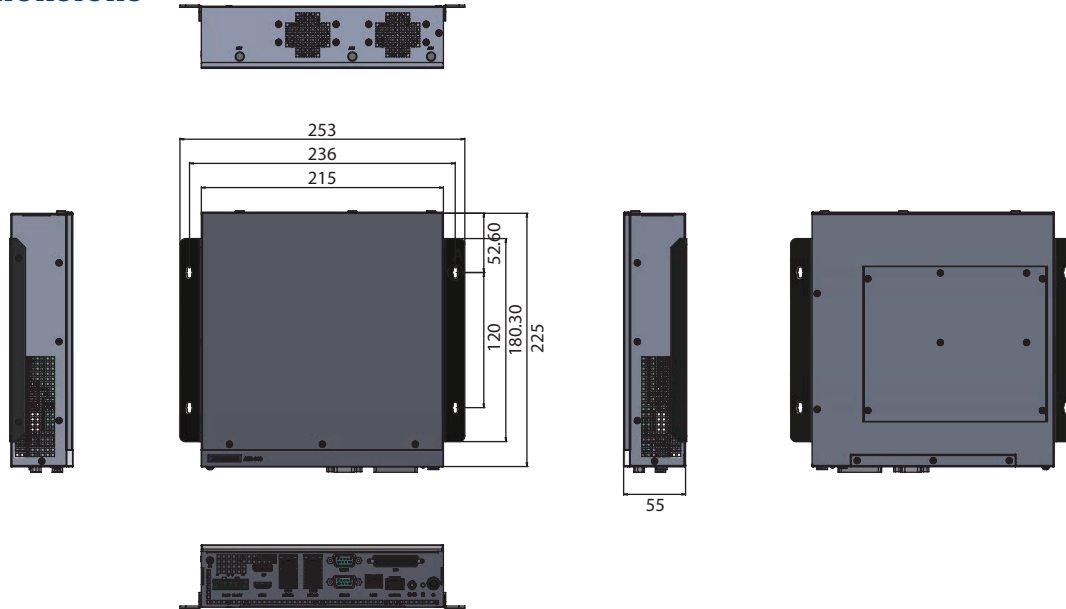


Specifications

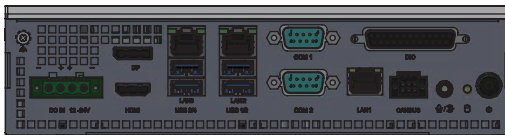
Processor System	CPU	i9-14900/i9-14900T	i7-14700/i7-14700T	i5-14500/i5-14500T	i3-14100/i3-14100T
	Frequency	5.8 GHz/5.5 GHz	5.4 GHz/5.2 GHz	5.0 GHz/4.8 GHz	4.7 GHz/4.4 GHz
	TDP	65W/35W	65W/35W	65W/35W	60W/35W
	Chipset	H610E			
	BIOS	AMI EFI 256Mbit			
Memory	Technology	DDR5 5600 MHz			
	Max. Capacity	64 GB			
	Socket	2 x 262-pin SO-DIMM (Non-ECC)			
GPU	MXM3.1 Type A	Compatible with Intel Arc A370M/Quadro® A2000			
	Cores	8 Xe-cores/ 2560 CUDA® cores			
	FP32 Performance (TFLOPS)	4.198 / 8.25			
	Memory	GDDR6 4 GB / GDDR6 8GB			
Display	Chipset	Intel® UHD Graphics 770			
	Graphic Engine	Direct x 12, OpenGL 4.5 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			
	DP	1 x DP++, DP 1.4a, up to 4096 x 2304@60 Hz			
	HDMI	1 HDMI port, HDMI 2.0 for HD video playback, 4096x2160@60Hz			
	Ethernet	LAN1	10/100/1000 Mbps Intel I219-LM GbE, support Wake On Lan		
Audio	Interface	Realtek ALC888S, High Definition Audio, Line-out/Mic-in (switch)			
	Others	Watch dog Timer	255-level timer interval, setup by software		
I/O Interface	TPM	TPM 2.0			
	Serial Port	2 x RS-232/422/485 port with auto flow control			
	USB	4 x USB 3.2 (Gen 1)			
	DIO	16bit DIO			
Expansions	CANBus	2			
	M.2	1 x 2230 E key for WiFi #1			
Storage	SSD	1 x 2.5" SATAIII hard drive Bay with Max Height 7mm			
	NVME	1 x M.2 M Key 2280(PCIe Gen3 x4, SATA)			
Software Support	Microsoft Windows	Windows 10			
	Linux	By Project Support			
Power Requirements	Power Type	AT/ATX			
	Power Input Voltage	12-24V			
	Power Supply	AC to DC, 230W (Optional)			
Power Consumption (CPU/Memory Only)	Typical	TBC			
	Max.	TBC			
Mechanical	Mounting	Desk mounting			
	Dimensions (W x H x D)	215 x 220 x 55 mm			
	Weight	2.5 kg			
Environment	Operating Temperature	Without MXM and extended temp peripherals: -20 ~ 55 °C with 0.7m/s air flow With MXM and extended temp peripherals: 0 ~ 50 °C with 0.7m/s air flow			
	Storage Temperature	-40 ~ 85 °C			
	Relative Humidity	95% @ 40 °C (non-condensing)			
	EMC	CE/FCC Class B, CCC, BSMI			
	Safety	CB, UL, CCC, BSMI			

Dimensions

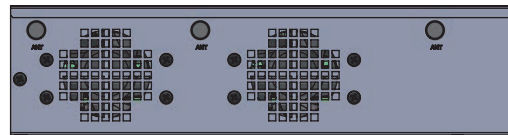
Unit: mm



Front View



Rear View



Ordering Information

P/N	GPU SKU	Display	LAN	COM	DIO	SATA III	USB 3.2	M.2 M Key	M.2 E key	Temperature	Config.
AIR-310-00A1	-	2	3	2	2	1	4	1	1	-20~55°C	Barebone

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

Packing List

Part Number	Description
-	AIR-310 Unit
-	Mounting Kit
-	User Manual (Simplified Chinese)
-	China RoHS

Embedded OS

Part Number	Description
-	WIN10 IoT LTSC 64bit for i7/i9
-	WIN10 IoT LTSC 64bit for Core i3 and i5
-	Ubuntu 22.04

AIR-310 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
96PSA-A230W24P4-3	AC to DC adapter, DC 24V 230W, -20 ~ 40 °C
TBC	MXM heatsink and bracket