AIR-410

Edge AI system powered by AMD Ryzen 8000 series processor

Features

- Ryzen™ Embedded 8000 Series Processor
- In total 39TOPS (CPU+iGPU+iNPU)
- Dual channel memory up to 96GB DDR5 5600MT/s
- One PCIe x16 Slot, support up to 350W for GPU card with powerful 850W PSU build-in
- Flexible expansion with 3x M.2: M key 2280, E key 2230, B key 2242
- Vertical I/O: 1 x DP 1.4, 1 x HDMI 2.1 ,3 x 2.5GbE, 4 x USB 3.2, 2 x USB 2.0, 4 x COM , 2 x 8bit GPIO(optional)
- Edge AI SDK AI toolkit, OS Windows 11 LTSC & Ubuntu 24.04 LTS compatible

Vertrieb durch AMC
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EdgeAI SDK WISE-DeviceOn

Specifications

Processor System	CPU	Ryzen 7 Pro 8845HS	Ryzen 5 Pro 8645HS
	Base Frequency	3.8 GHz	4.3 GHz
	Max. Turbo Frequency	5.1 GHz	5.1 GHz
	L3 Cache	16 MB	16 MB
	Core Number	8	6
	TDP	45W	45W
	Max TDP	54W	54W
	Chipset	N/A	
	BIOS	AMI UEFI 256 Mbit SPI	
Memory	Technology	Up to 2x SODIMM DDR5 5600MHz	
	Max. Capacity	1x slot up to 48 GB, in total 96 GB	
	Socket	2 x 262-pin SO-DIMM	
Ethernet	LAN 1, 2, 3	10/100/1000/2500 Mbps, LAN 1 (Intel i226V), LAN2/3 (Intel i226LM), support Wake On LAN /Boot from LAN	
Others	Watch dog Timer	255-level timer interval, setup by software	
	TPM	Infineon TPM2.0 SLB9672	
I/O Interface	COM	3 x RS-232 port(COM2/3/4), 1x RS-232/485 (COM1, by jumper)	
	USB (Type A)	4 x USB 3.2 (rear) & 2 x USB 2.0 (front)	
	HDMI	1 x HDMI 2.1, up to 3840 x 2160@60Hz	
	DP	1 x DP 1.2, up to 3840x2160@120Hz	
	DIO	2 x 8bit DIO (internal IO, pin header)	
	Audio	1 x Mic-in, 1 x Line-out, Realtek ALC888S HD Audio	
Expansions	M.2 M Key	1 x M key 2280 (PCIe Gen4 x4)	
	M.2 B Key	1 x B key 2242 (PCIe Gen4 x2)	
	M.2 E Key	1 x E key 2230 (PCIe Gen3 x2, USB 2.0)	
	Add-on Card Slot#1	One PCIe x16 (signal PCIe x8), Max. card size (W x H x D): 60 x 130 x 305 mm#3	
Storage	Storage	2 x 2.5" SATAIII Swappble SSD (Max Height 7mm)	
Software Support	Microsoft Windows	Windows 11 LTSC	
	Linux	Ubuntu Desktop 24.04 LTS	
Power Requirements	Power Type	ATX/AT mode (Default ATX)	
	Power Input Voltage	100-240V AC	
	Power Adapter	850W power supply built-in	
Power Consumption	Typical (OS idle mode)	25.83W	27.8W
	Max. (Full loading)	108.85W	108.26W
Mechanical	Dimensions (W x H x D)	240 x 190 x 380.7 mm	
	Weight	6.9 Kg	
Environment	Operating Temperature	0 ~ 45 °C (w/o PCIe Card), 0~ 40 °C (w/ PCIe Card)#2	
	Storage Temperature	-40 ~ 85 °C	
	Relative Humidity	95% @ 40 °C (non-condensing)	
	EMC	CE/FCC Class B, CCC, BSMI	
	Safety	CB(62368), UL(62368), CCC, BSMI	

#1 Devices with graphics cards are not suitable for use in high-vibration environments.
#2 Operating temperature varies by PCIe card; no universal guarantee applies.
#3 The graphics card models listed above have only been partially testedPlease verify physical fitment as not all dimensions are guaranteed.

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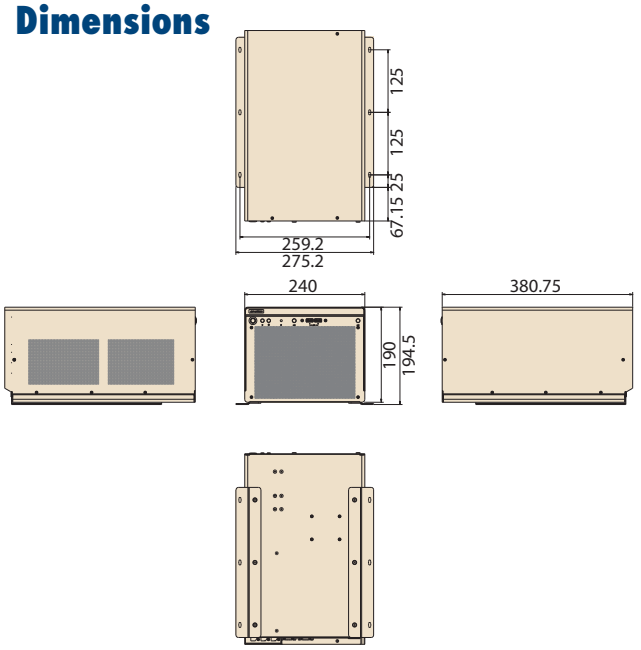
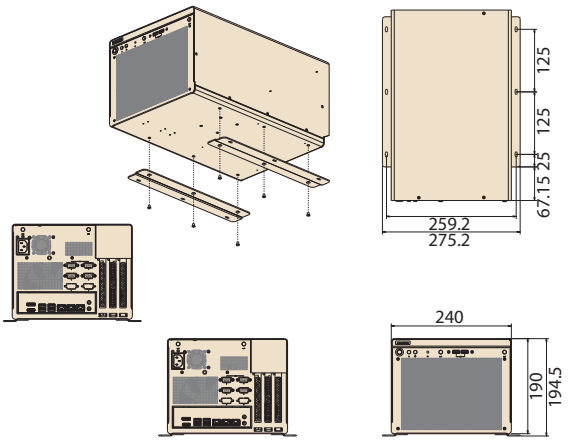
Dimensions

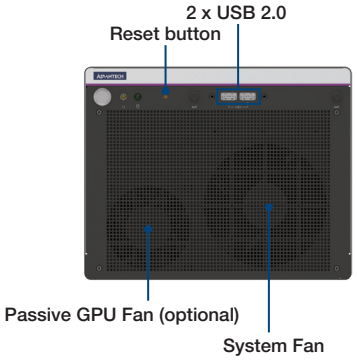
Unit: mm



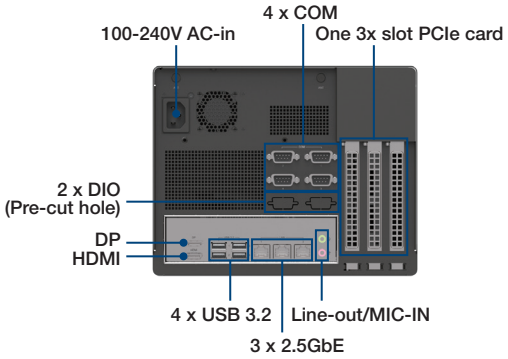
Deskmount



Front View



Rear View



Ordering Information

Part No.	CPU	DDR5	2.5 GbE	HDMI	DP	SATA	RS-232	RS-232/485	USB 3.2	USB 2.0	DIO	M.2 M Key	M.2 E Key	M.2 B Key	Power Supply	Expansion	Made in
AIR-4100-S8A1E	Ryzen 7 Pro 8845HS	Up to 96GB	3	1	1	2	3	1	4	2	2 (option)	1	1	1	850W Built-in	One PCIe x16 (signal PCIe x8)	China
AIR-4100-S3A1E	Ryzen 5 Pro 8645HS																
AIR-4100-S8A1U	Ryzen 7 Pro 8845HS	Up to 96GB	3	1	1	2	3	1	4	2	2 (option)	1	1	1	850W Built-in	One PCIe x16 (signal PCIe x8)	Taiwan
AIR-4100-S3A1U	Ryzen 5 Pro 8645HS																

Packing List*

Part Number	Description
-	AIR-410 Unit
1960104726N001	Desk mounting kit
1960118571N000	PCIe Card fixed bracket
1960117846T000	SSD Outside Door
36WSWPDOBUND11	WISE-DeviceOn Package

* In case of any changes, the actual packaging shall prevail.

Optional Item for Default SKU

Part Number	Description
1702002600-03	Power Cord UL 3P 10A 125V 183cm, USA type
1700018705	Power Cord EU 3P 10A 250V 183cm, EU type
1700032693-11	Power Cord BSI 3P 10A 250V 183cm, UK type
1700000237	Power Cord PSE 3P 12A 125V 183cm, PSE special connector
1700036020-01	DB9 Cable for DIO, 40cm
1700036177-01	1 to 2 90C power cable for PCIe card (2x6P-3.0+1x4P-2.0)/2x4P-4.2x2
1700035539-01	1 to 4 90C power cable for PCIe card (2x6P-3.0+1x4P-2.0)/2x4P-4.2x2
1750009113-01	System Fan 8038, G55H2087DHR, 8pin PWM

Operating System

Part Number	Description
20706U24DS0020	Ubuntu Desktop 24.04 LTS
20706WLH1S0103	Windows 11 IoT Enterprise 2024 LTSC ENU 64bit for Ryzen 7 Pro 8845HS
20706WLV1S0103	Windows 11 IoT Enterprise 2024 LTSC ENU 64bit for Ryzen 5 Pro 8645HS