

AIR-420

Compact edge AI HPC supporting two 3.9-slot GPUs



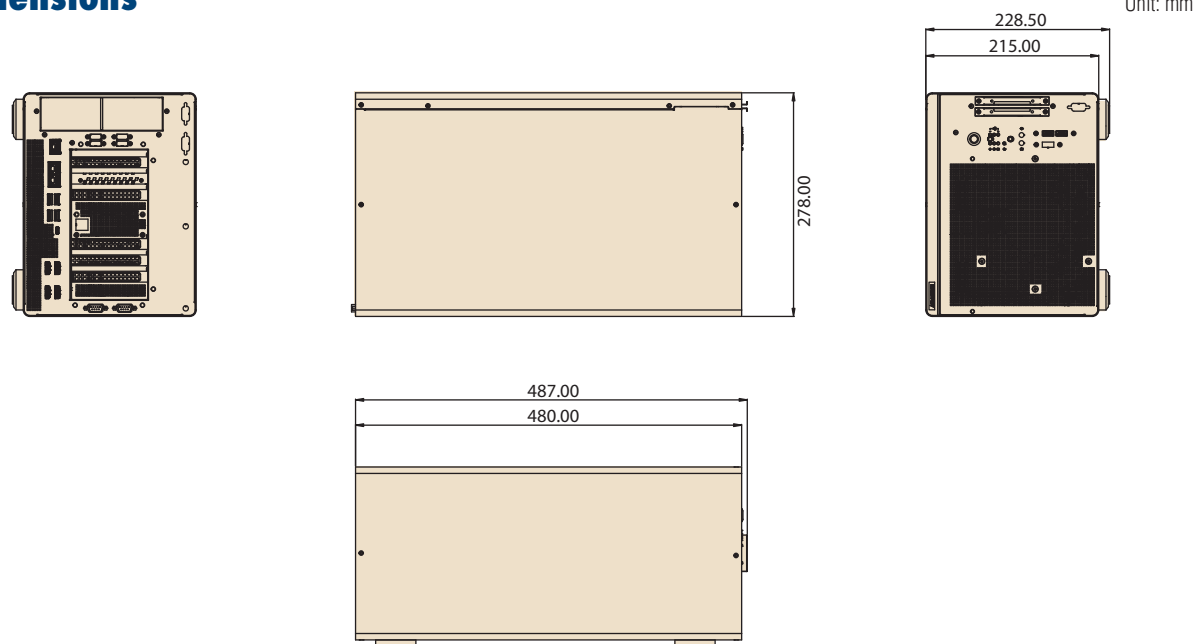
Features

- Compact 28.6L chassis with two 3.9-Slot Graphics
- Smart fan algorithm for optimal noise control
- Redundant power supply for unmatched reliability
- AMD RYZEN 7000/9000 series processor provides up to 12 cores
- Total 4 PCIe slots, 2 for AI cards and 2 for add-on cards
- Edge AI SDK Support: Streamline and accelerate enterprise-grade Edge AI integration and deployment.

Specifications

Processor System	CPU Model	Ryzen 7 9700X	Ryzen 5 9600X	Ryzen 9 PRO 7945	Ryzen 5 7645
	Number of Cores	8	6	12	6
	Max Clock	5.5 GHz	5.4 GHz	5.4 GHz	5.1 GHz
	Base Clock	3.8 GHz	3.9 GHz	3.7 GHz	3.8 GHz
	L2 Cache	8 MB	6 MB	12 MB	6 MB
	L3 Cache	32 MB	32 MB	64 MB	32 MB
	Default TDP(W)	65	65	65	65
Chipset		B650			
BIOS		AMI BIOS UEFI 256 Mbits SPI			
Memory	Technology	DDR5 up to 5200 MT/s, ECC memory supported			
	Max. Capacity	128GB (32GB per DIMM, RYZEN 7000 series); 192GB (48GB per DIMM, RYZEN 9000 series)			
	Socket	4 x 288pin UDIMM			
Discrete GPU Slot	PCIe Signal	PCIe Gen5 x16 for a signal GPU card; PCIe Gen5 x8 for two GPU cards. (Auto detection)			
	Slot Qty.	2			
	TDP	Up to 1200W for all graphic cards			
Built-in Display	Chipset	Radeon™ Graphics			
	HDMI	4			
Ethernet	Controller	LAN1: 2.5GbE Intel i226-LM LAN2: 2.5GbE Intel i226-LM LAN3: 10GbE Intel RTL 8127			
Audio		Mic-in; Line out (Option)			
Others	Watch dog Timer	255-level timer interval, setup by software			
	TPM	TPM 2.0			
I/O Interface	USB 3.2 Gen1	(Front) 2 x USB 2.0 (Rear) 1 x USB Gen 3.2 (Gen2 x2, 20 Gbps) type C; 4 x USB Gen 3.2 (Gen2 x1, 10Gbps) type A			
	GPIO	8-bit GPIO (Optional)			
	Serial	2 x RS-232/422/485 (select via BIOS) ; 2x RS-232 (optional)			
Expansions	Slimline SAS	2 x PCIe Gen4 x 4 slot; 1 x M.2 E key 2230			
Storage	SSD	2 x 2.5" SATAIII hard drive bay with Max Height 7mm			
	NVME	1 x M.2 M Key 2280 NVMe PCIe x4			
Software Support	Microsoft Windows	Windows Win11 IoT			
	Linux	Ubuntu 24.04			
Power Requirements	Power Type	AC in			
	Power Input Voltage	100 - 240 V			
	Power Supply	CRPS up-to 2000W			
Mechanical	Mounting	Rack Mount (Project based)			
	Dimensions (W x H x D)	278 x 215 x 480 mm			
	Weight	15.5 Kg			
Environment	Operating Temperature	0 ~ 50°C (65W CPU, w/o Graphic card)			
	Vibration During Operation	With SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.			
	Shock During Operation	With SSD: 10 G, IEC 60068-2-27, half sine, 11 ms duration			
	Storage Temperature	-20 ~ 60°C			
	Relative Humidity	95% @ 40 °C (non-condensing)			
	EMC	CE/FCC Class A			
	Safety	LVD, CCC, BSMI			

Dimensions



Ordering Information

Model	PSU	UDIMM 288-Pin Slot	2.5" SATA Bay	HDMI	2.5 GbE	10 GbE	PCIe x16 slot	PCIe x4
AIR-420-000A1 Bare system*	None	4	2	4	2	1	2**	2

Remarks

*Bare system, NO CPU, NO RAM, NO Storages

** PCIe signal x16 with 1 GPU or x8 with 2 GPUs by auto detection

Packing List

Item	Part Number	Quantity
CPU Heatsink	TBD	1
Screw M3*4 To Fix 2.5" Storage	1930005836-01	8

Embedded OS/API

OS	Part Number	Description
Windows	TBD	Windows 11 IoT
Ubuntu	TBD	Ubuntu 24.04

Optional Accessory

Item	Part Number	Description
Power Cable	1700000596-11	Power cable 3-pin 183cm, China type
	1702031801	Power cable 3-pin 183cm, UK type
	1702002600	Power cable 3-pin 183cm, USA type
	1702002605	Power cable 3-pin 183cm, Europe type
	1700000237-01	Power cable 3-pin 183cm, Japan type
	1700001714	Power cable 3-pin 183cm, Taiwan type
Accessory	TBD	16 pin GPU power cable
	TBD	COM cable for COM3, COM4
	TBD	DIO cable
	TBD	USB 1 cable
	TBD	USB9, 10 cable (1pcs); USB 11, 12 cable (1pcs)
	TBD	Dust prevent cover
	TBD	Passive fan kit (1 set for 1 GPU)