AIR-540

4U High-Density HPC Server Powered by AMD EPYC 8004 Series



Features

- Powered by the energy-efficient AMD EPYC™ 8004 Series Processor.
- 4pcs 2-slot GPUs for high-density computing.
- 6x DDR5 ECC-REG RDIMMs for superior reliability and performance.
- CXL Board support, ready for future memory expansion and resource pooling.
- Optimized System noise control to fulfill variant Edge AI application environments.

Specifications

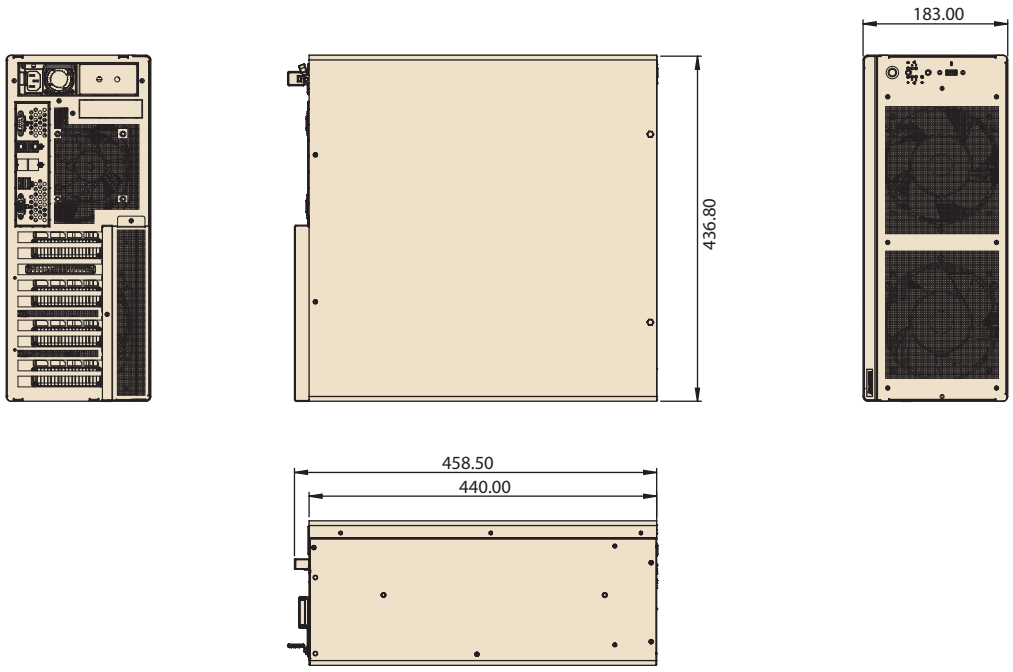
Processor	CPU	8534P	8434P	8324P	8224P	8124P
	Core	64	48	32	24	16
	Base frequency (GHz)	2.3	2.5	2.65	2.55	2.45
	Max Speed (GHz)	3.1	3.1	3	3	2.95
	L3 Cache (MB)	128	128	128	64	64
	TDP (W)	200	200	180	160	125
BIOS		AMI BIOS UEFI 256 Mbits SPI				
Memory	Technology	DDR5 up to 4800 MT/s, ECC memory supported				
	Max. Capacity	576GB (up to 96GB per DIMM)				
	Socket	6 x 288pin RDIMM				
PCIe Slot	PCIe Signal	PCIe Gen5 x 16				
	Slot Qty.	4				
Display	VGA	1				
Ethernet	Controller	2.5GbE: Intel® I226-LM (LAN1, 2) 10GbE: Intel® X710-AT2 (LAN3, 4)				
Others	Watch dog Timer	255-level timer interval, setup by software				
	TPM	TPM 2.0				
I/O Interface	USB 3.2 Gen1	1 x USB 3.2 Gen1 (Front) 2 x USB 3.2 Gen1 (Rear)				
	RJ-45	4				
	Serial	1 x RS232				
Expansions		2 x PCIe x8 CXL module EDSFF 2C (optional)*				
Storage	NVME	2 x PCIe Gen4 x 4				
	2.5" SSD	8 (optional)*				
	3.5" HDD	2 (optional)*				
Software Support	Microsoft Windows	Windows Win11 LTSC				
	Linux	Ubuntu 24.04				
Power Requirements	Power Type	AC in				
	Power Input Voltage	100 - 240 V				
	Power Supply	CRPS up-to 2700W				
Mechanical	Dimensions	436.8 x 458.5 x 183 (L x W x H) mm				
	Weight	16.8kg				
Environment	Operating Temperature	0 ~ 40°C (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				
	Relative Humidity	95% @ 40 °C (non-condensing)				
	EMC	CE/FCC Class A				
	Safety	CB, UL, CCC, BSMI				

Remark
*For CXL module EDSFF 2C / 2.5" SSD*8/ 3.5" HDD 2 options are available by project-based request or TPN.

All product specifications are subject to change without notice.

Dimensions

Unit: mm



Ordering Information

Model	RDIMM 288-Pin Slot	USB	VGA	2.5 GbE	10 GbE	PCIe x16 slot	PCIE x8
AIR-5400-00A1U Bare system*	6	3	1	2	2	4**	2**

Remarks
* Bare system, NO PSU, NO CPU, NO RAM, NO Storages.
**PCIe signal x16 or x8 depends on GPU selection by auto detection and BIOS setting.

Packing List

Item	Part Number	Quantity
CPU Heatsink	1970005926N011	1
CRPS cover	1960103205N200	1
GPU Bracket	1960118527N000	4

Embedded OS/API

OS	Part Number	Description
Windows	20706WLH1S0155	Windows Win11 LTSC
Ubuntu	20706U24DS0072	Ubuntu 24.04
Win Server*	20706WS45S0000	Win Server 2025 24 core

Remark:
*CPU with more than 24 cores: Add 1 pc of 968QSR25SA4C00 for every additional 4 cores.

Optional Accessory

Power Cable	
1702002600	Power cable 3-pin 183cm, USA type (2000 W)
1702031801-11	Power cable 3-pin 183cm, UK type (2000 W)
1702002605	Power cable 3-pin 183cm, Europe type (2000 W)
1700000237-01	Power cable 3-pin 183cm, JP type (2000 W)
1700000596-11	Power cable 3-pin 183cm, CN type (2000 W)
1700027909-02	Power cable 3-pin 183cm, TW type (2000 W)
1700024782-01	Power cable 3-pin 180cm, USA type (2700 W)
1700023533-01	Power cable 3-pin 183cm, Europe type (2700 W)
1700023534-01	Power cable 3-pin 183cm, UK type (2700 W)
GPU Cable	
1700035523-01	180 to 180 16pin power cable (normal GPU)
1700035522-01	90 to 180 16pin power cable (for 5090)
1700036870-01	6-pin PDB to 8-pin PCIe power cable
Accessory	
96PSRM-A2KWCRPA	2000W CRPS*
96PSRM-A2K7WCRT	2700W CRPS*
TBD	Fan Duct for GPU

Remark
*2000W/2700W CRPS Input Power 110V provide 1000W only, Input Power 220V can provide 2000W/2700W.