

AIR-520

4U System support AMD EPYC 7003 series server CPU



Features

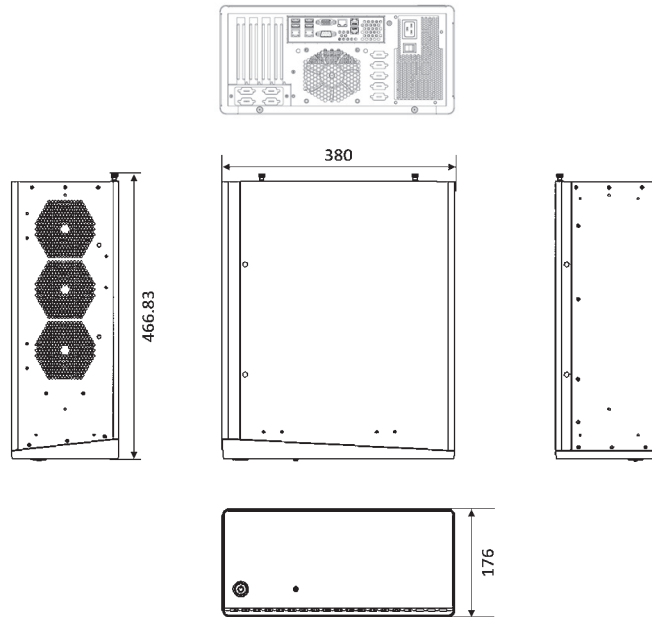
- 4U Edge AI Server supports AMD EPYC 7003 series processors
- Able to feature 4x single-slot or 2x dual-slot graphic cards
- Up-to 768GB DDR4 3200 DRAM
- Build in ATX 3.0 1200W PSU for total 700W graphic card TDP
- NVIDIA Certified with RTX 6000 Ada

Specifications

Processor System	CPU	7313P	7543P	7713P
	Core Number	16	32	64
	Max. Speed	3.7GHz	3.7GHz	3.675GHz
	L3 Cache	128MB	256MB	256MB
	TDP (W)	155W	225W	225W
	Supports Model	AIMB-592SF, AIMB-592SL		
	BIOS	AMI BIOS 256 Mb SPI		
Chipset	NA			
BIOS	AMI BIOS UEFI 256 Mbits SPI			
Memory	Technology	DDR4 up to 3200 MT/s, ECC memory supported		
	Max. Capacity	768GB (128GB per DIMM)		
	Socket	6 x 288pin RDIMM (ECC)		
Discrete GPU Slot	PCIe Slot	PCIe 4.0 x16 slot		
	Qty	4		
	TDP	Up to 700W for all graphic cards		
Built-in Display	Chipset	BMC		
	VGA	1		
Ethernet	Controller	LAN1: 2.5GbE Intel i226-LM LAN2: 2.5GbE Intel i226-LM LAN3: 10GbE Intel X550 LAN4: 10GbE Intel X550 LAN5: BMC LAN		
	Connector	RJ45 x5 (592SF)		
Audio	NA			
Others	Watch dog Timer	255-level timer interval, setup by software		
	TPM	TPM 2.0		
I/O Interface	USB 3.2 Gen1	4 x USB 3.2 (Gen2 x 1, 5G)		
	GPIO	8-bit GPIO (Optional)		
	Serial	1x RS-232		
Expansions	Slimline SAS	SAS1 PCIe x4; SAS2 4 PCIe x1		
Storage	SSD	6 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 Server 2019		
	Linux	Ubuntu 22.04		
Power Requirements	Power Type	AC in		
	Power Input Voltage	100 - 240 V		
	Power Supply	1200W build in		
Mechanical	Mounting	Rack Mount (included)		
	Dimensions (W x H x D)	380 x 176 x 466.83 mm		
	Weight	15.5 Kg		
Environment	Operating Temperature	0 - 40°C (with 2x RTX A5000, tested by NVIDIA Certified Program) 0 - 35°C (Advantech test standard)		
	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 B		
	Safety	LVD, CCC, BSMI		

Dimensions

Unit: mm



Ordering Information

Model	PSU	RDIMM 288-Pin Slot	2.5" SATA Bay	VGA	2.5 GbE	10 GbE	BMC GbE	USB3.2 Gen2 x1	PCIe x16
AIR-520-000A1 Bare-bone	1200W	6	6	1	2	2	1	4	4

Remarks
Bare-bone, NO CPU, NO RAM, NO Storages

Packing List

Item	Part Number	Quantity
CPU Cooler	1970004817N001	1
Screw M3*4 To Fix 2.5" Storage	1930005836-01	24
CABLE TIE (P.G. GT-160M)	1992822010	4

Embedded OS/API

OS	Part Number	Description
Windows	20706WS96S0005	Windows Server 2019
Ubuntu	20706U22DS0054	Ubuntu Desktop 22.04 LTS ENU 64bit

Optional Accessory

Item	Part Number	Description
Power Cable	1700021723-02	Power cable 3-pin 183cm, USA type
	1700023533-01	Power cable 3-pin 183cm, Europe type
	1700023534-01	Power cable 3-pin 183cm, UK type
	1700023536-01	Power cable 3-pin 183cm, Japan type
Accessory	AIR-520-BGFA1	Graphic card anti-vibration bracket (PCIe FH)
	AIR-520-KFAA1	Fan Kit for passive cooling graphic card*
	AIR-520-KM2A1	Slim SAS M.2 Expansion Module

*Must to have AIR-520-BGFA1 before fan kit