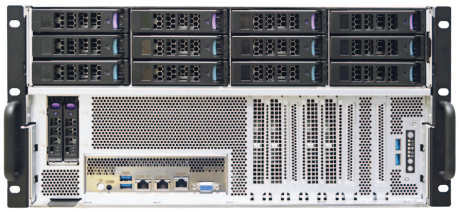
CB501-VA GPU Server



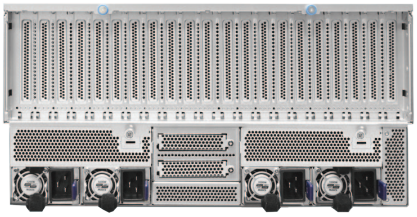
Features

- 5U 10GPU server supports maximum 10 dual-slot GPU cards
- Supports dual 5th Gen Intel® Xeon® Scalable Processors (Emerald Rapids CPU)
- Supports dual 4th Gen Intel® Xeon® Scalable Processors (Sapphire Rapids CPU)
- Supports DDR5 RDIMM and PCIe Gen5 extensions
- Supports PCIe Gen5 switch
- 4 x NVMe + 8 x SAS/SATA hot swappable drive bays
- 2000W 3+1 redundant power supply 80+ Platinum/Titanium

Front View



Rear View

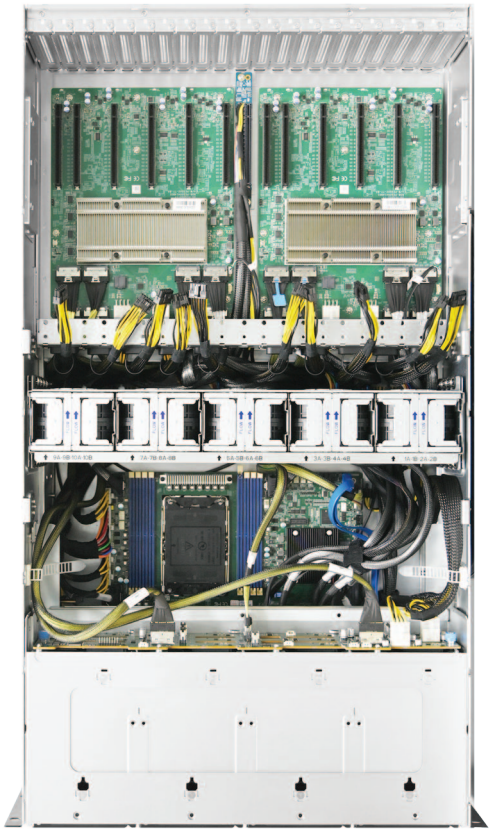


Specifications

Dimensions (W x D x H)	mm : 435 x 830 x 218		
	inches : 17.1 x 32.7 x 8.6		
Motherboard	AIC Server Board Vega		
Processor	Processor Support	• Dual 5th Gen Intel® Xeon® Scalable Processors (Emerald Rapids CPU) • Dual 4th Gen Intel® Xeon® Scalable Processors (Sapphire Rapids CPU) **Please contact AIC Technical Support for more info/details about optimized CPUs and specialized system.*	
	CPU Interconnection	16/20GTs	
	Socket Type	Socket E1 (LGA-4677-X)	
Chipset Support	Intel® C741		
System Memory	• DDR5 5600/4800MHz RDIMM (1DPC) • Total 16 memory slots; 8 slots per CPU (1DPC) • Supports up to 4TB (3DS RDIMM)		
Front Panel	System power on/off, System reset, ID button		
LEDs	Power status, Drive activity, LAN activity, System alert, System ID		
Drive Bays	External	3.5" hot swap	12 (4 NVMe Gen4 + 8 SAS/SATA)
	Internal	2 x M.2/M-Key/2280 (PCIe Gen4)	
Backplane	1 x 12-port PCIe Gen4 Tri-mode		
Expansion Slots	Front	• 1 x PCIe 5.0 x16 slot (FHFL) • 1 x PCIe 5.0 x8 slot (FHFL) • 4 x PCIe 5.0 x16 slots are occupied by retimer cards	
	Rear	• 10 x PCIe 5.0 x16 slots (FHFL) / dual-slot • 1 x PCIe 5.0 x16 slot (FHFL) • 2 x OCP PCIe 4.0 x16 slots (non hot-swap) or 2 x PCIe 5.0 x 16 LP (by SKU)	

System BIOS	BIOS Type	AMI UEFI BIOS
	BIOS Features	• ACPI • PXE • WOL • AC loss recovery • IPMI 2.0 KCS mode interface • SRIOV • SMBIOS • TPM • Serial console redirection • PCIe hotplug
On-board Devices	SATA	Emmitsburg PCH on-chip solution • 2 x SATA3.0 (6 Gb/s) 7-pin connectors • 1 x Slimline connector (up to 8 SATA ports)
	IPMI	Aspeed AST2600 Advanced PCIe Graphics & Remote Management Processor • Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • HTML5 • Redfish
	Network Controllers	• Realtek RTL8211FS 1GbE for BMC dedicated management port • Broadcom BCM5720 dual port 1GbE (NCSI for share NIC)
	Graphics	• Integrated VGA support by ASPEED AST2600 • Resolution up to 1920x1200 @60Hz 32bpp

Top View



(Power supply and Server board are included.)

Front I/O	LAN	• 1 x RJ45 GbE connector for BMC dedicate management port • 2 x RJ45 1GbE connectors
	USB	4 x USB3.2 Gen1 Type-A
	VGA	1 x DB-15 VGA connector
Power Supply	2000W 3+1 redundant power supply 80+ Platinum/Titanium	
System Cooling	10 x 80x56mm hot swap fans	
System Management	• IPMI 2.0 • KVM over IP • Media redirection • Temperature, fan, voltage, PSU sensor monitor • System temperature	

System Management	• System ID / System fail indicator • Remote power on/off/reset • SEL message alarm through mail • SNMP support	
Environmental Specifications	• Storage temperature : -10ºC(14ºF) ~ 60ºC(140ºF) • Operating temperature : 0ºC(32ºF) ~ 35ºC(95ºF) • Storage operating humidity : 5%~95% non-condensing	
Gross Weight	(w/ PSU & Rail)	kgs : 51.85
		lbs : 114.3
Packaging Dimensions	(W x D x H)	mm : 625 x 1130 x 430
		inches : 24.6 x 44.5 x 17
Mounting	Standard	37" tool-less slide rail

Ordering Information

SKU Number	Description
XP1-C501VA04	5U 12-bay 10 GPU/FPGA Server, 4x NVMe (Gen4) + 8x SAS/SATA 3.5”/2.5” hot-swap bay (12-bay Passive BP), 2x 2.5” NVMe (Gen5) hot-swap bay, 2000W 3+1 Platinum redundant power supply, 10x 8056 hot-swap fan, FIO AIC Vega Motherboard, Intel 5th/4th Gen Xeon, DDR5 RDIMM x16, Intel Emmitsburg PCH (C740), 4x Retimer card, 1x PCIe x8 FHFL Gen5 (front) , 2x PCIe x16 FHFL Gen5 (front), 10x PCIe x16 FHFL/dual slot Gen5 (rear), 1x PCIe x16 FHFL Gen5 (rear), 2x active CPU heatsink (270W), 37” slide rail, w/ 10x power convert cable for Nvidia ADA series, w/o bezel

Remark: All specifications and photos are subject to change without notice. © 2026 AIC Inc. All rights reserved.