PENGUIN SOLUTIONS

Datasheet

Altus XE8318GTS



Big problems need big solutions.

Overview

The Penguin Solutions® Altus® XE8318GTS server combines AMD's next-generation EPYC™ Turin processors with NVIDIA B200 HGX GPUs to deliver exceptional performance for AI training, inference, large language models, high-performance computing, and deep learning workloads.

Powered by AMD's advanced Zen 5 architecture, EPYC Turin processors provide robust compute capabilities, enhanced memory bandwidth, and high-speed PCIe 5.0 connectivity to support demanding AI and HPC applications. NVIDIA's cutting-edge B200 HGX platform, built on the Blackwell architecture, delivers industry-leading GPU performance and scalability for next-generation AI workloads.

Designed to operate efficiently in traditional air-cooled environments, the Altus XE8318GTS enables organizations to take advantage of next-gen compute power without requiring major changes to existing data center infrastructure. This makes it an ideal solution for deployments in legacy facilities, where air cooling remains the standard and infrastructure investments have already been made. By maintaining compatibility with widely deployed thermal and rack standards, the system helps reduce deployment costs and accelerates time-to-value, while still delivering cutting-edge performance.

Key Features

- Dual AMD EPYC™ 9005 processors
- Up to 24 DDR5-6400 MT/s memory modules to deliver speed and efficiency for data-intensive workloads
- Storage density for up to 8x 2.5" hot-swap drive bays with NVMe support
- Supports up to 8 x Nvidia SXM GPUs with Dedicated GPUDirect RDMA NICs
- A/B, True N+N Power Redundancy

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This powerful, infrastructure-friendly combination empowers data scientists, researchers, and AI engineers to tackle the most demanding computational challenges—including generative AI, scientific simulations, and real-time analytics—across both enterprise and hyperscale environments.

Technical Specifications

Form Factor		
Form Factor	8U Rackmount	
Processors		
Processor Number	2	
Processor Type	AMD EPYC™ 9005/9004 Series	
Maximum TDP	500W	
Motherboard		
Chipset	SoC	
Board Management		
BMC Chipset	ASpeed AST2600	
Dedicated BMC Interface	RJ45	
IPMI 2.0	Yes	
Virtual Media Over LAN	Yes	
KVM Over LAN	Yes	
RedFish	Yes	
Memory		
Memory Type	DDR5-6400 MT/s (EPYC 9005), DDR4-4800 MT/s (EPYC 9004)	
Memory Capacity	Up to 6TB (24 DIMMs)	
Storage System		
Hard Drive Bays	U.2 NVMe (2.5")	8 Hot-Swappable Bays
	M.2 (2280/22110)	2 PCIe Gen3
Networking		
Ethernet Controller	Intel® X710-AT2	
On-Board LAN	2x 10GbE/RJ45	
PCI Expansion Slots		
Number of Slots/Gen/Speed (Size)	8x PCIe Gen5 x16 FHHL Slots, 4x PCIe Gen5 x16 FHHL DW Slots	
GPU		
GPU Capable	8-GPU SXM	
GPU Supported	NVIDIA HGX™ B200, H200	
External I/O Interfaces		
USB Ports	2x USB 3.2 Gen1	
Video Output	1x VGA	
Supported Operating System		
Supported OS	RHEL, Rocky	

Power System	
Power Supply Size	6+6 x 3000W 80Plus Titanium
Regulatory Compliance	
Regulations	CE, FCC
Mounting Hardware	
Rackmount Rails	Standard Rails included
Operating Environment	
Operating Temperature	10C to 35C (50F to 95F)
Non-operating Temperature	0C to 60C (32F to 140F)
Operating Relative Humidity	8% to 80% (non-condensing)
Non-operating Relative Humidity	20% to 95% (non-condensing)
System Dimensions & Weight	
Height	13.82 inches
Width	17.60 inches
Depth	36.22 inches
Warranty	
Warranty	3 Years Standard; For details see the MPSA
Cooling Options	
Air Cooling	Standard
Direct-To-Liquid Cooling	N/A

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Contact Us

For sales queries, please contact sales@penguinsolutions.com.

To learn more about the Altus XE8318GTS Server and other Penguin Solutions products, please visit: www.penguinsolutions.com

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