

Altus[®] XE1312 Server

A Versatile, Scalable 1U Server for Data Center
and HPC Workloads

Key Features

- ▶ Dual AMD EPYC[™] Processors at up to 400W each for performance configurations
- ▶ Up to 24 DDR5-4800MHz ECC memory modules to deliver speed and efficiency for data-intensive workloads
- ▶ Storage density for 12 x 2.5" hot-swap drive bays with SATA and NVMe support
- ▶ Up to 2 x PCI Express Gen 5 low profile slots plus 2 x OCP3.0 Gen5 mezzanine slots for additional connectivity

Modern data centers need flexible computing resources that can be deployed at scale. The Penguin Computing[®] Altus[®] XE1312 server provides dual AMD EPYC[™] 9004 processors, fast and efficient memory, and up to 12 x 2.5" drive bays for flexible and dense storage. With powerful compute and dense storage in a single server, the Altus XE1312 is an optimal platform for data center and HPC deployments at scale.



GIGABYTE[™]



Technical Specifications		
Form Factor		
Form factor	1U Rackmount	
Processors		
Processor Number	2	
Processor Type	AMD EPYC 9004	
Maximum TDP	cTDP Up to 400W	
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	DDR5-4800MHz ECC	
Memory Capacity	Up to 6TB/Socket	
Storage System		
Hard Drive Bays	U.2 NVMe (2.5")	12x NVMe U.2.
Networking		
Ethernet Controller	Intel® i350-AT2	
On-Board LAN	2x 1GbE/RJ45	
PCI Expansion Slots		
Number of Slots/Gen/Speed (Size)	2x PCIe Gen5 x16 FHHL	
Mezzanine Expansion Options		
OCP Mezzanine	Storage OCP Mezz	
	Network OCP Mezz	2x PCIe Gen5 x16 OCP3.0 Slot
External I/O Interfaces		
USB Ports	2x USB 3.0	
VGA Ports	1x MiniDP	
Supported Operating System		
Supported OS	RHEL, Rocky	
Power System		
Power Supply Size	2x 1600W 80Plus Platinum	
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	30% to 80% (non-condensing)
Non-operating Relative Humidity	20%-95% (non-condensing)
System Dimensions & Weight	
Height	1.69 inches
Width	17.2 inches
Depth	32.1 inches
Warranty	
Warranty	3 Year Standard; Up to 4 years on-site available

Learn More

Visit www.penguincomputing.com to learn more about our servers.

ABOUT PENGUIN SOLUTIONS

An **SGH**™ Brand

Penguin Solutions accelerates digital transformation with the power of emerging technologies in HPC, AI, and IoT with solutions and services that span the continuum of edge, core, and cloud.

Penguin Computing specializes in innovative and emerging technologies for the world’s most demanding workloads.



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