

Altus[®] XE2312 Server

A Versatile 2U Server for HPC, Enterprise,
and Hyper-Scale Deployments

Key Features

- ▶ 2U rackmount form factor
- ▶ Dual AMD EPYC Processors at up to 800W per system for performance configurations
- ▶ Up to 24 DDR5-4800MHz ECC memory modules to deliver speed and efficiency for data-intensive workloads
- ▶ Storage density for 24 x 2.5" hot-swap NVMe U.2 drive bays
- ▶ Four PCIe x16 Gen 5 low profile slots

Modern data centers need flexible computing resources that can be deployed at scale. The Penguin Computing[®] Altus[®] XE2312 provides dual AMD[®] EPYC[®] 9004 processors, DDR5 memory, and up to 24 2.5" drive bays for flexible and dense storage. With powerful compute and dense storage in a single server, the Altus XE2312 is an optimal platform for data center and HPC deployments at scale.



Technical Specifications

Form Factor

| | |
|-------------|--------------|
| Form factor | 2U Rackmount |
|-------------|--------------|

Processors

| | |
|------------------|-----------------|
| Processor Number | 2 |
| Processor Type | 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 |
| Memory Capacity | Up to 6TB/Socket |

Internal Storage Controller

Onboard Controller

Storage System

| | | |
|-----------------|-----------------------------------|---|
| Hard Drive Bays | SATA (2.5") 16 Hot-Swappable Bays | SATA/U.2 NVMe (2.5") 8 Hot-Swappable Bays |
|-----------------|-----------------------------------|---|

Networking

| | |
|---------------------|----------------|
| Ethernet Controller | Intel i350-AT2 |
| On-Board LAN | 2x 1GbE/RJ45 |

PCI Expansion Slots

| | |
|----------------------------------|-----------------------|
| Number of Slots/Gen/Speed (Size) | 4x PCIe Gen5 x16 FHHL |
|----------------------------------|-----------------------|

Mezzanine Expansion Options

| | | |
|---------------|------------------|-----|
| OCP Mezzanine | Storage OCP Mezz | N/A |
| | Network OCP Mezz | N/A |

External I/O Interfaces

| | |
|-----------|-------------|
| USB Ports | 2 x USB 3.0 |
| VGA Ports | 1x MiniDP |

Supported Operating System

| | |
|--------------|-------------|
| Supported OS | RHEL, Rocky |
|--------------|-------------|

Power System

| | |
|-------------------|--------------------------|
| Power Supply Size | 2x 2000W 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 | 3.4 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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