Hewlett Packard Enterprise

HPE APOLLO 6500 GEN9 SYSTEM

Apollo 6500 System

WHAT'S NEW

- Solve problems faster with up to 56 Tflops of single precision performance per 2U node.
- Optimize accelerator configurations to match your workload.
- Faster communications between nodes with two PCIe Gen3 x16 slots to enable your choice of high speed fabrics.

OVERVIEW

Do you need to rapidly transform massive data streams?

The HPE Apollo 6500 System provides the tools and the confidence to deliver high performance computing (HPC) innovation. The system consists of three key elements: the HPE ProLiant XL270d Gen9 Server tray, the HPE Apollo d6500 Chassis, and the HPE Apollo 6000 Power Shelf.

The XL270d Gen9 Server provides up to 56 Tflops of single precision performance per server with eight NVIDIA® Tesla M40 GPU and two Intel® Xeon® E5-2600 v4 processors in a 2U server. With a configurable internal PCIe Gen3 fabric,

choose to optimize the GPU topology to match your specific needs. High-bandwidth, low-latency networking is tightly coupled to the accelerators allowing you to take full advantage of your network. Two x16 PCIe Gen3 slots for your choice of high speed fabrics.

The Apollo 6500 System: Your next accelerated computing solution.

FEATURES

Flexible Configuration for the Most Demanding High-performance Computing Workloads

The HPE Apollo 6500 System supports up to eight 300W GPU or coprocessors delivering increased performance.

For workloads optimized for high peer to peer communication among the accelerators, place four (4) GPU on a single high speed PCIe switch, and two banks to a CPU for eight (8) GPU per CPU.

For workloads requiring higher CPU to GPU communications, choose our four (4) GPU per CPU configuration.

The HPE ProLiant XL270d Gen9 Server supports industry standard Intel® Xeon® E5-2600 v4 processors, solid state drives (SSD) with 12 G SAS and up to 1024 GB DDR4 2400 MHz memory for blazing performance.

Up to 16 HPE DDR4 2400 MHz Memory Modules per HPE ProLiant XL270d Gen9 Server for faster performance with data-intensive application workloads.

High-bandwidth, Low-latency Networking Between Accelerator Nodes

The HPE Apollo 6500 System includes two low profile PCIe Gen3 x16 slots to enable your choice of high speed fabrics..

In the 8:1 GPU to CPU topology, networking is directly attached to the PCIe Gen3 fabric of the GPU for reduced latencies between GPU nodes.

Supports GPUDirect with four (4) GPUs per HPE InfiniBand Adapter.

Technical specifications	HPE Apollo 6500 Gen9 System
Supported trays	HPE ProLiant XL270d Gen9 Accelerator Tray
Supported chassis	HPE Apollo d6500 Chassis
Memory	16 DIMM slots, DDR4, 2400MHz, 512 GB Max (16x32GB)
Expansion slots	8 x16 PCIe Gen 3 for GPU, 2 x16 Low Profile PCIe Gen3 slots
System fan features	4 Dual Rotor per tray, up to 8 per chassis

For additional technical information, available models and options, please reference the QuickSpecs

HPE POINTNEXT SERVICES

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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