

HPE Cray XD670



What's new

- Support for eight NVIDIA H200 Tensor Core GPUs with 5th Generation Intel® Xeon® Scalable processors.
- Support for up to 32x DDR5 DIMMs, up to 5600 MT/s.
- PCIe Gen5 increased data transfer speed over PCIe Gen4, giving faster data transfer speeds for SSDs, GPUs, and other peripheral cards. [1]

Overview

Do you need a high performing, dense system to meet the evolving requirements of your AI training workloads? The HPE Cray XD670 system boosts AI performance at scale in a dense 5U form factor. Armed with eight NVIDIA® H200 or H100 Tensor Core GPUs, HPE Cray XD670 is ideal for GPU-intensive workloads such as large language model (LLM) training and natural language processing (NLP) to gain insights from large amounts of data. Optional plug-and-play direct liquid cooling brings power efficiency and enables energy reuse, helping you advance your sustainability goals. Purpose-built storage is integrated with the system, creating a unified architecture that can scale rapidly. HPE Cray XD670 supports a robust portfolio of HPE software to help you streamline the development of AI applications and launch them into production. Exceed the boundaries of what's possible with HPE Cray XD670, purpose-built for AI at scale.

Features

Purpose-built for AI Workloads

The HPE Cray XD670 system is powered by eight NVIDIA H200 or H100 Tensor Core GPUs and Transformer Engine support.

#1 result for Natural Language Processing (NLP) with BERT 99.0 Offline scenario in MLPerf (tm) Inference v4.0 benchmark. [2]

Complete solution for AI that can scale out from one to thousands of nodes to support growing AI environments.

Efficient Flexibility in a Dense Architecture

The HPE Cray XD670 is a 5U chassis system that contains a single 2x CPU node.

Choice of air cooling or plug-and-play direct liquid cooling (DLC) that increases power efficiency and enables energy reuse, helping you advance your sustainability goals.

Purpose-built integrated storage delivers strong read and write performance cost-effectively.

Supports a wide range of interconnect options including InfiniBand, high-speed Ethernet, and HPE Slingshot.

Simplify Management and Deployment

The HPE Cray XD670 system includes industry-standard, DMTF-compliant Redfish for simple and secure system management.

HPE Performance Cluster Manager (HPCM) provides automated provisioning, monitoring, remote support, and firmware updates for HPE Cray XD670.

HPE Services brings together technology and expertise to accelerate your transformation and prepare for what comes next.

[1] Visit URL <https://www.intel.com/content/www/us/en/gaming/resources/what-is-pcie-4-and-why-does-it-matter.html>

[2] "New MLPerf Inference Benchmark Results Highlight The Rapid Growth of Generative AI Models," MLCommons(tm), March 2024

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.
- **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

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

GreenLake

[GreenLake](#) is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

- Streamline IT Operations across compute, storage, and networking without the chaos
- Unify and secure data, as you move faster
- Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

[For additional technical information, available models and options, please reference the QuickSpecs](#)

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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