

HPE Cray XD2000



What's new

- 5th Generation AMD EPYC™ Processors and 5th Gen Intel® Xeon® Scalable processors
- Support for NVIDIA® H100 NVL 94GB GPU on HPE Cray XD295v Server with 5th Generation AMD EPYC Processors
- Features 24 (AMD) or 16 (Intel) DDR5 DIMMs per one server node
- Baseboard management controller (BMC) for HPE Cray XD2000, offers hardware root of trust with recovery and chain of trust, providing firmware that does not get compromised
- 2U model variants support GPUs or extra PCIe cards on AMD-based HPE Cray XD2000 System
- Micron 7500 PRO and MAX NVMe SFF U.3 SSDs for HPE Cray XD2000 System

Overview

Do you need a density-optimized, scale-out compute system to meet the changing demands of your workloads in high performance computing (HPC) and enterprise data centers? The HPE Cray XD2000 System provides HPC at your scale in a shared infrastructure chassis with up to four HPE Cray XD220v Servers (Intel®), four HPE Cray XD225v Servers, or two HPE Cray XD295v Servers (AMD). A shared infrastructure increases uptime by allowing individual serviceability without impacting the operation of other servers in the chassis. HPE Cray XD2000 System offers a complete, scalable solution for HPC customers, with power and cooling options, including direct liquid cooling (DLC), giving greater performance while lowering TCO. Built with exascale era-ready networking, integrated storage, support for an extensive software portfolio, management tools, and proven expertise, HPE Cray XD2000 System enables you to supercharge innovation and prepare for tomorrow's challenges.

Features

Purpose-Built HPC Solution

The HPE Cray XD2000 System delivers a complete HPC solution from chassis to rack scale with exascale-ready technologies such as HPE Slingshot, InfiniBand NDR, HPE Cray Programming Environment, HPC optimization tools, and HPE Message Passing Interface (MPI).

The system has expanded power capability with up to 9600W of power in one 2U chassis delivering N+N or N+1 power redundancy.

The system provides HPC-optimized options from NVMe SSDs to HPC memory to many different types of PDU options, from managed to switchable, and higher amperage.

You can increase power density and achieve energy efficiency when you choose the DLC system option. DLC is fully integrated, installed, and supported, and systems are pre-filled and ready to connect to facility water.

Increase Performance and Reduce Cost

The system accelerates time to value with higher performance delivered by the latest top-bin CPUs from 5th Generation Intel Xeon Scalable processors or 5th Generation AMD EPYC™ Processors with up to 160 cores.

You can achieve further energy efficiency and save data center operating costs by adding the HPE Rear Door Heat Exchanger (RDHX) or HPE Adaptive Rack Cooling System (ARCS) to HPE Cray XD DLC systems.

The all self-contained in-rack DLC infrastructure solution removes the need to build secondary fluid network in the data center, and the factory integration and testing model provides fast and non-disruptive deployment, without long and expensive third-party integrators on-site.

The dense, multi-server platform of HPE Cray XD2000 allows for reduced fabrics and space cost in the data center, leading to an overall lower TCO compared to traditional 1U or 2U rack-mount servers by maximizing data center space efficiency with a high-density configuration.

Flexible Scale-Out Building Blocks

The HPE Cray XD2000 System can be deployed with a single chassis and server, and more compute can be added and scaled as your needs grow.

The system can scale to thousands of servers as business needs evolve with right-sized building blocks.

You have choice of 1U Server option (HPE Cray XD220v server or HPE Cray XD225v Server) or 2U Server option (HPE Cray XD295v Server), and a flexible set of other options, including GPUs, networking cards, and more.

Simplify Management and Security

HPE Cray XD2000 incorporates industry-standard BIOS and baseboard management controller (BMC) components, including the support of industry-standard DMTF Redfish, to better aid in heterogeneous management control solutions.

The BMC for HPE Cray XD2000 includes hardware root of trust with recovery solution, a validated firmware signature chain of trust, conforming to NIST standards, and certifying firmware that's not compromised. Automated recovery restores firmware to last known good state if code is compromised.

HPE Performance Cluster Manager (HPCM) provides automated provisioning, monitoring, remote support, and firmware updates for all HPE Cray XD2000 Systems.

| Technical specifications | | HPE Cray XD2000 |
|------------------------------------|--|-----------------|
| Management features | IPMIv2 SNMP | |
| Form factor | 2U Chassis that supports up to: 4x Half Wide 1U Dual Processor Nodes (Intel® / AMD) 2x Half Wide 2U Dual Processor Nodes (AMD only) | |
| Supported chassis | HPE Cray v2240 Configure-to-order Chassis | |
| Supported trays | HPE Cray XD220v or XD225v 1U Node Configure-to-order Server HPE Cray XD225v 2U Node Configure-to-order Server | |
| Maximum memory | 3.0 TB with 128 GB DDR5 | |
| Processor family | 5th Generation Intel® Xeon® Scalable processors including the Intel® MAX® series or 5th Generation AMD EPYC Processors | |
| Product dimensions (metric) | Chassis: 8.75 x 44.8 x 91.6 cm Node: 4.13 x 21.15 x 69.09 cm | |
| Weight | Chassis: 12.46 kg Node: 7.40 kg | |
| Warranty | 1/0/0: Server warranty includes 1-year of parts, 0-year of labor, and 0-year of onsite support coverage. Additional information regarding worldwide limited warranty and technical support is available at: https://h20564.www2.hpe.com/hpsc/wc/public/home . Additional HPE support and service coverage, to supplement the product warranty, is available. For more information, visit https://www.hpe.com/support . | |

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 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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[PSN1014691449VNEN](#), June, 2026.

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