Data sheet

HPE Cray Supercomputing Storage Systems K3000

HPE Cray Supercomputing Storage Systems K3000 Base System Code (S6U43A)

What's new

- New DAOS-based HPE Cray Supercomputing Storage Systems K3000 product family member for HPC and AI storage workloads
- Factory-integrated K3000 storage solution is based on HPE ProLiant DL360 Gen12 storage nodes and K3000 management software
- Ultra-fast DAOS storage software running on cost-effective HPE ProLiant DL storage servers

Overview

Would you like to accelerate your input/output-bound AI applications to dramatically increase GPU utilization while taking control of your AI storage spending?
HPE Cray Supercomputing Storage Systems K3000 were purpose-engineered for this exact purpose so you can:
- Accelerate your AI applications with the industry's fastest all-flash storage
- Contain your storage spending by leveraging open-source software-defined storage
- Get fast time-to-results with a factory-tested storage system and enterprise-grade support

- Flexible interconnect interfaces with HPE Slingshot 200 / HPE Slingshot interconnect 400 or InfiniBand NDR or 400 GbE

- Delivered as factory-tested, turnkey storage systems with enterprise-grade 24/7 technical support

Features

Extreme performance and scalability

HPE Cray Supercomputing Storage Systems K3000 are built on DAOS with POSIX compatibility, native key-value-array access, and integration paths for AI, analytics, and scientific workflows.

It offers up to 2 million input/output operations per second (IOPS) per 1U DAOS storage server.

It offers up to 85 GB/s read and up to 80 GB/s write performance per 1U DAOS storage server.

You can start small with just four 1U DAOS storage servers to seamlessly scale to thousands of storage servers.

Deeply configurable for compute infrastructure needs

Configurable storage node options with 8, 12, 16, or 20 EDSFF E3.S NVMe drives per 1U node.

Wide fabric choices from HPE Slingshot interconnect 400, InfiniBand NDR, and 400 Gbps Ethernet fabric options.

Fully orchestrated and managed by K3000 management stack

It provides management software for node addition, software deployment, DAOS system creation, pool creation, task tracking, fabric configuration, monitoring, log collection, and client configuration packaging.

HPE Cray Supercomputing Storage Systems K3000 adds DAOS lifecycle orchestration, node provisioning, certificate handling, fabric configuration, health reporting, observability, and service workflows around the open-source DAOS engine.

Technical specifications	HPE Cray Supercomputing Storage Systems K3000 Base System Code
Product Number	S6U43A
Warranty	Standard warranty terms
Network	2x HPE Slingshot 200, 2x HPE Slingshot interconnect 400, 2x NVIDIA® InfiniBand NDR-400, 2x NVIDIA® InfiniBand NDR-200, Ethernet 400 Gb/s
Drive description	TLC standard endurance
Compatible operating systems	Red Hat® Enterprise Linux® 9.5, Red Hat® Enterprise Linux® 9.6, Rocky Linux® 9.5, Rocky Linux® 9.6, Alma Linux® 9.5, Alma Linux® 9.6

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.

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— **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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