

# HPE Flash Enclosures



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## What's new

- An NVMe-oF attached, all-SSD enclosure (JBOF)

## Overview

Do your applications need the performance of NVMe SSDs, but are limited by your server infrastructure?

HPE Flash Enclosures are all flash storage systems designed to deliver high performance with consistently low latencies for enterprise workloads such as AI, Big Data, HPC, SDS, and M&E. The HPE J2000 is an end-to-end NVMe platform that supports up to 24 NVMe SSDs connected through either two or six 100GbE NVMe-oF Ethernet ports. Designed for shared environments, the HPE J2000 provides a high availability (HA) architecture with its dual IO Modules in an active/active configuration, the use of dual port NVMe SSDs allowing each IO Module to access all the SSDs in the system, and hot swap redundant components including IOMs, power supplies and cooling fans. The HPE J2000 redefines DAS with greater performance and flexibility than traditional solutions and is a building block for software-defined storage, cloud storage, and Composable Infrastructure solutions going forward.

## Features

### High Performance with Very Low Latency

HPE Flash Enclosures are an end-to-end NVMe solution with a non-blocking architecture in a PCI Gen4 ready chassis.

Up to six 100GbE NVMe-oF ports providing the capability of up to 16.8M IOPs and 69 GB/s performance using 4K random reads.

RoCE v2 connectivity adds only 4.85us of latency compared to internal PCIe SSDs.

Remote Direct Memory Access (RDMA) reduces server CPU resources needed for applications to access data.

### Network Connected Solution delivers Shared Efficiencies

The HPE J2000 Flash Enclosure improves the utilization of flash in the environment and facilitates Data Sharing (via NVMe Namespaces).

Increase the availability of data with an HA design and NVMe-oF network connectivity.

Deliver better Total Cost of Ownership (TCO) when compared to distributed and isolated internal SSDs.

Reduce rack space and overall power requirements.

### High Available (HA) Architecture

The HPE J2000 Flash Enclosure features hot swap, dual IO modules in an active-active configuration with hot swap, redundant power, and cooling.

Each IO module has its own management interface while providing a single view of the entire system.

Dual port SSDs allow access to data from either or both IO modules for performance and availability.

Multipath support provides applications with improved fault tolerance.

## Technical specifications

## HPE Flash Enclosures

|                                     |  |
|-------------------------------------|--|
| <b>Drive description</b>            | Up to 24 SFF NVMe U.2/U.3 SSDs per J2000   |
| <b>Capacity</b>                     | Up to 307 TB per HPE J2000 using 12.8 TB SSDs  |
| <b>Host interface</b>               | Up to six 100GbE ports (3 per IOM)   |
| <b>Storage controller</b>           | The HPE J2000 includes up to 6 integrated NVMe-oF bridge cards   |
| <b>Compatible operating systems</b> | RedHat Enterprise Linux (RHEL) 7.7, 8.1<br>SUSE Linux Enterprise Server (SLES) 12SP5, 15SP1<br>VMware ESXi 7.0, 7.0 U1   |
| <b>Form factor</b>                  | 2U rack mount  |
| <b>Product dimensions (metric)</b>  | 8.7 x 44.2 x 68.2 cm   |
| <b>Weight</b>                       | 25.5 kg  |
| <b>Warranty</b>                     | Three-year limited parts only warranty, including hardware diagnostic support, pre-failure warranty (coverage of solid state drives). The warranty is fully supported by HPE Services and a worldwide network of resellers and service providers. In addition, 90-day's getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HPE Pointnext operational services. |



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

## 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.

### Consulting 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.

### Operational 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.

### 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.

[The Defective Media Retention \(DMR\)](#) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. [Comprehensive Defective Material Retention \(CDMR\)](#) allows you to keep all data retentive components.

## HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading 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, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

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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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