Hewlett Packard Enterprise

HPE J2000 DUAL IOM 2X100GBE NVME-OF SFF TAA-COMPLIANT JBOF STORAGE (R4T20A)

Disk Enclosures

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

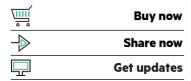### HPE J2000 Dual IOM 2x100GbE NVMe-oF SFF TAA-compliant JBOF Storage

Product Number (SKU)	R4T20A
Capacity	Up to 307 TB per HPE J2000 using 12.8 TB SSDs
Drive description	Up to 24 SFF NVMe U.2/U.3 SSDs per J2000
Host interface	Up to six 100GbE ports (3 per IOM)
Storage controller	The HPE J2000 includes up to 6 integrated NVMe-oF bridge cards
Storage expansion options	Once full of SSDs, each J2000 is a stand-alone system. Additional J2000s can be networked together.
Clustering support	Clustering support is not native in the HPE J2000. It depends on the host-based application or software defined storage environment as to whether clustering
SAN backup support	No
Storage mirroring support	No
Systems Insight Manager support	No
Compatible operating systems	RedHat Enterprise Linux (RHEL) 7.7, 8.1 SUSE Linux Enterprise Server (SLES) 12SP5, 15SP1 VMware ESXi 7.0, 7.0 U1
Form factor	2U rack mount
Energy efficiency	Climate Savers Computing Initiative GOLD and ECOS Consulting 80PLUS GOLD
Product Dimensions (metric)	8.7 x 44.2 x 68.2 cm
Weight	25.5 kg
Warranty	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.

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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