

# HPE Alletra 9000



## What's new

- Eliminate complexity by unifying infrastructure management silos under a cloud managed single pane of glass, accessible from anywhere and from any device
- Delivers performance density with All-NVMe for over 2 million IOPs in 4U [1]
- Designed for extreme availability requirements with 100% availability guaranteed as a standard benefit without requiring a special contract [2]
- Meet every service level agreement with synchronous replication for RPO zero and transparent failover for RTO zero through Active Peer Persistence
- Eliminate forklift upgrades with online

## Overview

Is your enterprise class storage holding you back because you are tied down administering, tuning, and supporting infrastructure? Are you looking to shift from managing disparate clouds to a cloud everywhere experience with the same agility, simplicity, and cloud consumption for every application?

HPE Alletra 9000 is a edge-to-core portfolio designed to deliver the cloud experience wherever data lives. For mission-critical workloads, HPE Alletra 9000 delivers extreme low-latency, reliability and maximum performance density in a 4U enclosure. It enables IT to shift from owning and maintaining data infrastructure to simply accessing and utilizing it on-demand and as-a-service. Built on a unique, massively parallel, multi-node, and all-active platform, HPE Alletra 9000 consolidates traditional and next-generation mission-critical applications at scale with predictable performance and ultra-

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data-in-place (DIPU) non-disruptive controller upgrades. DIPU preserves existing hardware, drives, and drive enclosures without a data migration all online.

low latency, backed by a 100% availability guarantee. [1]

## Features

### AI-driven

Predict and prevent disruptions across storage, services, and virtual machines, resulting in savings of over 1.5 million hours of lost productivity due to downtime.

Redefine support experience with predictive support automation that delivers an unprecedented support experience with no escalations and direct access to resources.

Pinpoint issues between storage and VMs and underutilized virtual resources without effort.

Take the guesswork out of managing data infrastructure with AI-driven recommendations that improves performance, drives higher availability, and optimizes resource utilization and planning.

### Built for Cloud

Setup in minutes because systems are automatically discovered, on-boarded, and configured.

Say goodbye to time-consuming, LUN-centric provisioning with AI-driven, intent-based provisioning of application workloads on infrastructure best suited for optimizing SLAs.

Experience faster access to innovation with no disruptions because new features and enhancements are instantly available through self-service upgrades.

Manage from anywhere with simple global management driven through a SaaS-based user experience.

### As-a-Service

Consume data infrastructure as-a-service via HPE GreenLake, eliminating up front capital costs with a pay-per-use model.

Shift from owning and maintaining data infrastructure to simple accessing and utilizing it on-demand.

Free up your cash flow and increase financial agility with the right mix of subscription and consumption-based services.

### Online Non-disruptive Data-in-Place (DIPU) Controller Upgrades

Increase performance by upgrading from an HPE Alletra 9060 to an HPE Alletra 9080 without a forklift upgrade.

Online data-in-place upgrades preserves customers existing investment in hardware, drives and drive enclosures.

No data migration required, all online and non-disruptively



## Technical specifications

## HPE Alletra 9000

<b>Drive description</b>	NVMe SFF FIPS encrypted SSD; NVMe SFF SSD; NVMe SFF FIPS encrypted TAA SSD
<b>Capacity</b>	HPE Alletra 9060: 1966 TiB (raw) / 6103 TiB (effective); HPE Alletra 9080: 1966 TiB (raw) / 6103 TiB (effective);  Effective capacity assumes 4:1 estimated data compaction rate (including: thin provisioning, deduplication, compression, and copy technologies) in a RAID 6 (10+2) configuration. Note TB vs TiB. Actual ratios will vary based on workload. See HPE StoreMore guarantee for more information.
<b>Host interface</b>	32Gb/s Fibre Channel; 16Gb/s Fibre Channel; 25 Gb Ethernet; 10 Gb Ethernet; 10 GBaseT Ethernet
<b>Storage controller</b>	HPE Alletra 9060 2N Controller; HPE Alletra 9080 2N Controller
<b>Maximum drives per enclosure</b>	144 (HPE Alletra 4N with four HPE Alletra 2240 drive enclosures)
<b>Cache</b>	HPE Alletra 9060: 1024GiB; HPE Alletra 9080: 3072GiB
<b>Availability features</b>	Redundant power and cooling modules with battery and fans; A minimum of dual redundant controller nodes, max of four controller nodes for added redundancy; RAID 6 for data protection
<b>Compatible operating systems</b>	Microsoft Windows Server; Microsoft Windows Hyper-V; HP-UX; SUSE Linux Enterprise Server (SLES); Red Hat Enterprise Linux (RHEL); VMware ESX and ESXi; Oracle Solaris; Oracle Linux; Citrix Hypervisor ; IBM AIX; IBM Virtualization; VSI OpenVMS
<b>Product dimensions (metric)</b>	Base Chassis: 483 x 839 x 174 cm (W/D/H) Drive Enclosure: 483 x 839 x 87.5 cm (W/D/H)
<b>Weight</b>	HPE Alletra 9000 with 2 nodes: 49.1 kg; HPE Alletra 9000 with 4 nodes: 70.9 kg; HPE Alletra 2240 Drive Enclosure: 28.6lb; (weight includes chassis, controllers/IOMs, and PCBM/PCM, no drives or adapters)
<b>Warranty</b>	3/0/0 (3-years parts-only); 5/0/0 (for SSDs)

[1] 100% Availability Guarantee Solution Brief

[2] Based on HPE internal testing for HPE Alletra 9000 with TPVV, RAID6, 8KiB Random Reads



[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.

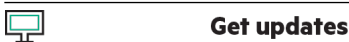
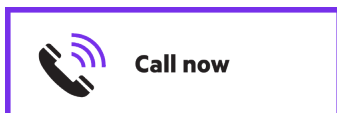
## HPE GreenLake

[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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Explore **HPE GreenLake**



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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.

Image may differ from the actual product  
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