

HPE Alletra 5000

Alletra Storage Arrays



What's new

- Delivers up to 25% faster performance than previous HPE Nimble Storage Adaptive Flash Arrays.
- Developed from the foundation of HPE Nimble Storage Adaptive Flash Array architecture, proven to deliver speed, efficiency, and resiliency – and now with Cloud operational agility.
- Unified Cloud management enables you to globally manage and monitor your entire fleet of storage from a single SaaS-based

Overview

Are you looking for simple, reliable, and cost-efficient flash storage for your primary and secondary workloads? HPE Alletra 5000 is a cloud native data infrastructure platform adaptively designed for a mix of primary workloads and secondary backup and disaster recovery. Bring cloud operational experience to your on-premises storage with the HPE GreenLake Edge to Cloud Platform – simplifying storage management across the lifecycle, from deployment to provisioning to upgrades. Eliminate application disruptions and ensure fast, consistent performance with the insight and intelligence of HPE InfoSight, most advanced AI for infrastructure. Leverage an enterprise-grade platform with guaranteed 6x9s availability and extreme data

cloud console that's accessible from any location, on any device.

- Transform from LUN-centric to AI-driven, application centric storage provisioning. No storage expertise required, and no more guesswork.
- Eliminate chaos with industry-leading AI Operations for infrastructure driving autonomous operation, transforms the support experience and helps ensure your applications are always-on and always fast.
- Designed for high availability and extreme resiliency requirements with 6x9s availability guaranteed and Triple+ Parity RAID as standard with zero performance impact.

integrity and resiliency. Increase storage efficiency and reduce costs with up to 5:1 data reduction. Consume as a service via HPE GreenLake – letting you shift from buying and maintaining data infrastructure to simply accessing and utilizing it.

Features

AI-driven

Predict and prevent disruptions across storage, services, and virtual machines (VMs), resulting in savings of over 1.5 million hours of lost productivity due to downtime. Rely on 99.9999% (six-nines) guaranteed data availability.

Redefine the support experience with predictive support automation that eliminates time-consuming, frustrating escalations with automated L1 and L2 and direct access to experts.

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

Simplify and automate on premises storage management with the speed and agility of a cloud operational experience – powered by data-driven intelligence. This makes underlying infrastructure invisible while shifting operations to be application, not infrastructure, centric.

Get started in minutes with streamlined device deployment. Simply rack the infrastructure, plug in the power cords, and connect the network cables. With a few clicks, the new system is configured and available in your fleet, ready to serve data for application workloads.

Automate and optimize app deployment with intent-based provisioning. Select the storage tier and workload type, specify the capacity and protection policy, and let AI-driven intelligence automatically optimize your SLAs by recommending the best-suited system across your fleet for your new workload.

100% cloud-managed infrastructure means you can globally monitor and manage your entire fleet of block storage from a single SaaS-based cloud console that's accessible from any location, on any device - so managing hundreds of systems across geographies is as simple as managing one.

Thanks to SaaS-based delivery, new data services instantly become available to you. Data plane software upgrades are non-disruptive and intelligently matched to a given system.

Consume as-a-Service

Shift from owning and maintaining data infrastructure to simply accessing and utilizing it on-demand. A flexible as-a-Service consumption model with HPE GreenLake enables you to avoid over- and under-provisioning concerns, CAPEX budget constraints, and complex procurement cycles.

Scale on-demand and as necessary, with buffer capacity for unexpected workloads or usage demands.

Shift from heavy upfront costs to a transparent and predictable monthly subscription.

Consuming as a service shortens project deployment times, frees up capital and IT resources, aligns spending with business needs, and boosts financial flexibility and operational speed.



Flash Performance for Mixed and Mainstream Workloads

Ultra-efficient architecture - built from the ground up to optimize flash with the highest efficiency, delivering fast, consistent performance and industry leading data efficiency for business-critical applications.

Write to cost-optimized disk at flash speeds through write serialization.

Dynamic flash caching accelerates reads even as workloads change in real time.

Always-on data reduction delivers up to 5X space savings without performance penalty.

Easily scale without disruption: Grow the capacity and performance of a running system independently and non-disruptively.

Technical specifications

HPE Alletra 5000

Drive description	2 TB, 4 TB, 6 TB, 10 TB, 14 TB
Capacity	Up to 294 TB per enclosure
Host interface	Fibre Channel and iSCSI network connectivity
Enclosures	(6) Maximum, Expansion Shelves supported
Storage controller	Redundant storage controllers
Maximum drives per enclosure	21 HDDs and 6 Flash Cache SSDs per base array plus 21 HDDs and 3 or 6 Flash Cache SSDs per Expansion Shelf.
Cache	960 GB, 1.92 TB, 3.84 TB, 7.68 TB
Availability features	Triple Parity RAID for data protection. 99.9999% guaranteed availability. Redundant HW/SW design - no single points of failure.
Compatible operating systems	Microsoft Windows® Server VMware ESXi® SUSE® Linux Enterprise Server (SLES) Red Hat® Enterprise Linux (RHEL) Ubuntu Server Edition LTS Oracle Linux Oracle Solaris® Citrix® XenServer® IBM AIX, HP-UX For the latest information on supported operating systems refer to Single Point of Connectivity Knowledge (SPOCK) for HPE Storage Products (SPOCK): https://www.hpe.com/storage/spock
Product Dimensions (metric)	17.58 x 43.9 x 89 cm
Weight	65 kg (ES3 Expansion Shelf: 52 kg)
Warranty	HPE Alletra 500 come with the following warranties: 1-year, parts-only warranty for hardware components and 90 day software updates for defects. Additionally, HPE will provide phone support for replacing a defective part. Additional support coverage is required for HPE Alletra 5000. NOTE: For hardware warranty claims, defective part must be received before replacement parts are shipped.



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

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.

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

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