

HPE Alletra 4000

Server-based data infrastructure to accelerate data-driven initiatives to success



Key features

- 1 Built for data applications:** Ultra-dense, all-NVMe, and hybrid-NVMe with an ideal balance of data capacity, throughput, and processing; easy to service, standard rack depth chassis seamless to deploy in any data center; future ready with Enterprise and Data Center Standard Form Factor NVMe, PCIe Gen 5, 4th Gen Intel® Xeon® Scalable processors, and DDR5 memory
- 2 Secured end-to-end by design:** Zero trust security from silicon to software and factory to cloud; immutable digital signature and logical Configuration Lock verifies security before each boot; FIPS 140-2 encryption and Secure Erase protect data throughout its lifecycle; five-factor authentication enables a secure connection with the HPE GreenLake edge-to-cloud platform
- 3 Delivered with an intuitive cloud experience:** Simple and secure fleet monitoring and lifecycle management with HPE GreenLake for Cloud Ops Management Software as a Service (SaaS); rich REST APIs for automation and programmatic control; purchase or consume as a service with HPE GreenLake platform

Data is a strategic asset today

Whether in a data-driven organization or one undergoing a digital transformation, data is now a strategic asset for achieving better outcomes. Effectively storing, protecting, and analyzing data to unlock its value is core to successful day-to-day operations and delivering sustainably differentiated products, services, and experiences. What makes accomplishing this so challenging is that the demands of data-intensive workloads are growing and evolving. It includes relentless growth in data volume, generation sources, different ways data can provide value, and increased threats and risks.

No matter the workload—from real-time processing, machine learning (ML), advanced analytics, and data lakes to ransomware protection, compliance, video surveillance, and so many more—a server-based data infrastructure is crucial. It helps you keep pace securely, economically, and with operational simplicity so that you can focus your scarce people and capital resources on your data-driven initiatives.

Enabling limitless possibilities

The HPE Alletra 4000 family of data storage servers delivers a cloud-native, server-based data infrastructure that is ideal for accelerating your data-driven initiatives to success.

Powered by the latest industry standard and HPE technologies, HPE Alletra data storage servers provide more data throughput, processing, and capacity in ultra-dense yet seamless-to-deploy-and-service form factors to effectively store, protect, and analyze your data both today and in the future. They are designed with security in mind from silicon to software and factory to cloud to equip you better to protect your customers, your organization, and your strategic asset—your data. And HPE Alletra 4000 data storage servers do so with simple as-a-service consumption via HPE GreenLake and cloud-native monitoring and operation to reduce pressure on your capital and people resources.

Example workloads

- Datastores for artificial intelligence and ML
- Data lakes for active analytics and deep archives
- Distributed and NoSQL databases
- Block, file, and object Software-Defined Storage
- Data-heavy hyperconverged infrastructure
- Converged data protection or backup target storage for fast recovery

Built for your data applications

A highly optimized server-based data infrastructure that stores, protects, and analyzes your data enables you to achieve better and faster outcomes for your organization and your customers at lower risk.

The HPE Alletra 4000 family of all-NVMe and hybrid-NVMe data storage servers are purposefully engineered to enable you to accomplish more for your data-driven initiatives as they evolve over the long term. They do so across a broad spectrum of data storage-centric use cases. These use cases include real-time data processing, machine learning training and inferencing, stream and batch analytics, modern data lakes, video surveillance, medical imaging, ready-to-share content repositories, compliance and e-discovery, consolidation and data off-load, and more.

This increased productivity is achieved by delivering an ideal balance of superior data capacity, throughput, and processing for data storage-centric workloads in ultra-dense, standard rack depth form factors that are seamless to deploy in any data center. HPE Alletra 4000 helps to eliminate the costly compromises of storage appliances and general-purpose server infrastructure.

Secured end-to-end by design

The growing prevalence and degree of harm from increasingly sophisticated cyber threats place you under more pressure than ever to effectively protect your customers, your organization, and your data—your most valuable asset.

From silicon to software and factory to cloud, the HPE Alletra 4000 data storage servers are designed with a zero trust security posture at their uncompromising core. It starts with the HPE secure supply chain even before your new server-based data infrastructure arrives at your site.

An immutable digital signature unique to each HPE Alletra 4000 data storage server enables verification that the system is secure before it can boot. FIPS 140-2 encryption protects your data while Secure Erase that meets NIST guidelines for media sanitization and Defective Media Retention give you options for end-of-life decommissioning.

This and other aspects of the end-to-end security design of HPE Alletra 4000 combine to deliver a hassle-free infrastructure that securely accelerates your organization's data-driven initiatives to success.

Delivered with an intuitive cloud experience

Even with server-based data infrastructure built for your data-intensive applications and secured end-to-end by design, pressure remains on the scarce IT resources that are critical to successfully implementing your data-driven initiatives.

The HPE Alletra 4000 family simplifies and transforms data infrastructure operations and consumption with a cloud-native experience that is also budget-friendly. Whether purchased outright or consumed as a service with monthly payments via HPE GreenLake, you can now monitor and manage your systems securely and simply via the fleet lifecycle management SaaS subscription that is included by default. And you can effectively automate and exercise programmatic control with expanded DMTF Redfish APIs.

With HPE Alletra 4000 and HPE GreenLake, you can free up capital and better align spending to your organization's needs and free up people while increasing IT operational speed and agility. These benefits enable you to focus on higher priorities as an IT leader—maximizing outcomes from your data-driven initiatives.

Learn more at
hpe.com/alletra4000

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