



HPE Alletra Storage

Top 10 reasons to choose HPE Alletra Storage MP X10000

As organizations become more data centric, they seek ways to unlock data value, accelerate data-intensive applications, and simplify management. HPE Alletra Storage MP X10000 redefines unstructured data storage, addressing data intelligence, enterprise performance at scale, and operational challenges. The X10000 efficiently manages and secures data from AI, analytics, and modern data protection workloads, offering an agile and economical solution that speeds time to value.

Here are the top 10 reasons to choose HPE Alletra Storage MP X10000

1 Infuse data with intelligence

Why deploy separate data enrichment apps and infrastructure to make data AI-ready? Moving large volumes of data to different processing stacks is onerous and places your data at risk. The X10000 brings data closer to compute by using a built-in inline metadata enrichment engine. This enhances the speed, quality, and relevance of your data for Retrieval-Augmented Generation (RAG), large language models (LLMs), analytics—all while reducing infrastructure costs.

2 Restore data in a flash

Take advantage of flash-based performance at scale. Modernize your legacy backup environment by replacing tape-based solutions or legacy purpose-built appliances with a powerful solution providing up to 20x data reduction and rapid data restores to ensure quick recovery from outages and disasters, including ransomware attacks.

3 Access data across your hybrid estate

Experience flexibility with a software-defined solution. The X10000 leverages the power of Kubernetes to deliver a highly scalable system, allowing you to maintain your existing infrastructure without rearchitecting. Benefit from a unified data foundation for AI and analytics by integrating with the HPE Ezmeral Data Fabric global namespace.

4 Run storage services without compromise

You need all the performance you can get for your data-intensive applications. The X10000 architecture delivers up to a 6x performance advantage by utilizing a log structured key value store, allowing the system to take full advantage of flash media. HPE is also collaborating with NVIDIA® to enable a direct datapath for direct memory access (DMA) transfers between GPU memory, system memory and the X10000, which is critical for AI applications. This direct path will further increase system bandwidth, decrease latency and improve GPU utilization.

5 Start small and scale big with unmatched flexibility

Independently scale performance and capacity using disaggregated storage and a choice of TLC or QLC drives, eliminating overprovisioning and lowering costs for evolving workloads. Start with three nodes and expand to hundreds—without disruption—while ensuring storage efficiency and high availability.

6 Store more for less

Cut storage costs, save energy, boost sustainability, and shrink your data footprint with efficient inline data reduction and erasure coding technologies.



7 Confidently safeguard your data

The X10000 provides enterprise-class security and data protection. It includes features such as detailed monitoring, versioning, object lock-based immutability, authentication, data in-place encryption, TLS encryption, erasure coding data protection, auditing, and accountability capabilities. Additionally, it delivers always-on processes to ensure data integrity.

8 Forget storage tiering

Keep all your data on a single tier of fast, scalable, and affordable all-NVMe flash. No more silos, complex data movement workflows, or application wait times. When volumes of data are available in real time, new insights become possible.

9 Simplify management with a cloud experience

Managed via the HPE GreenLake cloud, the X10000 simplifies storage with the speed and agility of a single intuitive cloud experience across the lifecycle—from installation to provisioning to upgrades. This makes the underlying infrastructure invisible while shifting operations to be app centric, not infrastructure centric. HPE GreenLake Flex allows cloud-like procurement through a pay-as-you-go*, consumption-based model. Scale storage and compute capacity up and down while paying only for the capacity consumed.

10 Harness one platform and one experience for every workload

The X10000 is built on HPE Alletra Storage MP, a software-defined, multiprotocol storage platform that provides flexibility and high performance for both structured and unstructured data storage needs. It consists of standardized, composable building blocks—compute (node), capacity (just a bunch of flash [JBOF]), and switches—that can be configured for different software-defined storage personas and use cases. This enables you to deploy block, file, or object workloads on common hardware. Manage everything with a unified cloud experience through the HPE GreenLake cloud as you reduce silos and complexity while improving total cost of ownership (TCO) and return on investment (ROI).

* May be subject to minimums or reserve capacity may apply

Learn more at

HPE.com/us/en/Alletra-Storage-MP-X10000

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