



HPE ALLETRA STORAGE MP B10000

**Modern disaggregated scale-out storage for
any workload, any environment**



Data is the life force of modern business. It powers the insights, innovation, and competitive advantage that move your business forward, faster. Yet while data-driven modernization is a top priority, achieving it requires confronting a host of data storage challenges that slow you down: management complexity and silos, scale-out limitations, app disruptions and security threats, and price-performance trade-offs.

To truly modernize today, you need more than a faster and more powerful box. You need to break away from legacy infrastructure and elevate your storage experience with a platform that unlocks agility by delivering the cloud experience everywhere, maximizes infrastructure efficiency at scale, ensures apps are always-on and always-fast, and eliminates price-performance compromises.

This is where HPE Alletra Storage MP B10000 comes in. Delivered and managed via GreenLake, this unique block and file storage offering brings an AI-driven cloud experience, efficient scale, and extreme resiliency and performance to your mission-critical apps.

HPE Alletra Storage MP B10000 offers the industry's first disaggregated, scale-out block and file storage with a 100% data availability guarantee.¹ It simplifies storage management and reduces risk with an AI-driven cloud experience, disaggregated scaling, and a secure always-on architecture. This frees you to transform from IT operator to service provider, focusing on accelerating outcomes and not managing infrastructure.

¹ ["HPE Storage substantiation,"](#) HPE, 2025.

Simplify management with an AI-driven intuitive hybrid cloud experience

Public cloud has set the standard for agility, with an operational model that enables you to deploy new apps and services quickly and easily. But public cloud isn't right for every workload. Case in point: most enterprise apps and data remain on-premises today because of security, data sovereignty, and latency concerns—to say nothing of the complexity of migrating and rearchitecting apps for the public cloud.

As a result, the technology ambitions of many enterprises have moved on from cloud first to embrace cloud everywhere. Organizations seek to harness the benefits of the cloud operational experience wherever their workloads live—not just in the public cloud but also from edge locations to on-premises data centers to co-location facilities.

Enter the MP B10000, cloud-native data infrastructure available through GreenLake, which brings the speed and agility of the cloud experience to your on-premises storage. The B10000 delivers 99% time savings with simplified operations across the lifecycle—from rapid deployment to automated provisioning to invisible upgrades. You manage and monitor your global storage environment from a single cloud console and effortlessly protect your data with seamless data mobility and disaster recovery across your hybrid cloud. This frees up your organization to simplify operations and move faster while maintaining on-premises control of your data.

Beyond the agility offered by self-service provisioning, the platform delivers proactive wellness recommendations and industry-leading automated support powered by agentic AI. Customers receive alerts, suggestions, and resolutions—often before they are even aware of an issue. This ability to identify problems without relying on signatures dramatically reduces support resolution times from days or weeks to just minutes. Additionally, comprehensive cross-stack visibility and advanced performance analytics accelerate troubleshooting and issue resolution. With AI-powered autonomous operations and optimization, you can predict and prevent 86% of disruptions before they occur.

By leveraging an AI-driven cloud experience, the B10000 makes underlying infrastructure invisible, helping eliminate silos, complexity, and the burden of day-to-day storage administration while shifting your operations from infrastructure focused to app focused. And unlike traditional storage management, with the B10000, you get a cloud operational experience that not only delivers the self-service provisioning agility

that your line-of-business owners and developers need to accelerate app deployment, but it also frees IT resources to work on strategic, higher-value initiatives.

Organizations can also benefit from a streamlined, cost-effective alternative to VMware when choosing the B10000. It integrates with [HPE Morpheus VM Essentials Software](#) which offers enterprise-grade virtualization, reducing licensing expenses by up to 90%.² This enables easy management of virtualized environments, supporting both current VMware deployments and future strategies.

The B10000 also offers unified management, seamless data mobility, and mission-critical storage services across hybrid cloud with enterprise-class storage for AWS and Azure.

The B10000 can also deliver a modern cloud experience in regulated environments that are disconnected from the public internet. You can benefit from cloud simplicity and economics while meeting the resiliency, security and performance demands of your mission-critical workloads.



² HPE internal study based on a comparison of HPE Morpheus VM Essentials Software versus VMware vSphere Foundation. Savings do not include discounts and are subject to change without notice.

Superior flexibility and economics with disaggregated, scale-out storage

Legacy HA pair storage architectures are unable to flexibly and cost-effectively scale out and keep pace with the growing and unpredictable demands of traditional, modern, and consolidated workloads. That's why organizations are seeking to maximize infrastructure efficiency and cost savings at scale with the ability to configure a storage system that meets the specific capacity and performance requirements of current workloads while letting you nondisruptively upgrade resources as needed.

HPE Alletra Storage MP B10000 leverages a disaggregated, scale-out storage architecture that enables you to scale capacity and performance independently, for greater efficiency and up to 40% lower costs. You gain the flexibility to fine-tune, adapt, and elastically scale storage environments in line with workload requirements and evolving business needs.

You can start small with cost-efficient two-node entry-level configurations. Then, scale up and scale out up to 6-node configurations with one-node increment while scaling performance and capacity independently. And you can help maximize ROI with nondisruptive, data-in-place upgrades and conversions between switchless and switched configurations without repurchasing existing storage.

The B10000 unifies native block and file services on a single disaggregated cloud managed architecture. By consolidating databases, virtualization and containerized workloads on common storage infrastructure, you eliminate the complexity of managing separate systems while reducing costs, and streamlining operations.

Always-on storage with autonomous cyber resilience

It's time to forget the anxiety and disruption of unexpected downtime and cyber threats.

The B10000 provides organizations with advanced, AI-driven real-time ransomware detection, automated protection, and recovery points with immutable snapshots, built in at file and block storage level. It features an integrated defense workflow that aligns with the NIST cyber resilience framework, providing comprehensive safeguards and rapid recovery from

cyber threats. By combining VM-level inline detection and the rapid recovery capabilities of HPE Zerto software, the B10000 delivers dual-layer protection for both storage and applications. This robust solution is evaluated against more than 100 ransomware strains and is backed by a Cyber Resiliency Guarantee. Seamless integration with SIEM and XDR tools further enhances threat management and response capabilities.

The B10000 is an always-on service that's built on an AI-driven, disaggregated, no single-point-of-failure platform to guarantee unrivaled 100% data availability for your mission-critical apps.³ Meet any recovery-point objective (RPO) and recovery-time objective (RTO) strategy with transparent business continuity and automatic fail-over across multiple sites while getting simple and efficient hybrid cloud data protection for on-premises and cloud-native workloads.

And it's always fast: the B10000 accelerates time to insight with extreme speed and responsiveness for your most latency-sensitive modern, traditional, and consolidated mixed workloads. Its all-active architecture and massively parallel design mean data can simultaneously access all controllers and ports. All your physical components are active, and nothing is in standby mode. This helps ensure consistent, predictable performance and ultra-low latency at scale. And with an architecture optimized for all-NVMe, the B10000 is ideally suited for your most demanding mixed workloads.



³ ["HPE Storage substantiation,"](#) HPE, 2025.

Accelerate business outcomes⁵

Lower TCO

40%

cost savings by using a disaggregated architecture that eliminates overprovisioning

Boost time to value

99%

operational time savings using intent-based provisioning. LOB/DB admins can self-provision storage for faster app deployments

Reduce business risk

100%

data availability guaranteed for mission-critical apps

AI-driven issue resolution

86%

of problems are automatically predicted and resolved with industry-leading AIOps

Mission-critical storage at midrange economics

Budget constraints often force midsize IT departments to compromise advanced capabilities for price, risking data availability and creating management complexity. With the B10000, you can help eliminate the trade-offs that require you to sacrifice mission-critical performance, availability, and scalability for price. For example, as an HPE 3PAR, HPE Primera or HPE Nimble Storage customer, by moving to the B10000, you get the mission-critical resilience and performance you value in your HPE 3PAR, HPE Primera or HPE Nimble Storage, but with 100% data availability,⁴ better price performance, and a simple cloud management experience.

Moving to the B10000 is easy and hassle free. HPE storage customers can take the risk and complexity out of switching to the B10000 with quick, nondisruptive, data migration. With HPE Peer Motion, you can move data from HPE 3PAR, HPE Primera, HPE Nimble Storage, and HPE Alletra 9000 Storage arrays to the B10000—online, nondisruptively, and without complex planning or dependency on extra tools.

Transform your storage ownership experience with guaranteed IT outcomes

We know you're tired of dealing with the unpleasant surprises that come with legacy storage—scalability limitations, forklift upgrades, unplanned downtime, unexpected costs and marketing claims that don't follow through. So, we've made it easy for you to switch to a radically simpler storage experience without the headaches. An experience that future-proofs your storage with guaranteed outcomes.

With the HPE Storage Future-Ready Program for the B10000, you can enjoy a unique ownership experience by helping eliminate surprises and enhancing investment protection for the long term. The HPE Storage Future-Ready Program includes a free controller upgrade that reduces TCO by 30%, all-inclusive software, and industry-leading guarantees for 100% data availability, storage efficiency, cyber resiliency, zero downtime, energy efficiency, price protection and customer satisfaction.

^{4,5} ["HPE Storage substantiation,"](#) HPE, 2025.



Your data, your agility, your innovation—unleashed

In the end, to fast-forward data-driven modernization, your organization must focus on eliminating the infrastructure management complexity that continues to slow you down. That's precisely what makes the B10000 so compelling. Unique among unified block and file storage offerings, it simplifies storage management and reduces risk with an AI-driven cloud experience, disaggregated scaling, and guaranteed 100% data availability. It frees your organization to dramatically accelerate your digital transformation journey.

And keep in mind that the on-demand cloud data services on GreenLake don't end at block and file storage. A comprehensive suite of cloud data services with a unified cloud operating experience enables you to modernize data management when and where you need it—all in just a few clicks.

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