



PURPOSE-BUILT STORAGE

FOR TODAY'S DATA-INTENSIVE SOFTWARE DEPLOYMENTS

The need for software to be agile and scalable when it's being deployed on physical servers can be a challenge. "One size fits all" storage is slow and inefficient for today's demanding workloads and increasing computational requirements such as AI model training, real-time analytics, private clouds, as well as massive-scale public cloud computing and storage.

Although the functionality of the software you develop may be similar for each customer implementation, their usage needs are often dissimilar. To make it scalable, adjustments to the architecture may be required. Together MBX and Micron stand ready to help, by designing systems with proven, industry-leading enterprise SSDs that are optimized for diverse, demanding workloads from the application level to the storage core. It's the best way to scale your product deployments to fit your "one size doesn't fit all" customer base.



ENABLE NEXT-GENERATION PERFORMANCE ON DATA-INTENSIVE WORKLOADS LIKE:

HYBRID CLOUD INFRASTRUCTURES

Flexible, cloud-native architecture with **over 4M read IOPS and over 1.5M mixed IOPS**

The Micron 7450 SSD on WekaIO with WekaFS delivers storage simplification at exabyte scale for optimized, on-premises cloud infrastructure.

VIDEO STREAMING

Scale data access to support **thousands of concurrent ultra-HD video streams**

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ACTIVE OBJECT STORES

Peak GET performance:
17,647 MiB/s with 40 threads and 4MiB

MinIO object storage cluster nodes and Micron 7000-Series SSDs in AMD EPYC™ CPUs transform HDD data dumps into modern architectures, on budget.

NVME STORAGE OPTIMIZED FOR YOUR TECHNOLOGY

MBX platform engineers are ready to help you determine which Micron SSDs are right for your technology. Micron meticulously engineers products to deliver impressive results like these:

- The Micron 7450 NVMe SSD consistently delivers 2ms and lower latency¹, improving consistent performance in database applications such as Microsoft SQL Server, Oracle, MySQL, RocksDB, Cassandra, and Aerospike – yet is priced for the mainstream data center and delivered in a variety of form factors.
- NVMe SSDs keep CPUs fed and reduce data bottlenecks for workloads that deal with large, growing and complex data sets, like big data analytics and AI model training, all of which need efficient and cost effective storage.
- Micron SEDs deliver some of the strongest data storage security² available, without compromising performance or affordability, and are especially impactful for federal and financial industry workloads.



ACCESSIBLE EXPERTISE

Micron is driving architectural innovations to help OEM channel partners and their customers increase performance, reduce cost and optimize utilization of all hardware assets. Micron's six centers of excellence and 13 global customer labs help foster collaboration and capitalize on the capabilities of Micron memory and storage solutions at the system level. MBX engineers systems with confidence following the reference architectures in Micron lab-validated [Accelerated Solutions](#).

Micron is armed with a team of experts who test its storage and memory in today's challenging workloads to enable partners like MBX to specify the right products for your application servers.

MICRON IS BUILT DIFFERENT

Rise above market volatility with Micron's end-to-end, sand-to-NAND process — every phase of Micron NAND development stays in-house, from design to manufacturing to testing and qualification. Sand to silicon to qualified memory products, all under one roof.

MBX SPECIALIZES IN COMPLEX ENGINEERING CHALLENGES

With nearly three decades of experience in the hardware business, MBX specializes in engineering complex hardware solutions, offering strategic guidance for designing, building and integrating products across a variety of highly technical industries. That means with MBX you have a single, trusted hardware partner to handle your toughest challenges.

Contact MBX and let us help you get your technology to market faster and optimized for performance.

1. The 7450 SSD delivers 2ms and below 99.9999% read latency, tested up to queue depth = 32 for 4KB, 100% random, 70% read workload. 2. No hardware, software or system can provide absolute security under all conditions. Micron assumes no liability for lost, stolen or corrupted data arising from the use of any Micron products, including those products that incorporate any of the mentioned security features.

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