Purpose-built storage

for today's data-intensive workloads

The need for agile, more scalable infrastructure has challenged legacy data center technology. "One size fits all" storage is slow and inefficient for today's demanding workloads, like AI model training, real-time analytics, and private cloud, as well as massive-scale public cloud computing and storage.

Micron stands ready to help with proven, industry-leading, data-center SSDs that are optimized for diverse, demanding workloads from the storage core to the application level.

Enable next-generation performance on data-intensive workloads like:

Hybrid cloud infrastructures

Achieve flexible, cloud-native architecture with massive IOPS

- The Micron 7500 SSD delivers over 1.1M read IOPS and over 410K write IOPS for storage simplification at exabyte scale for optimized, on-premise cloud infrastructure
- The Micron 9400 SSD offers superior RocksDB performance across all thread counts for both 4KB and 16KB block sizes, ranging from a 23% to a 54% improvement for cloud workloads that thrive on extreme performance[1]

Video streaming

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

- Using RedHat Ceph storage 3.3 and Micron 7000-series SSDs, media and other applications can gain the benefits of an all-flash NVMe® solution
- The 30.72TB Micron® 6500 ION SSD enables improved Ceph® Storage performance, with 49% peak improvement in random reads to accelerate data access[2]

Active object stores

Optimize peak performance for modern data-centric applications from AI to data analytics and emerging cloud solutions.

- MinIO object storage cluster nodes and Micron 7000-series SSDs in AMD EPYC CPUs transform HDD data dumps into modern architectures, on budget
- Micron® 6500 ION SSD enables better cluster performance, more efficient CPU utilization, and better cluster resiliency compared to the competition[3]

An NVMe storage portfolio built for your purposes

Learn which Micron SSDs are right for you and your customers. We meticulously engineer our products to deliver impressive results for our partners:

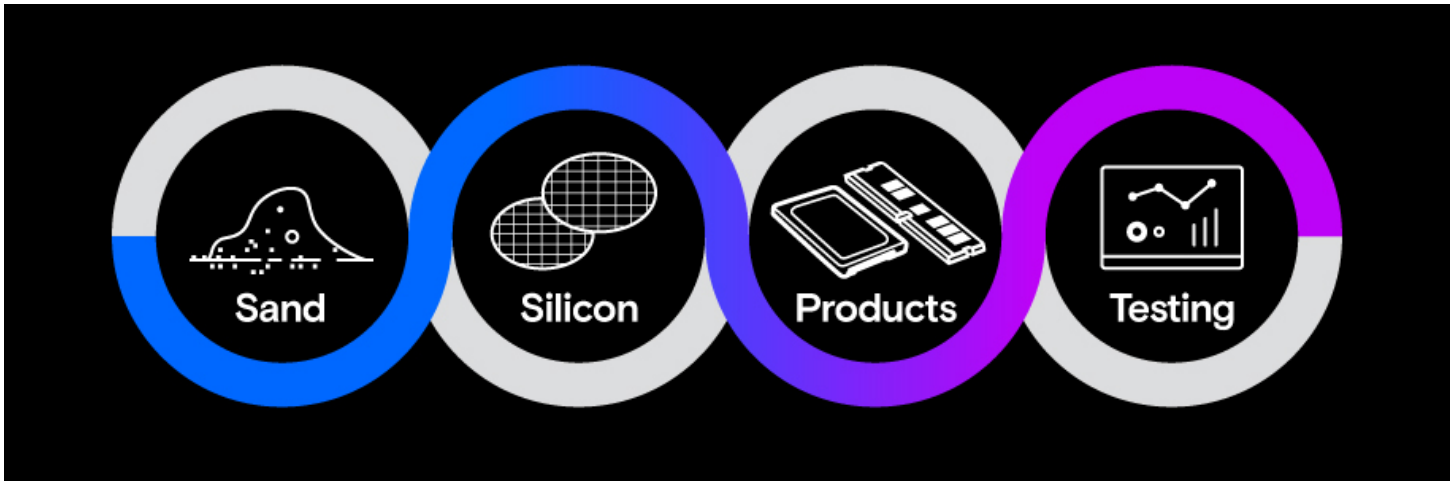
- NVMe SSDs keep CPUs fed and reduce data bottlenecks for workloads that deal with large, growing and complex data sets, like big data analytics and AI model training, all of which need efficient and cost-effective storage.
- The high-performance Micron 9400 NVMe SSD accelerates the ingestion and flow of massive datasets to shorten both AI training times and the time to valuable insight. Micron's high-performance 9400 is ideal for local persistent storage cache to achieve simultaneous ingest and training.
- The mainstream Micron 7500 NVMe SSD consistently delivers 1ms and lower latency[4], 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.
- The high-capacity Micron 6500 ION NVMe SSD ingests volumes of data from networked data lakes significantly faster than the competitor's latest capacity-focused SSDs[5], reducing the idle time for costly GPUs and improving AI investment returns.
- Micron SEDs deliver some of the strongest data storage security[6] available, without compromising performance or affordability, and are especially impactful for federal and financial industry workloads.

Real, accessible experts across the globe

Micron's six centers of excellence, along with our 13 global customer labs, help our customers foster collaboration and capitalize on the capabilities of our memory and storage solutions at the system level. Channel partners and end-users can also build with confidence following the reference architectures in Micron lab-validated Accelerated Solutions.

Micron's Austin Lab is armed with a team of experts who test our storage and memory in today's challenging workloads to recommend the right products to put in your data center servers. They're part of the Micron Data Center Workload Engineering (DCWE) team with Hyderabad, India, driving architectural innovations to help customers and partners increase performance, reduce cost and optimize utilization of all hardware assets.

Why Micron is built different



Rise above market volatility with our 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.

Micron can help partners/customers find the right NVMe solution for the application/workload they are running. Sign up on our Business Partner Portal at micron cpg.com or contact your Micron CPG salesperson.

We are here to help you with your storage needs. Contact your sales rep today.

1. Micron internal testing results show sub-1ms latency in 6x9s QoS with 4K 100% random read up to and including QD128, based on Micron internal testing vs competitive SSDs.
2. Based on the comparison 100TB ingest time calculated from the 128KB sequential write specs in the public product briefs for the Micron 6500 ION SSD and the Solidigm D5-P5430)
3. 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.
4. Based on Micron test results published in "Micron Technical Brief: Micron 9400 NVMe™ SSD RocksDB Performance"
5. Based on Micron test results published in "Micron 6500 ION NVMe™ SSD Enables Better Ceph® Storage Performance and Better Resiliency Than Competitor's QLC SSD"
6. Based on Micron test results published in "Micron 6500 ION NVMe™ SSD Enables Better Ceph® Storage Performance and Better Resiliency Than Competitor's QLC SSD