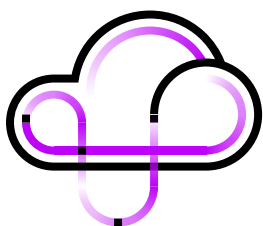# micron®

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 7600 SSD delivers 2.1M read IOPS for storage simplification at exabyte scale for optimized, on-premises cloud infrastructure[1]

- The Micron 9550 SSD offers superior performance and power efficiency for AI training. It outperforms competitors in Graph Neural Network (GNN) training, with up to 60% higher SSD performance while using 29% less server power[2]
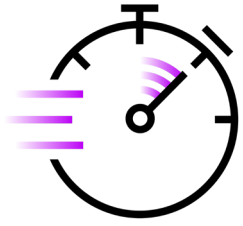
Video streaming
Scale data access to support thousands of concurrent ultra-HD video streams

- 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 61.44TB Micron® 6550 ION SSD delivers up to 250% better performance than competing SSDs while consuming up to 20% less power[3]

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® 6550 ION SSD offers up to 14GB/s and 2 million IOPS, with up to 213% better performance per watt[2]

# 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 9550 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 9550 is ideal for local persistent storage cache to achieve simultaneous ingest and training.

- The mainstream Micron 7600 NVMe SSD consistently delivers 76% better 99th percentile latency[1], 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.

- Available across E3.S, E1.L and U.2 form factors, the Micron 6550 is designed to maximize storage density and reduce data center footprints.

- Micron SEDs deliver some of the strongest data storage security[5] 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.

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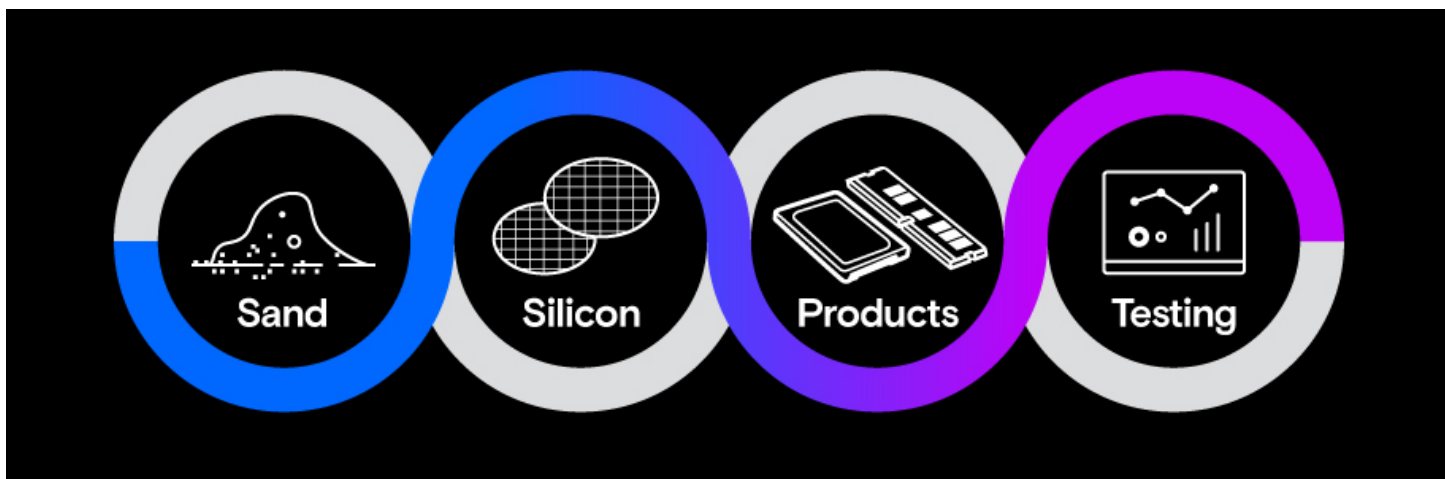
Rise above market volatility with our end-to-end, sand-to-NAND process — every phase of Micron NAND development stays in-house, from design to manufacturing to testing and qualification. Sand to silicon to qualified memory products, all under one roof.

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 microncpg.com or contact your Micron CPG salesperson.

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

1. Micron used the db_bench benchmark for testing RocksDB for random read while writing. SSD comparisons are based on currently in-production and available Gen5 mainstream data center SSDs with read-intensive endurance, from the top five competitive suppliers of OEM data center SSDs by revenue as of February 2025, as per Forward Insights analyst report, "SSD Supplier Status Q4/24". All testing was done by Micron labs.
2. Testing conducted in Micron labs. More details are available at the following link: https://www.micron.com/content/dam/micron/global/public/products/technical-marketing-brief/micron-9550-bam-tech-brief.pdf
3. The Micron 6550 ION offers a capacity of up to 61.44TB. Comparisons are made with other 61.44TB NVMe SSDs from Samsung, Solidigm, and Western Digital. These comparisons use publicly available competitor information from public sources at the time of the 6550 ION announcement, with the 6550 ION and Western Digital using a maximum power of 20W and Solidigm and Samsung at 25W, resulting in up to 20% less maximum power consumption for the 6550 ION.
4. 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
5. 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