Micron’s purpose-built storage portfolio helps overcome workload challenges

Micron’s proven portfolio of data center storage solutions provides the optimal balance of performance, capacity and features to help unleash even the most challenging data-centric workloads. We offer the flexibility to choose the right solution to meet specific workload needs, seamlessly integrate them into data center infrastructure and transform data into insight to gain a competitive edge.

The Micron difference

Customer support
Web support and 1:1 assistance from an experienced sales network

Consistent inventory
Consistent supply from a trusted, experienced manufacturer

40+ years of excellence
Micron’s world-class leadership in innovative memory and storage solutions

Quality
Committed to both quality and innovation

Figure 1. Micron’s comprehensive SSD portfolio helps conquer challenging data center workloads.
Micron 9400 NVMe SSD: The performance leader for data center workloads

The Micron 9400 NVMe SSD sets a new performance standard for PCIe® Gen4 storage, delivering exceptional performance that surpasses other major competitors by up to 2.3 times in mixed workload performance. There can be no concessions for performance-critical workloads. For these applications, fast ingest alone is not enough — responding in microseconds delivers a true competitive advantage.

Ideal for mission-critical applications like:

- Caching
- Content delivery networks
- Massive high-speed OLTP
- High-frequency trading
- Artificial intelligence/machine learning
- Performance-focused databases

Micron 7450 NVMe SSD: Delivers performance to mainstream platform functions

The Micron 7450 NVMe SSD is designed for mainstream data center workloads and offers the industry’s broadest variety of form factors, including multiple U.3, M.2 and E1.S to support all major platform functions. It consistently delivers 2ms and lower latency for 99.9999% QoS and offers next-generation security features like Micron’s unique Secure Execution Environment.

Ideal for mainstream data center applications like:

- Boot
- Caching
- Databases
- Main data storage
- Object storage
- Software-defined storage
- Virtualization solutions

Micron 6500 ION NVMe SSD: Big capacity and bigger value

The Micron 6500 ION NVMe SSD’s massive 30.72TB capacity and purpose-built performance makes cloud-storage challenges look small. Building the perfect cloud architecture or content delivery network can sometimes turn into a balancing act between sacrificing cloud storage performance for capacity, or paying for speeds and endurance that will never be used. The Micron 6500 ION NVMe SSD successfully overcomes these challenges.

Ideal for applications that require massive capacity storage:

- Cloud infrastructure
- Hyperconverged infrastructure
- Content delivery networks
- Big data
- Object storage

Micron 5400 SSD: Features Micron’s proven data center architecture

The Micron 5400 SATA SSD makes it possible to get more from legacy server platforms. It is Micron’s 11th generation of data center SATA SSDs, delivering a proven architecture that provides unparalleled peace of mind, reliability and endurance. This proven solution simplifies the transition to flash-based storage with stability and performance from the industry’s most advanced data center SATA SSD.

Ideal for mainstream data center applications:

- Hyperconverged infrastructure
- Cloud infrastructure
- Big data
- Object storage
Compare Micron’s proven portfolio of data center storage solutions

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Get ahead of the competition and stay ahead with Micron

Need SSDs optimized for today’s high-performance, data-intensive workloads? Let Micron storage solutions help you scale, simplify, accelerate, store and conquer data center’s most challenging storage workloads. Class-leading performance, reliability and endurance are only part of the reason to choose Micron. We’ve been leading the pack for more than 40 years.

Get ahead and stay ahead with Micron. Learn how at microncpg.com

Legal footnotes:
1. Comparisons are made based on other leading PCIe Gen4 Data Center U.2/U.3 NVMe SSDs based on data center market share as noted in the www.forward-insights.com/reportslist.html and available on the open market at the time of this document’s initial publication. 1GB = 1 billion bytes; formatted capacity is less.
2. 77% efficiency improvement is vs the Micron 9300 SSD. Efficiency is defined as performance per watt.
3. Additional information available here: www.micron.com/176
4. Up to queue depth = 64 for 4KB, 100% random, 90% read workload and up to queue depth = 32 for 4KB, 100% random, 70% read workload
5. An isolated security processing engine within the SSD controller. 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.
6. 30.72TB capacity is the largest option. User capacity: 1GB = 1 billion bytes; formatted capacity is less
7. All comparisons to public datasheet values for 3D21TB Solidigm™ D5-P3518 QLC SSD as of March 2023
8. Additional information available here: www.micron.com/232
9. Based on public data sheet specifications. The Micron 5400 SSD has a mean time to failure (MTTF) rating of 3 million device hours, compared to a typical 2 million hour MTTF rating for data center SATA SSDs, based on public information available at the time of this document’s publication. The Micron 5400 MAX SSD has up to 5 drive write per day (DWPD) endurance rating compared to up to 3 DWPD rating for other data center SATA SSDs. The Micron 5400 PRO SSD has up to 10 DWPD compared to up to 1 DWPD for other data center SATA SSDs.
10. Unformatted: 1GB = 1 billion bytes; Formatted capacity will be less.