Client and enterprise NVMe SSDs

Built for your storage needs

For almost 20 years, Micron has been designing and manufacturing storage solutions, optimized from the storage core to the application level. When your customers demand proven SSDs for next-generation data centers, cloud computing and workforce laptops, discover why Micron and its solutions are hard to beat.

Purpose built
Storage solutions optimized for workloads like cloud computing, AI, streaming media, data center and workstations.

People powered
Accessible product experts listen, access, suggest, embed and scale the best-fit storage from our proven portfolio.

Vertically integrated
Micron product development mitigates market volatility with in-house design, manufacturing, testing and quals. From sand to NAND, under one roof.

NVMe client SSDs for workstations and laptops

• Read and write up to 6x faster than SATA\(^1\)
• Help relieve data bottlenecks with vastly more I/O\(^2\) to keep your workforce productive
• Shorten the time that IT managers need to keep workforce laptops in compliance
• Help keep data safe with hardware-based data-at-rest security (needed for Win11), encrypted SEDs\(^3\), and more

NVMe enterprise SSDs for the data center

• Hugely expands I/O\(^2\), reduces latency and greatly improves data center efficiency and performance
• Delivers almost 13x the sequential reads of SATA\(^4\)
• Can improve power efficiency by 2.5x\(^5\) plus deliver hardware-based security of data-at-rest
• Future-proof infrastructure with more form factors, high capacities, and the coming data-intensive-workload-specialized NVMe 2.0
Workload optimized storage

We design, build and validate our SSDs to improve results with demanding workloads. It’s just one way Micron is built different — for your business to thrive in the tech-forward world. Here are just three workloads we can help you optimize:

1. Comparing IOPS for random reads with a commercially available 1TB HDD vs a Crucial MX500 SATA SSD 1TB vs a Crucial P5 Plus NVMe SSD 1TB. Typical I/O performance numbers as measured using CrystalDiskMark® with command queue full and write cache enabled. Fresh out-of-box (FOB) state is assumed. For performance measurement purposes, the SSD may be restored to FOB state using the secure erase command. System variations will affect measured results.

2. NVMe SSDs have up to 65,535 I/O queues for messaging vs SATA having just one. Outstanding commands per queue: 64,000 for NVMe vs. SATA having 32. Documented many places, like https://www.techtarget.com/searchstorage/feature/NVMe-SSD-speeds-explained

3. Micron SSDs enable security of data at rest. 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 security features.

Sequential reads and workloads from published product briefs:
- Micron 7450 PRO/MAX with NVMe, U.3 or E1.S, compared to Micron 5300 PRO/MAX SATA SSD, M.2

Hybrid-cloud infrastructures:
Flexible, cloud-native architecture with over 4M read IOPS and over 1.5M mixed IOPS

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

Active object stores:
Peak GET Performance: 17,647 MiB/s with 40 threads and 4MiB

Download these tech briefs and reference architectures at microncpg.com/whynvme

Micron and Crucial NVMe storage:

Enterprise NVMe SSDs

- Micron 7450 NVMe™ SSD
  Exceptionally low latency; our most advanced NAND

- Micron 7400 NVMe™ SSD
  Flexible form factors (U.3, E1.S, M.2); advanced security

Client NVMe SSDs

- Micron 3400 NVMe Client SSD
  Great for digital workflows and as a boot-up drive

- Crucial P2 NVMe SSD
  Fast NVMe speed for everyday computing

- Crucial P3 NVMe SSD
  Professionals upgrading from SATA; NVMe on a budget

- Crucial P3 Plus NVMe SSD
  Professionals and creatives with heavy workloads

- Crucial P5 Plus NVMe SSD
  Remarkable read speeds up to 6600MiB/s, plus data protection

We are here to help you with your storage needs. Visit microncpg.com/whynvme or contact your sales rep today.

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5. Actual results depend on a variety of factors — results may vary. Examples taken from TechTarget.

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