



Big capacities make cloud storage challenges look small

Just a few years ago, multi-terabyte SSDs and petabyte-level deployments were the exception, not the norm. Today, customers are demanding, and applications are requiring, an ever-increasing level of storage capacity without sacrificing performance. The Micron® 6500 ION represents a leap forward in that respect by offering a 30.72TB¹ capacity, which maximizes server density while maintaining excellent PCle® Gen4 performance. The Micron 6500 ION delivers 6.8GB/s sequential reads and 1 million read IOPS, while delivering 53% better read quality-of-service than the QLC competition². The Micron 6500 ION has standout write performance as well, with random writes 25x faster than the QLC competition².

Sustainability in the data center

Balancing the multitude of factors, a storage architect must consider when designing a system whether it be performance, power or endurance, is a difficult task. With the Micron 6500 ION, customers now have a storage solution that has 20% lower active power, 56% better power efficiency and up to 10x more random write endurance than the QLC competition². Combined with industry-leading density of 30.72TB¹ in a 2.5-inch U.2/U.3 form factor, you have a solution that reduces the number of racks, significantly lowering your infrastructure costs, which is a cornerstone of long-term sustainability.

One of the largest memory and storage manufacturers worldwide

Micron has produced some of the world's most advanced memory and storage technologies for more than 40 years. All Micron-branded products are developed by our engineering team to ensure best-in-class quality and reliability.

| Micron 6500 ION SSD | |
|---------------------|---------------------|
| Speed | 6,800MB/s |
| Capacity | 30.72TB |
| Interface | NVMe™ PCle® Gen4 x4 |
| Form factor | U.3 (15mm) |
| Warranty | 5-year limited |

Best for



Cloud storage



Content delivery networks

Built from the ground up for mainstream workloads

| Micron 6500 ION features | Benefits | |
|---------------------------|--|--|
| U.3 (15mm) | Optimized thermals (15mm), U.2 compatible | |
| Industry leading capacity | 30.72TB capacity enables petabyte-level applications | |
| Vertical integration | Built on Micron's world-leading 232-Layer NAND ³ | |
| Security | Extensive security features such as FIPS 140-3 L2, TCG-Opal v2.01 and TAA compliance | |
| Power efficiency | Up to 56% better power efficiency than the competition ² | |
| Power loss protection | SSD power holdup mechanism that helps ensure data in flight is properly written when SSD power is lost | |

Micron[®] 6500 ION SSD competitive comparison

| Specs | Micron 6500 ION | Intel®/Solidigm™ P5316 |
|--|------------------------|---|
| Sequential reads ¹ (MB/s, 128KB, QD 128) | 6,800MB/s | 7,000MB/s |
| Sequential writes ¹ (MB/s, 128KB, QD 128) | 5,000MB/s | 3,600MB/s |
| 4KB Random reads (MB/s, QD 128) | 1.OM | 800K |
| 4KB Random writes (MB/s, QD 128) | 200K @ 20W | 7.8K @ 25W |
| Endurance (DWPD) | 1.O SDWPD O.3 RDWPD | SDWPD not specified 0.026 RDWPD (100% 4KB writes, <1TB/day) |
| MTTF (million hours) | 2.5 | 2.0 |
| Warranty ⁴ (years) | 5 | 5 |



Micron® 6500 ION SSD product line

Micron 6500 ION U.3 (15mm)

30.72TB Sequential reads 6,800MB/s Sequential writes 5,000MB/s 5-year limited warranty4

Contact your Micron sales representative for more details.

 ^{30.72}TB capacity is the largest option. User capacity: 1GB = 1 billion bytes; formatted capacity is less
 All comparisons to public datasheet values for 30.72TB Solidigm™ D5-P5316 QLC SSD as of March 2023

^{3.} Additional information available here: www.micron.com/232

^{4.} Warranty valid for 5 years from the original date of purchase or before writing the maximum total bytes written (TBW) as published in the product datasheet and as measured in the product's SMART data, whichever comes first.