Selling Micron® 5400 SSDs

Proven SATA Solutions

The Micron® 5400 SSD, the fast, easy, affordable way to refresh your data center servers

The Micron® 5400 is the world's first data center SATA SSD built with 3D 176-layer TLC NAND[2], delivering 50% better reliability and 67% more endurance than typical data center SATA drives[3] in capacities ranging from 240GB to a class-leading 7.68TB[4]. With a proven architecture that delivers peace of mind, unparalleled reliability and endurance, the 5400 is Micron's 11th generation of data center SATA SSDs, built on the industry's broadest portfolio. Simplify your data center transition to flash-based storage with the stability and performance you've come to expect from the industry's most advanced data center SATA SSD.

Speed[1] Up to 540MB/s	**Interface** SATA (6 Gb/s)	**Form Factors** M.2 (2280) 2.5 inch (7mm)
Capacities[4] 240GB - 7680GB	**Warranty**[6] 5-year limited	

Best for

Hyperconverged Infrastructure, Cloud Infrastructure, Big Data, Object Storage

Benefits for Business

- **Qualify Quickly and Easily**
  Micron has been designing, manufacturing and supporting data center SATA SSDs since 2009, making the Micron 5400 our 11th generation data center SATA SSD. By leveraging the same foundational architecture across all Micron 5000 series of SSDs, Micron is simplifying the server qualification process. Customers can expect the same proven controller and firmware design in the 5400, but with advanced flash media for better performance, quality and value.
- **Leverage the Broadest Portfolio of SATA SSDs**
  The Micron 5400 SSD is part of the industry's broadest portfolio of data center SATA SSDs. It gives you more options so that you can get more out of every SATA socket in your servers[5]. The Micron 5400 SSD is available in capacities ranging from 240GB (for robust boot) to 7.68TB[4].
- **Achieve High Reliability, High Endurance**
  Expand your SATA platforms with the Micron 5400 for 50% better reliability in mean time to failure (MTTF) and up to 67% greater endurance than what is typically found in data center SATA SSDs[3]. That endurance, combined with a 5-year warranty[6], makes the Micron 5400 the most reliable data center storage solution in the industry.

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.

Get more out of your SATA servers

Micron 5400 SSD Feature	BENEFITS
AES 256-bit encryption	Helps keep data secure without a performance impact
TCG Enterprise & Opal 2.0 options	Works with the security you already know
Power loss signal support and power hold-up circuit	Helps protect data in flight and data at rest from unexpected power loss
Enterprise data path protection	Helps ensure data accuracy (for both application data and meta data)
Storage Executive support	Micron's SSD management tool helps you maintain control
5-year warranty	Micron standard data center SSD warranty

Micron® 5400 PRO SSD Competitive Comparison

SPECS	Micron 5400 PRO	Samsung PM893	Intel S4520	Hynix PE5011	Kingston DC500R
SEQUENTIAL READ (MB/s)	**540MB/s**[1]	560MB/s	550MB/s	555MB/s	555MB/s
SEQUENTIAL WRITE (MB/s)	**520MB/s**[1]	530MB/s	510MB/s	530MB/s	525MB/s
4KB RANDOM READ (IOPS)	**95K**[1]	98K	92K	96K	98K
4KB RANDOM WRITE (IOPS)	**37K**[1]	31K	43K	35K	28K
ENDURANCE (DWPD)	**0.65 - 1.5 DWPD**[3]	0.8 DWPD	2.2-3.0 DWPD	1.0 DWPD	0.8-1.1 DWPD
MTTF (million hours)	**3**[3]	2	2	2	2
WARRANTY (years)	**5**[6]	5	5	5	5

Micron® 5400 SSD Product Line

Micron 5400 Boot M.2 (2280)

240GB[7]
Sequential read up to 540MB/s[1]
Sequential write up to 220MB/s[1]
5-year limited warranty[6]

Micron 5400 PRO M.2 (2280*) and 2.5 inch (7mm)

240GB*, 480GB*, 960GB*, 1920GB, 3840GB, 7680GB[7]
Sequential read up to 540MB/s[1]
Sequential write up to 520MB/s[1]
5-year limited warranty[6]

Micron 5400 MAX 2.5 inch (7mm)

480GB, 960GB, 1920GB, 3840GB[7]
Sequential read up to 540MB/s[1]
Sequential write up to 520MB/[1]
5-year limited warranty[6]

Contact your Micron sales representative for more details.

1. Performance values are steady-state as defined by SNIA Solid State Storage Performance Test Specification Enterprise v1.1; Drive write cache enabled. Sequential workloads measured using FIO with a queue depth of 32; Random READ workloads measured using FIO with a queue depth of 32. Latency values measured with random workloads using FIO, 4KB transfers and queue depth = 1. 2. Additional information available at www.micron.com/176 3. 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 1.5 DWPD compared to up to 1 DWPD for other data center SATA SSDs. 4. The Micron 5400 SSD is available in 14 capacity, form factor, endurance, and security configurations with power-loss, and data path protection. The closest similar use, data center, SATA SSD offers 12 combinations at the time of this document's publication. 5. Based on similar use, data center, SATA SSDs available on the open market as of the date of this document's publication. 6. 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. 7. Unformatted. 1GB = 1 billion bytes. Formatted capacity will be less.