

Sylvester M.2 SSD



Unigen's family of Sylvester SSDs offer power efficiency, performance and quality-of-service (QoS) with a next-level PCIe Gen4.0 NVMe™ 1.4 enterprise controller, enabling continuous sequential read/write speeds of up to 5759/1750 MB/s in a space efficient M.2 2280 design. With up to 1 DWPD endurance in standard configurations, these SSDs are built to last and offer the ability to meet the stringent power, performance, and thermal requirements of server and data center applications.

Power & Space Efficient M.2 2280 SSD

Enterprise-Level QoS and Performance

The Sylvester drives feature QoS latency of 3ms at 99.9999% (six 9s), sequential read and write speeds of 5759MB/s and 1750MB/s, and 4K random read and write IOPS of 667K and 140K, ensuring boot drive performance that meets the stringent requirements of server and data center applications.

Security and Data Protection

The Sylvester SSDs feature end-to-end data protection and SECDED on all memories. It also has the latest security features with TCG Opal 2.0, providing a level of confidence that allows Sylvester to be used in all environments.

High Endurance and PLP

Featuring up to 1 DWPD for the standard M.2 2280 using eTLC NAND, Sylvester SSDs can also be configured for higher DWPD upon request. And of course, in an enterprise drive like this, PLP is standard.

Capacities: 480GB, 960GB, 1.92TB, 3.84TB

The Sylvester family supports a broad range of capacities, from 480GB up to 3.84TB, to ensure the best fit for a number of use cases, including boot drives, application drives, computation, or data storage.

Specifications

	480GB	960GB	1.92TB
Interface	PCIe Gen 4.0	PCIe Gen 4.0	PCIe Gen 4.0
Form Factor	M.2 2280	M.2 2280	M.2 2280
Capacity			
Total Capacity	480GB	960GB	1.92TB
Performance			
Seq. Reads (128K QD128)	2561 MB/s	3553 MB/s	5759 MB/s
Seq. Writes (128K QD32)	677 MB/s	1339 MB/s	1750 MB/s
Random Reads (RND4K QD32 J16)	246 KIOPS	461 KIOPS	667 KIOPS
Random Writes (RND4K QD1 J4)	40 KIOPS	69 KIOPS	140 KIOPS
4KB 70/30 Rnd RW Latency (QD1)	96 / 21 us	89 / 21 us	108 / 21 us
QoS – Random 70/30 Read/Write			
4KB 99.99%, 70/30 R/W, QD256	21 / 21 ms	10 / 10 ms	3.5 / 3 ms
Endurance			
Endurance	875 TBW	1.75 PBW	3.5 PBW
Reliability and Environmental			
Mean Time Between Failure (MTBF in hrs)	2.0 million	2.0 million	2.0 million
Uncorrectable Bit Error Rate (UBER)	10 ⁻¹⁷	10 ⁻¹⁷	10 ⁻¹⁷
Temperature (Operating)	0 to 70 °C	0 to 70 °C	0 to 70 °C
Power (Idle/Active)	2.86W / 4.55W	2.99W / 6.3W	3.15W / 6.8W

Ordering Information

Capacity	Part Number
480GB	UBPAA02480HE1T1-JMS-UGN
960GB	UBPAA02960HE1T1-KMS-UGN
1.92TB	UBPAA0201T9E1T1-LMS-UGN
3.84TB*	UBPAA0203T8E1T1-MMS-UGN

* available soon