

Sunflower

U.2 PCIe Gen 4 NVMe SSD



Unigen Sunflower SSDs offer low power and low latency Quality of Service (QoS) with an advanced PCIe Gen4.0 NVMe™ 1.4 enterprise controller that unlocks sequential read/write speeds of up to 7341/4695 MB/s on a space efficient U.2 SSD. Supporting up to 1 Drive Write Per Day (DWPD) endurance for all capacities, these SSDs are built to last and meet the most stringent power, performance, and thermal requirements for enterprise environments.

Low Latency QoS for Content Delivery Networks

Excellent QoS and Performance

The Sunflower U.2 SSDs feature performance QD1 latency of [read/write] 5.837/ 7.44 μ S that will ensure reliable content delivery to end users from multiple sources across many data centers. The Sunflower series of drives deliver consistent performance during high usage times such as when a new movie is released, or a video game goes viral.

Power and Space Efficiency

At a maximum of 14 Watts, these U.2 SSD drives can use smaller 7mm enclosures for maximizing the number of drives per system due to their modern design. In server systems where space is at a premium and performance per Watt is critical, Sunflower is up to the task.

Security and Data Protection

The Sunflower SSDs feature end-to-end data protection on all flash memories. They also support the latest security features with TCG Opal 2.0. This provides the type of confidence that allows these drives to be used in all environments.

Endurance

The Sunflower SSDs use the most advanced controllers and NAND Flash that can withstand the test of time and usage. All SSDs from Unigen undergo a rigorous verification and testing process to ensure high reliability. The Sunflower SSDs feature up to 1 DWPD for the standard U.2 using eTLC NAND with the ability to be configured for higher DWPD upon request.

Capacity 1.92TB, 3.84TB, 7.68TB

The Sunflower family of SSDs provide up to an efficient 7.68TB of capacity to hold all your data whether you are using the SSD for applications, computation, or data storage. 1.92TB and 3.84TB capacities are also available to meet various workload requirements.

	1.92TB	3.84TB	7.68TB
Interface	PCIe Gen 4.0	PCIe Gen 4.0	PCIe Gen 4.0
Form Factor	U.2	U.2	U.2
Capacity			
Total Capacity	1.92TB	3.84TB	7.68TB
Performance			
Sequential Reads (Seq 128K) in MB/s	5076	4892	7341
Sequential Writes (Seq 128K) in MB/s	1438	2923	4695
Random Reads (RND4K Q128/T4)	853K	819K	759K
Random Writes (RND4K Q256/T4)	353K	705K	838K
QoS			
Latency 99.9% 70/30 RandR/W, Block=256k, QDep: 1 Read/ Write	88/15.04 μ s	90.62/15.42 μ s	86.53/11.71 μ s
Endurance			
Endurance	1 DWPD	1 DWPD	1 DWPD
Reliability and Environmental			
Mean Time Between Failure (MTBF in hrs)	2.5 million	2.5 million	2.5 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 (Active)	14W	14W	14W