



Product Highlights

- Experience exceptional PCle® Gen5 performance in multiple capacities up to 15.36TB,¹ perfect for computeintensive applications
- Engineered for minimal power consumption, optimizing efficiency and reducing operational costs without compromising performance
- Achieve optimized solutions at low cost for your enterprise's mixed workloads with high-speed random read performance
- Delivering consistent QoS, even under heavy workloads, helping latency during mission-critical operations
- E1.S and E3.S options also available, ensuring scalability and flexibility to meet your enterprise storage needs
- Benefit from enterprise-class features including Power Loss Protection, End-to-End Data Path Protection, and SE, ISE, and TCG security and encryption, all backed by a 5-year limited warranty²

Applications/Environments

- Al Model Training and Inference, Machine Learning, Deep Learning
- Hyperscale Cloud and Enterprise Datacenters
- Compute Intensive Applications
- Standard Compute, High CPU, High GPU, HPC Workloads
- Big Data, Data Analytics, Data Modeling, Predictive Analysis

(→) SANDISK® SN861 SSD

Enterprise NVMe[™] Drive

Redefining the limits for high-performance storage

Be ready for the future of mission critical workloads with the SANDISK® SN861 SSD. The latest SANDISK® SSD with a cutting-edge PCle® Gen5 enterprise-class speeds, the SANDISK® SN861 SSD offers exceptional performance and multiple capacities up to 15.36TB.¹ With high random read speeds and low power consumption, the SANDISK® SN861 SSD is optimized for compute-intensive AI and machine learning applications, ensuring superior read/write performance, extremely low latency, and maximize IOPs/Watt. The SANDISK® SN861 SSD also provides a rich feature set including Flexible Data Placement (FDP), NVMe™ 2.0 and OCP 2.5 support, 1 & 3 DWPD, and a 5-year limited warranty,² making it the ideal solution for hyperscale, cloud, and enterprise data centers.

Features

Ready for the Demands of Al Workloads

Designed to handle compute-intensive AI and machine learning applications which require high bandwidth and low latency.

Superior Performance and Capacity

Experience future-ready PCle® Gen5 read/write speeds with multiple capacities up to 15.36TB.1

Designed for Power Efficiency

Architected to provide heightened performance per watt, optimizing power efficiency and reducing operational costs.

Outstanding Mixed Workload Performance

High-speed random reads provide enhanced solutions at low cost for your enterprise.

Optimized for Quality of Service (QoS)

Reduce latency during mission-critical workloads, delivering consistent Quality of Service (QoS) for your applications, even under heavy workloads.

Rich Enterprise Features

Benefit from enterprise-class features such as Power Loss Protection, End-to-End Data Path Protection, and SE, ISE, and TCG security and encryption, helping ensure data integrity and security.

Future-Ready Data Infrastructure

Designed with industry compliance NVMe[™] 2.0, and NVMe[™] MI 1.2c, along with Flexible Data Placement (FDP) and OCP 2.5 support, for enhanced scalability and efficiency.



Product Information													
Capacity ¹	1.92TB	3.84TB	7.68TB	15.36TB	1.60TB	3.20TB	6.40TB	12.80TE					
Endurance³ (projected)	1DWPD 3 DWPD												
Security	SE, ISE, TCG OPAL												
Form Factor	U.2												
Interface				PCIe® 0	en5x4								
NVMe [™] Specification	NVMe™ v2.0, NVMe™ MI 1.2c												
Performance (projected)													
Read Throughput (max MB/S, Seq 128KiB) ⁴	13,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700					
Write Throughput (max MB/S, Seq 128KiB) ⁴	3,600	7,200	8,800	8,400	3,600	7,200	8,800	8,400					
Read IOPS (max, Rnd 4KiB) ⁴	2,100K	3,300K	3,300K	3,300K	2,100K	3,300K	3,300K	3,300K					
Write IOPS (max, Rnd 4KiB) ⁴	175K	350K	430K	350K	330K	675K	800K	700K					
Read Latency (µS) ⁵	70	70	70	70	70	70	70	70					
Write Latency (µS)⁵	10	10	10	10	10	10	10	10					
Reliability													
MTTF ⁶ (hours, projected)	2.5M												
Uncorrectable Bit Error Rate (UBER)	1 in 10 ¹⁷												
Annualized Failure Rate ⁶ (AFR, projected)	0.35%												
Limited Warranty ²	5 years												
Power Management (projected)													
Requirement (DC,+/-10%)	+12v												
Operating Mode	12W, 14W, 16W, 18W, 20W, 23W (Default)												
Idle (avg.)	~5W												
Physical Size													
z-height (mm)	15mm												
Dimensions (width × length)	69.85mm×100.45mm												
Environmental													
Operating Temperature (ambient) ⁷	0°C to 70°C												
Non-Operating temperature ⁸				-40°C t	-40°C to 85°C								

Ordering Information	tion: 1DWPD					
	Region	Security	1.92TB	3.84TB	7.68TB	15.36TB
OTS Number	Worldwide	SE	OTS2635	OTS2636	0TS2637	0TS2608
Model Number	Worldwide	SE	SDS6BA1190SP9X1	SDS6BA1380SP9X1	SDS6BA1760SP9X1	SDS6BA1A10SP9X1
OTS Number	Worldwide	ISE	0TS2644	0TS2645	OTS2646	OTS2609
Model Number	Worldwide	ISE	SDS6BA1190SP9X3	SDS6BA1380SP9X3	SDS6BA1760SP9X3	SDS6BA1A10SP9X3
OTS Number	Worldwide	TCG Opal	0TS2647	0TS2648	OTS2649	0TS2610
Model Number	Worldwide	TCG Opal	SDS6BA1190SP9X7	SDS6BA1380SP9X7	SDS6BA1760SP9X7	SDS6BA1A10SP9X7
OTS Number	China	SE	Not Applicable	OTS2639	0TS2640	OTS2611
Model Number	China	SE	Not Applicable	SDS6BA1380SP9X1	SDS6BA1760SP9X1	SDS6BA1A10SP9X1
Ordering Information	tion: 3DWPD					
	Region	Security	1.60TB	3.20TB	6.40TB	12.80TB
OTS Number	Worldwide	SE	OTS2656	OTS2657	0TS2658	OTS2612
Model Number	Worldwide	SE	SDS6CA2160SP9X1	SDS6CA2320SP9X1	SDS6CA2640SP9X1	SDS6CA2A2OSP9X1
OTS Number	Worldwide	ISE	0TS2650	OTS2651	OTS2652	0TS2613
Model Number	Worldwide	ISE	SDS6CA2160SP9X3	SDS6CA2320SP9X3	SDS6CA2640SP9X3	SDS6CA2A2OSP9X3
OTS Number	Worldwide	TCG Opal	0TS2653	0TS2654	OTS2655	0TS2614
Model Number	Worldwide	TCG Opal	SDS6CA2160SP9X7	SDS6CA2320SP9X7	SDS6CA2640SP9X7	SDS6CA2A2OSP9X7
OTS Number	China	SE	Not Applicable	0TS2642	0TS2643	0TS2615
Model Number	China	SE	Not Applicable	SDS6CA2320SP9X1	SDS6CA2640SP9X1	SDS6CA2A2OSP9X1

- One terabyte (TB) is equal to 1,000GB (one trillion bytes). Actual user capacity may be less due to operating environment.
- The warranty for the product will expire on the earlier of (i) the date when the flash media has reached one-percent (1%) of its remaining life or (ii) the expiration of 5 years. NAND Endurance.

Based on internal testing. Performance will vary by capacity point, or with the changes in useable capacity. Consult product manual for further details. All performance measurements are in full sustained mode and are peak values. IOPS = input/output operations per second. Subject to change.

Average random latency at 4KiB, QD=1

MTIF and AFR specifications will be based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions for this drive model. MTTF and AFR

ratings do not predict an individual drive's reliability and do not constitute a warranty.

Composite temperature reading
Values are based on ambient temperature. Avoid non-operational exposure to temperatures in excess of 40°C for periods exceeding three months.

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