ENTERPRISE SSDS (→) EMPOWERING AI

SANDISK™

SANDISK® Innovation

For more than 50 years, Sandisk has empowered large-scale data management. From the first commercial SSD to the latest highest density NAND flash die, we revolutionize how businesses harness their data.

24%↑

BiCS8 NAND flash die

Storage Demands

Technology is evolving and growing more rapidly than ever, so are the demands for storing and accessing all the data that powers it.

IDC expects an annual data growth rate of 24% resulting in an incredible 394ZB of data being generated in 2028.*

* SOURCE: IDC Global Datasphere Forecast, 2024-2028, May 2024, US52076424
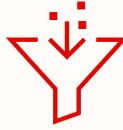
SANDISK ™

The AI Data Cycle

The AI Data Cycle consists of 6 key stages – Sandisk's compute and storage class enterprise SSDs are strategically aligned to support several of these stages.
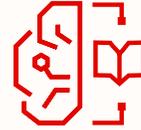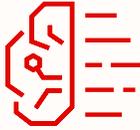
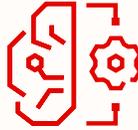**01** Raw Data Archives, Content Storage

02 Data Preparation & Ingestion
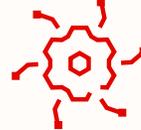
03 AI Model Training

04 Interface & Prompting

05 AI Inference Engine

06 New Content Generation

Empowering AI – Enterprise SSDs

Enterprise SSDs are at the heart of the Data Center, supporting both high-performance, low latency compute and high-capacity storage needs, helping maximize the business value of your data while reducing total cost of ownership. Robust and highly optimized storage solutions are essential for AI's continued growth and evolution.

As AI systems process and analyze existing data, they create a self-perpetuating cycle of increased data generation. This leads to further data analysis, fueling even more data generation. Compute class storage can keep high value AI processors at maximum occupancy, while Storage class SSDs cater to large frequently-accessed data sets.

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High-Capacity Storage Solutions
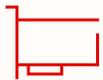
SANDISK® SN670 NVMe™ SSD

Experience the difference with the new SANDISK® SN670 NVMe™ solid state drive. Built using the latest UltraQLC™ technology and BiCS8 NAND, the SANDISK® SN670 SSD offers exceptional performance and power efficiency while greatly expanding capacities up to 122.88TB.[2] Optimized for the Data Ingest, Preparation, and New Content Generation stages of the AI Data Lifecycle, the SANDISK® SN670 SSD provides improved storage Total Cost of Ownership (TCO) on a converged and scalable platform. The SANDISK® SN670 SSD is also up to date on the latest industry standards complying with NVMe™ 2.0, NVMe™ MI 1.2c, and OCP 2.5 guidelines expanding the capacities of data storage.

Applications/Environments
- AI Data Lifecycle – Data Ingest, Preparation, Faster Data Lakes, and New Content Generation
- Hyperscale Cloud and Enterprise Data Centers
- Capacity Intensive Applications and Workloads
- Big Data, Data Analytics, Data Modeling, Predictive Analysis

Features

PCIe® Gen 5.0 x 4 (Single Port)

Power Loss Protection, End- to-End Data Path Protection, and SE, ISE, and TCG security and encryption

U.2: 30.72TB, 61.44TB, 122.88TB (0.35 DWPD)[2]

Built on leading UltraQLC™ and BiCS8 NAND technology offering enhanced performance and power benefits

Throughput (Read/Write): Up to 13,700/3,600 MB/s[3]
IOPS (Read/Write): Up to 2.3M/55K[3]
(122.88TB model)

Converged and Scalable Platform: developed with complete vertical integration enabling backwards compatibility for convenient plug and play solutions across product generations

Improving Storage Total Cost of Ownership (TCO): take advantage of the latest technological advancements to reduce operational costs without compromising performance

NVMe 2.0, NVMe MI 1.2c, OCP 2.5 support

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Compute-Intensive Enterprise SSDs

SANDISK® SN861 NVMe™ SSD

Several stages in the AI Data Cycle, including AI model training, require high-performance, low-latency compute class enterprise SSDs to keep pace with the latest AI-dedicated GPUs.

The SANDISK® SN861 NVMe™ SSDs is a PCIe® Gen 5.0 solution that delivers an up to 3x performance increase over our Gen 4 enterprise SSDs.[3,*]
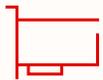
Ultra-low latency, incredible throughput and excellent power efficiency are critical for large language model training, inferencing and AI service deployment.

Applications/Environments
- Hyperscale Cloud and Enterprise Datacenters
- Compute-Intensive Applications
- Standard Compute, High CPU, High GPU, HPC Workloads
- Big Data, Data Analytics, Data Modeling, Predictive Analysis
- AI/ML, Deep Learning

*Based on the 7.68TB capacity

Features

PCIe® Gen 5.0 x 4 (Single Port)

Power Loss Protection, End- to-End Data Path Protection, and SE, ISE, and TCG security and encryption, FDP (Flexible Data Placement)

U.2: 1.92TB, 3.84TB, 7.68TB, 15.36TB (1 DWPD)[2]
1.60TB, 3.20TB, 6.40TB, 12.8TB (3 DWPD)[2]
E1.S: 1.92TB, 3.84TB, 7.68TB, 15.36TB (1 DWPD)[2]
E3.S: 1.92TB, 3.84TB, 7.68TB, 15.36TB (1 DWPD)[2]

Engineered for minimal power consumption, optimizing efficiency and reducing operational costs without compromising performance

Random Read/Write: Up to 3,300 KIOPS[3]
Random Mixed Read: Up to 1,700 KIOPS[3]
Sequential Write: Up to 8,800 MB/s[3]
(7.68TB model)

SE/ISE/TCG OPAL

SANDISK™

Storage-Focused Enterprise SSDs
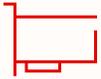
SANDISK® SN655™ Data Center SSD

Large AI dataset preparation relies on storage class enterprise SSDs to deliver the ideal balance of capacity and performance – expediting data preparation times and enhancing the scalability of AI training.

The SANDISK® SN655 SSD features high capacity and balanced performance to address the demands of constantly growing datasets, with optimized total cost of ownership and a robust architecture that ensures effortless scalability.

Applications/Environments
- Cloud Data Centers
- Scale-Out or Software Defined Solutions
- Big Data
- NoSQL or Distributed Databases
- AI/ML Deep Learning
- Data Archiving

Features

PCIe® Gen 4.0 x 4 (Dual Port)

Power Loss Protection, End-to-End Data Path Protection, Variable Sector Sizes, NVMe-MITM 1.1b

U.3: 3.84, 7.68, 15.36, 30.72, 61.44TB (1 DWPD)[2]

The ideal solution for scaling capacity and maximizing GB/watt

Random Read/Write: Up to 1,100 KIOPS[3]
Random Mixed Read: Up to 312 KIOPS[3]
Sequential Write: Up to 3,700 MB/s[3]
(15.36TB model)

SE/ISE/TCG OPAL

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1.   The U.3 form factor is backward compatible with U.2 backplanes. U.2 is not forward compatible with U.3 backplanes.
2.   One megabyte (MB) is equal to one million bytes, one gigabyte (GB) is equal to 1,000MB (one billion bytes), one terabyte (TB) is equal to 1,000GB (one trillion bytes), and one petabyte (PB) is equal to 1,000TB. Actual user capacity may be less due to operating environment.
3.   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.
4.   Endurance rating based on DW/D using 4KiB 100% random write and JESD 219 workloads over 5 years.

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AUGUST.2025 "BROCHURE" ENTERPRISE SSDS—EMPOWERING AI

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