Sandisk Showcases UltraQLC™ Technology Platform with Milestone Enterprise SSD Capacity at FMS 2025

August 5, 2025

SANTA CLARA, Calif.--(BUSINESS WIRE)--Aug. 5, 2025-- Sandisk today demonstrated a high-capacity 256TB[1] NVMe™ enterprise SSD, a breakthrough in storage capacity, performance and power efficiency, made possible by Sandisk's new enterprise-grade UltraQLC™ platform. Offering extraordinary capacity, the UltraQLC™ platform marks a significant achievement in NAND architecture, built with a combination of BiCS8 QLC CBA NAND, custom controllers and advanced system optimizations.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20250805490958/en/

As workloads and business requirements evolve in the AI era, flash storage must become more customizable to match complex workloads. The new SANDISK® 256TB[1] NVMe™ SSD, built on the UltraQLC™ platform, is designed for AI-driven, data-intensive workloads like data ingest, preparation, and fast AI data lakes with high-performance speeds and power efficiency, while improving TCO for high-capacity applications in hyperscale cloud.

"As we move into the next phase of the AI era, flash storage is becoming a critical enabler of intelligent, high-performance workloads," said Khurram Ismail, Chief Product Officer at Sandisk. "Our UltraQLC™ platform is the culmination of years of work and learnings to build a flexible and robust architecture that achieves extraordinary capacities and maximum performance while maintaining efficiency. This enables us to further expand our portfolio to meet AI demands at scale and helps our customers move faster, process more and turn data into real innovation."

The SANDISK® UltraQLC™ 256TB[1] NVMe™ SSD sets a new benchmark for hyperscale flash storage, purpose-built for the fast, intelligent data lakes powering AI at scale. With lower latency, higher bandwidth, and greater reliability, it delivers the performance needed for today's most demanding AI workloads. Key innovations include:

- Direct Write QLC, which eliminates SLC buffering by enabling power-loss safe writes on the first pass
- BiCS8 2Tb QLC die that doubles storage density while maintaining compact die sizes
- UltraQLC™ power optimization, which uses Dynamic Frequency Scaling for up to 10% higher performance for a given power level[2] (projected)
- Scalable multi-core controller that helps ensure high throughput and endurance at extreme capacities
- Data Retention (DR) profile that reduces DR recycles by up to 33 percent[3] (projected), improving drive reliability, resilience and continuous access to data while decreasing power consumption

The SANDISK® SN670 128TB[1] NVMe™ SSD and SANDISK® UltraQLC™ 256TB[1] NVMe™ SSD will be available in U.2 form factor in the first half of 2026, with additional form factors available later in the year.

Sandisk will host a keynote at FMS 2025 on Wednesday, August 6, at 11:40 AM PT, to highlight its UltraQLC™ platform and will demo its milestone 256TB[1] NVMe™ SSD, alongside additional innovative storage solutions, at FMS Booth #607.

Blog: Inside UltraQLC: The Enterprise SSD Platform Engineered for AI

For more information about Sandisk, please visit: https://www.sandisk.com/

About Sandisk

Sandisk (Nasdaq: SNDK) delivers innovative Flash solutions and advanced memory technologies that meet people and businesses at the intersection of their aspirations and the moment, enabling them to keep moving and pushing possibility forward. Follow Sandisk on Instagram, Facebook, X, LinkedIn, YouTube. Join TeamSandisk on Instagram.

1 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

2 Source: Sandisk internal testing vs when Dynamic Frequency Scaling is disabled

3 Source: Sandisk internal testing vs SANDISK SN655

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of federal securities laws, including statements

regarding expectations for the availability, capabilities and impacts of Sandisk's technology and products. These forward-looking statements are based on management's current expectations and are subject to risks and uncertainties that could cause actual results to differ materially from those expressed or implied in the forward-looking statements.

Key risks and uncertainties that could cause actual results to differ materially from those expressed or implied in the forward-looking statements include: adverse changes in global or regional economic conditions, including the impact of evolving trade policies, tariff regimes and international conflicts; volatility in demand for the company's products; pricing trends and fluctuations in average selling prices inflation; the impact of business and market conditions; the impact of competitive products and pricing; the company's development and introduction of products based on new technologies and management of technology transitions; risks associated with restructurings, acquisitions, divestitures, cost saving measures, joint ventures and the company's reliance on strategic relationships; risks related to product defects; difficulties or delays in manufacturing or other supply chain disruptions; hiring and retention of key employees; the company's level of debt and other financial obligations; changes to the company's relationships with key customers or customer consolidation; compromise, damage or interruption from cybersecurity incidents or other data system security risks; actions by competitors; risks associated with compliance with changing legal and regulatory requirements and the outcome of legal proceedings; our ability to achieve some or all of the expected benefits of the separation from Western Digital Corporation; and other risks and uncertainties set forth in Sandisk Corporation's S-1/A Registration Statement filed with the SEC on June 4, 2025, which is available on the SEC's website at www.sec.gov. You should not place undue reliance on these forward-looking statements, which speak only as of the date hereof, and Sandisk undertakes no obligation to update or revise these forward-looking statements to reflect new information or events, except as required by law.

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