



Samsung Electronics Launches 800-Gigabyte Z-SSD™ for HPC Systems and AI Applications

The new Z-SSD will offer a new level of storage for today's artificial intelligence (AI), big data and Internet of Things (IoT) applications, based on its high performance, high reliability and ultra-low latency

SEOUL, Korea – January 30, 2018 – Samsung Electronics Co., Ltd., the world leader in advanced memory technology, today announced that it has launched an 800-gigabyte (GB) solid state storage drive—the SZ985 Z-SSD™, for the most advanced enterprise applications including supercomputing for AI analysis.

Developed in 2017, the new 800GB Z-SSD provides the most efficient storage solution for high-speed cache data and log data processing, as well as other enterprise storage applications that are being designed to meet rapidly growing demand within the AI, big data and IoT markets.

“With our leading-edge 800GB Z-SSD, we expect to contribute significantly to market introductions of next-generation supercomputing systems in the near future, enabling improved IT investment efficiency and exceptional performance,” said Jinman Han, senior vice president, Memory Product Planning & Application Engineering at Samsung Electronics. “We will continue to develop next-generation Z-SSDs with higher density and greater product competitiveness, in order to lead the industry in accelerating growth of the premium SSD* market.”

The new single port, four-lane Z-SSD features Z-NAND chips that provide 10 times higher cell read performance than 3-bit V-NAND chips, along with 1.5GB LPDDR4 DRAM and a high performance controller. Armed with some of the industry's most advanced components, the 800GB Z-SSD features 1.7 times faster random read performance at 750K IOPS, and five times less write latency – at 16 microseconds, compared to an NVMe SSD PM963, which is based on 3-bit V-NAND chips. The Z-SSD also delivers a random write speed of up to 170K IOPS.

Due to its high reliability, the 800GB Z-SSD guarantees up to 30 drive writes per day (DWPD) for five years, or a total of 42 petabytes. That translates into storing a total of about 8.4 million 5GB-equivalent full-HD movies during a five-year period. The reliability of the new Z-SSD is further underscored by a mean time between failures (MTBF) of two million hours.

Samsung will introduce its new Z-SSD in 800GB and 240GB versions, as well as related technologies at ISSCC 2018 (International Solid-State Circuits Conference), which will be held February 11-15 in San Francisco.

About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions. For the latest news, please

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** Editor's Note: The premium SSD means an SSD with IOPs exceeding 550K for random reads, and latency lower than 20us.*