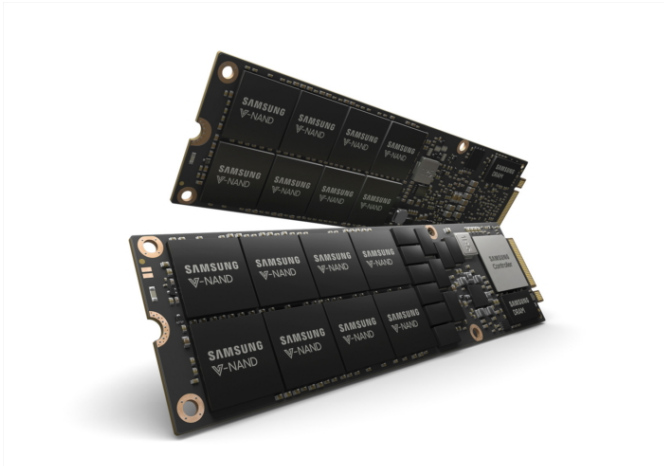


Samsung Intros NF1 8TB SSDs

Written by Frederick Douglas
22 June 2018

Samsung announces what it claims is the highest capacity NVMe SSD based on the Next Generation Small Form Factor (NGSFF)-- an 8TB NF1 SSD optimised for data-intensive analytics and virtualisation applications.



“By introducing the first NF1 NVMe SSD, Samsung is taking the investment efficiency in data centers to new heights,” the company says. “We will continue to lead the trend toward enabling ultra-high density data centers and enterprise systems by delivering storage solutions with unparalleled performance and density levels.”

The NGSFF (aka NF1) is the successor to the M.2 standard. Set to be standardised by JEDEC in October 2018, it promises over double the space utilisation with a server system. The Samsung SSD carries x16 256Gb 3-bit V-NAND chips, allowing for 8TB density in a footprint measuring 11 x 3.05cm, or twice the capacity of the M.2 NVMe SSDs (11 x 2.2cm) found in hyper-scale servers and ultra-slim laptops.

Samsung adds the NF1 SSD should easily replace standard 2.5-inch NVMe SSDs by enabling up to x3 the system density in server infrastructure, allowing for 2U rack servers with up to 576TB of storage. The SSD also includes a high-performance controller based on the NVMe 1.3 protocol and PCIe 4.0 interface delivering sequential read speeds of 3100MB/s and write speeds of 2000MB/s. Random read and write speeds reach 500000 IOPS, while the endurance level is at 1.3 drive write per day (DWPD).

A 512Gb version of the 256Gb 3-bit V-NAND SSD should launch on H2 2018.

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