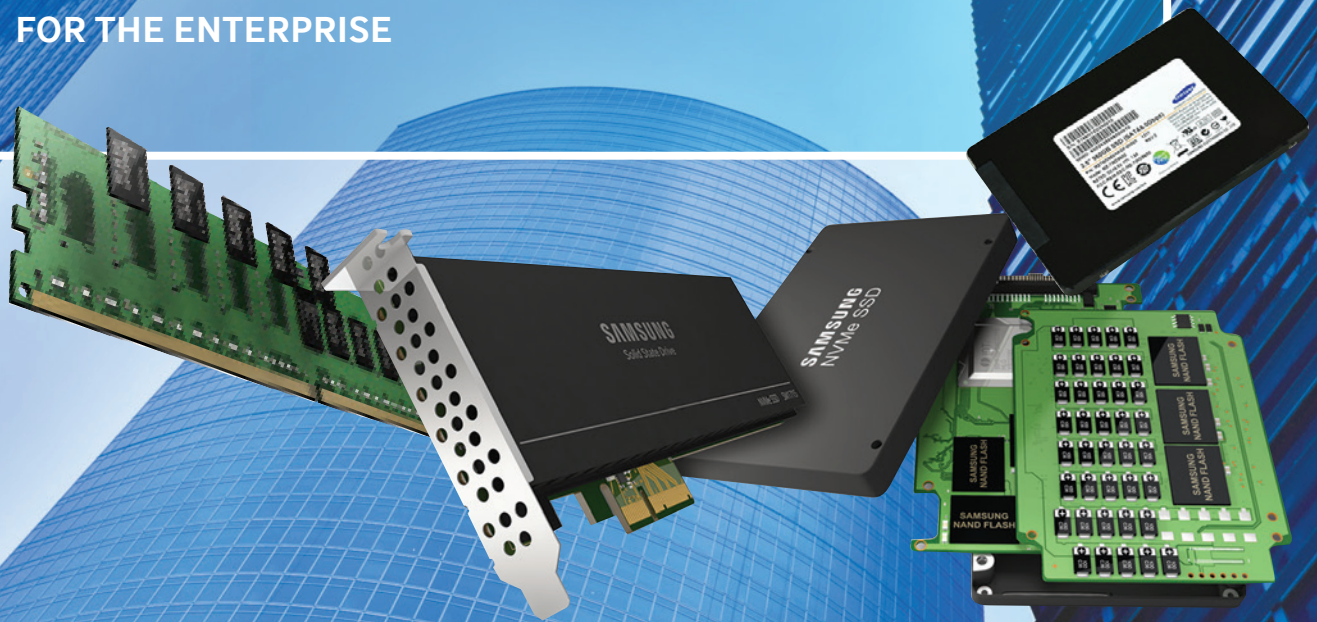


# SAMSUNG

## LESS ENERGY MORE PERFORMANCE

SAMSUNG MEMORY AND SSD SOLUTIONS  
FOR THE ENTERPRISE



**Samsung delivers a full line up of Enterprise SSDs, from mainstream to high-end storage solutions, based on the latest cutting-edge memory technology.**

Our new, high-performance solid state drives (SSDs) have been designed specifically for use in servers and enterprise storage systems. These drives deliver high-speed storage for a wide range of data center applications including: social media in the cloud, SQL database logs, media streaming, virtualization, video on demand and online transaction processing (OLTP). Many of our SSDs are designed with Samsung 3D Vertical NAND (V-NAND) technology, the first commercially available V-NAND solution. V-NAND enhances the drive's performance and endurance levels while also allowing for the rapid scaling of capacity, exceeding the existing limitations of planar NAND.



## DELIVERING THE PERFECT COMBINATION FOR YOUR SERVER AND STORAGE APPLICATIONS

Samsung Enterprise SSDs use our advanced NAND flash memory components, boosting write performance up to 100%, while increasing the endurance of your SSDs 3-10x depending on your target application. Match our SSDs to meet your target applications using the table below:

		SATA 6 Gb/s	SAS 12 Gb/s	PCIe NVMe 32 Gb/s
<b>High End</b> High Performance Computing Transactional Databases Streaming Ingest	Up to 10 DWPD	SM863	SM1635	SM1725
<b>Mid Range</b> Virtualized Workloads Web Servers Email	3-5 DPWD	SM863	PM1633	PM1725
<b>Main Stream</b> Content Delivery IT Infrastructure Collaboration	Up to 1 DWPD	PM863	PM1633	PM953

### Samsung Enterprise SSDs & Samsung DDR4 – A Superb Combination

Samsung Enterprise SSDs paired with Samsung DDR4 memory offers significantly more performance at a lower operating cost. Whether you're looking for the most energy-efficient solution for idle times on web hosting servers or the maximum memory capacity for Big Data analyses using the minimum quantity of DIMMs, Samsung DDR4 offers the best solution to all of your needs.

### Optimize Your Server Performance Using 20nm-class DDR4 DRAM

DDR4, now in production at 2133Mbps, is downward compatible with speeds of 1866Mbps and 1600Mbps. The speed will automatically be identified by the system BIOS and adjusted based on the number of DIMMs per Channel (DPC). In addition to these system adjustments, some platforms offer the option of speed leveling through the BIOS.

Samsung DDR4 operates at a high bandwidth range of 1600-3200Mbps, ideal for high-performance computing, and is twice as fast as DDR3's 800-1600Mbps. Samsung DDR4 also has twice as many banks as DDR3, 16 versus 8, for increased speed-enhancing performance by 16 percent over DDR3. Use of this configuration maximizes Samsung DDR4's data transmission efficiency.

In addition, server platforms that incorporate Samsung DDR4 have up to 50 percent more cores when compared to previous generation platforms using DDR3. Samsung DDR4's platform-level benefits also include enhanced CPU-to-CPU communication performance and a vector operation speed that is twice as high as platforms that use DDR3.

### The Samsung Enterprise Advantage

Samsung has been at the forefront of memory and solid state drive innovation for the enterprise, offering SSD, NAND and DRAM products that enable cost optimization while maximizing performance and endurance.

Samsung's portfolio is vertically integrated in all areas: NAND, DRAM, controller and firmware, resulting in the highest quality Memory and SSD solutions for the Enterprise.

For more information, visit: [www.samsung.com/flash-ssd](http://www.samsung.com/flash-ssd)

For specific sales inquiries, contact us via email at: [ssd@ssi.samsung.com](mailto:ssd@ssi.samsung.com)

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