

Global Solid State Drives (SSD) Market Report: 2016 Edition

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Abstracts

Proper management of memory is vital for a computer system to operate properly. Modern operating systems have complex systems to properly manage memory. A memory is just like a human brain. It is used to store data and instructions. Computer memory is the storage space in a computer where data is to be processed and instructions required for processing are stored. The memory is divided into a large number of small parts called cells. Each location or cell has a unique address, which varies from zero to memory size minus one. Memory can primarily be divided into three types; namely; primary, secondary and cache.

Solid-state storage (SSS) is a type of non-volatile computer storage that stores and retrieves digital information using only electronic circuits, without any involvement of moving mechanical parts. Types of flash-based solid-state storage devices include MMC, SD, SSD and USB Flash Drives. A solid-state drive/ disk (SSD) is a solid-state storage device that uses integrated circuit assemblies as memory to store data persistently. The key components of an SSD are the controller and the memory to store the data. The primary memory component in an SSD was traditionally DRAM volatile memory, but since 2009, it is more commonly NAND flash non-volatile memory.

The overall growth of the industry is driven by rising rate of adoption of laptops and notebooks for personal and professional use. Other factors contributing to the growth is rising storage needs of Big Data industry coupled with the supremacy of SSD over flash memory. The trends observed in the SSD market and hence the memory market is a large number of merger and acquisitions as well use of eSSD. Despite the large number of factors contributing to the industry growth, the SSD market is posed with the challenges like entry barriers for new players, data security concerns, competition from solid state arrays. Technological challenges such as transition to 3D NAND and new

generation NVM memory also pose serious threat to the industry.

The report, “Global Solid State Drives Market: 2016 Edition” analyzes the prevailing condition of the industry along with its major segments like NAND and DRAM. The major players, Samsung Electronics, SanDisk and Intel Corporation have been profiled and compared, along with their key financial statistics and strategies for growth.

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