Toshiba Announces Next Generation Client SSD with 64-Layer 3D Flash Memory

Toshiba's SG6 SSD is optimized for notebook PCs and desktop PC applications

Düsseldorf, Germany, 08 August 2017 - Toshiba Electronics Europe GmbH today announced the new SG6 series, the latest Toshiba client SSD to feature 64-layer, 3-bit-per-cell TLC (triple-level cell) BiCS FLASH to deliver better transfer speeds and power efficiency[1]. This family of SSDs is designed for mainstream desktops and notebooks, consumer upgrades, as well as applications needing data security.

With increased performance over the prior generation[2], SG6 features the latest SATA technology[3] to deliver up to 550 MB/s sequential read and 535 MB/s sequential write[4], and up to 100,000 and 85,000 random read/write IOPS[5] delivering enhanced application performance. Furthermore, compared to its previous generation, active power consumption was decreased by up to 40% enabling increased battery life for mobile computing.

The SG6 series comes in both M.2 2280 and 2.5-type SATA standardized form factors and includes 256GB, 512GB, and 1024GB capacities[6]. Addressing business applications requiring security, SG6 offers advanced firmware security[7] and self-encrypting drive (SED) models supporting TCG[8] Opal Version 2.01.

"The Toshiba SG6 SATA SSD series is ideal for mainstream PCs and consumer upgrades, delivering enhanced transfer speed performance and power efficiency", comments Paul Rowan, General Manager at Toshiba Electronics Europe, SSD Business Unit. "This latest SSD series shows Toshiba's commitment to provide its customers with the most suitable SSD solutions to meet market demand."

The SG6 series will be showcased at the 2017 Flash Memory Summit in Santa Clara, CA, USA, from August 8 to 10 in booth #407. Samples are currently shipping to customers with general availability later this year.

For more information on Toshiba's line of industry-leading SSDs, please visit: https://toshiba.semicon-storage.com/eu/product/storage-products.html .

Notes:
[1]Compared to Toshiba's conventional SATA SSDs utilizing two dimensional NAND Flash memory

[2] Toshiba SG5 series

[3] SATA Rev. 3.3 and ACS-4

[4] Toshiba Memory Corporation survey based on sequential read and write speeds of 128KiB units, using 1024GB models in SG6 series under Toshiba Memory Corporation test conditions. Read and write speed may vary, depending on the host device, read and write conditions, and file size. Toshiba Memory Corporation defines a megabyte (MB) as 1,000,000 bytes and a kibibyte (KiB) as 210 bytes, or 1,024 bytes.

[5] Input/output operations per second (or the number of I/O operations per second); Toshiba Memory Corporation survey based on random read and write speeds of 4KiB units, using 1024GB models in SG6 series under Toshiba Memory Corporation test conditions. Read and write speed may vary, depending on the host device, read and write conditions, and file size. Toshiba Memory Corporation defines a kibibyte (KiB) as 2^{10} bytes, or 1,024 bytes.

[6] Definition of capacity: Toshiba Memory Corporation defines a gigabyte (GB) as 1,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2^{30} bytes = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

[7] Only digitally signed firmware can be installed

[8] TCG: Trusted Computing Group

*Company names, product names, and service names mentioned herein may be trademarks of their respective companies.

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About Toshiba Electronics Europe
Toshiba Electronics Europe (TEE) is the European electronic components business of Toshiba Electronic Devices and Storage Corporation. TEE offers a broad IC and discrete product line including high-end memory, microcontrollers, ASICs and ASSPs for automotive, multimedia, industrial, telecoms and networking applications. The company also has a wide range of power semiconductor solutions as well as storage products including HDDs, SSDs, SD Cards and USB sticks.

TEE was formed in 1973 in Neuss, Germany, providing design, manufacturing, marketing and sales and now has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom. TEE employs approximately 300 people in Europe. Company president is Mr. Akira Morinaga.
For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

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August 2017   **Ref. TBS013/A**