



## Toshiba Announces Next Generation Enterprise Performance HDD

*Toshiba's latest enterprise performance 10,500 RPM HDD to support both 12.0 Gbit/s SAS and 512n sector length*

**Düsseldorf, Germany, 20<sup>th</sup> October 2015** - Toshiba Electronics Europe announces its newest enterprise performance hard disk drive (HDD) line, the AL14SE series, designed for mission critical servers and high-performance, high-availability storage systems. The AL14SE is Toshiba's latest 10,500 rotations per minute (RPM) HDD to support 12.0 Gbit/s<sup>[1]</sup> SAS and 512n sector length for compatibility with the latest generation host controllers and host bus adapters.

The AL14SE features a new four-platter design increasing storage capacity by 33 per cent over the previous AL13SE generation models. Performance is improved by the integration of an updated 128MB data buffer. The AL14SE family of HDDs provides 12.0 Gbit/s dual-ported SAS support and 512n sector models in industry standard capacities of 300GB, 450GB, 600GB, 900GB and 1200GB<sup>[2]</sup>.

This newest generation HDD is designed to support OEM customisations of value-add features such as optional RAID rebuild assist and optional self-encryption feature sets. The

standard 12.0 Gbit/s SAS feature provides auto-negotiation to 6.0 Gbit/s SAS for legacy host controllers, enabling compatibility within legacy hardware platforms and host controllers.

For applications and hypervisor environments that require storage devices to support 512n sector, the new Toshiba models deliver this sector length with the improved performance of 12.0 Gbit/s SAS and a larger 128MB data buffer. Ideally suited for server and storage systems and applications, the AL14SE provides a balance between storage capacity and performance in virtualised storage environments.

“The AL14SE line of HDDs is optimised for applications requiring a balance between reduced latency for higher performance and a lower cost for storage capacity,” said Martin Larsson, vice president of Toshiba Electronics Europe, Storage Products Division. “Our OEM partners appreciate Toshiba’s ability to support 512n sector lengths for optimum integration with virtualised storage environments and to provide value-add feature options to tailor security and performance to their specific needs.”

Samples of the Toshiba AL14SE 512n sector of HDDs are available now. For more information on Toshiba’s line of industry-leading SSDs, HDDs and SSHDs, visit [www.toshiba.semicon-storage.com](http://www.toshiba.semicon-storage.com).

Notes:

[1] Read and write speed may vary depending on the host device, read and write conditions, and file size.

[2] Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GiB =  $2^{30}$  = 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.

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**About Toshiba Electronics Europe**

[Toshiba Electronics Europe](#) (TEE) is the European electronic components business of [Toshiba Corporation](#), which is ranked among the world's largest semiconductor vendors. TEE offers one of the industry's broadest IC and discrete product lines 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 like 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. Takashi Nagasawa.

For more company information visit TEE's web site at [www.toshiba.semicon-storage.com](http://www.toshiba.semicon-storage.com)

**Contact details for publication:**

Toshiba Electronics Europe, Hansaallee 181, D-40549 Düsseldorf, Germany

Tel: +49 (0) 211 5296 0 Fax: +49 (0) 211 5296 792197

Web: [www.toshiba.semicon-storage.com](http://www.toshiba.semicon-storage.com)

E-mail: [spdinfo@tee.toshiba.de](mailto:spdinfo@tee.toshiba.de)

**Contact details for editorial enquiries:**

Barbara Mutz-Gutorski, Toshiba Electronics Europe

Tel: +49 (0) 211 5296 576

E-mail: [BMutzGutorski@tee.toshiba.de](mailto:BMutzGutorski@tee.toshiba.de)

**Issued by:**

Matt Wilkinson / Georgia Sorrel, Pinnacle Marketing Communications Ltd,

Tel: +44 (0) 20 8429 6548/+44 (0) 20 8429 6549 Fax: +44 (0) 20 8868 4373.

Web: [www.pinnacle-marketing.com](http://www.pinnacle-marketing.com)

E-mail: [m.wilkinson@pinnaclemarcom.com](mailto:m.wilkinson@pinnaclemarcom.com) or [g.sorrel@pinnaclemarcom.com](mailto:g.sorrel@pinnaclemarcom.com)

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HDD