Toshiba Announces MG10-D Series of Enterprise HDDs with Capacities up to 10TB

Düsseldorf, Germany, 25 June 2024 – Toshiba Electronics Europe GmbH (Toshiba) announces the release of its MG10-D Series, a family of air-filled conventional magnetic recording (CMR) HDDs supporting SAS and SATA interfaces and capacities of up to 10TB[1]. Crafted with precision engineering and over 50 years of Toshiba experience, the MG10-D Series delivers improved performance and power efficiency over prior generations. With sanitize instant erase (SIE) and self-encrypting drive (SED) options[2], valuable data is safeguarded by a storage solution known for its robust performance and unwavering dependability.

Built for the increasing application demands of enterprise server and storage solutions, the MG10-D Series delivers a new level of performance. For example, compared with the previous model[3], the new 10TB MG10ADA10TE provides an approximately 13% better maximum sustained transfer speed of 268MiB/s[4] and doubles the cache buffer size to 512MiB[5]. It also reduces power consumption in active idle mode by approximately 21%, to 5.74W. Architected to deliver improved total cost of ownership (TCO), the new MG10-D Series fits seamlessly into

a wide variety of business-critical applications, such as email, data analytics, data retention, and surveillance.

“Toshiba’s MG10-D Series delivers exceptional performance to meet the demands of growing business critical applications. The new cutting-edge design of the MG10-D Series is engineered for sustainable enterprise environments and fits seamlessly into existing infrastructure reducing TCO,” said Larry Martinez-Palomo, Vice President, Head of Storage Products Division at Toshiba.

The MG10-D Series is a 5-disk CMR standard 3.5-inch[6], 7200 RPM air-filled platform. Available capacities are 2TB, 4TB, 6TB, 8TB, and 10TB for both SAS and SATA. SATA is also available in a 1TB drive. The series supports 6Gb/s SATA or 12Gb/s SAS interface options in Advanced format 512e and 4Kn[7]. A 512n option is available on the 1TB, 2TB, and 4TB offerings to support legacy systems with native 512 byte block sizes. Designed for 24x7 enterprise reliability, the MG10-D Series has a workload rating of 550TB, an AFR of 0.44% and an MTTF/MTBF[8] of 2M hours.

The MG10-D Series will be available in CQ3.

MG10-D Series

Capacity	Interface	Format	Model Number	Optional Security
10 TB	SATA-3.3	512e/4Kn [7]	MG10ADA10TE	SIE/SED[2]
8 TB			MG10ADA800E	
6 TB			MG10ADA600E	
4 TB			MG10ADA400E	
2 TB			MG10ADA200E	
4 TB		512n	MG10ADA400N	
2 TB			MG10ADA200N	
1 TB			MG10ADA100N	
10 TB	SAS-3.0	512e/4Kn [7]	MG10SDA10TE	
8 TB			MG10SDA800E	
6 TB			MG10SDA600E	
4 TB			MG10SDA400E	
2 TB			MG10SDA200E	
4 TB		512n	MG10SDA400N	
2 TB			MG10SDA200N	

For more information on the new MG10-D Series of Enterprise HDDs, please visit: https://toshiba.semicon-storage.com/eu/storage/product/data-center-enterprise/enterprise-capacity/articles/mg10-d-series.html.

For more information on Toshiba's full line of HDD storage products, please visit: www.toshiba.semicon-storage.com or www.toshiba-storage.com.

[1] Definition of capacity: One terabyte (TB) = one trillion bytes, but storage capacity actually available may vary, depending on operating environment and formatting. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
[2] The HDDs which have any optional security function may not be available in the countries where the use of such HDDs is prohibited or limited due to export control and local regulations.
[3] Comparison between the SATA interface 512e model "MG10ADA10TE" and the previous generation "MG06ACA10TE."
[4] Read and write speeds may vary depending on the host device, read and write conditions, and file size.
[5] A mebibyte (MiB) is 2^{20}, or 1,048,576 bytes.
[6] "3.5-inch" mean the form factor of HDDs. They do not indicate drive's physical size.
[7] Default format is 512e. Convertible to 4kn format.
[8] MTTF/MTBF (Mean Time to Failure/Mean Time Between Failure) is not a guarantee or estimate the product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. The actual product life of the product may vary.

* Information in this document, including product prices and specifications, content of services and contact information, is current and believed to be accurate as of the date of the announcement, but is subject to change without prior notice.

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About Toshiba Electronics Europe

Toshiba Electronics Europe GmbH (TEE) offers European consumers and businesses a wide variety of hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. Next to HDDs, the company's broad portfolio encompasses power semiconductors and other discrete devices ranging from diodes to logic ICs, optical semiconductors as well as microcontrollers and application specific standard products (ASSPs) amongst others.

In addition, TEE also offers Toshiba's SCiB™ battery cells and modules with lithium titanium oxide (LTO) for heavy-duty applications and Silicon Nitride (SiN) ceramic substrates used in power semiconductor modules, inverters and converters for their heat dissipation characteristics and strength.

TEE has its headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistics services.

Visit Toshiba's websites at www.toshiba-storage.com, www.toshiba.semicon-storage.com, www.scib.jp/en and www.toshiba-tmat.co.jp/en/ for further company and product information.

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June 2024 **Ref. TSH118 EN**