

Toshiba Announces Updated 4TB, 6TB and 8TB Enterprise Capacity Hard Disk Drive Models

The air-filled MG08-D Series delivers reliability and power efficiency to enterprise and business-critical applications

Duesseldorf, Germany, 27 October 2020 - Toshiba Electronics Europe GmbH (TEE) announces the new Toshiba MG08-D Series Hard Disk Drives (HDDs), designed for a wide variety of business-critical applications including data analysis for business intelligence, small-medium business servers, data-retention and archiving.

Toshiba's next generation air-filled mechanical design provides better power efficiency and a lower component count, delivering better total cost of ownership than its earlier generation models. The new MG08-D series is offered in capacities of 4TB^[1], 6TB and 8TB, both for SATA and SAS interfaces. The 4TB drives are available as 512e, 4Kn as well as "legacy 512n" sector models; the 6TB and 8TB drives are delivered as 512e and 4Kn sector models.

"Data centre and enterprise IT engineers currently have to deal with acute cost pressures. While looking to gain new performance levels for their server and data storage deployments, they must also think about reliability and power efficiency," said Larry Martinez-Palomo, General Manager Storage Products Division, Toshiba Electronics Europe GmbH. "The new MG08-D Series drives are based on Toshiba's next generation Conventional Magnetic Recording (CMR) technology. Highly versatile, they are compatible with a wide range of operational use cases."

With a 550TB a year workload^[2] rating, the MG08-D Series provides an extensive array of features. These include 7200rpm performance in a 3.5-inch form factor^[3], with a choice of SATA 6Gbit/s or 12Gbit/s SAS interfaces. Compared with Toshiba's current line-up of 4TB, 6TB and 8TB models of the MG04/05 and MG06 generations, the models of the new MG08-D Series offer a broader range of benefits through the implementation of further technology advances to the MG08 device generation. For example, compared with the previous models^[4], the new 4TB models have approximately 23% better maximum sustained transfer speed – reaching 243MiB/s. Their cache buffer size has also been doubled to 256MiB. Operational reliability has been extended too, with the MTTF figure being increased from 1.4 million hours (AFR 0.63%) to 2.0 million hours (AFR 0.43%)^[5]. This 2.0 million-hours MTTF is likewise supported by the new 6TB and 8TB MG08-D Series models.

The Toshiba MG08-D Series with capacities of 4TB, 6TB and 8TB are expected to be available on sale in 1CQ 2021.

For more information on the new products, visit: <https://toshiba.semicon-storage.com/eu/storage/product/data-center-enterprise/cloud-scale-capacity/articles/mg08.html>

For more information on Toshiba's full line of HDD data center and enterprise storage products, <https://toshiba.semicon-storage.com/eu/storage/product/data-center-enterprise.html>

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Notes:

[1] Definition of capacity: One terabyte (TB) = one trillion bytes. 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] Workload is a measure of data throughout the year, and it is defined as the amount of data written, read or verified by commands from the host system.

[3] "3.5-inch" refers to an HDD form factor. It does not indicate drive's physical size.

[4] Comparison with the new MG08ADA400E (SATA 512e) and prior generation MG04ACA400E (SATA 512e).

[5] MTTF (Mean Time to Failure) and AFR (Annualized Failure Rate) assume 8760 h/year power on hours (24 hours a day, 7 days a week), up to 550TB/year total data transfers, and an average HDA surface temperature of 40°C or lower.

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

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About Toshiba Electronics Europe GmbH

[Toshiba Electronics Europe GmbH](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). TEE offers European consumers and businesses a wide variety of innovative 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.

TEE has its headquarters in Düsseldorf, Germany, and branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistic services. TEE's president is Mr. Tomoaki Kumagai.

For more company information visit TEE's website at www.toshiba.semicon-storage.com & <https://www.toshiba-storage.com/>

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