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Toshiba announces new 16TB Enterprise Capacity Hard Disk Drives – MG08 Series

Hard Disk Drives – MG08 Series, the industry's largest capacity 16TB[1] [2] Conventional Magnetic Recording (CMR) HDD. With 33% more capacity than today's widely adopted 12TB drives, and 14% more capacity than prior 14TB models, MG08 16TB drives are compatible with the widest range of applications and operating systems, and adapted to mixed random and sequential read and write workloads in both cloud and traditional datacenter environments.

The MG08 Series is Toshiba's second-generation helium-sealed HDD family, and eighth-generation Enterprise Capacity HDD family. "Toshiba has delivered its industry-leading 16TB capacity and improved power efficiency by utilizing the 9-disk helium design, introduced last year in 14TB models, and its own advanced precision laser welding process to ensure the helium remains sealed inside the drive case," comments Larry Martinez-Palomo, General Manager, HDD Business Unit, Toshiba Electronics Europe.

512MB cache buffer[5], and a choice of SATA and SAS interfaces—all in an industry-standard, 3.5-inch[6] form factor.

The MG08 Series further illustrates Toshiba's commitment to advancing HDD design to meet the evolving needs for storage devices suited for use in cloud-scale servers and storage infrastructure. As data growth continues at an explosive pace, the industry-leading 16TB CMR capacity will help cloud-scale service providers and storage solutions designers to achieve higher storage densities for cloud, hybrid-cloud and on-premises rack-scale storage. Larry Martinez-Palomo from Toshiba Electronics Europe adds: "With its improved power efficiency and 16TB capacity, the MG08 Series will help lower the TCO of storage infrastructure designed for applications such as data-protection, big data aggregation, content serving and digital archiving."

Shipments of samples of 16TB MG08 Series drives to customers will begin sequentially in Q1.

capacity using powers of 2 for the definition of 1GB = 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.

[3] Workload is a measure of the data throughput in a year, and it is defined as the amount of data written, read or verified by commands from the host system.

[4] MTTF (Mean Time to Failure) is not a guarantee or estimate of 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. Actual operating life of the product may be different from the MTTF.

[5] A mebibyte (MiB) means 2^{20}, or 1,048,576 bytes.

[6] “3.5-inch” means the form factor of HDDs. It does not indicate a drive’s physical size.

* 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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