

### TOSHIBA ANNOUNCES NEW MN07 SERIES HARD DRIVES FOR NAS PLATFORM OEMS AND INTEGRATORS

*12TB and 14TB 3.5-inch NAS-Class hard drives benefit both cost-of-capacity and total cost of ownership in network attached storage appliances*

TAIPEI - Taiwan, July 31<sup>st</sup>, 2018 - Toshiba Electronic Components Taiwan Corporation (“Toshiba”), a committed technology leader, announced the MN07 Series 12TB<sup>1</sup> and 14TB 3.5-inch<sup>2</sup> hard disk drives for use in NAS platforms. The Toshiba MN07 Series utilizes a helium-sealed mechanical design to achieve the massive 14TB and 12TB capacity. The 14TB model improves power efficiency by approximately 55 percent (W/GB<sup>3</sup>) over the previous 10TB “air” 7,200rpm mechanical designs.



The MN07 Series is designed for use in NAS appliances with eight or more drive bays and is suitable for NAS file and object storage applications that require disk drives with workload ratings of up to 180TB per year<sup>4</sup>. The MN07 models feature vibration compensation technology and advanced Format (AF) 512e sector technology. Additionally, both devices offer 24/7 operability, superior reliability with MTTF<sup>5</sup> of 1.0 Million hours, and are compatible with popular 3rd-party, 3.5-inch NAS enclosures.

“Toshiba’s new MN07 Series provides proven NAS-class performance and durability. Toshiba’s exclusive 9-disk, helium-sealed mechanics deliver real value to OEMs and integrators of file- and object- storage solutions who utilize proven network-attached storage technologies,” said Takayoshi Tokushima, Director of Storage Products Marketing Group at Toshiba Electronic Components Taiwan Corporation. “MN07 Series models include RV compensation technology for optimal performance in multi-disk NAS enclosures and are designed for robust 24/7 operation up to 300,000 load/unload cycles.”

<sup>1</sup> 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 1GB = 2<sup>30</sup> = 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.

<sup>2</sup> Form Factor: "3.5-inch" mean the form factor of HDDs or SSDs. They do not indicate drive's physical size.

<sup>3</sup> Power efficiency is calculated based on active idle power consumption divided by formatted capacity.

<sup>4</sup> Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system.

<sup>5</sup> 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.

For more information on the MN07 series, please visit:

<https://toshiba.semicon-storage.com/ap-en/product/storage-products/client-hdd.html>

For more information on Toshiba's full line of HDD storage products, please visit:

<https://toshiba.semicon-storage.com/ap-en/product/storage-products.html>

- Information in this document, including product prices 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 Electronic Components Taiwan Corporation (TET)**

Toshiba Electronic Components Taiwan Corporation is responsible for the sales and marketing promotion and support of Toshiba hard disk drives and Toshiba External HDDs in Taiwan, China and Southeast Asian countries. TET is the best partner to Enterprise server, storage and notebook computers, and its mission is to offer the best service and products embodying the highest quality and most leading-edge technology. For more information, visit us at <http://toshiba.semicon-storage.com/ap-en/product/storage-products.html>

### **Media Inquiries:**

Kris Wu

TET Marketing Gr.

Tel: +886-2-2508-9988 #619

E-mail: [kris2.wu@toshiba.co.jp](mailto:kris2.wu@toshiba.co.jp)