

# Toshiba Launches 400GB 2.5-inch HDD Introduces New Line-up of 7,200rpm Drives

July 16 2008

---



**TOSHIBA**  
Toshiba's 400GB 2.5-inch HDD (MK4058GSX)

Toshiba today announced a new line-up of high performance 2.5-inch HDDs, including a low-noise flagship model that boosts areal density to 477Mbit/mm<sup>2</sup> (308Gbps) to achieve a capacity of 400GB on just two platters, plus five drives that bring new levels of performance and 7,200rpm rotational speeds to the company's full range of storage capacities.

Mass production of the 400GB MK4058GSX will start from September, targeting notebook PC and consumer electronic applications. Mass production of the 7,200rpm drives will start in August. The line-up includes the 320GB MK3254GSY and models with 80, 120, 160 and 250GB capacities.

Toshiba will feature the new drives at DISKCON JAPAN 2008, organized by The International Disk Drive Equipment and Materials Association (IDEMA), which will be held in Tokyo, Japan, from July 22 to 23, and at IFA 2008, one of the world's largest consumer electronics trade fairs, which will be held in Berlin, Germany, from August 29 to September 3.

The MK4058GSX uses an improved read-write head and enhanced magnetic layer to boost areal density to 477Mbit/mm<sup>2</sup> and achieve a capacity of 400GB on only two platters, the highest data density of any of Toshiba's 2.5-inch HDD. A further plus is that acoustic noise during data seek has been reduced by 2 decibels (dB), compared to the company's current top-of-the-line 320GB MK3252GSX, making operation almost inaudible. As a result, the new 400GB drive is ideally suited for noise-free playback of movies and music on notebook PCs and digital products. These advances are complemented by an improved energy consumption efficiency that makes the MK4058GSX approximately 20% more efficient than Toshiba's current top-of-the-line MK3252GSX.

The five other drives that Toshiba has added to its line-up take full advantage of a 7,200rpm rotation speed to boost performance. Compared to the current 200GB model (MK2049GSY), the 320GB MK3254GSY improves maximum internal data transfers rate by approximately 14% to support high-speed processing of high volume data, meeting demand for notebook and desktop PCs offering faster performance. The 320GB drives is also 37% more efficient than the MK2049GSY in terms of energy consumption efficiency. All of the drives, available in a line-up of 80, 120, 160, 250 and 320GB capacities, support an optional Free Fall Sensor function, that detects a falling HDD and parks the head before impact.

All the new drives comply with the European Union's RoHS directive

for eliminating use of six hazardous substances in electrical and electronic equipment, and the MK4058GSX is Toshiba's first halogen-free 2.5-inch HDD.

2.5-inch hard disk drives are now found in many and diverse applications, from desktop and mobile PCs to other digital consumer products. The market has a voracious appetite for larger data capacities, as more powerful networks and applications bring audio-visual capabilities to more products. Toshiba will sustain the industry's ability to meet customer needs by providing cutting-edge technologies that add to areal density, operating speed and overall drive performance.

Source: Toshiba

Citation: Toshiba Launches 400GB 2.5-inch HDD Introduces New Line-up of 7,200rpm Drives (2008, July 16) retrieved 23 April 2024 from <https://phys.org/news/2008-07-toshiba-400gb-inch-hdd-line-up.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.