

Hitachi Ships Quarter-terabyte Laptop Hard Drive

Hitachi Global Storage Technologies is today announcing volume shipment of the industry's highest-performing and lowest power-consuming laptop hard disk drive at a quarter terabyte of capacity.

The Travelstar 5K250 hard drive combines the fastest application performance in PCMark testing with the best power-efficiency of any 250 gigabyte (GB) 5400 RPM drive in its class.

The newest 5400 RPM 2.5-inch hard drive from Hitachi – developed for notebook PCs, external storage devices, gaming consoles and other mobile devices – also features a host of category-leading features including 400G shock protection, quiet acoustics and optional Bulk Data Encryption for hard-drive level data security.

The Travelstar 5K250 hard drive offers 56 percent more capacity, a 23 percent shock improvement and an 8 percent overall application performance boost over its predecessor, the Travelstar 5K160 hard drive. According to the PCMark05 Benchmark, the Travelstar 5K250 hard drive offers 10 to 25 percent faster application performance than competing 5400 RPM drives.

“Today’s notebook PC users are sophisticated and expect high returns on investment. The Travelstar 5K250 with ultra-high capacity of a quarter-terabyte enables our notebook users to create or access multimedia files with speed, assuring enhanced efficiency,” said Campbell Kan, Vice President of Mobile Computing Business Unit, Acer Inc. “Acer is partnering with top-tier suppliers that help Acer accomplish its goal of designing empowering technologies that improve people’s lives at work or at leisure.”

Hitachi will also offer an enhanced-availability version, the E5K250, which is designed for applications needing around-the-clock access in lower transaction environments, such as blade servers, network routers, point-of-sale terminals and video surveillance systems.

“The Travelstar 5K250 was built from the ground up for notebook PC users who demand high capacity, ruggedness, speed and power efficiency,” said Shinjiro Iwata, chief marketing officer, Hitachi Global Storage Technologies. “With all of the improvements we’ve integrated into the 5K250, we are confident Hitachi will continue to maintain its leadership position in the 2.5-inch hard disk drive space.”

Bulk Data Encryption from Hitachi is a hard-drive level data security mechanism that essentially puts users’ data under lock and key for virtually impenetrable protection. It is offered as an option on the Travelstar 5K250 hard drive as well as the recently announced, Travelstar 7K200 hard drive, which is the 7200 RPM, high performance model of the product line.

Previously, data on a hard drive could be protected either through software-based encryption or a system-level password. However, hard-drive level encryption provides a higher level of benefit than both these options by offering better performance than software-based encryption and a higher level of security than system password protection.

In Bulk Data Encryption, data is scrambled using a key as it is being written to the disk and then descrambled with the key as it is retrieved. Thus, data encryption at the hard-drive level is generally considered a more sophisticated approach to securing users’ data.

Another benefit to hard-drive level security is the data-erasing process. Today, hard drives must either be

physically destroyed or the existing data must be written over and over before it can be safely discarded without fear of data piracy or identity theft. Bulk Data Encryption makes data-erasing unnecessary. By simply deleting the encryption key, the data on the hard drive is rendered unreadable and, thus, safe from prying eyes.

With the rise in notebook theft and the relative ease in which software-based password security can be compromised, Hitachi's Bulk Data Encryption is an essential component for on-the-go notebook users.

Source: Hitachi

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