

Flash Storage

TDK launches highly reliable SSDs with 3D NAND flash memory

- SSDs use GBDriver GS2, TDK's proprietary controller, supporting serial ATA
- Equipped with 3D NAND (TLC or pSLC) flash memory
- New generation includes five series, in six total sizes

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TDK Corporation (TSE:6762) announces a new generation of flash storage products with five series, available December 2020, optimized for industrial, medical, smart grid, transportation and security applications. All five series use GBDriver GS2, TDK's proprietary NAND flash memory control IC, which supports serial ATA.

As 3D flash memory technology advances, flash storage solutions with capacities over 1 TB are more widely used, but data reliability requirements continue to become more sophisticated. With flash storage integrated into edge devices in industrial equipment, and other IIoT devices mostly used to store OS or device applications, the demand has increased for highly reliable storage devices that also protect user data.

In addition to the auto refresh and data recovery features included in the existing GBDriver series, TDK's proprietary GBDriver GS2 features new ECC (LDPC) memory and strong RAID features, as well as significantly enhances data reliability. The lineup also provides a wide range of storage capacities, from 16 GB to 1.6 TB.

A standard feature of all five series is the internal power backup protection circuits, with 2D MLC NAND flash memory, and write protection with Unified Write Filter (UWF) for Windows 10. Power interruption tolerance is also enhanced with 3D TLC NAND flash memory.

The five series offer strengthened security features, including a new firmware anti-tampering feature, TDK's original anti-spoofing security feature, AES128/256-bit encryption, and ATA security, to protect users against falsification and the leakage of data stored in NAND flash memory.

Glossary

- IIoT: Industrial IoT

Main applications

- IoT devices such as information terminals and edge computing systems
- Industrial computers, factory automation (FA) equipment, railway and transportation service equipment
- Banking terminals, ticket-vending machines
- Medical and data analysis equipment

- Smart grid equipment
- Security terminals and other security equipment

Key Data

Product	Series
M.2 SSD Type 2280-D5-B-M / 2240-D5-B-M	SNT2A series
CFAST card	CAT2A series
2.5-inch SSD	SDT2A series
Half Slim SSD	SHT2A series
mSATA SSD	SMT2A series

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 people worldwide.

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