



## Press Release

### **KIOXIA NVMe SSD Cryptographic Module to Achieve FIPS 140-3 Level 2 Validation**

*KIOXIA CM7 Series Enterprise SSD Controller Cryptographic Module Meets Latest Security Requirements of NIST Cryptographic Module Validation Program*



**Germany, Düsseldorf, 11 December 2024** – [KIOXIA Europe GmbH](#), today announced that the cryptographic module used in KIOXIA [CM7 Series](#) PCIe 5.0 NVMe Enterprise SSDs has been validated to meet Federal Information Processing Standard (FIPS) 140-3, Level 2 for cryptographic modules.

The FIPS 140-3 standard specifies a set of security requirements of the Cryptographic Module Validation Program administered by the National Institute of Standards and Technology (NIST), with this set of standards, higher levels of protection indicate drives that are progressively more resistant to attack. KIOXIA has validated that the cryptographic module in its SSDs maintains the confidentiality and integrity of the data being protected.



Companies and Government/Public agencies may prefer or may now be required to deploy newer, more stringent government encryption standards – which SSDs validated to FIPS 140-3 requirements would meet. Compared to the previous FIPS 140-2 requirements, 140-3 provides higher standards for SSDs, including a stronger authentication method and updated implementation guidance.

KIOXIA brought PCIe 5.0 technology to server and storage applications with the KIOXIA CM7 Series NVMe SSD. Targeted at enterprise applications and use cases – including artificial intelligence, high-performance computing, online transaction processing database, and data warehousing – KIOXIA CM7 Series drives bring enterprise performance, reliability and security to data center servers and storage.

KIOXIA CM7 Series SSD Key Features include:

- PCIe 5.0 compliant NVMe SSDs in 2.5-inch<sup>1</sup> and E3.S SSD form factors
- Dual and single-port support
- Read-intensive and mixed-use endurance
- Capacities from 1.6 terabytes (TB) to 30.72 TB (15.36 TB in E3.S form factor)
- Security options include: sanitize instant erase (SIE)<sup>2</sup>, TCG Opal self-encrypting drive (SED)<sup>3</sup> and SED utilising FIPS 140-3 Level 2 module

"Keeping data secure is crucial for businesses big and small, and sticking to the toughest security standards is essential for any kind of storage solution," said Paul Rowan, Vice President and Chief Marketing Officer of the Memory and SSD Business Units at KIOXIA Europe GmbH. "We're dedicated to pushing the boundaries of security by ensuring our customers can rely on the highest level of storage security measures we have in place for the European Market."

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**Notes:**

1: "2.5-inch" indicates the form factor of the SSD. It does not indicate the drive's physical size.

2: SIE optional model supports Crypto Erase, which is a standardized feature defined by the technical committees (SCSI) of INCITS (the InterNational Committee for Information Technology Standards).

3: SED optional model supports TCG Opal and Ruby SSCs. It does not support some features of TCG Opal SSC.



Definition of capacity: KIOXIA Corporation 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 =  $2^{30}$  bytes = 1,073,741,824 bytes and 1TB =  $2^{40}$  bytes = 1,099,511,627,776 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, and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

Security optional models are not available in all countries due to export and local regulations.

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## **About KIOXIA Europe GmbH**

KIOXIA Europe GmbH (formerly Toshiba Memory Europe GmbH) is the European-based subsidiary of KIOXIA Corporation, a leading worldwide supplier of flash memory and solid-state drives (SSDs). From the invention of NAND flash memory to today's renowned BiCS FLASH™ 3D flash memory KIOXIA continues to pioneer innovative memory solutions and services that enrich people's lives and expand society's horizons. The company's innovative BiCS FLASH™ 3D flash memory technology is shaping the future of storage in high-density applications, including advanced smartphones, PCs, SSDs, automotive and data centers.

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### **Contact details for publication:**

KIOXIA Europe GmbH, Hansaallee 181, 40549 Düsseldorf, Germany

Tel: +49 (0)211 368 77-0

E-mail: [KIE-support@kioxia.com](mailto:KIE-support@kioxia.com)

### **Contact details for editorial enquiries:**

Lena Hoffmann, KIOXIA Europe GmbH

Tel: +49 (0) 211 36877 382

E-mail: [lena1.hoffmann@kioxia.com](mailto:lena1.hoffmann@kioxia.com)

# KIOXIA

**Issued by:**

Birgit Schöniger, Publitek

Tel: +49 (0)172 617 8431

E-mail: [birgit.schoeniger@publitek.com](mailto:birgit.schoeniger@publitek.com)

Web: [www.publitek.com](http://www.publitek.com)