MARKET UPDATE

KINGSTON CORPORATE CHANNEL NEWSLETTER

QUARTER 4 | 2025

Kingston TECHNOLOGY
BUILT ON COMMITMENT

Channel Updates

DRAM

- **DDR4:** Despite softer consumer demand, prices will be strengthened due to lack of server supply
- **DDR5:** Supply will tighten significantly due to recent datacenter and hyperscale demand, which will pull pricing up for both PC and SV

FLASH

- **NAND Market Q4 2025:** Generative AI demand has sky rocketed recently, leading to severe shortage on HDDs. As such, CSPs have drastically increased their demand for SSDs, leading to NAND flash price increases (~5 -10% for Q4 2025) and expected shortages. Kingston A400 and NV3 SSDs will remain on allocation through the year, as we continue to monitor our supply and market demand.

Fast and reliable storage for servers and Data Centers

Kingston's Enterprise NVMe and SATA 3.0 Data Center SSDs are engineered for consistent high IOPS performance through strict QoS requirements and extensive testing.

Our server and data center SSDs offer reliable, fast storage, meeting tough quality standards. Kingston stands out with responsive support designed to boost your efficiency and optimize business capacity.

DC2000B PCIe 4.0 NVMe M.2 SSD

Features

- PCIe 4.0 NVMe Gen 4x4 performance
- Hardware-based power loss protection
- Latency and IOPS consistency
- Designed for data center environments

DC3000ME PCIe 5.0 PCIe 4.0

Features

- Enterprise PCIe 5.0 performance
- Optimal storage and efficiency
- On-board power loss protection (PLP)
- AES 256-bit encryption

more ››

DC600M Series 2.5" SATA Enterprise SSD

Features

- Designed for data center environments
- Latency and IOPS consistency
- Capacities up to 7.68TB[1]
- Hardware-based power loss protection
- AES 256-bit Encryption with DC600ME

Learn more about Kingston server memory and storage solutions at Kingston Technology.

Why Hardware Encryption is Essential for Protecting Healthcare Data

When it comes to protecting healthcare data, not all encryption solutions are created equal. Hardware-based encryption offers superior protection compared to software-based alternatives, particularly against sophisticated attacks and tampering attempts. This becomes especially key when transferring sensitive data on external drives.

Modern hardware-encrypted solutions, such as the Kingston IronKey product line, offer robust security features. The **Kingston IronKey Vault Privacy 50** USB drive, with its FIPS 197 certification provides **protection against BadUSB** through digitally signed firmware and includes brute force attack prevention.

For larger storage needs, the **Kingston IronKey Vault Privacy 80** External SSD offers FIPS 197 certified XTS-AES 256-bit encryption with capacities up to 7.68TB. Its OS-independent design and touch screen interface make it ideal for secure data storage and transfer in healthcare settings. It is especially useful for small to medium facilities as it can provide an air-gapped backup that can protect against ransomware, and lead to faster recovery from any disruption.

Steps for Protecting Patients' Data

While the decreased cost of data breaches in healthcare might suggest progress, the industry must maintain vigilance in implementing comprehensive cybersecurity measures. The protection of sensitive patient information requires a multi-faceted approach combining:

- Strong **hardware encryption** for data storage and transfer
- Regular **staff training on security practices** and establishment of cybersecurity hygiene
- Comprehensive planned security strategies rather than ad hoc solutions
- **Prompt compliance** with evolving regulations
- Investment in **specialized cybersecurity expertise** to address the skills gap in the industry

By taking these steps, healthcare organizations can better protect their patients' data and maintain the trust essential to providing effective care. Protect your healthcare data with the right encryption. Get expert advice from Kingston's **Ask an Expert** team.

Learn more about Healthcare Data Breaches: A Persistent Threat Despite Cost Reductions at Kingston Technology.

1. Some of the listed capacity on a Flash storage device is used for formatting and other functions and thus is not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. For more information, go to Kingston's Flash Memory Guide.

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