

Engineered for non-disruptive innovation



Cyber resilient to the FlashCORE

In today's data-driven world, business data storage requirements are actively increasing alongside global cyber threats.

The IBM FlashSystem® 5300 all-flash data platform provides cyber-resilient, intelligent, and affordable data storage with long-term efficiency and sustainability capabilities to optimize the performance of an organization's critical business workloads.

A cost-efficient and high-performance solution

IBM FlashSystem 5300 is designed to accelerate a wide range of enterprise deployments with bare metal, virtualized, or containerized servers. Leveraging IBM Storage Virtualize, IBM Storage Insights AIOps capabilities, and end-to-end NVMe protocols, these systems bring the performance and functionality needed for almost any workload, delivering a lot more work using fewer drives and rack space than traditional SAS or even traditional flash systems, with as much as 1.8 petabytes of effective capacity in only one rack unit¹.

Cyber-resilient to the core

IBM FlashSystem 5300 provides advanced capabilities that can help maximize data protection. Designed to address rising cyber threats with high-performance data encryption by isolating immutable data copies with Safeguarded Copy, and speeding recovery with IBM FlashSystem Cyber Vault and IBM Storage Defender.

The new technology enabled by FlashCore® Module 4 (FCM4) is designed to continuously monitor statistics gathered from every single I/O using machine learning models to detect anomalies like ransomware in less than a minute².

Simplified management

IBM FlashSystem 5300 is designed to be easy to use from the very start. The innovative user interface enables administrators to perform configuration, management, and service tasks consistently, vastly simplifying management and helping reduce the risk of errors.

It is built with IBM Storage Virtualize, which delivers a full range of industry-leading data services, such as dynamic tiering, IBM FlashCopy® management, and data mobility, among many other advanced data management features.

IBM Storage Insights provides organizations with an end-to-end view of storage health, long-term performance analytics, and capacity statistics for IBM FlashSystem 5300 and the surrounding storage infrastructure.

IBM FlashSystem 5300 is a powerful all-flash block storage platform that provides affordable, high-performance enterprise-grade functionality for businesses of all sizes. Unique IBM FlashCore Modules provide unparalleled density, cyber resiliency, endurance, and performance. Built with IBM Storage Virtualize and the AI-powered storage management and proactive support of IBM Storage Insights, IBM FlashSystem delivers consistent rich data services across on-premises, hybrid cloud, containerized, or virtualized environments.

To learn more, visit ibm.com/products/flashsystem-5300 or click [here](#) to see a summary of the technical specifications for this solution. You can also fill out our [contact form](#) to schedule a meeting with an IBM storage expert.

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¹ 1U control enclosure: 12 drives of 38.4TB each= 460.8 TB configured in a 9+Q+P+S DRAID-6 array, after RAID overhead and metadata provisioning, deliver 302.12TB of usable capacity, with a 3:1 compression and 2:1 deduplication ratio equal 1.81PB of effective capacity.

² Internal experimentation by IBM Research has demonstrated detection of ransomware within 1 minute of the ransomware starting its encryption process. This experiment was done on a FlashSystem 5200 with 6 FCMs with the 4.1 firmware load. The 5200 had 8.6.3 GA level software loaded. The host connected to the 5200 was running Linux with XFS Filesystem. In this particular case, the IBM ransomware simulator called WannaLaugh was used. Underlying system must be compatible with FCM4.1 and version 8.6.3 GA level software loaded in order to receive results obtained.

