InfiniFlash™ IF150 Platform

All-Flash Storage Platform for Big Data

Features

- **Massive capacity and density**
  – Up to 512TB in 3U chassis
  – 8TB InfiniFlash cards, up to 64 per chassis[1]

- **High, scalable performance**
  – Up to 2M raw IOPS[2]

- **Up to 12GBps throughput**

- **Enterprise class reliability, availability and serviceability**
  – Fully hot swappable, redundant components

- **Breakthrough storage economics**

Benefits

- **Fast access to data, opens new world of applications and services**

- **Scalable performance**

- **Simple to scale and manage**

- **Small footprint, low power and low operating costs**

- **Transforms global workloads, speeding time to market, innovation and competitive advantage**

With the growth of mobile, social, Big Data, and the Internet of Things, the quantity and variety of data has skyrocketed. The InfiniFlash platform from SanDisk® has been designed around the data storage requirements of an increasingly mobile workforce, social media, Big Data and analytics – while being targeted for hyperscale and cloud workloads. These workloads are also evolving and demanding massive scalability, extremely high levels of availability, and an agility in how IT resources are allocated and used.

The InfiniFlash IF150 – the newest member of the InfiniFlash family - delivers double the IOPS performance of the previous platform via upgraded 12Gbps SAS connectivity. These new performance levels bring the advantages of the InfiniFlash product family to a wider variety of applications, including high-performance computing (HPC) workloads.

Content Repository	Big Data Analytics	Media Streaming

Flash Innovation for New Workloads

The InfiniFlash all-flash storage platform empowers large-scale infrastructure and data center architects to deliver massive scale-out storage solutions. Stemming from decades of research and proven industry-leading SanDisk flash solutions, the InfiniFlash platform builds a path to next-generation software-defined storage architectures capable of supporting workloads with instant access to petabytes of data.

The Performance of Flash – The Economics of Traditional Storage

InfiniFlash provides effective dollar-per-gigabyte costs that are only slightly higher than those of traditional storage systems and total cost of ownership (TCO) that is as much as 80% lower.[3] Before InfiniFlash, conventional flash, even with cost-reducing technologies such as deduplication and compression, has just not been inexpensive enough to consider for use in many storage environments.

- Up to five times the density, minimizing the physical rack space required
- Up to five times the power efficiency, reducing both power and cooling costs
- Up to ten times greater reliability, ensuring lower downtime and reduced maintenance costs[4]
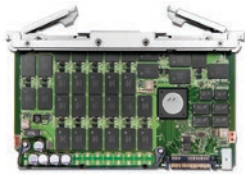
SanDisk®
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InfiniFlash

The InfiniFlash IF150 contains all the hardware necessary for enterprise and hyperscale storage for: up to 64 InfiniFlash cards in a 3U chassis, and 12Gbps SAS connectors for up to 8 servers.

The software available for the InfiniFlash platform provides flash-optimized scale out and management, along with large capacity block, file and object storage interfaces, easing administration and saving you time.
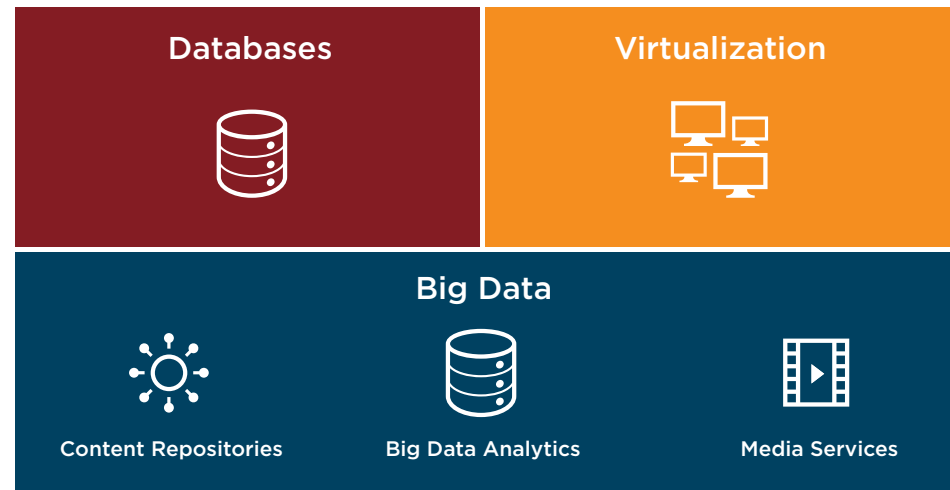
InfiniFlash IF150

InfiniFlash 8TB Flash Card

Best Value, Best Time to Insight

Data delivers value only when insights can be extracted; maximum value requires rapid time to insight. InfiniFlash platforms reduce the processing time for big data from weeks to hours. Compared to older technologies, the all-flash solution avoids complexity and scales to optimally extract value from the largest cloud and hyperscale environments. Rack-scale consolidation of storage enables TCO benefits through IT consolidation and independent growth of compute tailored to application requirements.

Designed for use with web-scale applications, InfiniFlash also includes development libraries for direct application integration, enabling advanced functions like triggers, message passing, and in situ data transformations. Although InfiniFlash can be used off-the-shelf at first release with block- or object-based applications, an included SDK enables customers to optimize their applications for use with InfiniFlash to obtain even better performance, efficiency, and TCO benefits if so desired.

InfiniFlash - Petabyte-scale Storage Without Compromise

Databases	Virtualization

Big Data		
Content Repositories	Big Data Analytics	Media Services

InfiniFlash for Virtualization

- Increase virtual machine (VM) density to get more out of every host and reduce hardware costs, application licensing costs, and operational expenses
- Solve the performance challenge of virtualization – such as randomization of data patterns – with high random IOPS performance and consistently low latency
- Scale virtualized workloads seamlessly as storage and compute needs grow

InfiniFlash for Databases

- Accelerate transactions and improve application performance
- Optimize IT investment - reduce hardware footprint, require fewer servers and fewer database software licenses (frequently the top line item cost for IT)

InfiniFlash for Big Data

- TCO better than traditional large capacity storage systems
- Enables high-velocity data capture, discovery, and/or analysis
- High IOPS low latency ideally suited for streaming media or content delivery networks

Available from SanDisk partners

Specifications subject to change without notice. 1TB – 1,000,000,000,000 bytes

1 490TB usable capacity.
2 Based on internal testing. Results and performance may vary according to configuration, usage, and broader system architecture.
3 IDC: "SanDisk Establishes the Big Data Flash Category with Its InfiniFlash Introduction", March 2015 by Eric Burgener.
4 Annual Failure Rate as compared to HDDs. InfiniFlash AFR based on internal testing. Results available upon request.

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951 SanDisk Drive | Milpitas | CA 95035 | USA

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