



InfiniFlash™

All-Flash Storage System for Big Data

Features

- **Massive capacity and density**
 - Up to 512TB in 3U chassis
 - 8TB InfiniFlash cards, up to 64 per chassis
- **High, scalable performance**
 - 780K sustained IOPS
- **Enterprise class reliability, availability and serviceability**
 - Fully hot swappable, redundant
- **Breakthrough storage economics**

With the growth of mobile, social, Big Data, and the Internet of Things, the quantity and variety of data has skyrocketed. InfiniFlash is a massive scale-out, all-flash storage system that provides boundless scale, efficiency, and resiliency for hyperscale and cloud workloads, dramatically reducing cost and complexity.



Benefits

- **Fast access to data, opens new world of applications and services**
- **Scalable performance**
- **Simple to scale and manage**
- **Low-cost management of Big Data**
- **Low power and operating costs**
- **Transforms global workloads, speeding time to market, innovation and competitive advantage**

Flash Innovation for New Workloads

The InfiniFlash all-flash storage system 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 data center architectures capable of supporting workloads with instant access to petabytes of data.

Future-Proofed Data Centers

The massive scale-out architecture of the InfiniFlash platform supports agile, robust, and easy scaling of stored content. Unlike traditional tiering, this single all-flash SanDisk storage platform makes it possible to scale capacity while delivering high quality of service with consistent, high performance to all applications. Data center managers can keep up with data growth without the complexities of classifying applications or compromising access speeds for applications.

Best Value, Best Time to Insight

Data delivers value only when insights can be extracted; maximum value requires rapid time to insight. InfiniFlash systems 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.



InfiniFlash

The InfiniFlash system contains all the hardware necessary for hyperscale storage for Big Data: up to 64 InfiniFlash cards in a 3U chassis, and SAS connectors for up to 8 servers.

The InfiniFlash operating system software is available to provide flash optimized scale out and management, providing large capacity block and object storage interfaces, easing administration and saving you time.

InfiniFlash System Product Specifications	
Capacity	
Maximum raw capacity	512TB ¹
Performance²	
IOPS	>780,000 IOPS
Throughput	7GB/s
Power and Connectivity	
Input voltage	100-240 VAC
Input frequency	47-63 Hz
Input current	12 Amps max
Power cords	2x IEC C14
Power	30W idle, 450W typical, 750W maximum
Connectivity: SAS 2.0 6Gb/s	8 SFF-8088 connectors; Future zero-downtime upgrade to SAS 3.0 12Gb/s
Reliability, Availability and Serviceability	
MTBF	1.5 million hours
Hot-swappable hardware	Expanders, fans, power supplies, flash cards
Fans	N+2 (Sustain any two fan failures)
Power Supplies	N+1 (Sustain any one power supply failure)
Expanders	N+1 (Sustain any one expander failure)
Compatibility	
Node OS	Ubuntu 14.04
Application Servers	All Linux distributions
Physical	
Flash Expansion Slots	64, 8TB flash card each
Height (3U) x Width x Length	5.2" (132 mm) x 17.72" (444.5 mm) x 31.5" (800 mm)
Fully Populated Weight	100 pounds (45kg)
Environmental Conditions	
Operating Ambient Conditions	5 to 40°C, 10% to 90% humidity non-condensing, 10,000 feet; De-rate 1°C per 1,000 feet
Non-Operating Ambient Conditions	-40 to 70°C, 5% to 95% humidity, 10,000 feet; User data retention not guaranteed
Transportation Temperature (Short Term)	-55 to 85°C, 5% to 95% humidity, 40,000 feet; User data retention not guaranteed
Shock and Vibe	
Certifications and Materials	WEEE, RoHS, and REACH

InfiniFlash Software Specifications	
Scalability	
Per cluster or namespace	10s - 100s of nodes
Maximum unique objects (per cluster or namespace)	1B per device group; no limits on device groups
Maximum replicas	10 per unique object
Total cluster maximum	15PB
Services and Protocols	
Cloud protocol access	RESTful API, Swift, S3 API
Block access	iSCSI
Snapshots	256
Data protection	Snapshots, configurable replicas, erasure coding
Disaster recovery	Geographic asynchronous replication of objects
Management	CLI, RESTful HTTP
Maximum storage zones (for protection)	64,000 per cluster or namespace

Contact Information

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For more information, please visit:

www.sandisk.com/enterprise

SanDisk®

At SanDisk, we're expanding the possibilities of data storage. For more than 25 years, SanDisk's ideas have helped transform the industry, delivering next generation storage solutions for consumers and businesses around the globe.

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¹ 490TB usable capacity.

² Based on internal testing. Test report available. Results and performance may vary according to system adoption, configuration and broader system architecture.

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

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