SolidFire Datasheet

Storage Built for the Next Generation Data Center

Scale-out, all-flash storage that's highly available and easy to control — all with guaranteed performance.

SolidFire Benefits

Consolidate
Reduce cost and complexity by safely consolidating mission-critical applications onto a single storage platform.

Automate
Increase productivity with deep infrastructure integrations.

Scale
Dynamically scale storage resources to meet business demands.

All with Guaranteed Performance

Why SolidFire
The agility, efficiency, and scalability benefits demonstrated from cloud computing infrastructure have raised the bar on expectations for IT service delivery. The pressure is on IT to:

- Rapidly deploy applications and service
- Provide more agile and scalable infrastructure
- Increase application performance and predictability
- Enable automation and end-user self service
- Raise operational efficiency and reduce cost

SolidFire is architected from the ground up to be the storage foundation of next generation data centers.

Key Element OS Features

Automated Management
- Automatic distribution and load balancing
- Comprehensive API
- Complete Management Integrations

Scale-out
- 10's of TBs to multiple PBs
- Non-disruptive scaling and no downtime
- Mix nodes in same cluster

Guaranteed Performance
- Allocate storage performance independent of capacity
- Manage performance in real-time without impacting other volumes
- Guarantee performance to every volume with fine-grain QoS settings

Global Efficiency
- Inline and post compression
- Always-on deduplication
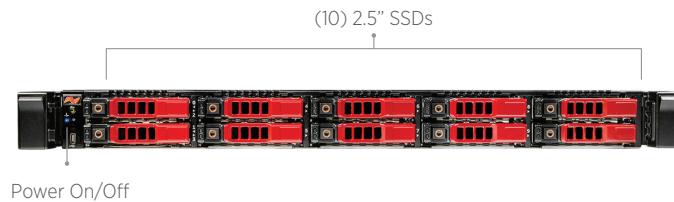- Global thin provisioning

Data Assurance
- Helix RAID-less data protection
- Real-time replication (Async and Sync)
- Integrated backup and recovery (cloud)

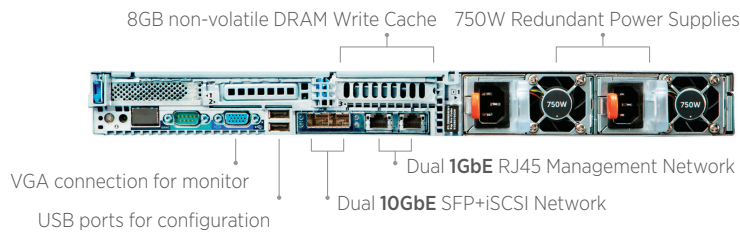## NetApp®

SolidFire Node Specifications

	SF2405	SF4805	SF9605	SF19210	FC Node
	Storage Node	Storage Node	Storage Node	Storage Node	Fabric Interconnect
Drives	(10)240 GB 2.5" SSD	(10)480 GB 2.5" SSD	(10)960 GB 2.5" SSD	(10)1.92 TB 2.5" SSD	N/A
System Memory / Read Cache	64GB	128GB	256GB	384GB	32GB
Raw Capacity	2.4TB / 2.1TiB	4.8TB / 4.3TiB	9.6TB / 8.7TiB	19.2TB / 17.4TiB	N/A
Effective Capacity*	5 to 10TB / 4.5 to 9TiB	10 to 20TB / 9 to 18.1TiB	20 to 40TB / 18.1 to 36.3TiB	40 to 80TB / 36.3 to 72.7TiB	N/A
Performance per node	50,000 IOPS	50,000 IOPS	50,000 IOPS	100,000 IOPS	N/A
Networking	Data - (2) 10GbE iSCSI SFP+, Mgt - (2) 1GbE RJ45	Data - (2) 10GbE iSCSI SFP+, Mgt - (2) 1GbE RJ45	Data - (2) 10GbE iSCSI SFP+, Mgt - (2) 1GbE RJ45	Data - (2) 10GbE iSCSI SFP+, Mgt - (2) 1GbE RJ45	Data - (4) 16GB FC, (4) 10GbE iSCSI SFP+, Mgt - (2) 1GbE RJ45
Average Watts	130W to 230W, depending on IO load	130W to 230W, depending on IO load	150W to 275W, depending on IO load	300W to 450W, depending on IO load	120W to 200W, depending on IO load

* SolidFire's Effective capacity calculation accounts for Helix data protection, system overhead and global efficiencies including compression, deduplication and thin provisioning. SolidFire customers typically achieve an effective capacity range of 5x to 10x the raw capacity depending on application workloads.

Front View

(10) 2.5" SSDs

Power On/Off

Back View iSCSI

8GB non-volatile DRAM Write Cache   750W Redundant Power Supplies

VGA connection for monitor

Dual **1GbE** RJ45 Management Network

Dual **10GbE** SFP+iSCSI Network

USB ports for configuration

Back View Fibre Channel

10FbE Cables   FC Cables   750W Redundant Power Supplies

VGA connection for monitor

Dual **10GbE** RJ45 Management Network

Dual **10GbE** SFP+iSCSI Network

USB ports for configuration