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.

NetApp 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 NetApp 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
Scalable
- Incrementally grow from 10's of TBs to multiple PBs
- Non-disruptive scaling with no downtime
- Mix node sizes within the same cluster

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

Automated
- Comprehensive APIs and mangement integrations
- Automatic data distribution and load balancing
- Always-on, inline storage efficiencies include global deduplication, compression and thin provisioning

Protected
- SnapMirror replication across the Data Fabric to FAS systems for disaster recovery
- Native integrated backup and recovery with real-time replication (Async and sync)
- Helix RAID-less data protection

■ NetApp®

NetApp SolidFire Node Specifications

Each SolidFire storage node includes the Element OS software and is available as an encrypted or non-encrypted appliance.

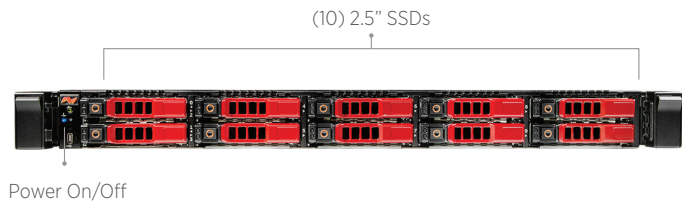|	SF4805	SF9605	SF19210	SF38410	FC Node
	Storage Node	Storage Node	Storage Node	Storage Node	Fabric Interconnect
Drives	(10) 480GB 2.5" SSD	(10) 960GB 2.5" SSD	(10) 1.92TB 2.5" SSD	(10) 3.84TB 2.5" SSD	N/A
System Memory / Read Cache	128GB	256GB	384GB	768GB	64GB
Raw Capacity	4.8TB / 4.3TiB	9.6TB / 8.7TiB	19.2TB / 17.4TiB	38.4TB/34.8TiB	N/A
Effective Capacity*	10 to 20TB / 9 to 18.1TiB	20 to 40TB / 18.1 to 36.3TiB	40 to 80TB / 36.3 to 72.7TiB	80 to 160TB / 72.6 to 145.4TiB	N/A
Performance per node	50,000 IOPS	50,000 IOPS	100,000 IOPS	100,000 IOPS	N/A
Networking	Data - (2) 10GbE SFP+ iSCSI Mgt - (2) 1GbE RJ45	Data - (2) 10GbE SFP+ iSCSI Mgt - (2) 1GbE RJ45	Data - (2) 10GbE SFP+ iSCSI Mgt - (2) 1GbE RJ45	Data - (2) 10GbE iSCSI SFP+ Mgt - (2) 1GbE RJ45	Data - (4) 16Gb FC, (4) 10GbE SFP+ iSCSI Mgt - (2) 1GbE RJ45
Average Watts	130W to 230W, depending on IO load	150W to 275W, depending on IO load	300W to 450W, depending on IO load	300W to 450W, depending on I/O load	120W to 200W, depending on IO load
Weight	17.2 kg (38 lbs)	17.2 kg (38 lbs)	17.2 kg (38 lbs)	17.2 kg (38 lbs)	16.3kg (36 lbs)

Two 4ft C13 to C14 power cords included per node (storage nodes and FC nodes). While NetApp provides one power cord type and length with shipment, customers can procure the power cords of their choice from outside vendors.

* 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 usable capacity depending on application workloads.
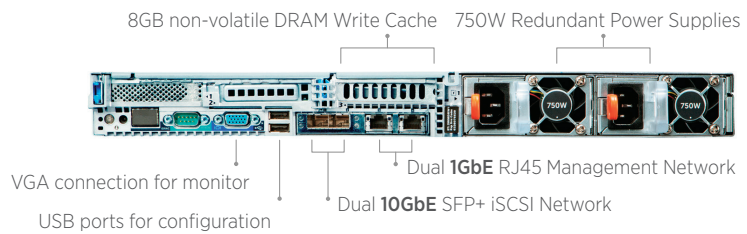
About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com. #DataDriven

Front View

(10) 2.5" SSDs

Power On/Off

Back View iSCSI

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

Dual **1GbE** RJ45 Management Network

VGA connection for monitor

Dual **10GbE** SFP+ iSCSI Network

USB ports for configuration

Back View Fibre Channel

Dual **10GbE** SFP+ iSCSI Network   FC Cables   750W Redundant Power Supplies

VGA connection for monitor

Dual **1GbE RJ45** Management Network

USB ports for configuration

Dual **10GbE** SFP+ iSCSI Network