



## Datasheet

# NetApp SolidFire

The storage foundation for your cloud infrastructure

### Key Benefits

#### Independent Scale

- Add capacity and performance resources independently
- Grow from tens of terabytes to multiple petabytes
- Decrease administrative time by 92% with nondisruptive scaling and no downtime

#### Constant Performance

- Guarantee application performance to thousands of apps simultaneously
- Manage performance in real time without affecting other volumes
- Reduce cost and complexity by consolidating workloads onto a single storage platform

#### Automation Integrations

- Use simple, comprehensive REST-based APIs and management tools
- Shrink repetitive administration tasks by 67%
- Achieve up to 10 times data reduction with always-on global deduplication, compression, and thin provisioning

### Your Hybrid Cloud Foundation

Public cloud has changed the game in enterprise IT, raising the bar for the experience that users expect when running existing apps or developing new ones. Public cloud offers the services that developers need, it's easy for the organization to get started with minimal up-front investment, and apps can be rapidly scaled up or down on demand. However, as good as public cloud is, on-premises data centers aren't going anywhere. Private clouds on the premises can enable IT leaders to effect powerful changes quickly, overcoming internal hurdles to public cloud adoption. They also address regulatory compliance and privacy issues, ensure availability for enterprise apps and architectures, and often deliver better long-term economics.

What organizations need is a fast-paced, powerful, modernized IT environment that can deliver the best of both worlds—public cloud and data center—with a hybrid cloud environment. The NetApp® SolidFire® all-flash storage system is architected for rapidly transforming environments. As the foundation of your private cloud infrastructure, SolidFire enables independent scaling, consistent performance, and automation integrations, giving your infrastructure the flexibility and consistency to scale as a service provider. SolidFire helps you to get closer to the speed and simplicity of enterprise in the cloud while exceeding the demands of keeping your data on your premises.

### Fewer Headaches—More Customer Satisfaction

SolidFire simplifies how you grow your infrastructure, eliminating the pain and headaches of forklift upgrades. With the ability to mix nodes within a cluster, you can incrementally scale for performance or capacity, when your organization demands it—no resource planning or downtime required.

Powered by NetApp Element® software, your SolidFire system consistently delivers performance to hundreds of applications, even through boot storms and unplanned events. Each volume is configured with minimum, maximum, and burst IOPS values through the Element quality of service settings, ensuring uptime across all applications running on a consolidated system.

The Element management frameworks provide both an intuitive web-based UI and a robust REST-based API to automate every aspect of storage provisioning, management, and reporting. Its deep integration with industry-leading cloud, virtualization, and automation platforms minimizes development time and overhead so that you can deploy applications and self-service faster.

### **Keep Your Consolidated Workloads Secure at Every Level**

With Element software, you know that your data is secure. Simply authorize and authenticate users to your system and grant access with centralized user management. Manage access to volumes in a diverse environment with multiple tenants on hardware with multiple drive encryption options to ensure security at the hardware level. And control network security by isolating traffic in flight to prevent volume visibility between different tenants' data. You can rest easy knowing that your infrastructure provides enterprise-ready security.

### **Unleash the Power of Your Data to Achieve a New Advantage**

Leading organizations across every industry are building data fabrics to strategically address today's complex IT challenges: modernizing and simplifying IT to accelerate critical applications, building private cloud to gain speed and agility, and fueling data-driven innovation on their choice of clouds. Organizations that are doing any of these things with NetApp are on their way to building their unique data fabric. The data fabric is NetApp's strategy for simplifying and integrating the orchestration of data services for enterprise and cloud-native applications in any combination, across hybrid multicloud environments, to respond and innovate more quickly because their data is accessible from both on-premises and public cloud environments. Integration with the data fabric allows SolidFire to provide data services, including file services, through NetApp ONTAP® Select, object services through NetApp StorageGRID®, replication services through NetApp SnapMirror®, data visibility through NetApp OnCommand® Insight, and backup and recovery services through NetApp Cloud Backup.

### **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](http://www.netapp.com). #DataDriven

## NetApp SolidFire Node Specifications

Each SolidFire storage node includes Element software and is available as an encrypted or unencrypted appliance.

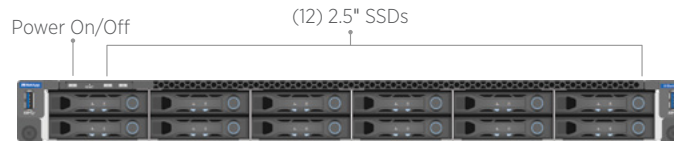
	H-610S-1	H-610S-2	H-610S-2F	H-610S-4
	1U storage node*			
Drive Capacity	(12) 960GB	(12) 1.92TB	(12) 1.92TB	(12) 3.84TB
System Memory/Read Cache	256GB	512GB	512GB	704GB
Encryption	SED/NSED	SED/NSED/FIPS	FIPS	SED/NSED
Raw Capacity	11.52TB	23.04TB	23.04TB	46.08TB
Effective Capacity**	19.64TB	39.28TB	39.28TB	78.57TB
Performance per Node	100,000 IOPS			
Networking	Data—(2) 25GbE iSCSI SFP28 Management—(2) 1GbE RJ45			
Power (Watts)	353.1W to 385.7W, depending on I/O load	393.1W to 425.7W, depending on I/O load	393.1W to 425.7W, depending on I/O load	423.1W to 455.7W, depending on I/O load
Weight	18.37kg (40.5lb)			

\*Available as encrypted or unencrypted system. Unencrypted model numbers are H610S-1-NE-P, H610S-2\_NE-P, and H610S-4-NE-P

Two 1.5 meter C13 and C14 power cords included per node. Although NetApp provides one power cord type and length with shipment, customers can procure the power cords of their choice from outside vendors

\*\*SolidFire effective capacity calculation accounts for SolidFire 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. Effective capacity is based on 4:1 storage efficiency ratios with the maximum number of SSDs installed. The actual ratio may be 10:1 or higher, depending on workloads and use cases

### Front View



### Rear View

