

Highlights:

- **Ultimate Flexibility**
 - **Any environment:**
DAS, SAN and NAS
 - **Any operating system:**
Linux, Mac, Unix, Windows
 - **Any application:**
Internet services, email, video applications, rendering, departmental storage consolidation, database, etc.
 - **Any Storage Tier:**
Intermix high performance SAS & high capacity SATA in the same system
- **High Capacity**
 - Up to 120TB with SATA drives
 - Up to 54TB with SAS drives
 - Up to 60 drives in just 4U
- **High Performance**
 - For structured data up to 30,000 IOPS to disk
 - For unstructured data up to 2.0GB/s throughput
- **Data Protection**
 - RAID 5 and RAID 6
 - SATAAssure™ verifies data integrity on every read
- **High Scalability**
 - Grow from 2TB to 120TB
 - Reduce systems, floor space, power & cooling
- **Simple Management**
 - User friendly and intuitive interface
 - Local and remote management access
 - Field upgradable software and hardware



Datasheet

S2A6620 StorageScaler™ Appliance

Deliver True Enterprise Data Services with Outstanding Performance, Density, Reliability and Simplicity

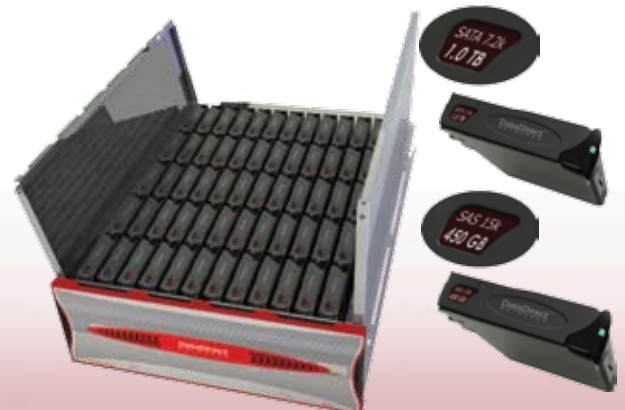
Challenge:

Applications, such as internet services, online transaction processing (OLTP), email, video-on-demand, video surveillance, and on-line video games, are extremely demanding on data performance, capacity, reliability and scalability. Growing businesses constantly face the challenge of delivering IOPS performance to database driven applications and throughput performance to the growing stores of unstructured content. Typically, each of these data patterns are unique and require multiple systems which increase complexity, capital expense and cost of ownership.

Solution:

For over ten years, DataDirect Networks has been providing storage solutions for high performance and high capacity applications. The S2A6620 leverages innovative capabilities from the award winning performance and reliability of the S2A product family. This appliance delivers the highest quality data services and eliminates the need for multiple systems, minimizing floor space, power consumption, complexity and management.

Active-active failover and extreme IOPS and bandwidth performance provide the enterprise reliability and quality of service your applications demand. Industry leading density houses up to 60 drives in a single 4U appliance, which easily scales up to 120 drives with an additional expansion unit(s). Intermix high-performance SAS and high-capacity SATA drives in the same system and realize tiered storage cost savings. Both RAID 5 and RAID 6 data protection are supported. Unique, field-proven features, such as SATAAssure™, Partial Rebuild, Background Formatting and Hot Spares, increase data reliability and availability. Hot swappable and redundant components are utilized to allow for quick upgrades and high quality of service. User friendly management tools simplify storage administration.





S2A6620 StorageScaler™ Appliance

Density

With the highest density in its class, the S2A6620 manages up to 60 drives in an ultracompact 4U form factor. As capacity grows, simply add an additional Storage-Scaler™ 6000 enclosure to manage up to 120 total drives.

Storage Tiering

Total storage cost is significantly reduced with the S2A6620 through the intermixing of high-performance SAS and high-capacity SATA drives in a single system. This capability allows you to deploy one storage solution for multiple applications, simplifying management and reducing total cost of ownership.

Data Protection

Lower your storage costs with a new ability to deploy SATA with the enter-

prise reliability required for Tier 1 applications. Data integrity is verified on every read operation with SATAAssure™. Silent data corruption is detected and corrected automatically and transparently. Intelligent drive diagnostics and repair mechanisms minimize full drive rebuilds by correcting only the portion of the drive requiring repair. Select from high performance RAID 5 or the double parity protection of RAID 6 to safeguard data.

Availability

With redundancy everywhere and the highest quality components selected, the S2A6620 delivers high reliability and quality of service. Enterprise features, such as active-active failover, hot swappable components, dual storage managers, hot spares and field replaceable components such as drives, driver controller cards and power supply/cool-

ing modules are designed in the system to ensure maximum up time.

Scalability

The S2A6620 delivers up to 30,000 IOPS, 2.0GB/s of throughput and scales up to 120TB in capacity to keep pace with your business requirements. Upgrading to new features or improved performance is simple and easy, as firmware and storage management features are field upgradeable.

Manageability

The S2A6620 has an easy-to-use management interface which enables a flexible system configuration. Intelligent background formatting is revolutionary. This enables you to use the array immediately, eliminating the long wait times associated with deploying new storage or adding capacity. CLI, SSH and Telnet are provided to use for local and remote administration.

System Specifications:

Number of RAID Storage Managers	2 (active-active)
Maximum IOPS to disk	30,000
Throughput to disk	2.0GB/s
RAID Levels Supported	RAID 5, RAID 6
Maximum Number of Host Login	512
Maximum Number of LUNs	1024
Maximum Capacity per LUN	256TB
Cache	12GB
Maximum Disk Drives in Main Unit	60
Disk Drives	3-120
Maximum Expansion	1
Maximum Disk Drives in Expansion	60
Host-Side FC Ports	4xFC4/FC8
Redundant Hot Plug Power Supplies & Cooling Modules	2

Drives Specifications:

Maximum Raw Capacity	120TB (1TB SATA drives)
	54TB (450GB SAS drives)
Disk Drives Supported	500GB/750GB/1TB SATA drives
	146GB/300GB/400GB/450GB SAS drives

Dimensions

Height	7.0" (18 cm)*
Width	17.56" (45 cm)*
Depth (not include bezel)	37" (94 cm)*
(with bezel and Cable management arms)	42" (107 cm)*
Rack Height	4U
Weight (Without Drives)	120 lbs (54.5 kg)**

Environmental Specifications:

Voltage Range	220-250 VAC
Operating Environment	10° to 35° C
Frequency	47-63 Hz, 400Hz
Max Power (P/S Rating)	3904 W
Peak Power	1922 W
Average Power	1750 W
Max Cooling	13324 BTU/h
Peak Cooling	6560 BTU/h
Average Cooling	5973 BTU/h
Peak Airflow	200 cfm
Drive Size	3.5" (9 cm)*

*measurements rounded to nearest inch

**weight is approximate

Specifications, features and capabilities are subject to change