RAID INCORPORATED

DATA SHEET

XANADU 510 HYBRID STORAGE APPLIANCE

Maximize the Value of Big Data

Organizations continue to accumulate growing stores of data, requiring them to find new ways to maximize the value of Big Data. The Xanadu 510 is designed to simplify and deliver high performance computing storage at an optimized price/performance ratio. With companies and organizations increasing their IT infrastructure to accommodate Big Data and Analytics at record magnitudes, it is imperative that their storage systems are appropriately sized. Therefore, choosing the right platform is critical for data efficiency.

Accelerate Time to Results

Because of its proficiency, the system drastically reduces the time spent on a task, thus resulting in reduced operating costs. The Xanadu 510 will allow your business to get more done in a workday than ever before, allowing you to maximize your company's potential, growth, and earnings. Additionally, the new X510 enables data to be archived in the cloud to save, distribute globally, and keep safe during disaster recovery.

Modular Configurations

The Xanadu 510 is a 4U modular hybrid Big Data appliance that delivers 20 GB/s of raw bandwidth. Redundancy to applications and data is achieved through high performance dual controllers. At entry level, you have the ability to add 90 drives in the modular base enclosure. Fully configured, you can add up to four additional enclosures.

Common Use Cases

The flexibility and capabilities of the X510 lends itself to a wide variety of applications:

- Artificial Intelligence
- Academic Research
- Bio-IT & Life Sciences
- TV & Live Streaming
- Defense & Intelligence
- Financial Services
- Government
- Oil and Gas
- Satellite Imagery

Benefits

- Combines the performance of flash with the economy of HDDs for lower TCO
- Data composition is analyzed in real time, providing peak performance for Big Data workloads
- File system hooks to seamlessly migrate data to the cloud
- With scalability, organizations have the luxury to start small with a pay-as-you-grow system.
- Single intuitive pane of glass to monitor and manage 10s to 100s of systems
- Up to 90 drives in base enclosure. Additional drives per added 4U enclosure allows for minimized rack space, power and cooling
- Potential exposure of sensitive data is eliminated with data-at-rest encryption

XANADU 510: HYBRID STORAGE APPLIANCE

Dimensions`	Height: 4RU Rack Mount 7” (178 mm) Width: 19” rack (482.6 mm) Depth: 46.06” (1170 mm) Weight: Approximately 140 lbs (63 kg) without drives installed; Approximately 295 lbs (134 kg) with 90 drives
System -+ Features	Active/Active Storage Controllers Declustered RAID (DCR) supports erasure coding schemas: Raid 6 8+2, 4+2 Raid 5 8+1, 4+1 Raid 1 1+1 Large block sequential read performance up to 20GB/s Large block sequential write performance up to 16GB/s Small block I/O up to 700,000 IOPS per appliance
Active/Active Controller Storage Host Ports	4 x EDR InfiniBand 8 x FC16
Cache	64 GB per controller – mirrored, power-fail safe
Client Support	Windows, Linux and Mac OSX
Drive Support	90 x 3.5” drive slots support Enterprise-grade SSDs and HDDs
Supported Expansion Drive Enclosures	Ability Enclosure 4U, 90 drive enclosure (one, two, or four enclosures) Supported Drive Types: NL SAS or SSD
Safety	Agency Certifications Ul, cUl, CE, FCC
Standard Software Features	LUN mapping and masking, intelligent write striping, read QoS, port zoning detection, data integrity check/correction, interface options (SSH to CLI, web-based GUI, Python API), state change messages (via email, SNMP trap and syslog).
Optional Software Features	Data-At-Rest Encryption
Power/Cooling	Input Voltage: 200 to 240 VAC, 50/60 Hz Nominal Power: 1,250 W (empty); 2,330 W (max) Nominal Heat: 4,265 BTU/hr (empty); 7,950 BTU/hr (max) Power Supplies: 4 hot swappable, redundant Fan Modules: 5 hot swappable, redundant
Environment	Op Temp, Sea Level: 10-35 degC; Op Temp, 3000m: 10-28 degC; 20%-80% Humidity Range

About

RAID Inc. was founded in 1994 to deliver end-to-end performance-driven technical computing and storage solutions. The company has earned industry praise for providing platform agnostic technical guidance in high performance computing (HPC), big data, cloud and software-defined data centers—in the most efficient, reliable and cost effective manner. The world’s leading research facilities, government, life science, financial, healthcare, energy, and cloud service providers can leverage the our team of engineers’ extensive academic, research lab and commercial expertise that makes RAID Inc. a trusted industry leader. For more information, visit our website www.raidinc.com or call 1.800.330.7335.