

## XANADU 500 SERIES: 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 500 series 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.

Because of its proficiency, the system drastically reduces the time spent on a task, thus resulting in reduced operating costs. The Xanadu 500 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. With scalability, organizations have the luxury to start small with a pay-as-you-grow system. Additionally, the new series enables data to be archived in the cloud to save, distribute globally, and keep safe during disaster recovery.

The Xanadu 500 series has 3 base products: Xanadu 500 B (block level connectivity); Xanadu 500 G (Spectrum Scale appliance); and Xanadu 500 L (Lustre appliance).



## Benefits

- Modular platform allows organizations to scale as needed
- 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 seamlessly migrate data to the cloud
- Single intuitive pane of glass to monitor and manage 10s to 100s of systems
- Our massively scalable parallel file system appliances, Xanadu 500 G and Xanadu 500 L, allow for lower entry points, rapid deployment and lower TCO
- Up to 60 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

## Modular Configurations

The Xanadu 500 B is a 4U modular hybrid Big Data appliance that delivers 15 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 60 drives in the modular base enclosure. Fully configured, you can add up to four additional enclosures. This pay-as-you-grow system of scalability allows you to start small and scale as your requirements grow.

### Pay-As-You-Grow System



Entry Level



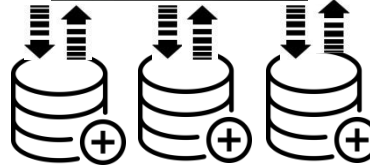
Fully Configured

## Cloud Enable Your Storage

For global collaboration and cost-effective archive.

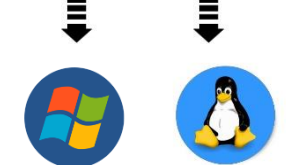
- Cloud. File system hooks to tier data to a public or private object cloud to share and disseminate information globally.
- Collaboration. Eliminate organizational storage silos while optimizing collaboration.
- Archive. Back up files safely to a public or private object cloud for disaster recovery.

### Xanadu 500 G / Xanadu 500 L



Big Data Processing

### Object



CIFS Access

NFS Access

## Parallel File System Appliances

The Xanadu 500 G and Xanadu 500 L appliances provide a modular foundation where you can start small and scale massively, as your performance and capacity requirements grow. Each appliance is integrated with either IBM Spectrum Scale or Lustre, has performance tuned and optimized storage and networking, and is cloud ready.

### Xanadu 500 G

Xanadu 500 G is an extremely versatile solution that can be configured as a parallel file system or as a NAS solution. This platform eliminates bottlenecks to achieve true parallelism and maximum application performance and creates a cost efficient pool of storage that scales to petabytes, simply and cost-effectively.



### Xanadu 500 L

Xanadu 500 L is a parallel file storage system appliance that combines next generation storage technology with the open-source Lustre file system. This product combines best-of-breed storage technologies with an easy to use appliance that delivers scalable, clustered storage performance.



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<b>Dimensions</b>	Height: 4RU Rack Mount 19" EIA0310 6.97" (177 mm) Width: 16.56" (420.6 mm) Depth without bezel and cable management arm 34": (863.6 mm) Depth with bezel and cable management arm 38": (965.2 mm) Weight: Approximately 135 lbs (61.3KG) without drives installed; Approximately 235 lbs (106.6 KG) with 60 drives
<b>System Features</b>	Active/Active Storage Controllers Raid 6 8+2, 4+2 Raid 5 8+1, 4+1 Raid 1 1+1 Large block sequential read performance up to 15GB/s sustained Large block sequential write performance up to 12GB/s sustained Small block I/O up to 450,000 IOPS per appliance, 300,000 IOPS sustained with SSD
<b>Active/Active Controller Storage Host Ports</b>	4 x 56Gb/s FDR InfiniBand Ports 8 x 8Gb/s Fibre Channel Ports 4 x 16Gb/s Fibre Channel Ports
<b>Cache</b>	32 GB per controller – mirrored, power-fail safe
<b>Client Support</b>	Windows, Linux and Mac OSX
<b>Drive Support</b>	Enterprise Class SSD up to 3.2TB, Performance SAS up to 1.8TB, and Capacity SAS drives up to 10TB60 in base unit Up to 396 drives in 20U with up to 4PB
<b>Supported Expansion Drive Enclosures</b>	Ability Enclosure -4U, 60 drives: up to 4 Ability Enclosure -4U, 84 drives: up to 4
<b>Safety</b>	Agency Certifications UL, cUL, CE, FCC
<b>Standard Software Features</b>	Intelligent Write Striping, Read QoS, LUN Mapping and Masking, Port Zoning Detection, Scriptable API, Web XML API, CLUI and Web GUI, Pager and E-Mail Fault Console with SNMP Notification
<b>Optional Software Features</b>	Data-At-Rest Encryption
<b>Power Requirements</b>	Input Voltage: 200 to 240 VAC, 50/60 Hz - 1865W Power supply redundant Average Power: 865W w/o drives, 1435W with 60 x 10TB 7.2K rpm SAS drives
<b>Environment</b>	Op Temp, Sea Level: 10-35 degC; Op Temp, 3000m: 10-28 degC; 20%-80% Humidity Range

Visit our website for more information: [raidinc.com/xanadu-500](http://raidinc.com/xanadu-500)

### 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](http://www.raidinc.com) or call 1.800.330.7335.