What Will You Do with All the Money You Save?

Aberdeen LLC's N49 Series eliminates the storage density problem and conserves valuable rack real estate while delivering maximum cost savings.

Today's data storage centers face an ever increasing dilemma when tackling the issue of a requirement to expand storage capacity with limited rack space or real estate available for expansion. In many data centers there is simply no vacancy, as rack space has reached its full capacity.

The total volume growth of corporate data generated by the world continues to grow from 0.36 zetabytes seen in 2010, to an expected 10.5 zetabytes by the year 2020. Every 14 months, worldwide corporate data stored doubles in growth. In addition, new corporate data is generated from a variety of sources including over 204 million new emails sent out every 60 seconds, 450 billion business transactions on the internet per month, 200 million Google queries per minute, and an expected 100 million new businesses will open each year. Furthermore, businesses around the world are keeping their archived data longer. Plus, file sizes continue to grow, and the amount of disk space and rack space required to retain files and documents is ever increasing.

Aberdeen's solution to this ever growing data storage requirement is to provide our customers with the customization options they demand, while reducing the amount of physical space required to store their data. We have reduced the acquisition cost for our customers who are seeking a better cost per TB, while providing completely customized solutions with the most density in the market. We deliver the best, highest capacity, most power efficient, and most reliable storage devices in the market today.

Aberdeen's recent advances in technology have enabled us to maximize storage density, and therefore, drastically reduce the amount of the rack space required for Aberdeen's more popular products. Our Petarack™ has seen a reduction from 37U to 17U of rack space for a full petabyte of high availability storage, while our NAS appliances have evolved from 256TB in 8U of rack space to 780TB in 4U. The latter is the subject of this paper's featured product.

The all new AberNAS N49 Series 4U NAS features Intel® Xeon® E5 v4 processors, 1TB maximum memory and 12Gbs/s SAS as standard features. The AberNAS N49 is top-loaded and double-sided, and it provides an incredible 78 hot-swap drive bays, all accommodating either 3.5" or 2.5" devices screwlessly mounted in its single 4U chassis.

- Highest HDD Density Rackmount Storage Server
- Toolless Drive Installation
- IPMI w/KVM Over LAN for Remote Server Management
- Support for up to 78 10TB HDDs (780TB)
- Intel E5-2600v4 Series Support
- 1TB Memory Support
- iSCSI Target Capable
- Two PCI-E 3.0 8x Slots
- Intel® I350 Dual Port Gigabit NIC
- Optional 10GbE Mezzanine(SFP+ or RJ-45)
- 3rd Generation OS featuring streamlined and intuitive web-based GUI
- RAID 0,1,5,6,10,50,60 Configurable
- Automatic drive insertion / Removal Detection and Rebuilding

No Additional Client Access Fees	No Hidden Fees on Hard Drives

With Aberdeen's N49 AberNAS you are offered your choice of operating system, either Linux or Windows Storage Server 2012 R2. 780TB of total capacity affords you the opportunity to expand your storage as your business grows. The N49 comes with its own built-in controller and there is unlimited client access, so there are never any additional fees for client access licensing. Its off-the-shelf enterprise level drives offer no hidden fees on drives.

With 12Gb/s SAS technology, Aberdeen provides a new performance class of storage tier that encompasses the full spectrum of server deployment from those with solid state drives to hyperscale datacenter scale-out architectures.

Aberdeen is pleased to offer you the confidence and peace-of-mind of knowing your NAS Operating System is protected. We have embedded our recovery feature into our AberNAS products so that it cannot be lost, corrupted, or repurposed. Restoring to factory defaults to recover from configuration mishaps is effortless. With this embedded feature, OS recovery to factory default OS image is available from a separate embedded flash memory, and allows quick and easy recovery from an OS drive failure or OS corruption.

When it comes to getting the most for your money with your data storage budget, the N49 outperforms its competition.

AberNAS N49 vs HP Equivalent*

	AberNAS N49		HP Equivalent
Storage	624TB (78 x 8TB Drives)		624TB (78 x 8TB Drives)
OS	Windows Storage Server 2012 R2		Windows Storage Server 2012 R2
Rack Space	4U	✔	7U (2U+5U)
Processor(s)	Dual E5-2630 8Core	✔	Single E5-2609 6Core
Memory	32GB	✔	16GB
Warranty	5 Years	✔	3 Years
Price	**$66K**	✔	**$167K**

*Aberdeen's AberNAS N49 (ABKTDEOBAN) is compared to the HP equivalent of the HPE StoreEasy 1650 Expanded 64TB SAS Storage (N9Y11A), HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller (726825-B21) , and HP D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle (M0T59A). Price comparision based on MSRP as of 6/23/2016.

Confidence and peace of mind for years to come.
With Aberdeen you can have complete confidence in the quality and reliability of our products. Since 2001, Aberdeen has proudly delivered our industry leading 5 Year Warranty with all of our fully configured rack mount servers and storage. We offer this with complete confidence in the unparalleled quality and reliability we deliver with every server and storage device.

Still not convinced our solutions are the best option for you?
Aberdeen is pleased to introduce you to our revolutionary server and storage purchasing paradigm, the Aberdeen Custom Assembled Rackmount Evaluation Service (CARES) program. With CARES, Aberdeen will provide a completely configured server and/or storage free for a 30 day trial assessment for all qualified customers.

In conclusion, Aberdeen will custom configure your server or storage product to your exact specifications. We will satisfy your demand for the best, highest capacity, most power efficient, and most reliable servers and storage in the industry.

If you are ready for us to help you with your next project, I invite you to take down our contact information and visit us online. We hope to have the opportunity to serve you soon!

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