



June 13-15, 2016

| Marriott San Mateo

| San Mateo, CA

MAXIMIZING

Storage Density

conserving *Valuable* rackspace

REAL ESTATE

Presented By
Chaz Stevens
Director of Marketing



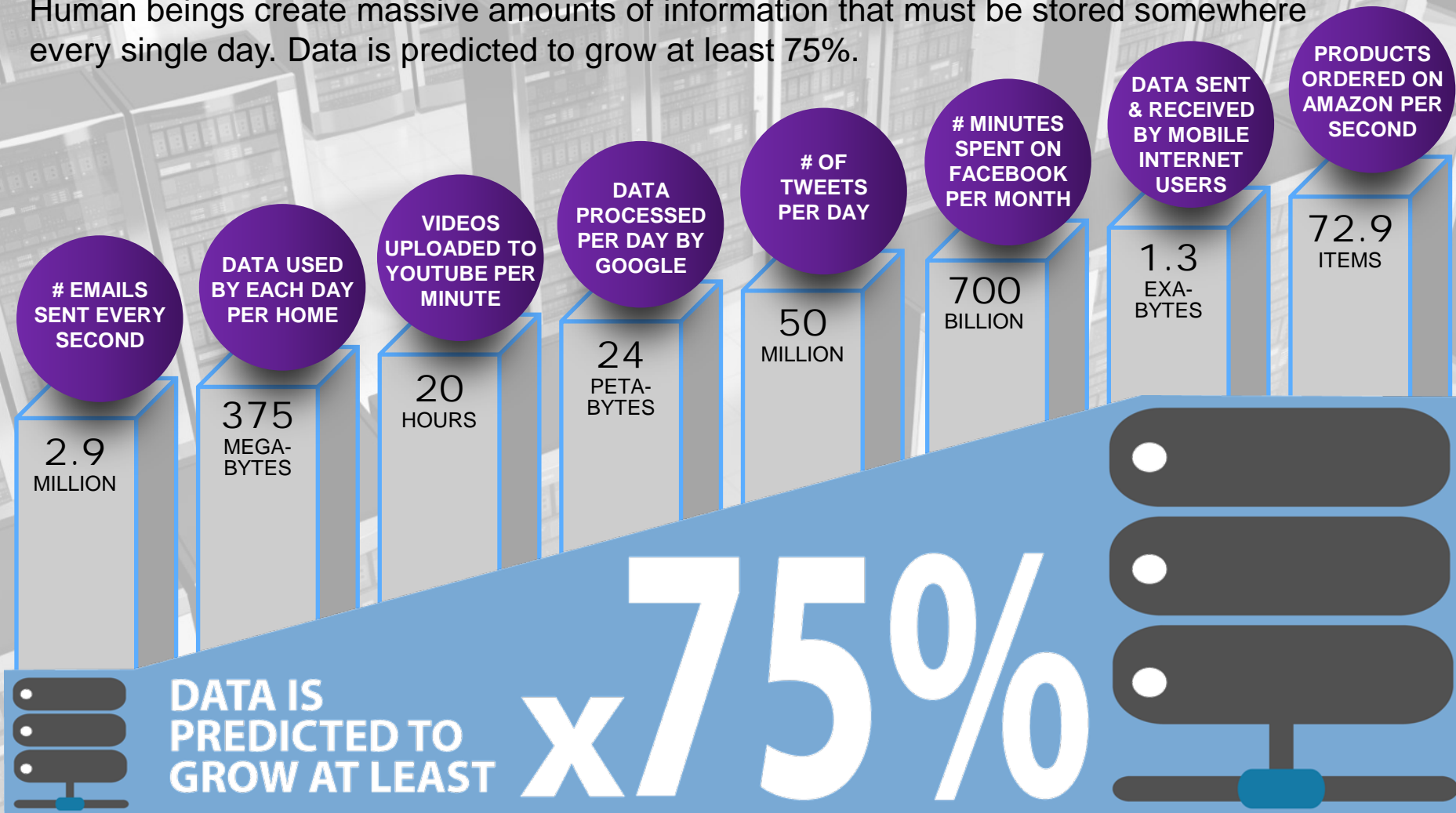
Solving the Storage Density Problem

Today's data storage centers face an ever increasing dilemma when tackling the issue of needing to expand storage capacity with limited rack space or real estate.



Data Demand Continues to Grow

Human beings create massive amounts of information that must be stored somewhere every single day. Data is predicted to grow at least 75%.



Data Demand Continues to Grow

STORAGE DENSITIES

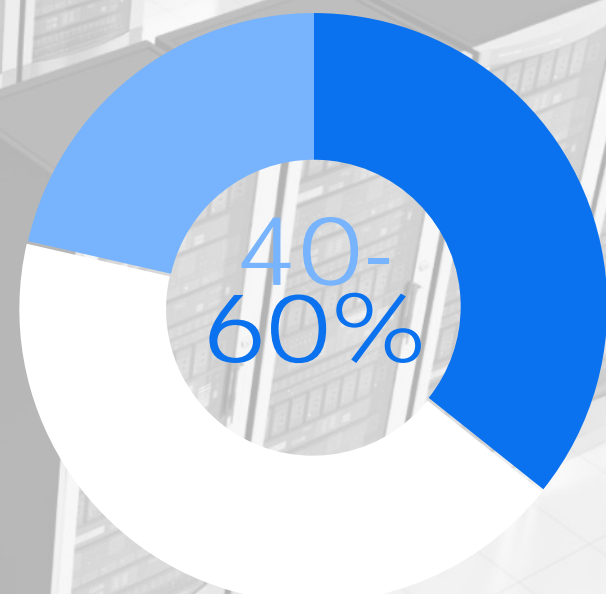
are growing each year by



enabling organizations to fit more capacity in less space

STORAGE CAPACITY DEMANDS

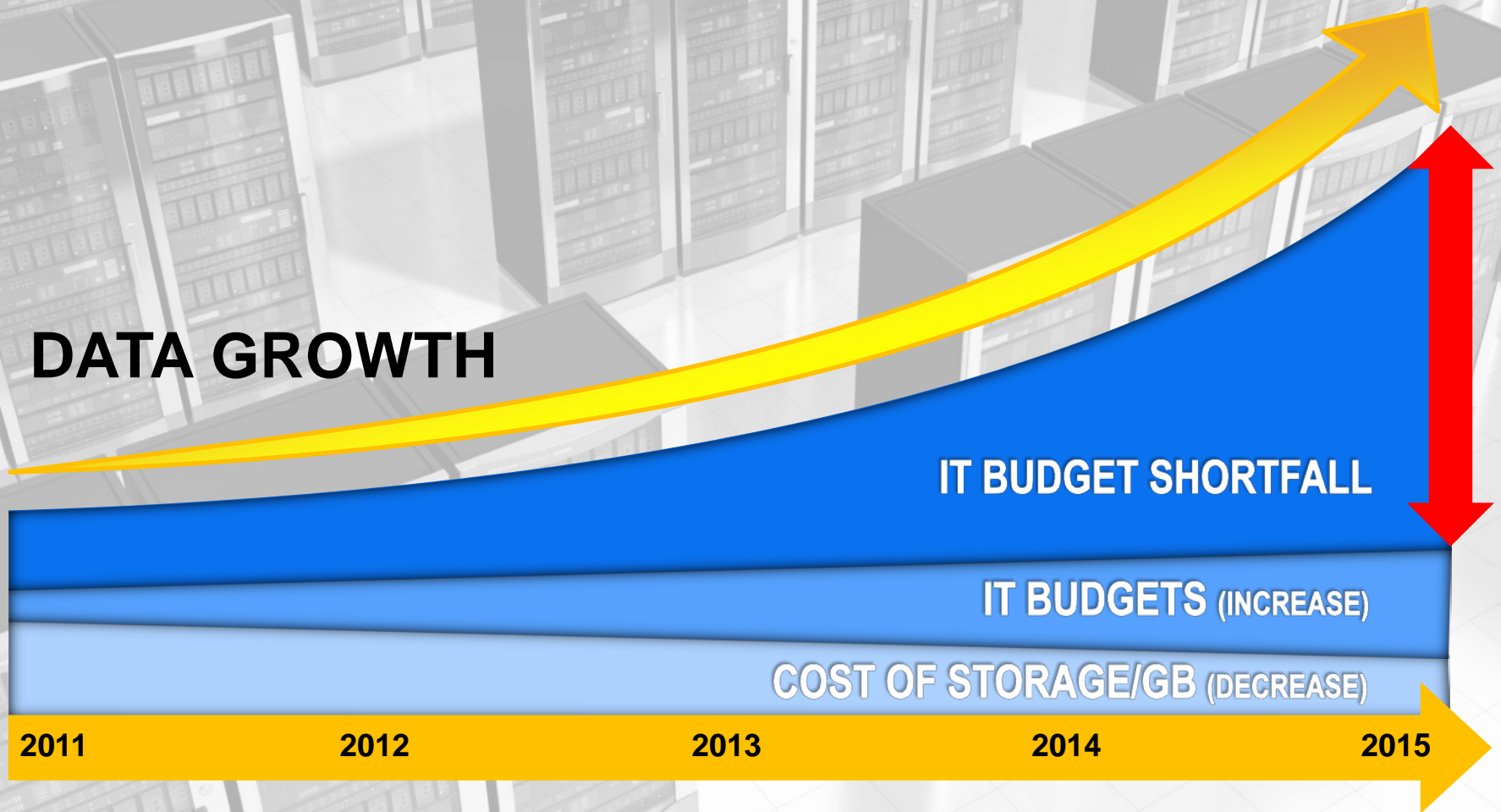
are growing each year by



Outpacing density growth

Data Demand Continues to Grow

DATA GROWTH



Data Demand Continues to Grow

DATA GROWTH

THE ABERDEEN EFFECT

IT BUDGET SHORTFALL

IT BUDGETS (INCREASE)

COST OF STORAGE/GB (DECREASE)

2011

2012

2013

2014

2015

Our Solution!

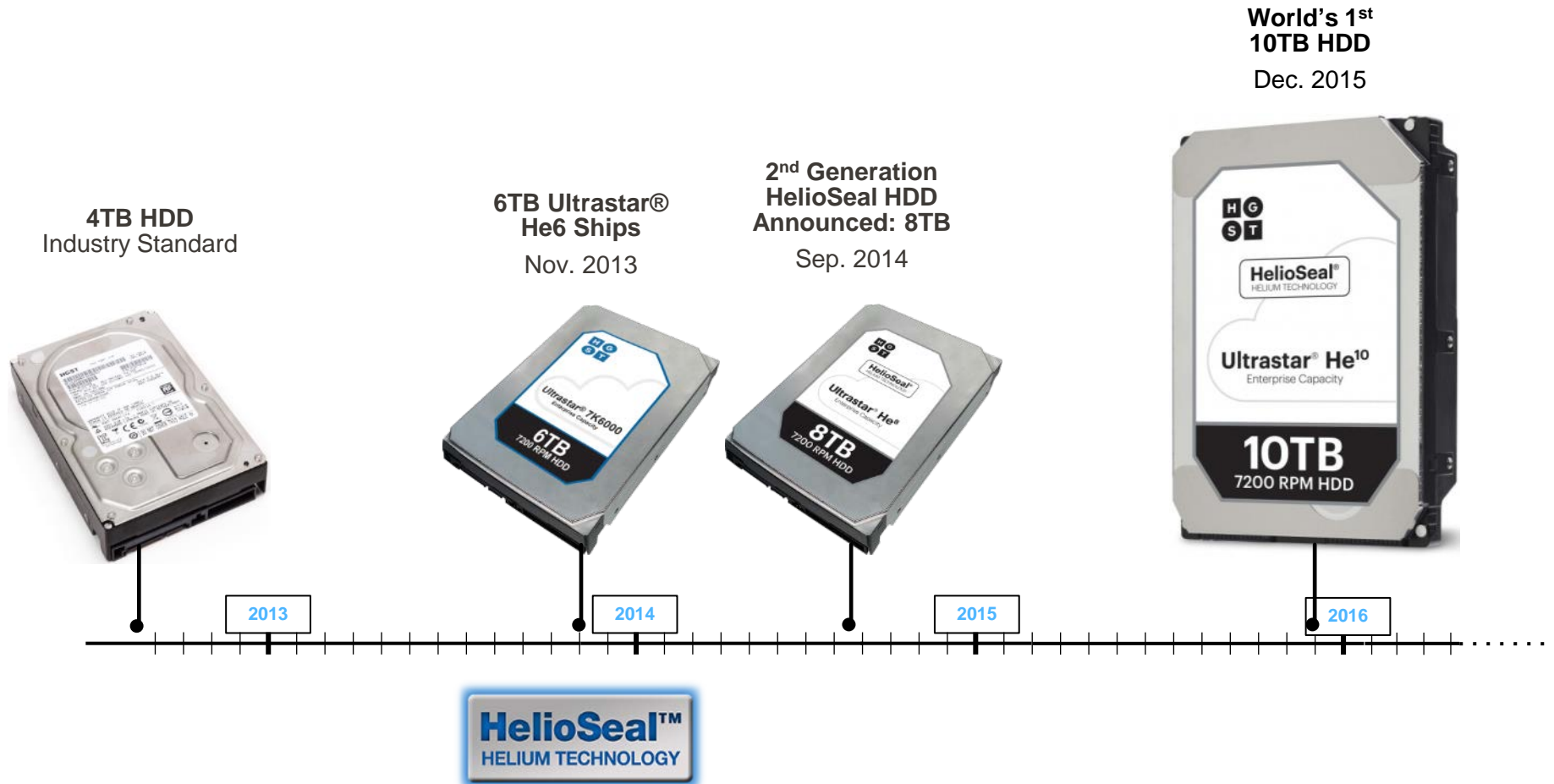
Aberdeen provides our customers with the customization options they demand, while reducing the amount of physical space required to store their data.



- Reduce acquisition cost for our customers who are seeking a better cost per TB.
- Provide completely customized solutions with the most density in the market.
- Provide the best high capacity, power efficient, and reliable storage in the market.

Enterprise HDD Capacity Increases

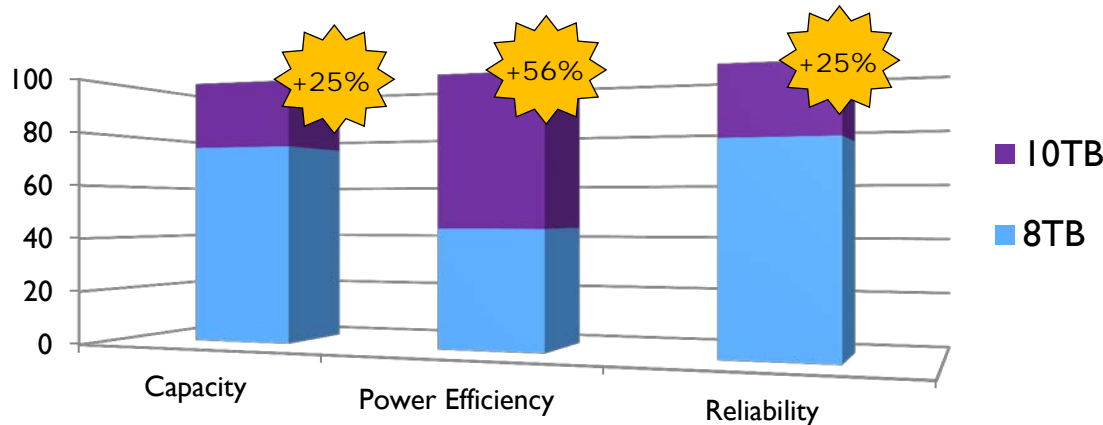
As drive capacity has increased over the past few years, the size of Aberdeen storage appliances has decreased, reducing the amount of rack space needed.



Aberdeen Now Shipping 10TB Drives

Aberdeen is pleased to announce its broad implementation of the new 10TB Ultrastar® He10, hermetically sealed, helium hard drive from HGST.

- **Highest Capacity:** 10TB HDD, drop-in ready for mainstream enterprise
- **Lowest Power:** 56% more efficient than air-filled drives for lower TCO
- **Most Reliable:** Best-in-class reliability rating of 2.5M hours MTBF



Applications/Environments

- Enterprise and data center applications where capacity density and power efficiency are paramount
- Massive scale-out high-density data centers (MSO)
- Bulk storage using object storage
- Centralized video surveillance
- Drop-in ready for all mainstream enterprise capacity applications

Dramatic Reduction in Hardware Size

From 1PB in 37U Rackspace to ¾PB in Only 4U of Rackspace.



AberNAS N49

The AberNAS N49-Series 4U 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 data storage hot swap bays in a 4U chassis.



FEATURED
PRODUCT

AberNAS N49

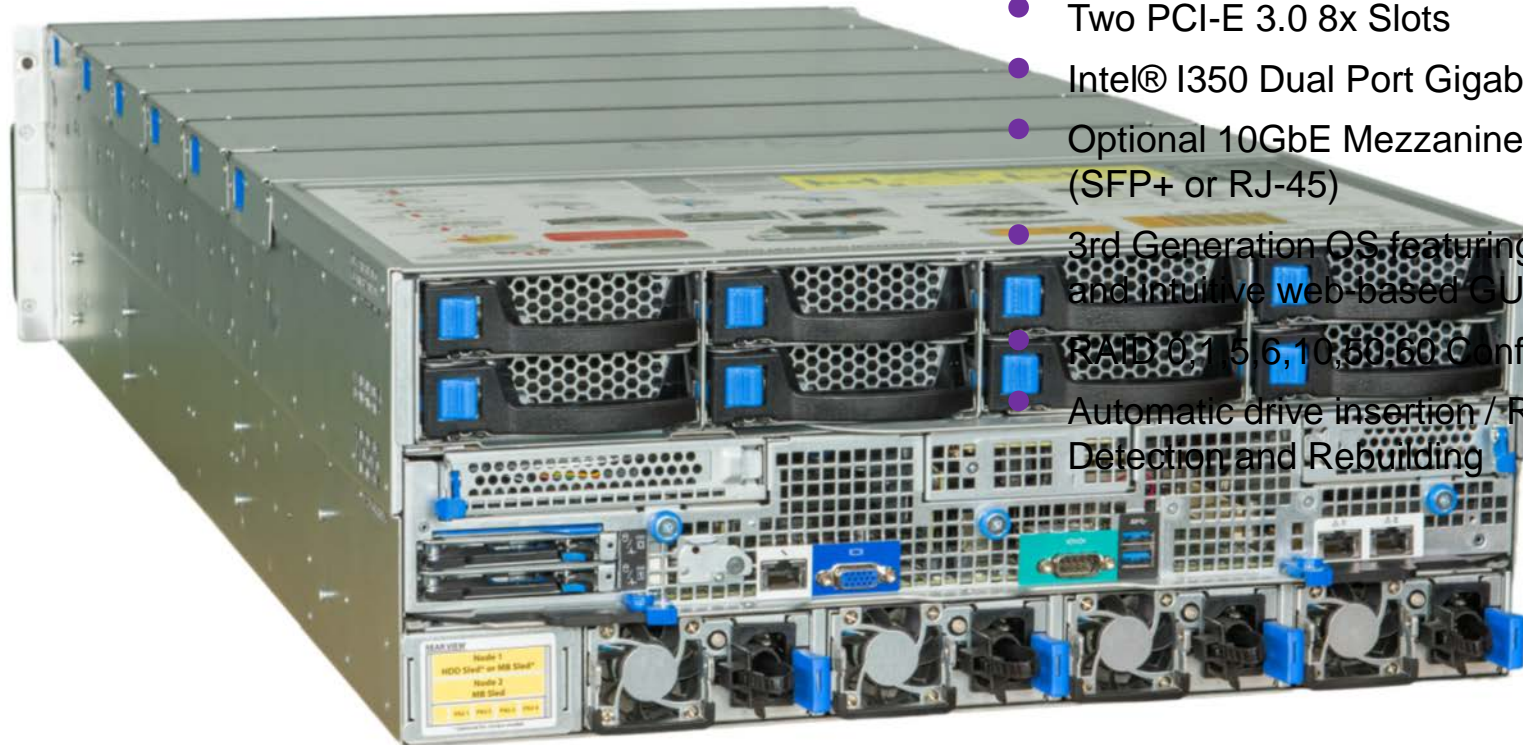
The AberNAS N49-Series 4U features Intel® Xeon® E5 v4 processors, 1TB maximum memory, SAS 12G as standard features. AberNAS N49 is top-loaded and double-sided and provides and incredible 78 data storage bays in a 4U chassis.



- Highest HDD Density Rackmount Storage Server
- Toolless Drive Installation
- IPMI w/KVM over LAN for Remote Server Management
- Support for 10TB HDD for maximum storage capacity
- Intel E5-2600v4 Series Support
- 1TB Memory Support
- SCSI Target Capable

AberNAS N49

The AberNAS N49-Series 4U features Intel® Xeon® E5 v4 processors, 1TB maximum memory, SAS 12G as standard features. AberNAS N49 is top-loaded and double-sided and provides and incredible 78 data storage bays in a 4U chassis.



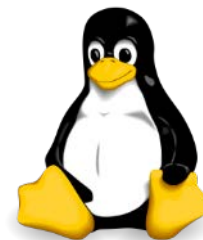
- Two PCI-E 3.0 8x Slots
- Intel® I350 Dual Port Gigabit
- Optional 10GbE Mezzanine (SFP+ or RJ-45)
- 3rd Generation OS featuring streamlined and intuitive web-based GUI
- RAID 0, 1, 5, 6, 10, 50, 60 Configurable
- Automatic drive insertion / Removal Detection and Rebuilding

AberNAS N49

The AberNAS N49-Series 4U features Intel® Xeon® E5 v4 processors, 1TB maximum memory, SAS 12G as standard features. AberNAS N49 is top-loaded and double-sided and provides and incredible 78 data storage bays in a 4U chassis.



- Choice of Operating System
- 780TB Total Capacity
- Built-in Controller
- Unlimited Client Access
 - No Client Access or License Fees
- Off the Shelf Enterprise Level Drives
 - No Hidden Fees on Drives



AberNAS N49 – Embedded OS Recovery

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.



- OS Recovery to Factory Default OS Image from a Separate Embedded Flash Memory
- Quick and Easy Recovery from an OS Drive Failure or OS Corruption
- Return to Factory Defaults to Recover from Configuration Mishaps

AberNAS N49 – 12Gb/s SAS

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 hyper-scale datacenter scale-out architectures.



AberNAS N49 vs. HP Equivalent



	AberNAS N49		HP StoreEasy 1650 Expanded + HP Smart Array P441 Controller + HP D6000 Disk Enclosure	
Rackspace	4U	✓	7U (2U+5U)	✗
Processor(s)	Dual E5-2630 8Core	✓	Single E5-2609 6Core	✗
Memory	32GB	✓	16GB	✗
Operating System	Windows Storage Server 2012 R2	✓	Windows Storage Server 2012 R2	⚖
Warranty	5 Years	✓	3 Years	✗
Price	\$66K	✓	\$167K	✗

Confidence in Our Quality and Reliability



Since 2001, Aberdeen has proudly delivered our industry leading **5 Year Warranty** with all of our fully configured rackmount servers and storage. We offer this with complete confidence in the unparalleled quality and reliability we deliver with every server and storage device.



CUSTOM ASSEMBLED RACKMOUNT EVALUATION SERVICE

Aberdeen is pleased to introduce you to our revolutionary server and storage purchasing paradigm, the Aberdeen CARES program.

Under the Aberdeen Custom Assembled Rackmount Evaluation Service (CARES) program, we will provide a completely configured server and/or storage free for a 30 day trial assessment for qualified customers.

Conclusion

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



Aberdeen LLC

10420 Pioneer Blvd.

Santa Fe Springs, CA 90670

Sales: 800-552-6868

Direct: 562-903-1500

Fax: 562-903-1544



www.aberdeeninc.com

salesinfo@aberdeeninc.com