Introducing the OCZ Z-Drive 4500 Solid State Drive Series

Next Generation Enterprise-Class Performance and Reliability

March 2014

OCZ STORAGE SOLUTIONS | A Toshiba Group Company

NEWS EMBARGO

OCZ's new Z-Drive 4500 PCIe SSD Series will be formally announced to the public on:

Tuesday March 4th, 2014 at 8:00 am ET

OCZ requests that the media honor this embargo date and time

Thank you in advance!

About OCZ Storage Solutions

- OCZ Storage Solutions is a Toshiba Group Company
- The only fully-integrated SSD provider solely focused on SSD products
- Industry-leading solid-state storage that addresses client and enterprise storage challenges
- **Our solutions:**
  - Offer intelligent and optimized approaches to how data is captured, accessed, and leveraged
  - Are designed with an application in mind, enabling us to meet specific demands

A Strong, Fully Integrated Organization

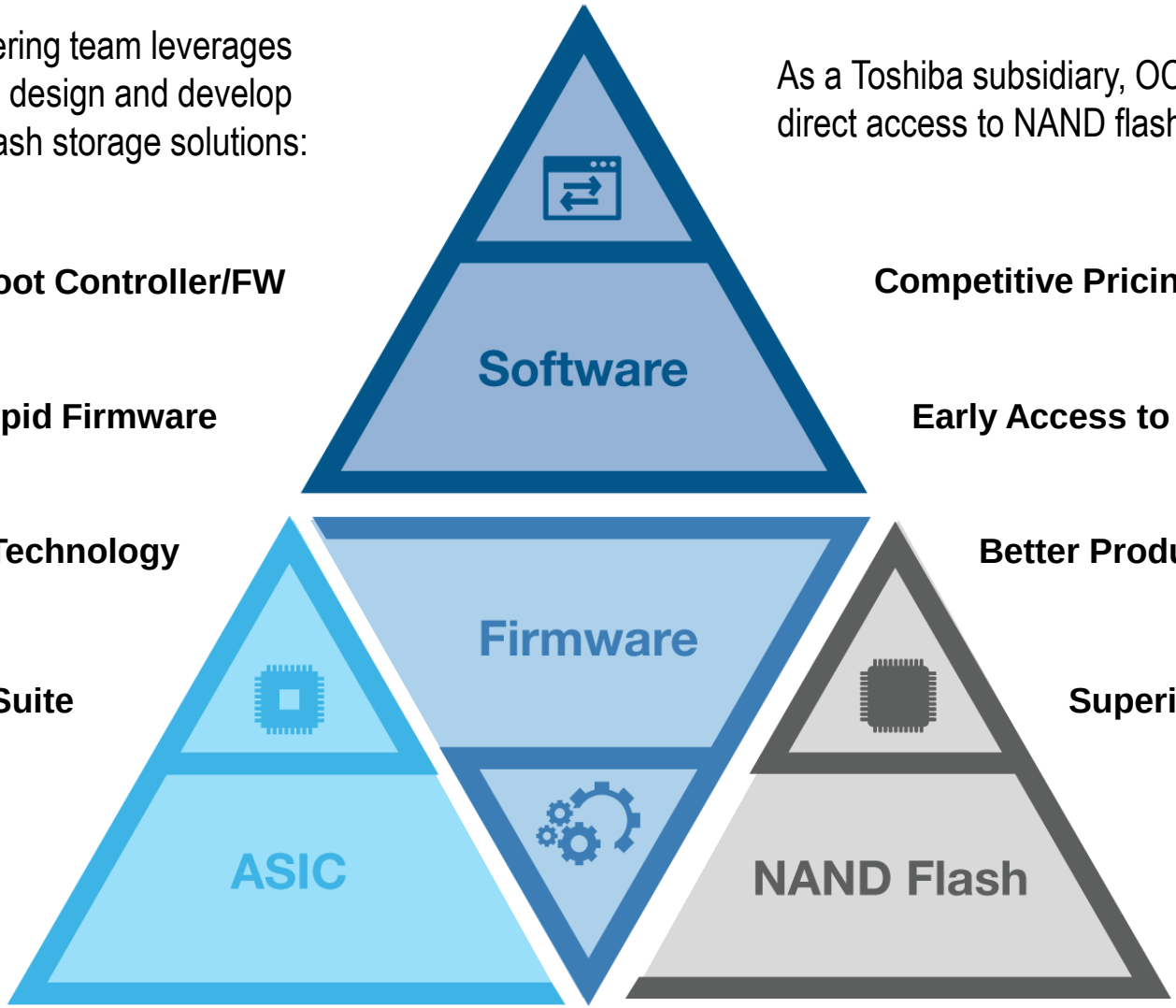
Robust engineering team leverages innovative IP to design and develop differentiated flash storage solutions:

Barefoot Controller/FW

Intrepid Firmware

Z-Drive VCA Technology

XL Software Suite



As a Toshiba subsidiary, OCZ has direct access to NAND flash enabling:

Competitive Pricing

Early Access to Next Gen NAND

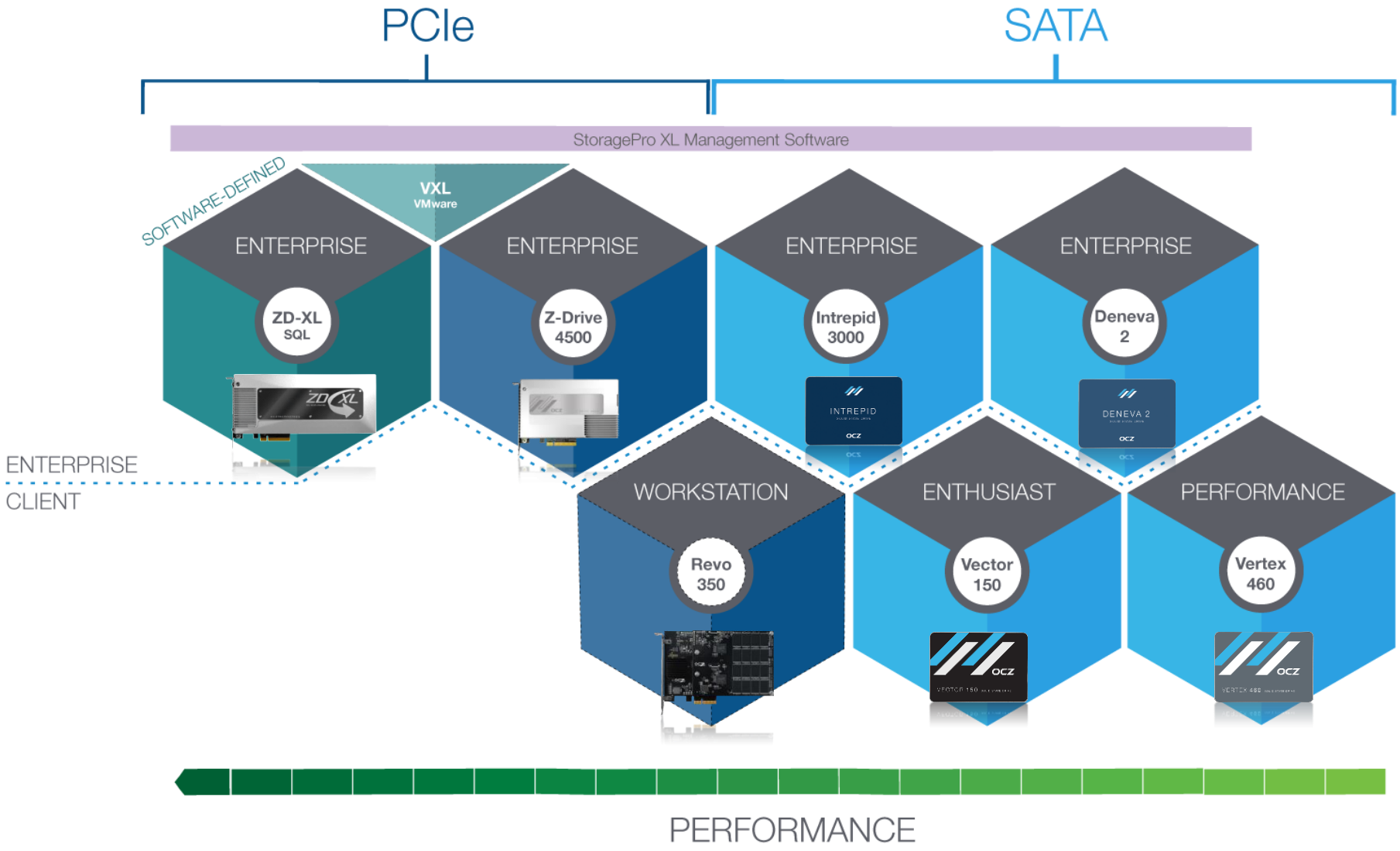
Better Product Availability

Superior Optimization

Global Presence, Global Innovation

- Global footprint and support network
- Robust in-house R&D team
- Sales / marketing offices in each major region

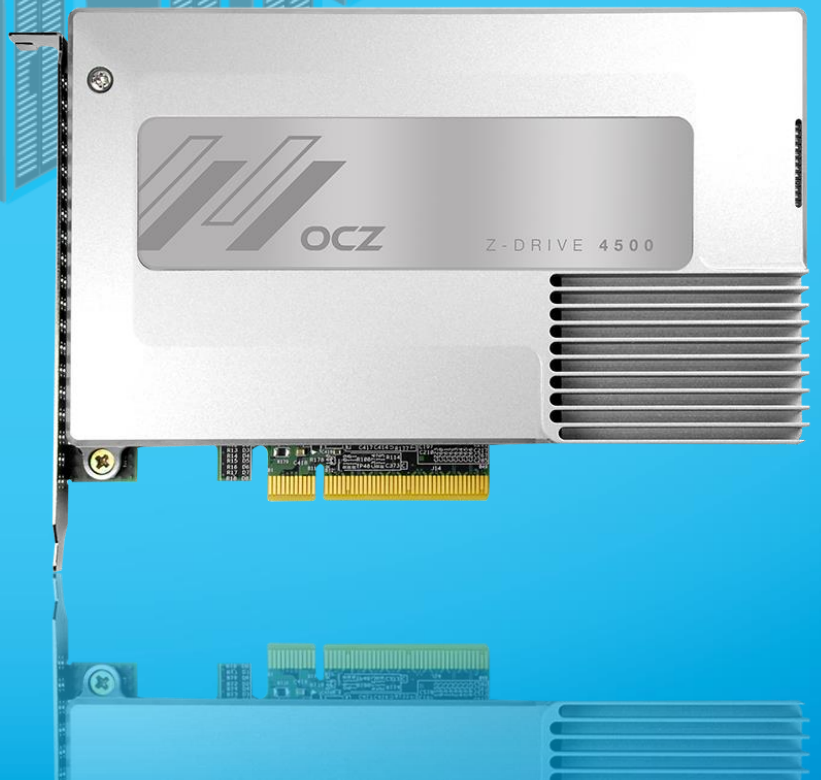
Product Line Breakdown



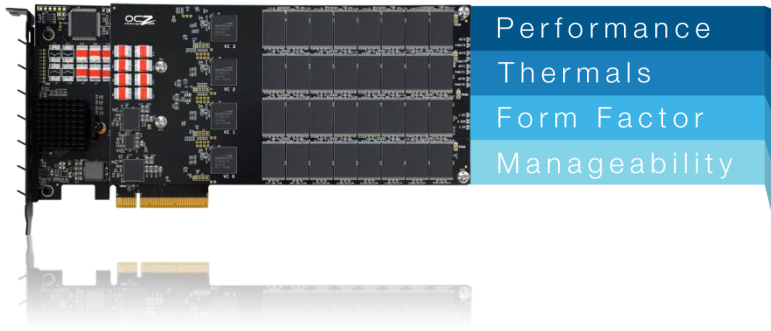
*RevoDrive 350 coming in Q2

Data centers have evolved.

So has the OCZ Z-Drive.



The All-New Z-Drive 4500 PCIe Solution



Performance
Thermals
Form Factor
Manageability

The new Z-Drive 4500 features an array of updates and improvements over the Z-Drive R4, delivering a superior enterprise solution

Ground-up, redesigned drivers for ultimate performance efficiency

Improved thermal design caters to the modern data center

New form factor addresses wider range of platforms

Superior manageability and performance with included software suite

Optimized Functionality & Feature-Set

The New Z-Drive 4500

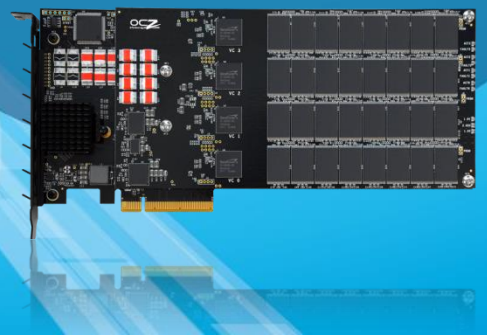
- Full Height-Half Length
- In-house Flash
- Thermal Throttling
- Temperature-cool casing
- Optimized Drivers
- WXL Support
- 5 Year Warranty

Z-Drive R4

- Full Height-Full Length
- 3 Year Warranty

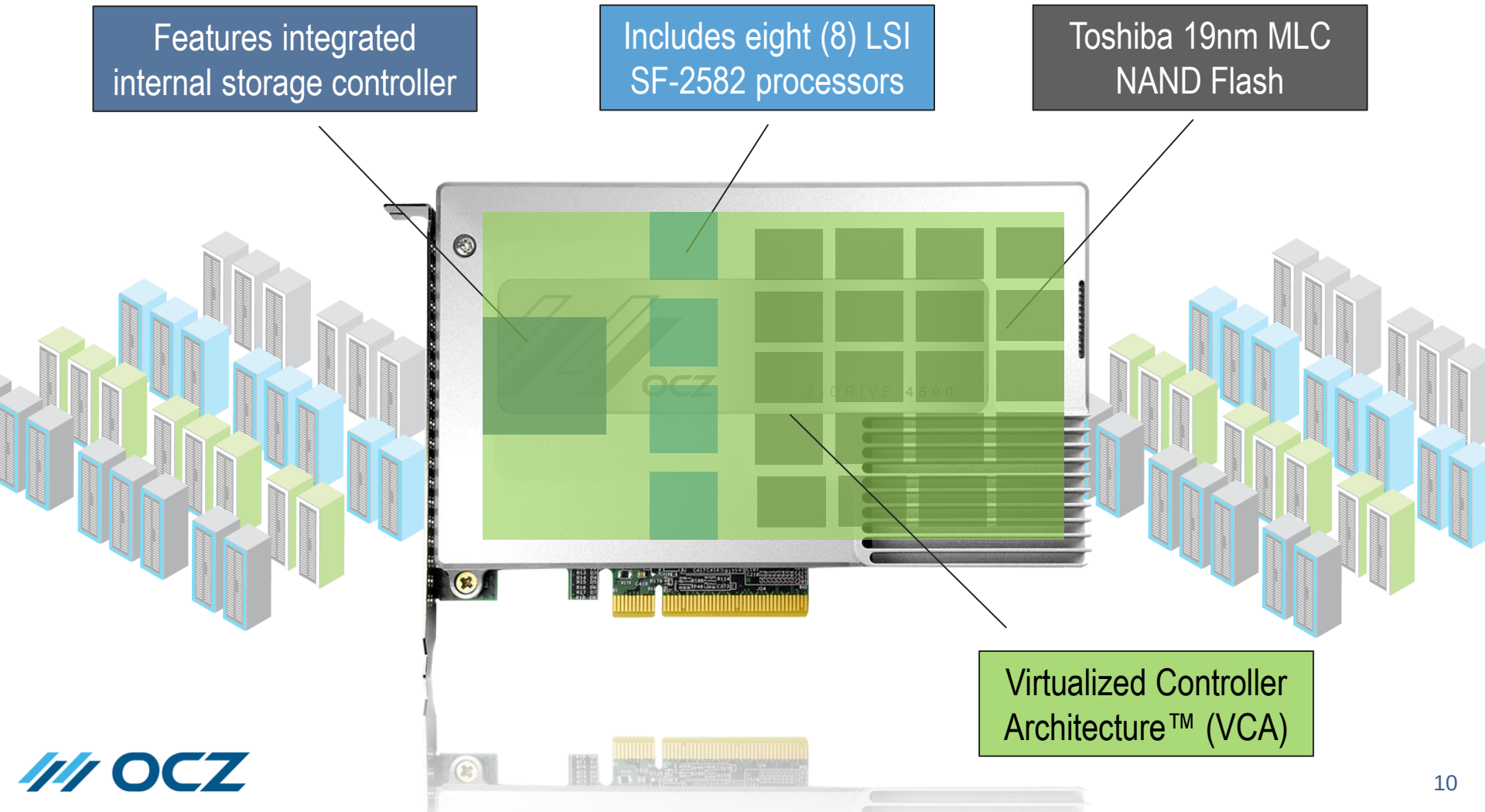
Both

- Up to 3.2TB
- PCIe Gen2 x8
- VCA
- VXL Support



Z-Drive 4500 = Proven Architecture

- The new Z-Drive is built using proven technology with the added benefit of utilizing in-house Toshiba flash memory for optimal product availability

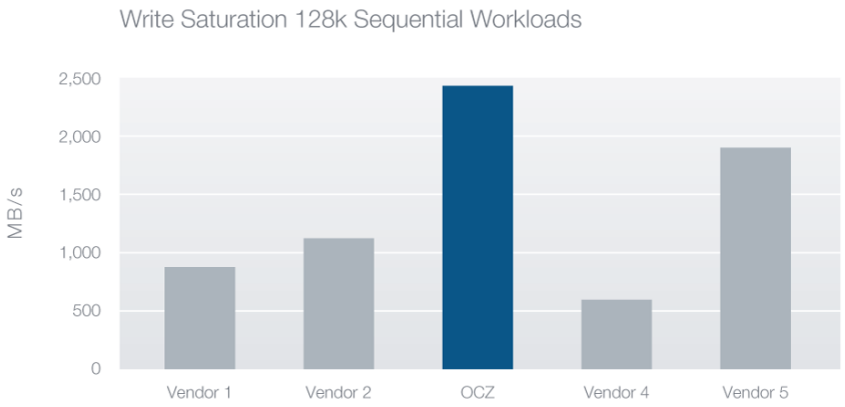


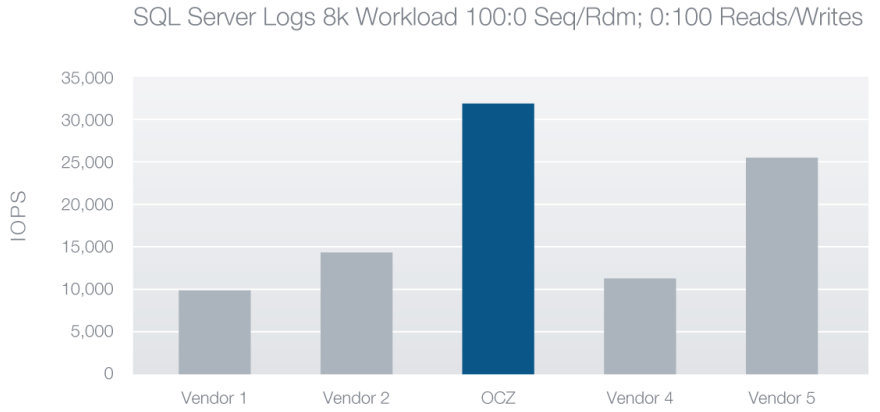
Virtualized Controller Architecture

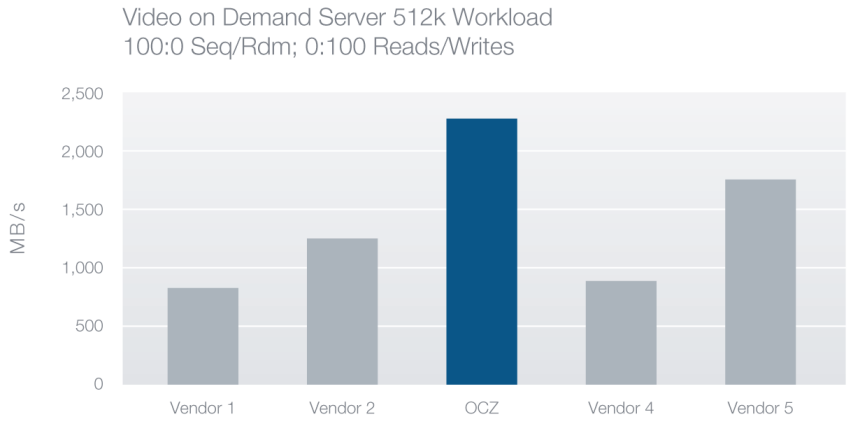
- Implements OCZ's Virtualized Controller Architecture™ (VCA) identical to the Z-Drive R4 Series
- Effectively makes the 8 controllers of the Z-Drive 4500 appear and act as a single drive to the host system
- Delivers leading MLC *sustained* performance:

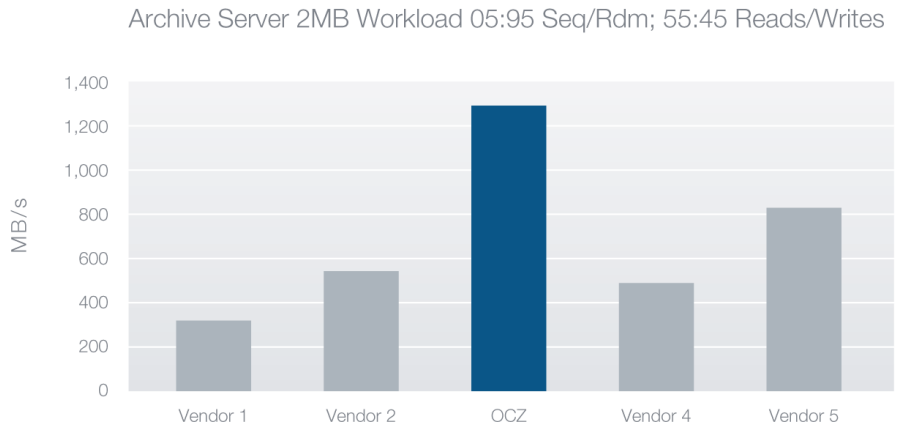
Read Bandwidth: up to 2,900 MB/s
Write Bandwidth: up to 2,200 MB/s
4K Random Read: up to 252,000 IOPS
4K Random Write: up to 76,000 IOPS

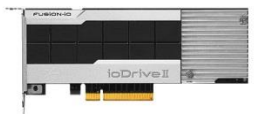
The Leading Performance of OCZ's VCA Architecture











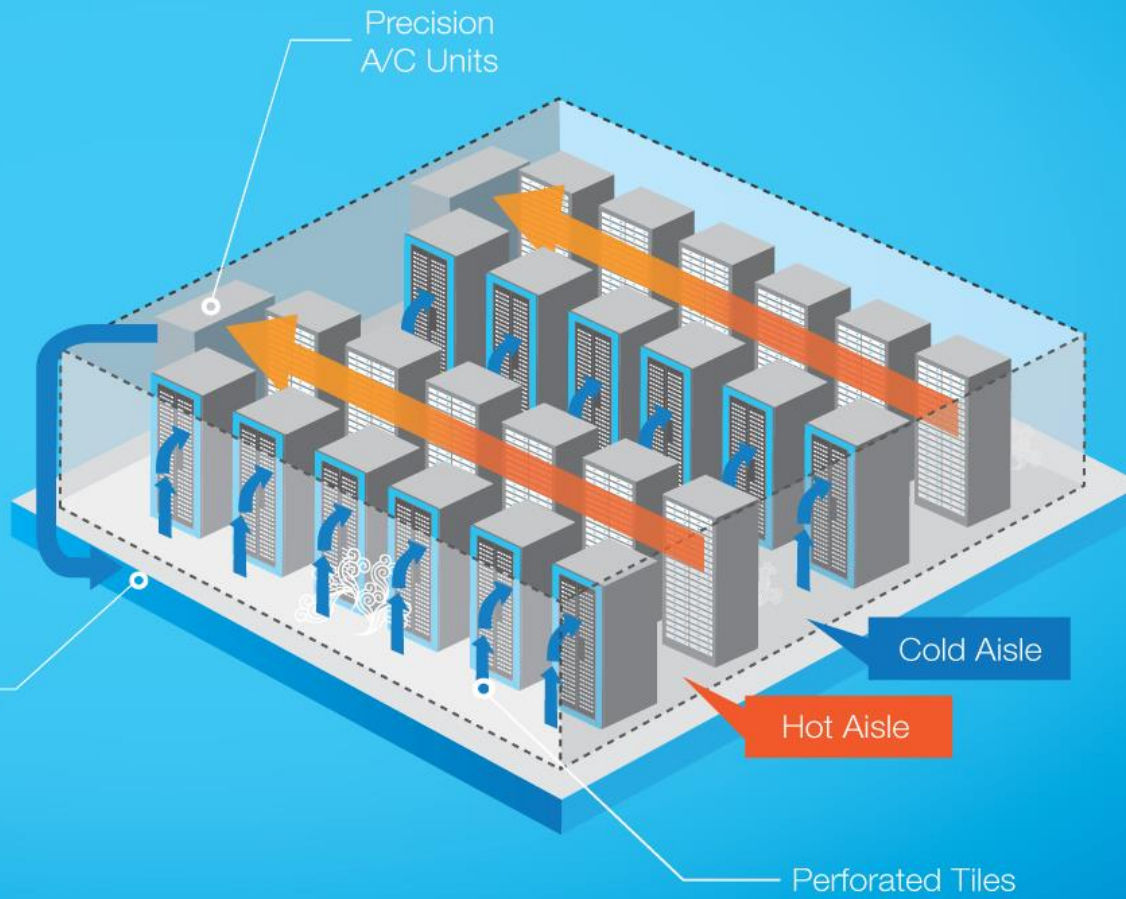
Blind survey results from Calypso PCIe SSD performance tests

Evolving with the Data Center

Yesterday's Data Center

Expensive, Inefficient Cooling

Today's Data Center



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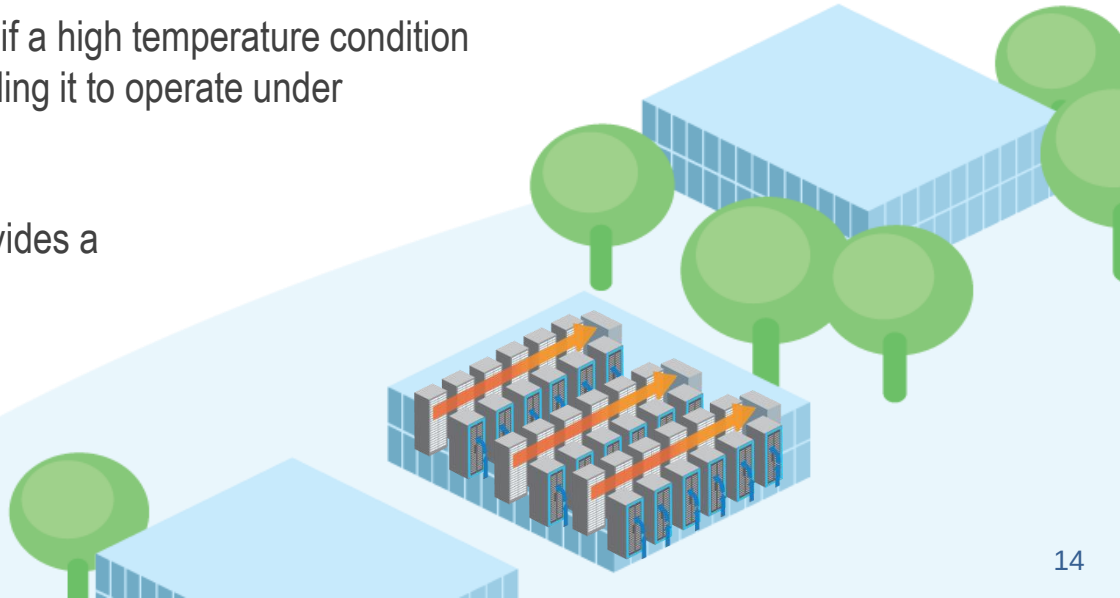
Evolving with Data Center Thermals

Gone are the days of expensive, inefficient air-conditioned data centers

- Today's data centers require hardware to perform efficiently in warmer server environments (e.g., hot/cold aisle approach) to decrease Op-Ex
- New Z-Drive 4500 thermal features enable it to be a part of aggressive TCO (Total Cost of Ownership) models:
  - New temperature sensing measures onboard heat to ensure that operating temperatures stay below maximum limit
  - New thermal-throttling engages if a high temperature condition occurs to protect the drive enabling it to operate under adverse temperature variances
  - New attractive outer casing provides a more stable and cooler thermal SSD environment



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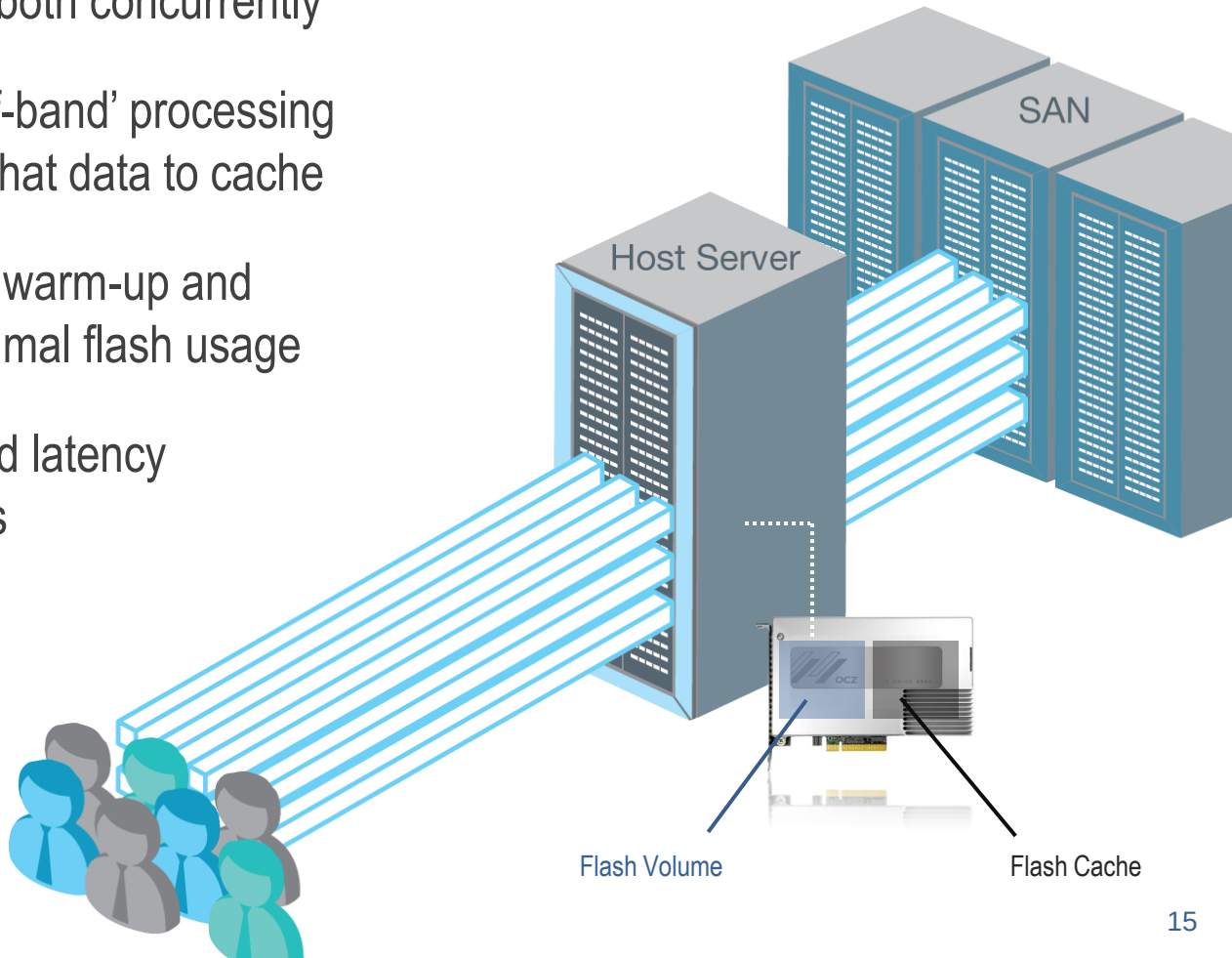
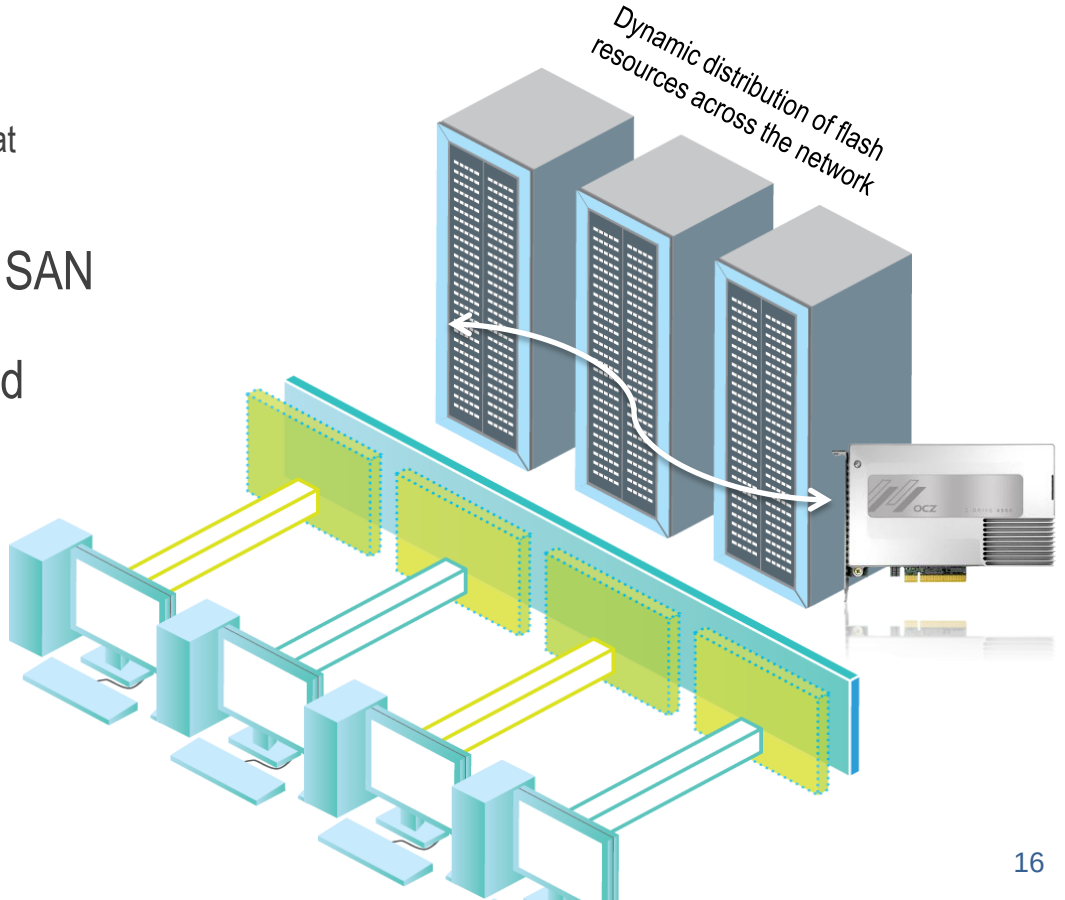
Included WXL Caching Software

- Each Z-Drive 4500 comes with integrated Windows Accelerator (WXL) Software
- Enables efficient use of the Z-Drive 4500 as a flash volume, a flash cache, or both concurrently
- Performs statistical 'out-of-band' processing to selectively determine what data to cache
- Includes advanced cache warm-up and analysis scheduler for optimal flash usage
- Improves performance and latency on SAN and DAS systems making them more available for other applications



VXL Virtualization Software Support

- Works with OCZ's VXL Virtualization Software to optimized virtualized environments by ensuring critical data is available on flash for use by VMs
- Distributes flash resources on-demand across VMs to accelerate application performance
  - Makes sure no VM inefficiently occupies flash
  - Utilizes Z-Drive 4500's flash cache optimally at all times regardless of VM quantity
- Reduces data traffic to and from the SAN
- Delivers a SAN-less software-defined storage system



Enterprise-Grade Data Reliability

Power Loss Data Protection

Full in-flight data protection in the event of a sudden power failure ensuring in-progress write operations complete and data is properly stored

Enhanced Data Reliability

Advanced ECC uses BCH codes to detect and correct a limited number of bit errors 'on-the-fly'

End-to-End Data Path Protection

Performs data integrity checks at every juncture where data is transmitted and received ensuring that corrupted data is detected and not propagated

Dependable Data Redundancy

Internal SSD RAID functionality provides additional safeguards to supplement traditional ECC algorithms, and further reduce uncorrectable bit error rates

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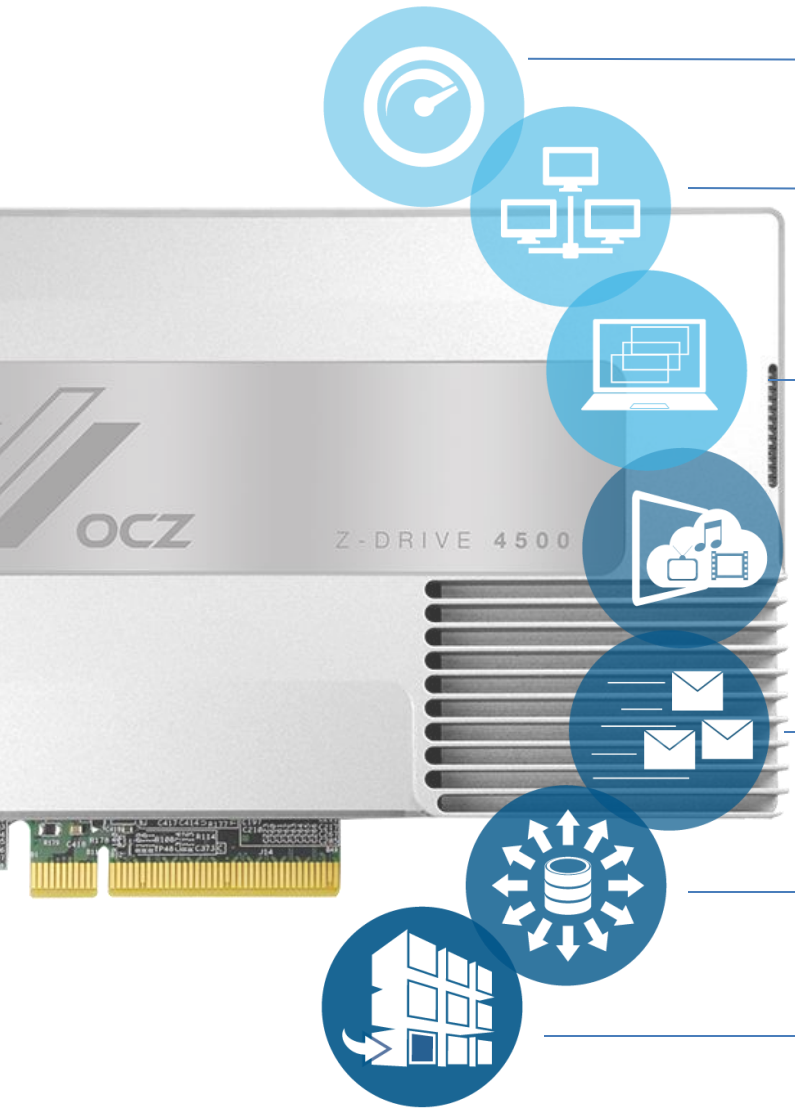
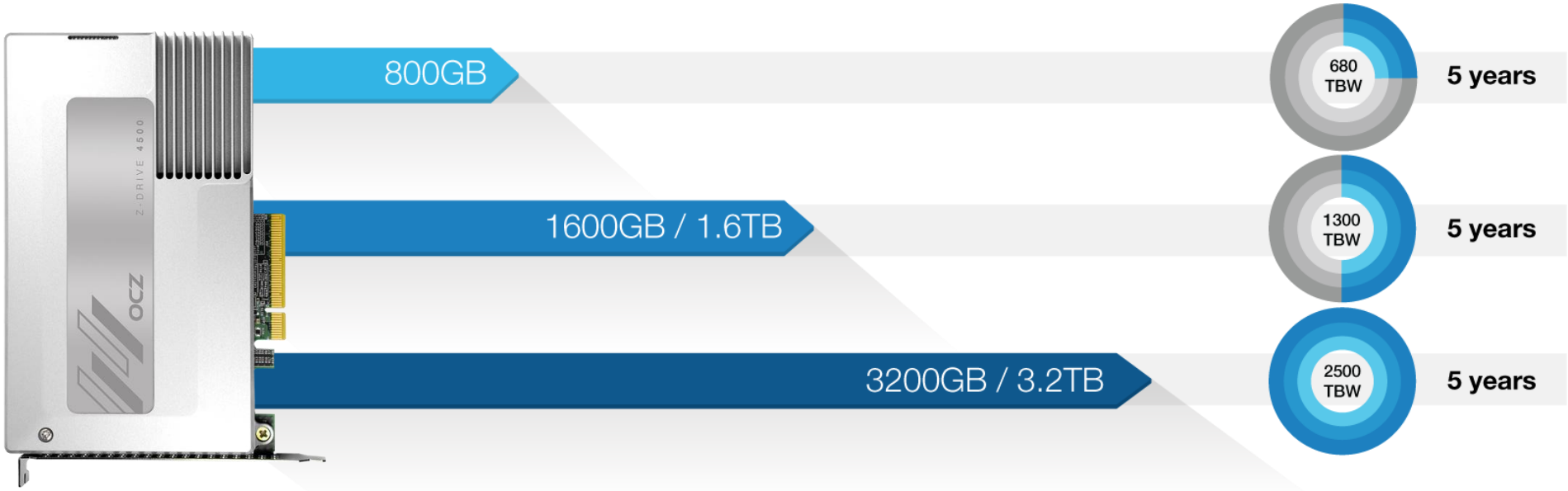
Targeted Z-Drive 4500 Applications



- High Performance Computing (HPC)
- Virtual Desktop Infrastructure (VDI)
- Web 2.0 Server / Web Browsing
- Media Streaming
- Microsoft Exchange Server
- Databases: Data Warehousing, OLTP, OLAP
- Virtualization (Server/Client)

Z-Drive 4500 Drive Models and Endurance



- The Z-Drive 4500 is available in solely in a full height, half length form factor in 3 capacity offerings
- Offers competitive endurance ratings at up to 2500 Terabytes Written (TBW) for 5 years

Z-Drive 4500 Summary

- Leading sustained performance for MLC-based PCIe enterprise SSDs
- 19nm NAND flash in a FH-HL design
- Temperature sensing and thermal throttling
- ‘Temperature-cool’ casing
- Integrated Windows Acceleration (WXL) Software
- Support for VXL Virtualization Software
- Data protection: power loss & end-to-end
- 800GB, 1.6TB and 3.2TB usable capacities

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Thank you! Questions?

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