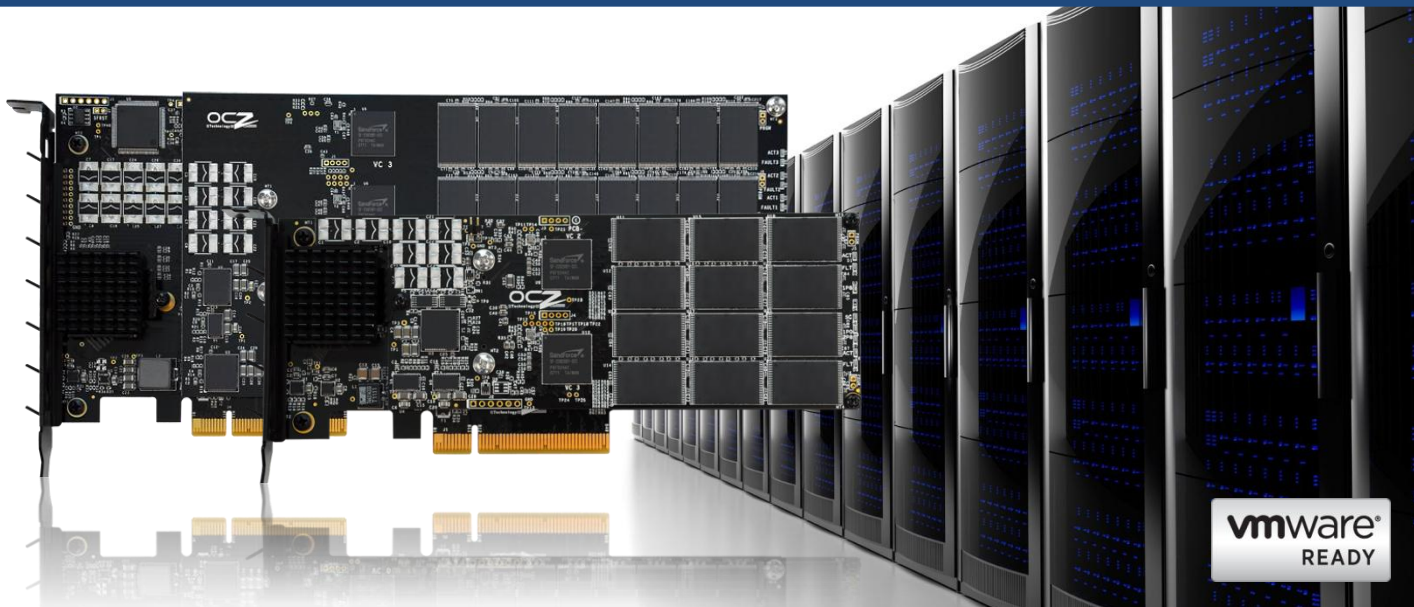


Z-Drive PCI Express Storage Solutions



Z-Drive R4 C Series Solid State Drives

C Series at a Glance

- Innovative storage system that melds hardware & software managed solutions with integrated proprietary technology
- Cost-effective MLC-based design with best-in-class endurance
- Advanced feature-set includes user-selectable data recovery & non-stop modes
- Available in half height and full height configurations

The Pinnacle of Storage Performance

- Delivers the performance of thousands of hard disk drives in a single server
- Eliminates I/O and bandwidth bottlenecks
 - Up to 2,800 MB/s and 500,000 IOPS (per SuperScale controller)

Proprietary Virtualized Controller Architecture™ (VCA) 2.0

- Multifaceted virtualization layer that interfaces with host system
- Enables TRIM, SCSI unmap, & SMART monitoring for system administrators

SuperScale™ Storage Accelerator Unique to OCZ

- Facilitates scalable performance in enterprise & datacenter applications
- Unique complex command queuing structure plus queue balancing algorithms
- Provides highly efficient performance aggregation while reducing the burden on host resources

Superior Reliability, Endurance, & Security Features

- Data fail recovery ensures superior reliability
- Intelligent block management & wear-leveling for increased endurance
- Advanced security with 128-bit AES encryption support
- Strong error correction for enhanced data integrity

KEY DIFFERENTIATORS:

- Highest performing enterprise PCIe solution on the market
- Merges the best features of pure hardware and software based approaches to data management and overcomes the inherent weaknesses of both
- Bootable as a direct-attach device
- Ultra-high endurance for enterprise applications (increases drive life by up to five times the rated P/E cycles of the NAND)
- Lowest CPU and memory resource utilization in its class
- Only PCIe drive with complete power fail protection & drive-level recovery (R Series)
- Maintains user-configurable flexibility not found in other enterprise storage devices
- Only virtualization layer in the industry with TRIM and SCSI unmap support

enterprise



| PHYSICAL | CM84 Version | CM88 Version |
|---------------------------|---|--------------------------------------|
| Usable Capacities (IDEMA) | 300GB, 600GB, 1.2TB | 800GB, 1.6TB, 3.2TB |
| NAND Components | Multi-Level Cell (MLC) | Multi-Level Cell (MLC) |
| Interface | PCI Express Gen. 2 x8 | PCI Express Gen. 2 x8 |
| Form Factor | PCIe half height, half length compliant | PCIe full height, ¾ length compliant |
| Storage Controller | OCZ SuperScale™ | OCZ SuperScale™ |
| NAND Controller | SandForce® 2282 x 4 | SandForce® 2282 x 8 |
| Dimensions (L x W x H) | 168.55 x 68.91 x 17.14 mm | 242 x 98.4 x 17.14 mm |
| Weight | 119g | 262g |

| PERFORMANCE | | |
|-------------------------------|------------------|------------------|
| Max Read | up to 2,000 MB/s | up to 2,800 MB/s |
| Max Write | up to 2,000 MB/s | up to 2,800 MB/s |
| Random Write Operations (4kB) | 250,000 IOPS | 410,000 IOPS |
| Random Write Operations (8kB) | 160,000 IOPS | 275,000 IOPS |
| Maximum IOPS | 260,000 IOPS | 500,000 IOPS |

| ENVIRONMENTAL | | |
|-----------------------|------------------------------|------------------------------|
| Power Consumption | Idle: 14.5 W Active: 16 W | Idle: 23 W Active: 26 W |
| Operating Temperature | 0°C ~ 70°C | 0°C ~ 70°C |
| Storage Temperature | -45°C ~ 85°C | -45°C ~ 85°C |
| Airflow Requirement | 300 Linear Feet/Minute (LFM) | 300 Linear Feet/Minute (LFM) |
| Certifications | RoHS, CE, FCC | RoHS, CE, FCC |

| RELIABILITY/SECURITY | |
|---------------------------|---|
| Data Fail Recovery | Recovers data from up to one NAND flash block per NAND controller |
| Data Path Protection | ECC: Up to 55 bits correctable per 512-byte sector; Data path parity protection |
| Data Reliability | Read Unrecoverable Bit Error Rate (UBER) 10e-16 |
| Data Encryption | 128-bit AES-compliant |
| Product Health Monitoring | SMART support |

| COMPATIBILITY | |
|--------------------|--|
| PCI Express | PCI Express x8 or x16 slot; Fully compliant with the PCI Express Electromechanical Specification Rev. 2.0, and PCI Express Base Specification Rev. 2.0 |
| Operating Systems | Windows 7 32-bit/64-bit; Windows Server 2003 & 2008 R2 64-bit; Red Hat Enterprise Linux, CentOS, Oracle Enterprise Linux, SUSE Linux Enterprise Server, Ubuntu Server and Desktop, VMware ESX 5.0 and ESXi 5.0 |
| Power Requirements | PCI Express 12V & 3.3V |

| ADDITIONAL FEATURES | |
|----------------------------|--|
| Flash Virtualization Layer | OCZ VCA (Virtualized Controller Architecture™) 2.0 |
| Performance Optimization | TRIM/SCSI unmap (requires OS support) |
| Service & Support | 3-Year Warranty; Dedicated FAE/FSE support (includes PM/engineer support through validation cycle) |



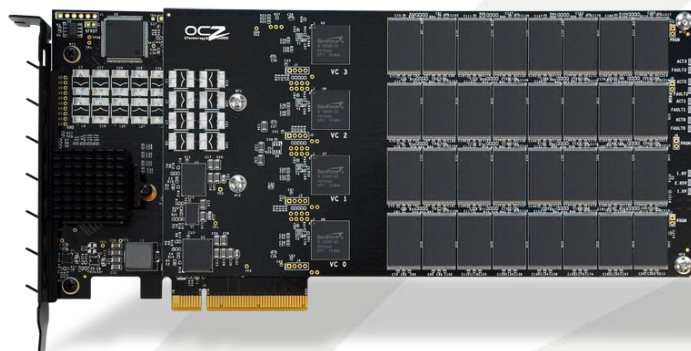
Dramatically Accelerating Enterprise Applications

The OCZ Z-Drive R4 Series represents a turning point in the evolution of PCIe attached solid state storage by merging the best feature sets of both the pure hardware and pure software based approaches to data management. Designed and manufactured for a wide range of enterprise environments including cloud computing and data centers, the Z-Drive R4 features OCZ's Virtualized Controller Architecture (VCA) 2.0, providing the utmost in performance, flexibility, durability and enhanced reliability, allowing data centers to rely on a PCIe-based SSD as their primary tier one storage solution for the first time. Additionally, the Z-Drive R4's level of concentrated performance enables system architects to design more productive infrastructures while lowering operating costs associated with hard drive technology.

VCA 2.0 supports the industry standard SCSI command set and, among a litany of other things, provides highly efficient performance aggregation due to our proprietary Complex Command Queuing Structure (CCQS), that handles balancing with OCZ's unique Queue Balancing Algorithm, that extends the NAND flash life at a block level, manages redundancy, and is the software interface with the host system.

Z-Drives integrate seamlessly with servers at the system bus and kernel level, creating a new flash memory tier and dramatically increasing throughput and application performance all while slashing capital and operating costs.

CM88 – Full Height Form Factor



CM84 – Half Height Form Factor



| PRODUCT | | CAPACITY | | | ORDERING | |
|-----------------|-------------|----------|--------|-----------------|-----------------|--------------|
| NAME | FORM FACTOR | RAW | IDEMA | WRITE ENDURANCE | PART NUMBER | UPC |
| Z-Drive R4 CM84 | Half Height | 384GB | 300GB | Up to 7.5PB | ZD4CM84-HH-300G | 842024027256 |
| Z-Drive R4 CM84 | Half Height | 768GB | 600GB | Up to 15PB | ZD4CM84-HH-600G | 842024027263 |
| Z-Drive R4 CM84 | Half Height | 1536GB | 1200GB | Up to 30PB | ZD4CM84-HH-1.2T | 842024027270 |
| Z-Drive R4 CM88 | Full Height | 1024GB | 800GB | Up to 20PB | ZD4CM88-FH-800G | 842024027348 |
| Z-Drive R4 CM88 | Full Height | 2048GB | 1600GB | Up to 40PB | ZD4CM88-FH-1.6T | 842024027355 |
| Z-Drive R4 CM88 | Full Height | 4096GB | 3200GB | Up to 80PB | ZD4CM88-FH-3.2T | 842024027362 |

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