



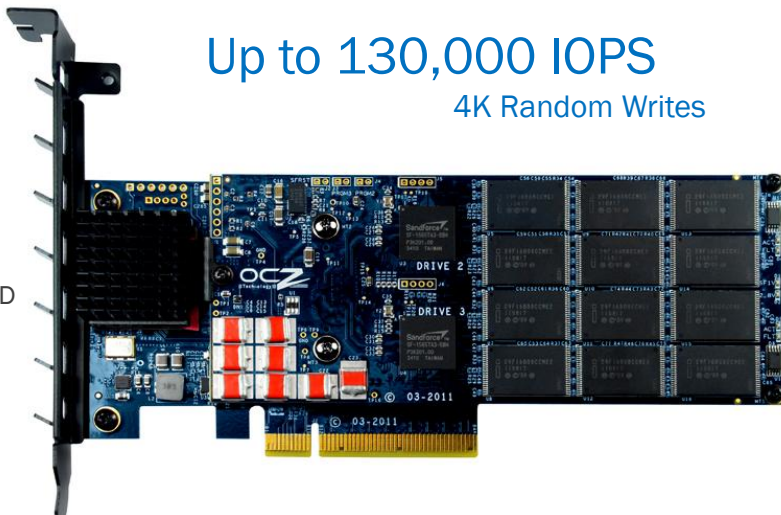
OCZ VeloDrive PCI-Express Solid State Drive

Maximized Performance, Flexibility, and Efficiency in One Solution

The VeloDrive helps accelerate enterprise and high-performance computing applications with a *truly* configurable solution...

- Full height and low profile bracket options
- Freedom to use RAID stack of choice
 - Factory-direct configured for hardware RAID
 - Increases overall performance
 - Accommodates existing usage models
 - Reduced impact on system resources
- SMB Enterprise Applications
- Storage Tiering / Cache Tiering
- Workstations

Up to 130,000 IOPS 4K Random Writes



More Performance, Less System Resources

However you look for best-in-class performance, the VeloDrive delivers. With incredible, well-rounded speed (bandwidth, IOPS, and access latency), this drive can help optimize any IT environment without the heavy burden on the CPU and large host memory footprint that plague other PCIe solutions.

Versatile – Hardware or Software RAID*

The VeloDrive provides unparalleled flexibility with the ability to run either hardware or software RAID stacks depending on your application or unique needs. Increase performance with software RAID or minimize the CPU utilization with hardware RAID. In either case, the VeloDrive offers seamless deployment with this unique configuration option.

SandForce® Driven

- Enhanced Reliability
- Improved Endurance
- Superior Security
- Intelligent Block Management & Wear-Leveling

* OCZ does not provide the RAID software

Performance – Hardware RAID

300GB

600GB

1.2TB

| | | | |
|--------------------------------------|------------------------|------------------------|------------------------|
| Max Read ¹ | up to 925 MB/s | up to 925 MB/s | up to 950 MB/s |
| Max Write ¹ | up to 825 MB/s | up to 900 MB/s | up to 1000 MB/s |
| 4KB Random Read ² | 55,000 IOPS (215 MB/s) | 70,000 IOPS (275 MB/s) | 70,000 IOPS (275 MB/s) |
| 4KB Random Write ² | 75,000 IOPS (290 MB/s) | 75,000 IOPS (290 MB/s) | 55,000 IOPS (215 MB/s) |
| Sequential Read ³ AS-SSD | 450 MB/s | 460 MB/s | 600 MB/s |
| Sequential Write ³ AS-SSD | 225 MB/s | 375 MB/s | 420 MB/s |
| 4K Random Read ³ AS-SSD | 75,000 IOPS (290 MB/s) | 75,000 IOPS (290MB/s) | 75,000 IOPS (290MB/s) |
| 4K Random Write ³ AS-SSD | 50,000 IOPS (195 MB/s) | 65,000 IOPS (250 MB/s) | 50,000 IOPS (195 MB/s) |

Performance – Software RAID

300GB

600GB

1.2TB

| | | | |
|--------------------------------------|-------------------------|-------------------------|------------------------|
| Max Read ¹ | up to 1050 MB/s | up to 1050 MB/s | up to 950 MB/s |
| Max Write ¹ | up to 1000 MB/s | up to 1000 MB/s | up to 1000 MB/s |
| 4KB Random Read ² | 60,000 IOPS (235 MB/s) | 80,000 IOPS (310 MB/s) | 75,000 IOPS (290 MB/s) |
| 4KB Random Write ² | 130,000 IOPS (510 MB/s) | 130,000 IOPS (510 MB/s) | 55,000 IOPS (215 MB/s) |
| Sequential Read ³ AS-SSD | 670 MB/s | 720 MB/s | 620 MB/s |
| Sequential Write ³ AS-SSD | 220 MB/s | 440 MB/s | 420 MB/s |
| 4K Random Read ³ AS-SSD | 115,000 IOPS (450 MB/s) | 150,000 IOPS (585 MB/s) | 95,000 IOPS (370 MB/s) |
| 4K Random Write ³ AS-SSD | 50,000 IOPS (195 MB/s) | 80,000 IOPS (310 MB/s) | 50,000 IOPS (195 MB/s) |

¹ Maximum Sequential Speeds are determined using ATTO

² Small file I/O performance is measured using Iometer 2008, Queue Depth 32, 4KB Aligned

³ Incompressible data performance is measured using AS-SSD; 64 thread for 4K specs

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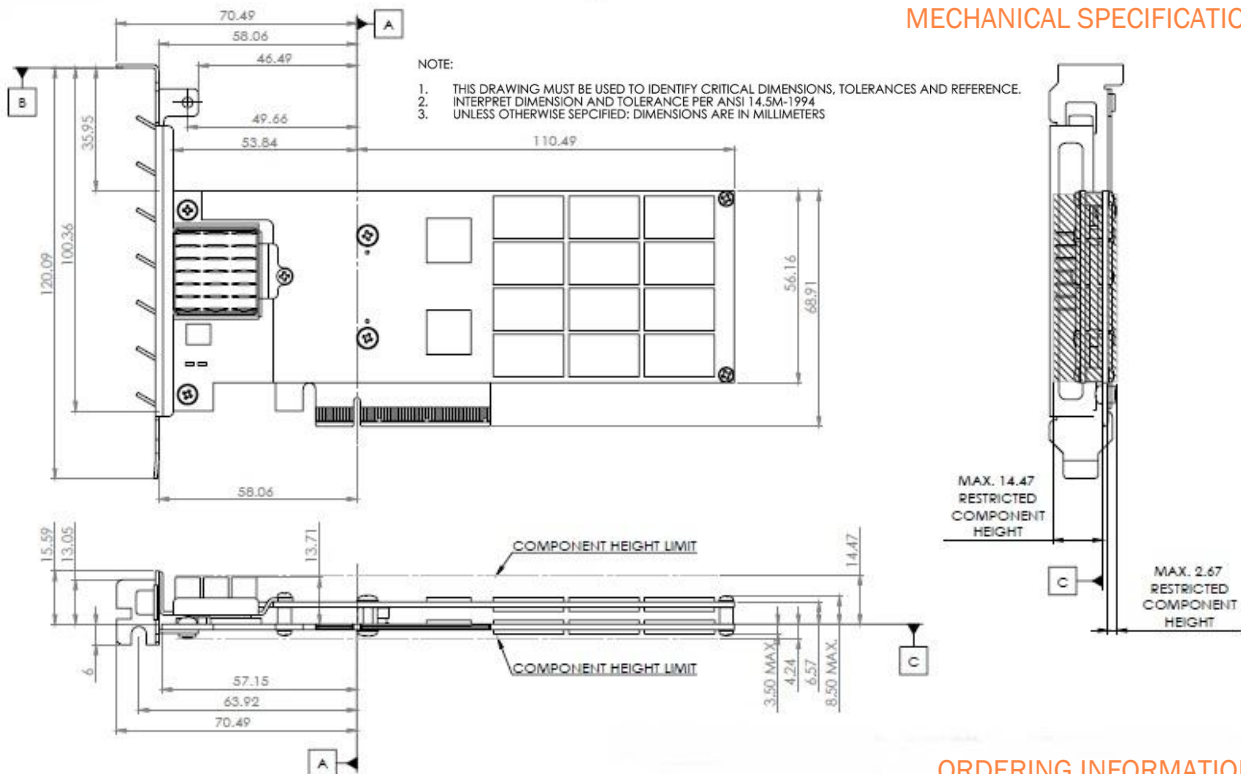
Maximized Performance, Flexibility, and Efficiency in One Solution



SPECIFICATIONS

| | | | |
|-------------------------------|--|----------------------------------|---|
| NAND Components | Multi-Level Cell (MLC) | MTBF | 2.5 million hours |
| Interface | PCI-Express Gen. 2 x8 | Reliability | Power Loss Data Protection |
| Form Factor | Half height, half length (includes full height bracket) | ECC Recovery | Up to 24 bytes correctable per 512-byte sector (RS) |
| Controllers | SandForce® 1565 x4 | Product Health Monitoring | Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.) |
| Dimensions (L x W x H) | 168.55 x 68.91 x 17.14 mm (dimensions does not include bracket) | PCI-Express | Fully compliant with the PCIe Electromechanical Specification Rev. 2.0, and PCI-Express Base Specification Rev. 2.0 |
| Weight | 133g (may vary slightly due to capacity) | Operating System | Windows XP 32-Bit and 64-Bit; Windows Vista 32-Bit and 64-Bit; Windows 7 32-Bit and 64-Bit; Linux |
| Power Consumption | Idle: 9.5 Watts Active: 10.5 Watts | Power Requirements | PCI-Express 12V & 3.3V |
| Operating Temperature | 0°C ~ 70°C | System Integration | Bootable, Hardware/Software RAID, Low profile bracket option available |
| Ambient Temperature | 0°C ~ 55°C | Service & Support | 3-Year Warranty, Toll-Free Tech Support |
| Storage Temperature | -45°C ~ 85°C | | |
| Certifications | RoHS, CE, FCC | | |

MECHANICAL SPECIFICATIONS



ORDERING INFORMATION

| PRODUCT | RAW CAPACITY | IDEMA CAPACITY | PART NUMBER | UPC |
|-----------------|--------------|----------------|---------------|--------------|
| VeloDrive 300GB | 384GB | 300GB | VD-HHPX8-300G | 842024026693 |
| VeloDrive 600GB | 768GB | 600GB | VD-HHPX8-600G | 842024026709 |
| VeloDrive 1.2TB | 1536GB | 1200GB | VD-HHPX8-1.2T | 842024026716 |