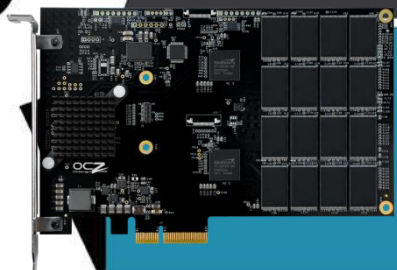# OCZ RevoDrive 3 Series

PCI-Express Solid State Drive with Unprecedented Performance & Features

The RevoDrive 3 accelerates workstation and high-end computing applications with an innovative PCIe design, state-of-the-art performance, and an advanced data management feature-set.

- Delivers up to 130,000 IOPS
- Bandwidth up to 1 GB/s
- Capacity up to 480GB

Single Highest Performing SSD in Prosumer Space

- Up to 3X faster than SATA 6 Gb/s solutions
- Takes full advantage of today's multithreaded processors and software
- Bootable as a direct-attach device
- Easy-to-deploy, single card solution

OCZ Virtualized Controller Architecture

- VCA 2.0 presents as a complete storage subsystem for superior data management
- Only virtualization layer in the industry with TRIM and SCSI unmap support
- Enables SMART monitoring for system administrators

OCZ SuperScale Storage Accelerator

- Facilitates scalable performance for intensive workloads
- Unique complex command queuing structure (CCQS) with queue balancing algorithms (QBA)
- Higher performance and reduced burden on the host CPU

Virtualized Controller Architecture

SuperScale Controller

The ultimate storage solution is here. OCZ RevoDrive 3 PCI-Express Solid State Drives were designed with power users and workstation users in mind where storage I/O performance is essential for maximum productivity. Eliminating the SATA bottleneck, the PCIe-based Revo3 delivers ground-breaking 1GB/s of bandwidth and 130,000 4KB random write IOPS making this an ideal SSD for intensive multithreaded workloads, multimedia design, and workstation applications. Along with unprecedented performance, the Revo3 features OCZ's proprietary *Virtualized Controller Architecture (VCA) 2.0* which provides features including TRIM support and SMART data monitoring, something previously unheard of with PCIe solutions. In addition, the Revo3's *SuperScale* storage accelerator enables scalable SSD performance and significantly reduces the host CPU burden inherent to competing PCIe storage offerings. The RevoDrive 3 series is a premium feature rich storage solution that delivers superior performance and reliability through innovative design.

Performance	120GB	240GB	480GB
Max Read[1]	up to 975 MB/s	up to 1000 MB/s	up to 1000 MB/s
Max Write[1]	up to 875 MB/s	up to 900 MB/s	up to 925 MB/s
Max 4KB Random Write[2]	120,000 IOPS (465 MB/s)	130,000 IOPS (505 MB/s)	130,000 IOPS (505 MB/s)

System Configuration: Intel® Core™ i7 2600K processor, ASUS P8P67 Pro Board, Microsoft Windows 7 Ultimate 64-Bit

[1] Maximum Sequential Speeds are determined using ATTO
[2] Small file I/O performance is measured using Iometer 2010, Queue Depth 64, 4KB Aligned; Logical Block Address (LBA) range: 8GB

SPECIFICATIONS

Physical	
Usable Capacities (IDEMA)	120GB, 240GB, 480GB
NAND Components	25nm Multi-Level Cell (MLC)
Interface	PCI-Express Gen. 2 x4
Form Factor	PCIe Full Height
Storage Controller	OCZ SuperScale
NAND Controller	SandForce® 2281 x 2
Dimensions (L x W x H)	167.64 x 98.42 x 15.25 mm (dimensions do not include bracket)
Weight	114g (may vary slightly due to capacity)

Reliability/Protection/Security	
MTBF	1 million hours
ECC Recovery	Up to 55 bits correctable per 512-byte sector (BCH) *varies depending on exact configuration
Data Reliability	Read unrecoverable bit error rate (UBER) 10e-16 (<1 in 10^{16} bits read)
Data Encryption	128-bit AES-compliant
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) Support

Environmental	
Power Consumption	Idle: 7.5 W Active: 8.3 W
Operating Temperature	0°C ~ 70°C
Storage Temperature	-45°C ~ 85°C
Certifications	RoHS, CE, FCC

Compatibility	
PCI-Express	Fully compliant with the PCIe Electromechanical Specification Rev. 2.0, and PCI-Express Base Specification Rev. 2.0
Operating System	Windows 7 32-bit and 64-bit
Power Requirements	PCI-Express 12V & 3.3V

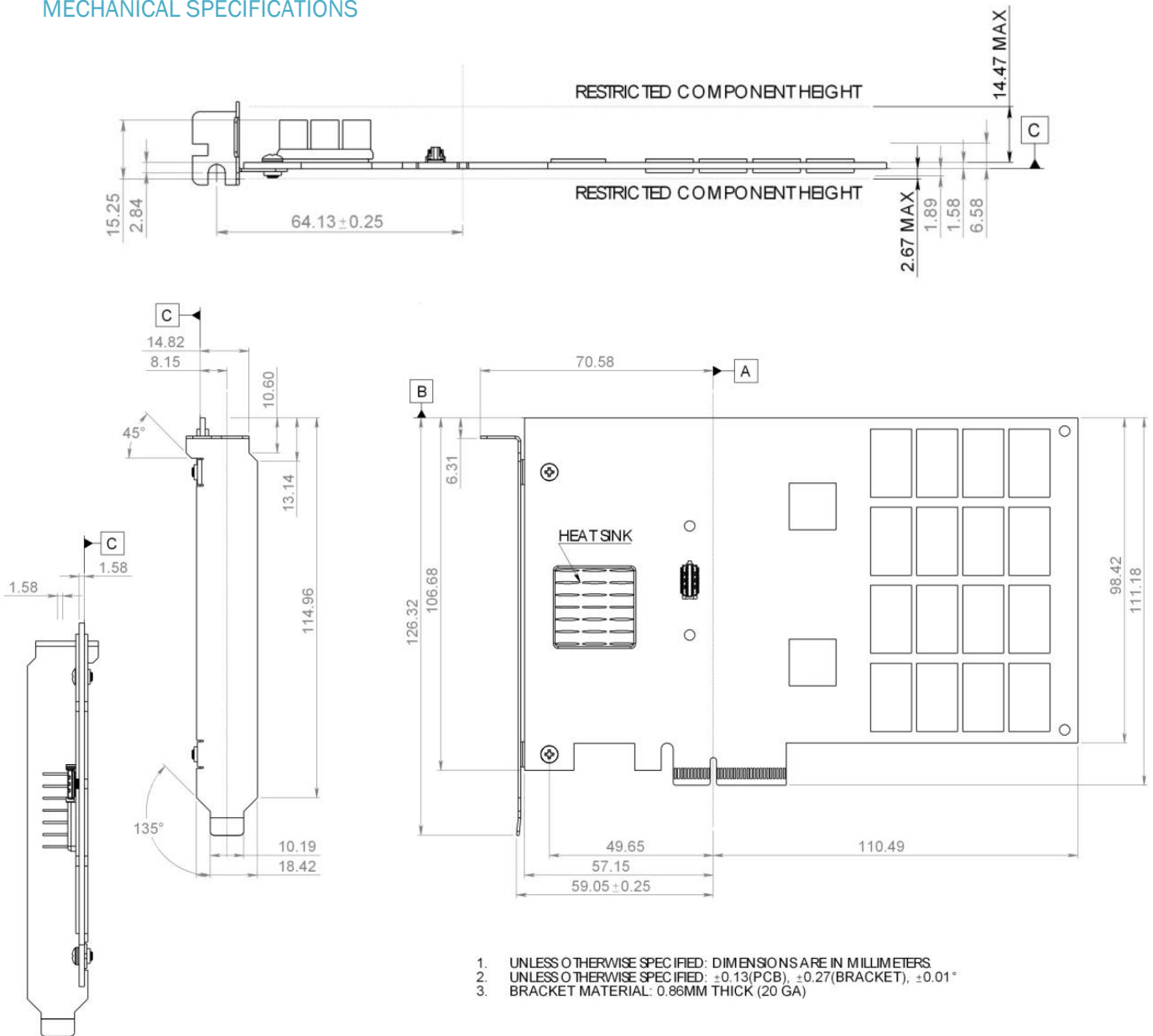| Additional Features	
Flash Virtualization Layer	OCZ VCA (Virtualized Controller Architecture) 2.0
Performance Optimization	TRIM/SCSI Unmap (requires OS support), Drivers www.ocz.com/drivers
Secure Erase	Enabled via OCZ Toolbox www.ocz.com/ssd_tools
Service & Support	3-Year Warranty, Toll-Free Tech Support, 24 Hour Forum Support

MECHANICAL SPECIFICATIONS

1. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS.
2. UNLESS OTHERWISE SPECIFIED: ±0.13(PCB), ±0.27(BRACKET), ±0.01°
3. BRACKET MATERIAL: 0.86MM THICK (20 GA)

ORDERING INFORMATION

PRODUCT	RAW CAPACITY	IDEMA CAPACITY	PART NUMBER	UPC
RevoDrive 3	128GB	120GB	RVD3-FHPX4-120G	842024027072
RevoDrive 3	256GB	240GB	RVD3-FHPX4-240G	842024027096
RevoDrive 3	512GB	480GB	RVD3-FHPX4-480G	842024027089