



# OCZ Vertex 3 SSD Series – 3<sup>rd</sup> Generation

Harnessing the speed of the SATA III interface

## Industry-Leading Performance

The third generation SandForce-Driven Vertex 3 Solid State Drives Series is designed and built to unleash the full potential of the 6Gbps SATA III interface. The OCZ Vertex 3 pushes the limits in both sequential and random data transfer rates, significantly improving your productivity, gaming, multimedia, and overall computing experience over any other solid state drive solution.

## A Superior PC Experience

In addition to maximum performance, a Vertex 3 upgrade promotes cooler, quieter, and more energy efficient conditions compared to traditional mechanical hard drives. With no moving parts, SSDs provide peace of mind with their superior durability and reliability. Vertex 3 SSDs work in perfect harmony with next generation platforms and operating systems to deliver the ultimate storage solution.

## APPLICATIONS

- Workstation PCs
- Desktop PCs
- Notebooks<sup>1</sup>

Performance <sup>1</sup>	120GB	240GB	480GB
Max Read <sup>2</sup>	up to 550 MB/s (SATA 6Gbps) up to 280 MB/s (SATA 3Gbps)	up to 550 MB/s (SATA 6Gbps) up to 280 MB/s (SATA 3Gbps)	up to 530 MB/s (SATA 6Gbps) up to 280 MB/s (SATA 3Gbps)
Max Write <sup>2</sup>	up to 500 MB/s (SATA 6Gbps) up to 260 MB/s (SATA 3Gbps)	up to 520 MB/s (SATA 6Gbps) up to 260 MB/s (SATA 3Gbps)	up to 450 MB/s (SATA 6Gbps) up to 260 MB/s (SATA 3Gbps)
4KB Random Read <sup>3</sup>	20,000 IOPS	40,000 IOPS	50,000 IOPS
4KB Random Write <sup>3</sup>	60,000 IOPS	60,000 IOPS	40,000 IOPS

System Configuration: Intel® Core™ i5 2500K processor, ASUS P8P67 Deluxe Board, Microsoft Windows 7 Ultimate 64-Bit

## SPECIFICATIONS

<b>NAND Components</b>	2Xnm Multi-Level Cell (MLC)
<b>Interface</b>	SATA III / 6Gbps (Backwards compatible with SATA II / 3Gbps, but optimized for SATA 6Gbps)
<b>Form Factor</b>	2.5 Inch
<b>Controller</b>	SandForce® 2281
<b>Dimensions (L x W x H)</b>	99.8 x 69.63 x 9.3 mm
<b>Seek Time</b>	0.1 ms
<b>Weight</b>	77g
<b>Power Consumption</b>	Idle: 1.65 Watts Active: 3 Watts
<b>Operating Temperature</b>	0°C ~ 55°C
<b>Storage Temperature</b>	-45°C ~ 85°C
<b>Shock Resistance</b>	1500G
<b>Certifications</b>	RoHS, CE, FCC
<b>MTBF</b>	2 million hours
<b>ECC Recovery</b>	Up to 55 bits correctable per 512-byte sector (BCH) *varies depending on exact configuration
<b>Product Health Monitoring</b>	Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)
<b>Serial ATA (SATA)</b>	Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.0. Fully compliant with ATA/ATAPI-8 Standard Native Command Queuing (NCQ)
<b>Operating System</b>	Windows XP 32-Bit and 64-Bit; Windows Vista 32-Bit and 64-Bit; Windows 7 32-Bit and 64-Bit; Mac OS X
<b>Power Requirements</b>	Standard SATA Power Connector
<b>Performance Optimization</b>	TRIM (requires OS support)
<b>System Integration</b>	Bundled with 3.5" desktop adapter bracket
<b>Service &amp; Support</b>	3-Year Warranty, Toll-Free Tech Support, 24 Hour Forum Support, Firmware Updates



<sup>1</sup> To achieve maximum performance specifications a native 6Gbps controller is suggested

<sup>2</sup> Maximum Sequential Speeds are determined using ATTO

<sup>3</sup> Small file I/O performance is measured using Iometer 2008, Queue Depth 32, 4KB Aligned

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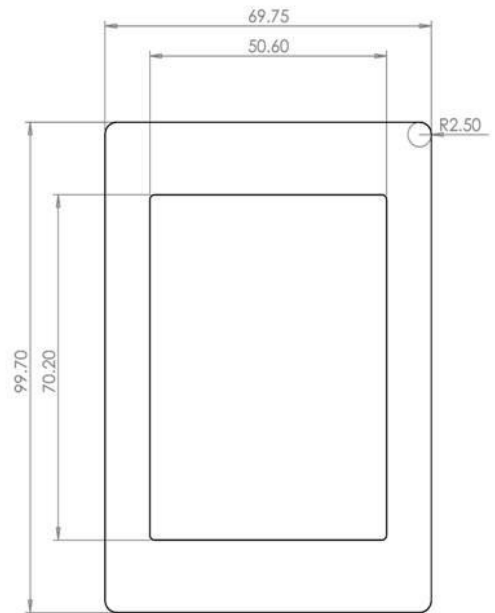
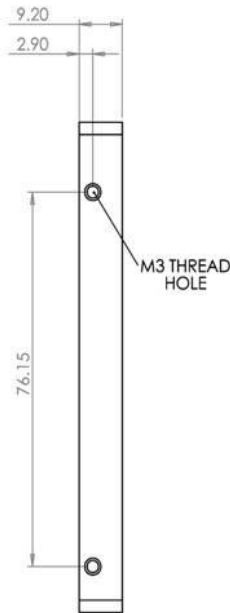
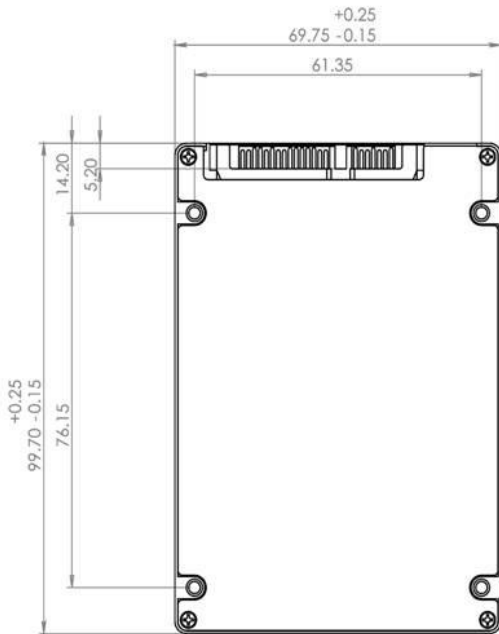
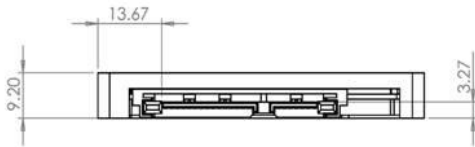
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## MECHANICAL SPECIFICATIONS



Box Dimensions:  
152.4 x 127 x 14.5mm



**NOTE:**

1. THIS DRAWING MUST BE USED TO IDENTIFY CRITICAL DIMENSIONS, TOLERANCES AND REFERENCE.
2. INTERPRET DIMENSION AND TOLERANCE PER ANSI 14.5M-1994
3. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS

## ORDERING INFORMATION

PRODUCT	RAW CAPACITY	IDEMA CAPACITY	PART NUMBER	UPC
Vertex 3 2.5" SSD	128GB	120GB	VTX3-25SAT3-120G	842024025443
Vertex 3 2.5" SSD	256GB	240GB	VTX3-25SAT3-240G	842024025436
Vertex 3 2.5" SSD	512GB	480GB	VTX3-25SAT3-480G	842024025559