



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

*Harnessing the speed of the SATA III interface*

## Industry-Leading Performance

Third generation SandForce Driven Vertex 3 Solid State Drives are designed & built to unleash the full potential of the 6Gbps SATA III interface. Vertex 3 pushes the envelope in speed, significantly improving your productivity and computing experience over any other SSD 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.

## APPLICATIONS

- Workstation PCs
- Desktop PCs
- Notebooks

Performance	60GB	90GB	120GB	240GB	480GB
Max Read SATA 6Gbps <sup>1</sup>	up to 535 MB/s	up to 550 MB/s	up to 550 MB/s	up to 550 MB/s	up to 530 MB/s
Max Write SATA 6Gbps <sup>1</sup>	up to 480 MB/s	up to 500 MB/s	up to 500 MB/s	up to 520 MB/s	up to 450 MB/s
Max Read SATA 3Gbps <sup>1</sup>	up to 280 MB/s	up to 280 MB/s	up to 280 MB/s	up to 280 MB/s	up to 280 MB/s
Max Write SATA 3Gbps <sup>1</sup>	up to 260 MB/s	up to 260 MB/s	up to 260 MB/s	up to 260 MB/s	up to 260 MB/s
4KB Random Read <sup>2</sup>	13,000 IOPS (50 MB/s)	20,000 IOPS (75 MB/s)	20,000 IOPS (75 MB/s)	40,000 IOPS (155 MB/s)	50,000 IOPS (195 MB/s)
4KB Random Write <sup>2</sup>	60,000 IOPS (235 MB/s)	60,000 IOPS (235 MB/s)	60,000 IOPS (235 MB/s)	60,000 IOPS (235 MB/s)	40,000 IOPS (155 MB/s)
Max 4KB Random Write <sup>3</sup>	80,000 IOPS (310 MB/s)	85,000 IOPS (330 MB/s)	85,000 IOPS (330 MB/s)	85,000 IOPS (330 MB/s)	40,000 IOPS (155 MB/s)
Sequential Read <sup>4</sup> AS-SSD	455 MB/s	425 MB/s	500 MB/s	510 MB/s	495 MB/s
Sequential Write <sup>4</sup> AS-SSD	85 MB/s	115 MB/s	155 MB/s	280 MB/s	225 MB/s
4K Random Read <sup>4</sup> AS-SSD	16,000 IOPS (65 MB/s)	25,000 IOPS (101 MB/s)	29,000 IOPS (115 MB/s)	53,500 IOPS (210 MB/s)	56,000 IOPS (220 MB/s)
4K Random Write <sup>4</sup> AS-SSD	21,000 IOPS (85 MB/s)	28,000 IOPS (110 MB/s)	38,000 IOPS (150 MB/s)	56,000 IOPS (220 MB/s)	38,000 IOPS (150 MB/s)

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>Weight</b>	77g
<b>Shock Resistance</b>	1500G
<b>Certifications</b>	RoHS, CE, FCC
<b>MTBF</b>	2 million hours
<b>Power Consumption</b>	Idle: 1.65 Watts Active: 3 Watts
<b>Temperature</b>	Operating: 0°C ~ 70°C Ambient: 0°C ~ 55°C Storage: -45°C ~ 85°C
<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; Linux
<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> Maximum Sequential Speeds are determined using ATTO

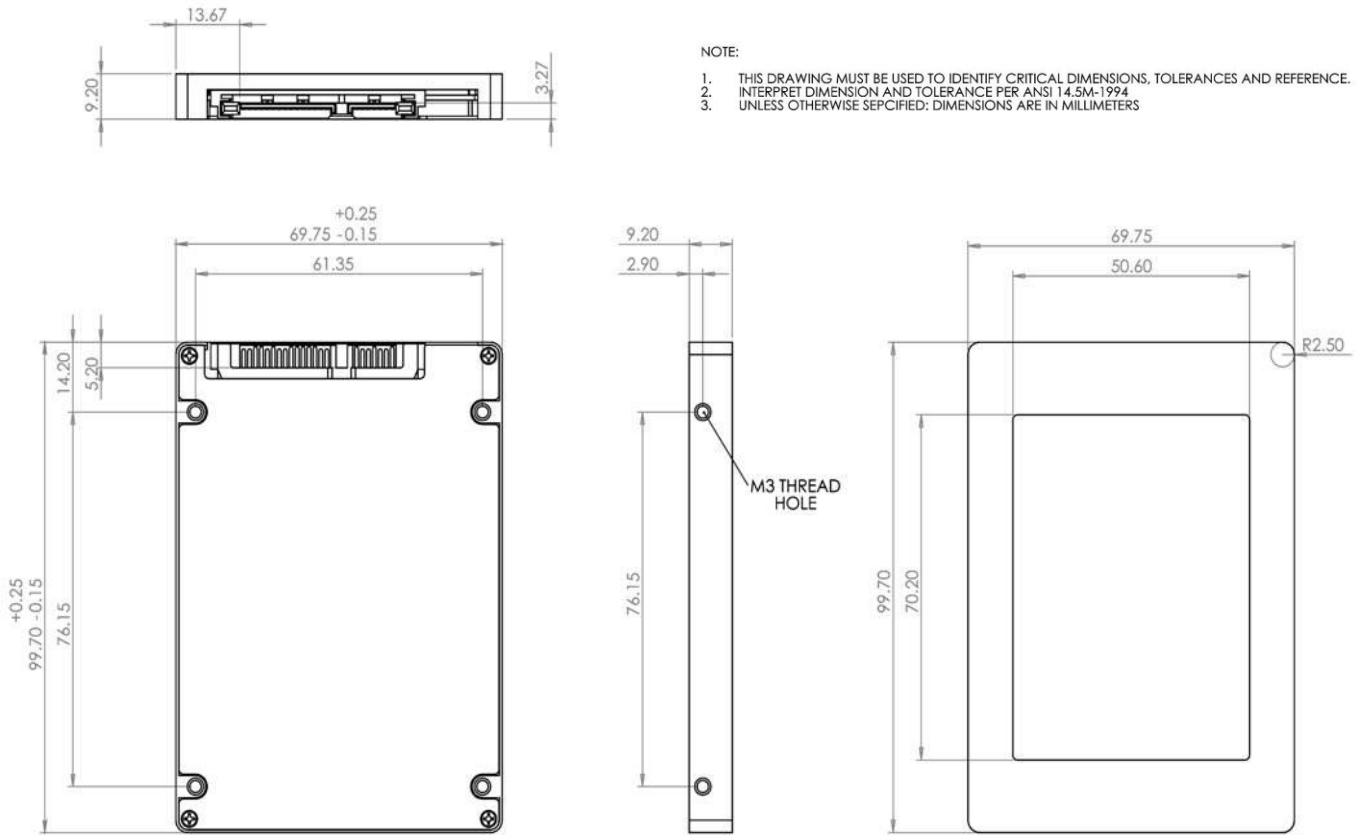
<sup>2</sup> Small file I/O performance is measured using Iometer2008, Queue Depth 32, 4KB Aligned; Logical Block Address (LBA) range: 85% of total drive capacity

<sup>3</sup> Small file I/O performance is measured using Iometer2008, Queue Depth 32, 4KB Aligned; Logical Block Address (LBA) range: 8GB

<sup>4</sup> Incompressible data performance is measured using AS-SSD; 64 thread for 4K specs

Note: Full performance achieved with a native SATA 6Gbps controller

## MECHANICAL SPECIFICATIONS



## PACKAGING SPECIFICATIONS

**Dimensions (L x W x H)** 152.4 x 127 x 14.5mm

**Weight** 220g



## ORDERING INFORMATION

PRODUCT	RAW CAPACITY	IDEMA CAPACITY	PART NUMBER	UPC
Vertex 3 2.5" SSD	64GB	60GB	VTX3-25SAT3-60G	842024027508
Vertex 3 2.5" SSD	96GB	90GB	VTX3-25SAT3-90G	842024029076
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