



OCZ Vertex 3 SSD Series – 3rd 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	120GB	240GB	480GB
Max Read ¹	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 ¹	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 ²	20,000 IOPS (75 MB/s)	40,000 IOPS (155 MB/s)	50,000 IOPS (195 MB/s)
4KB Random Write ²	60,000 IOPS (235 MB/s)	60,000 IOPS (235 MB/s)	40,000 IOPS (155 MB/s)
• Maximum 4KB Random Write ³	85,000 IOPS (330 MB/s)	85,000 IOPS (330 MB/s)	40,000 IOPS (155 MB/s)
Sequential Read ⁴ AS-SSD	500 MB/s	510 MB/s	495 MB/s
Sequential Write ⁴ AS-SSD	155 MB/s	280 MB/s	225 MB/s
4K Random Read ⁴ AS-SSD	29,000 IOPS (115 MB/s)	53,500 IOPS (210 MB/s)	56,000 IOPS (220 MB/s)
4K Random Write ⁴ AS-SSD	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

NAND Components	2Xnm Multi-Level Cell (MLC)
Interface	SATA III / 6Gbps (Backwards compatible with SATA II / 3Gbps, but optimized for SATA 6Gbps)
Form Factor	2.5 Inch
Controller	SandForce® 2281
Dimensions (L x W x H)	99.8 x 69.63 x 9.3 mm
Weight	77g
Shock Resistance	1500G
Certifications	RoHS, CE, FCC
MTBF	2 million hours
Power Consumption	Idle: 1.65 Watts Active: 3 Watts
Temperature	Operating: 0°C ~ 70°C Ambient: 0°C ~ 55°C Storage: -45°C ~ 85°C
ECC Recovery	Up to 55 bits correctable per 512-byte sector (BCH) *varies depending on exact configuration
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)
Serial ATA (SATA)	Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.0. Fully compliant with ATA/ATAPI-8 Standard Native Command Queuing (NCQ)
Operating System	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
Power Requirements	Standard SATA Power Connector
Performance Optimization	TRIM (requires OS support)
System Integration	Bundled with 3.5" desktop adapter bracket
Service & Support	3-Year Warranty, Toll-Free Tech Support, 24 Hour Forum Support, Firmware Updates



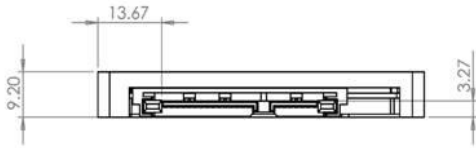
¹ Maximum Sequential Speeds are determined using ATTO

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

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

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

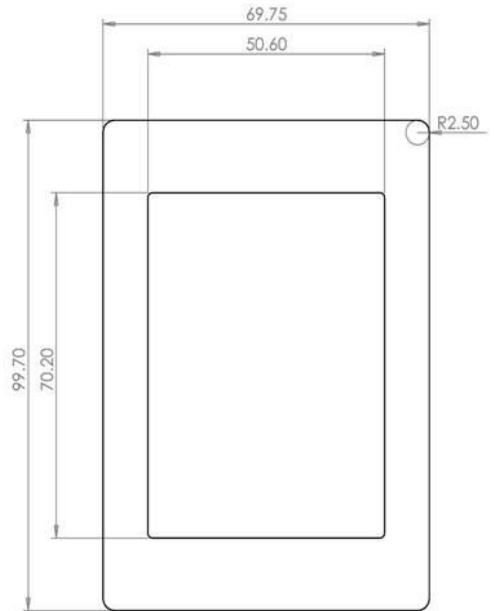
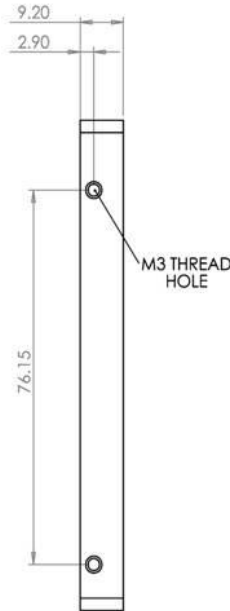
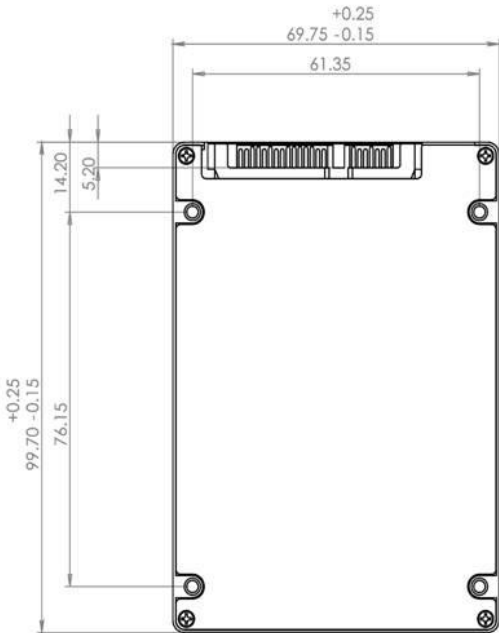
Note: Full performance achieved with a native SATA 6Gbps controller



MECHANICAL SPECIFICATIONS

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



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	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