OCZ

VERTEX 4

2.5" solid state drive

RETHINK STORAGE PERFORMANCE AND ENDURANCE.

As the fourth generation of the legendary Vertex family, the Vertex 4 Series pushes storage performance to the max and redefines the modern day computing experience. Vertex 4 SSDs are innovatively engineered to deliver industry-leading file transfer rates and superior system responsiveness, all while providing a more durable, reliable, and energy efficient storage solution compared to traditional hard drives. Designed to take full advantage of the SATA III interface, the Vertex 4 unleashes ultimate productivity, gaming, and multimedia applications.

Industry's Highest I/O Performance
Incredible performance at up to 120,000 IOPS in workstation and heavy-duty environments with multiple data threads

No Compression-Related Limitations
Better performance with "real world" data streams of varying "compressibility" as well as fully incompressible data such as videos and multimedia files, encrypted data, archive files such as .ZIP files and software.

Indilinx Infused™ Everest 2 Platform
Leading edge dual-ARM controller architecture enables faster performance like nothing else you've experienced.

Industry-Low Latency and Boot Ups
Boot up in as little as 9 seconds, and experience latencies of 0.02ms enabling superior responsiveness and data access.

Ndurance 2.0 Technology
Sophisticated advanced suite of NAND Flash management increases durability and reliability to expand the NAND's lifespan.

Industry-Leading Warranty
Limited 5 year warranty backed by OCZ's renowned service for ultimate peace of mind.

Excelling in Performance, No Matter the File Type

Mirroring real-world performance scenarios over a broad spectrum of consumer desktop and mobile applications, Vertex 4 SSDs are designed to provide a superior user experience and extreme performance over the other current solutions available on the market. With the cutting-edge Indilinx Everest 2 platform, Vertex 4 is optimized for consistent, high speeds with the complete spectrum of file types and sizes including both compressible and incompressible data for balanced performance like no other drive you've experienced.

INDUSTRY-LEADING PERFORMANCE

- High Performance SATA 6Gbps
- Best-in-Class Indilinx Controller Technology
- Up to 535 MB/s Sequential Reads
- Up to 95,000 Random Write IOPS
- Up to 120,000 Maximum IOPS
- Available in 128GB to 512GB Capacities
- Access Latency as Low as 0.02ms
- Strong performance at Lower Queue Depths
- TRIM Support
- 3.5" Desktop Adaptor Bracket Included

The OCZ SSD Advantage.

SSDs are **100x faster** than hard drives
SSDs offer more IOPS per dollar for **cost effectiveness**
SSDs are virtually silent with **no moving parts**

SSDs are **shock resistant** and **durable**
SSDs use **less power** for energy efficiency

Learn more at the OCZ SSD Zone

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SPECIFICATIONS

PHYSICAL	
Usable Capacities (IDEMA)	128GB, 256GB, 512GB
NAND Components	2Xnm Synchronous Multi-Level Cell (MLC)
Interface	SATA III / 6Gbps (backwards compatible with SATA II / 3Gbps)
Form Factor	2.5 Inch
NAND Controller	Indilinx Everest 2
DRAM Cache	Up to 1GB
Dimensions (L x W x H)	99.8 x 69.63 x 9.3 mm
Weight	101g

RELIABILITY/PROTECTION/SECURITY	
MTBF	2 million hours
Data Path Protection	ECC engine corrects up to 128 random bits/1KB
Data Encryption	256-bit AES-compliant, ATA Security Mode Features
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) Support
Flash Endurance Management	Indilinx Ndurance™ 2.0 Technology

ENVIRONMENTAL	
Power Consumption	Idle: 1.3 W Active: 2.5 W
Operating Temperature	0°C ~ 70°C
Ambient Temperature	0°C ~ 55°C
Storage Temperature	-45°C ~ 85°C
Shock Resistance	1500G
Certifications	RoHS, CE, FCC, KCC

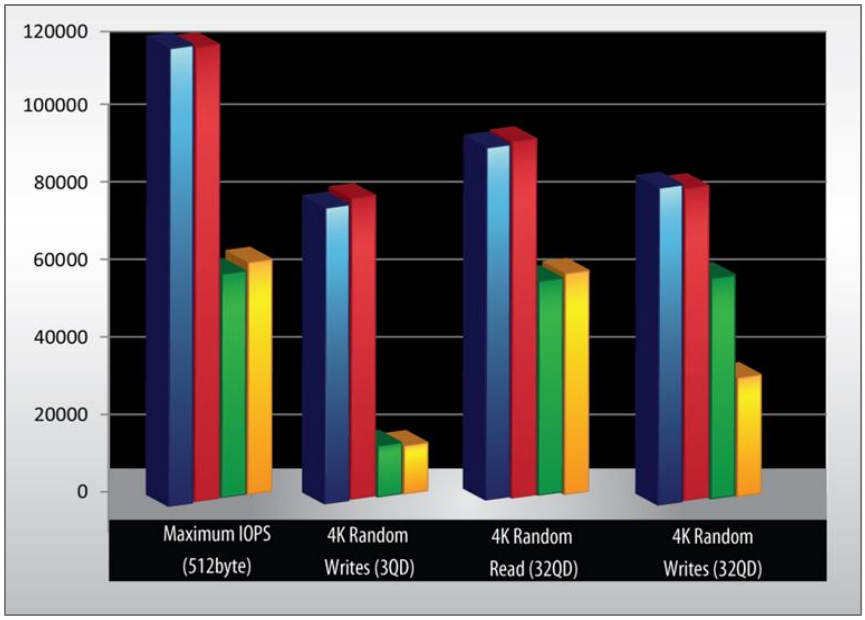
COMPATIBILITY	
Serial ATA (SATA	Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.0. Fully compliant with ATA/ATAPI-8 Standard Native Command Queuing (NCQ)
Operating System	Windows XP 32-bit /64-bit; Windows Vista 32-bit / 64-bit; Windows 7 32-bit / 64-bit; Linux; Mac OS X
Power Requirements	Standard SATA Power Connector

ADDITIONAL FEATURES	
Performance Optimization	TRIM (requires OS support), dynamic and static wear-leveling, background garbage collection
Other Performance Features	Ndurance 2.0 Technology (Reduced Write Amplification without Compression, Advanced Multi-Level ECC, Adaptive NAND Flash Management)
Service & Support	Limited 5-Year Warranty, Toll-Free Tech Support, 24 Hour Forum Support

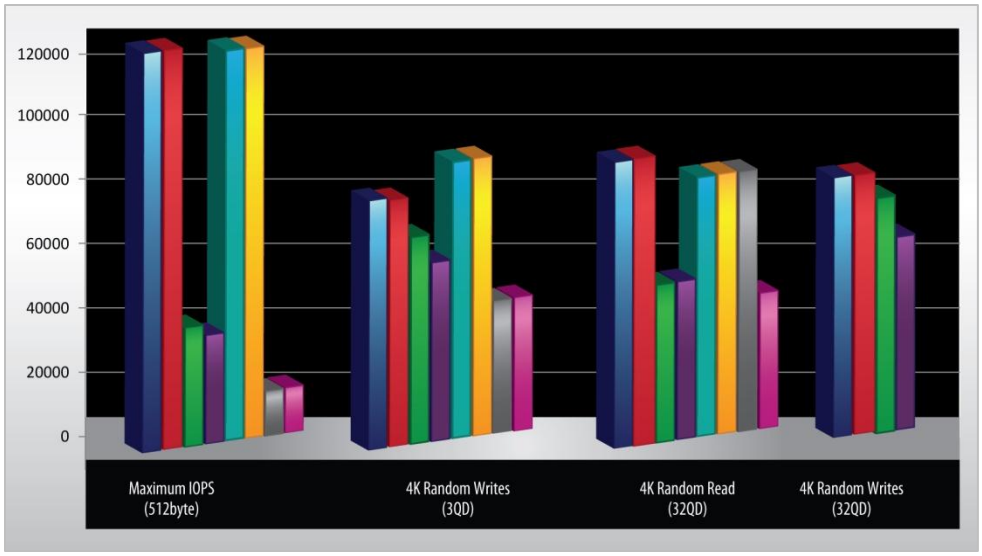
PERFORMANCE	128GB	256GB	512GB
Max Read[1]	up to 535 MB/s	up to 535 MB/s	up to 535 MB/s
Max Write[1]	up to 200 MB/s	up to 380 MB/s	up to 475 MB/s
Max 4KB Random Read[2]	90,000 IOPS	90,000 IOPS	95,000 IOPS
Max 4KB Random Write[2]	85,000 IOPS	85,000 IOPS	85,000 IOPS
Maximum IOPS[3]	120,000 IOPS	120,000 IOPS	120,000 IOPS

[1] Maximum sequential speeds are determined using ATTO
[2] Small file I/O performance is measured using Iometer 2010 (1.1.0 rc1)
[3] Maximum I/O performance is measured using Iometer 2010, 512 bytes Random Read

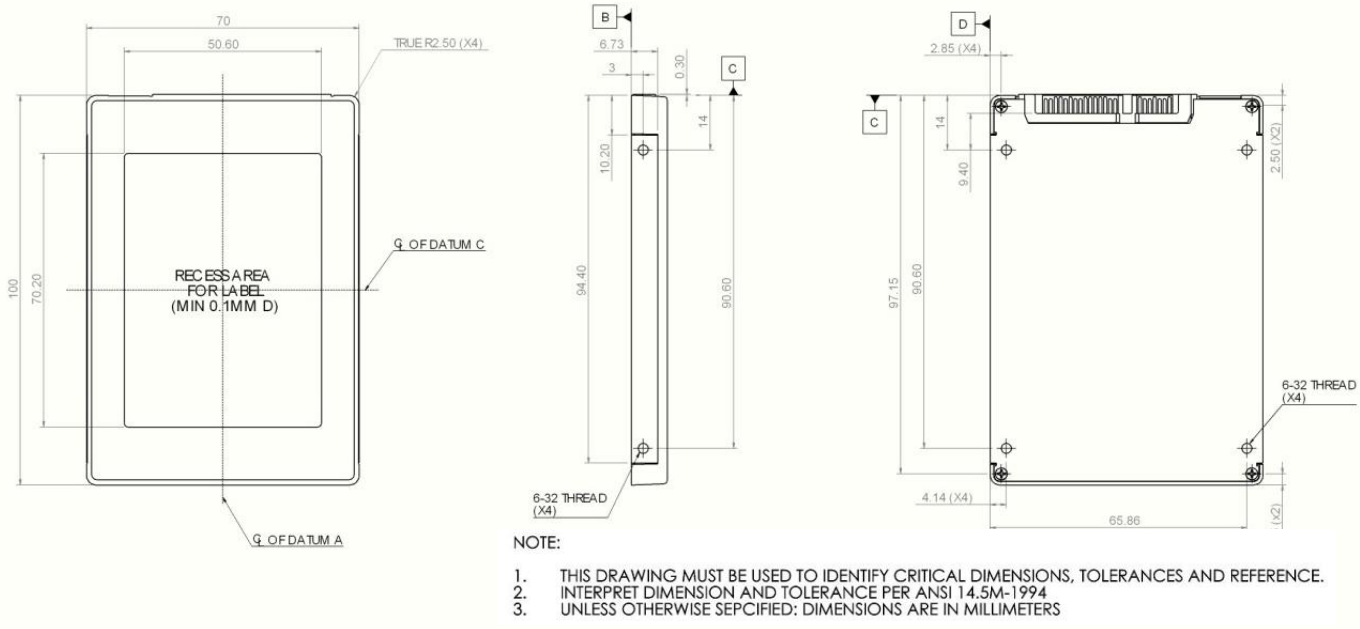
Vertex 4 512GB SSD IOMETER 2010 Compressible-Incompressible Performance



Vertex 4 128GB-256GB SSD IOMETER 2010 Compressible-Incompressible Performance

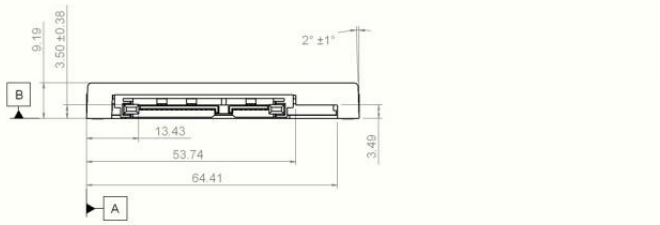


MECHANICAL SPECIFICATIONS



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 SEPCIFIED: DIMENSIONS ARE IN MILLIMETERS



PACKAGING SPECIFICATIONS

Dimensions (L x W x H)	190.5mm x 114.3mm x 19.05mm
Weight	120g

ORDERING INFORMATION

PRODUCT	PART NUMBER	UPC
Vertex 4 128GB 2.5" SSD	VTX4-25SAT3-128G	842024030355
Vertex 4 256GB 2.5" SSD	VTX4-25SAT3-256G	842024030362
Vertex 4 512GB 2.5" SSD	VTX4-25SAT3-512G	842024030379