Vertex 460 Series

SATA 3.0 2.5" SSD

Product Highlights

- Proprietary Barefoot 3 M10 controller technology delivers superior performance and endurance, combined with the latest generation 19nm flash as OCZ's most cost-effective SSD upgrade option

- Advanced suite of NAND flash management keeps your drive at higher sustained performance over the long term

- Designed for ultimate reliability at an excellent value with in-house technology and high quality components

- Putting emphasis on client workload endurance, rated at 20GB/day of host writes for 3 years

- Excels in both incompressible and compressible data types such as multimedia, encrypted data,. ZIP files and software

- Bundled with a 3.5-inch desktop adapter bracket and Acronis® True Image™ cloning software to easily transfer data from your old hard drive

- Sleek alloy housing offers slimmer 7mm z-height for compatibility with the ultra-thin notebooks

Make the shift to next generation Vertex 460 SSD

Combining OCZ's own controller design with the latest generation of flash, Vertex 460 keeps your computing experience ahead of the game. A faster, snappier, and more reliable system is what you can expect from a high-performance yet value-minded Vertex 460 upgrade.

It's storage for your multimedia, multitasking world

The OCZ Vertex 460 Series delivers the performance, productivity, and energy efficiency your system is craving. Say goodbye to lag and get a computing experience worthy of your time.

Performance that matters

Do you write a lot of data? Vertex 460 delivers leading write speeds that you won't get with any other solution. No fancy behind-the-scenes tricks, just pure storage performance.

Reliability and durability from the inside out

With quality SSD technology built into every drive, the Vertex 460 Series is built to provide years of hard drive-humiliating performance. Ditch that spinning HDD for some storage peace of mind.

Performance Refined

Start fast and stay fast with consistently high speeds and mixed workload performance in client workstation applications.

Performance	120GB	240GB	480GB
Max Read[1]	530 MB/s	540 MB/s	545 MB/s
Max Write[1]	420 MB/s	525 MB/s	525 MB/s
Random Read (4K QD32)[2]	80,000 IOPS	85,000 IOPS	95,000 IOPS
Random Write (4K QD32)[2]	90,000 IOPS	90,000 IOPS	90,000 IOPS
Steady State Random Write (4K QD32)[3]	12,000 IOPS	21,000 IOPS	23,000 IOPS

1. Maximum sequential speeds measured with ATTO
2. Measured with Crystal Disk Mark, 1000MB file size, QD32
3. Measured with Iometer 2010, 12 hour precondition to SNIA guidelines

Physical Specifications

Usable Capacities	120GB, 240GB, 480GB
NAND Components	19nm Multi-Level Cell (MLC) Flash
Interface	SATA 3.0 6Gb/s
Controller	Barefoot 3 M10
Form Factor	2.5-inch; ultra-slim 7mm
Dimensions	99.7 (L) x 69.75 (W) x 7mm (H)
Drive Weight	113g

Reliability / Security Specifications

Data Path Protection	BCH ECC corrects up to 44 random bits/1KB
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) Support
Endurance	Rated for 20GB/day of host writes for 3 years under typical client workloads
Encryption	AES-256
MTBF	2 million hours

Compatibility

Serial ATA	Standard SATA power connector ; Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.0. Fully compliant with ATA/ATAPI-8 Standard Native Command Queuing (NCQ)
Operating Systems	Windows, Mac, Linux
Targeted Applications	Client workstations and laptops

Environmental Specifications

Power Consumption	Idle: 0.60W Active: 2.70W
Operating Temperature	0°C ~ 70°C
Storage Temperature	-45°C ~ 85°C
Shock Resistance	1500G/0.5ms
Vibration (Operational)	2.17Grms (7-800Hz)
Vibration (Non-Operational)	16.3Grms (20-2000Hz)
Certifications	UL C/US, FCC, CE, C-Tick, KCC, BSMI, VCCI, WEEE

OCZ may make changes to specifications and product descriptions at any time, without notice.

Additional

Performance Optimizations	TRIM (requires OS support), Idle Time Garbage Collection
Package Contents	Acronis True Image HD cloning software (Windows 8 and below) registration key; 3.5" desktop adaptor
Warranty	3-Year Warranty, Toll-Free Tech Support, 24 Hour Forum Support

Ordering Information

	Model	Part Number	UPC
Vertex 460	120GB	VTX460-25SAT3-120G	842024036234
	240GB	VTX460-25SAT3-240G	842024036241
	480GB	VTX460-25SAT3-480G	842024036258