



# Zeus<sup>IOPS</sup> Solid State Drive

## Enterprise-Class Storage Solutions

Zeus<sup>IOPS</sup> is a unique solid state drive designed to create a storage performance revolution for enterprise applications. Zeus<sup>IOPS</sup> enables storage systems to realize outstanding, sustainable Input/Outputs per second (IOPS) to relieve performance bottlenecks associated with traditional rotating media disk drives.

Zeus<sup>IOPS</sup> breathes new life into existing storage infrastructures, increases server utilization, and reduces the total cost of ownership. Zeus<sup>IOPS</sup> eliminates the wait time for processors associated with rotating media access latency. One Zeus<sup>IOPS</sup> drive can replace multiple hard drives, eliminate the need for additional volatile DRAM, and ease the cliff-like performance drop-off in performance from DRAM to rotating media in storage systems.

Zeus<sup>IOPS</sup> Solid State Drive is revolutionizing the way businesses access critical data by overcoming the performance bottleneck inherent to traditional rotating media HDD storage.

### Zeus<sup>IOPS</sup> FEATURES

- Random transactional performance in excess of 46,000 IOPS sustained
- Sustained random or sequential large block transfers to 220 MB/s
- Built-in advanced wear leveling
- Less than half the power consumption of 15K HDD's
- 3.5" form factor for drop-in replacement into existing storage systems
- Over 200 times faster at transactional performance than a 15K RPM enterprise class disk drive

### Related Applications

- Enterprise Computing
- Enterprise Storage

### Related Technology

- TotalDriveProtection
- Flash Management
- Flash Controller Technology
- Life Cycle Management
- Power-down Data Protection

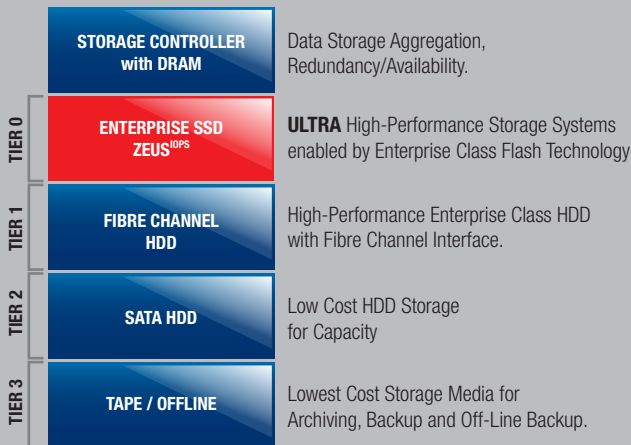
### A Green Leader

With data center storage capacity requirements increasing 50-60% per year without an end in sight, it is more important than ever to keep volatile power and cooling requirements in check. Without motors to spin or parts to move, Zeus<sup>IOPS</sup> consumes about a third of the power of a typical data center disk drive and requires far less cooling. Zeus<sup>IOPS</sup> is available in a lead-free (RoHS-6) version.

# Specifications

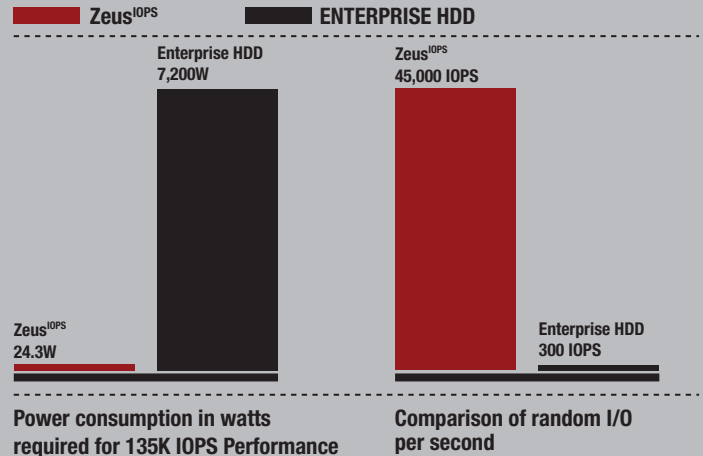
<b>Product Type</b>	<b>Zeus<sup>IOPS</sup> SSD</b>		
<b>Capacity (Unformatted)</b>	up to 512 Gbytes		
<b>Interface</b>	FC	SATA	SAS
Transfer Rate	4Gb/sec	3Gb/sec	3Gb/sec
Availability	Dual-port	Single-port	Dual-port
<b>Performance</b>			
Average Access Time	20-120 microseconds		
Sustained Read Throughput	220 Mbytes/sec		
Sustained Write Throughput	115 Mbytes/sec		
Random IOPS Read Operations	45,000 IO/sec, sustained		
Random IOPS Write Operations	16,000 IO/sec, sustained		
<b>Physical</b>			
Form Factor	3.5-inch	2.5-inch	
Dimensions (mm)	147mm (L) x 101.6mm (W) x 20.0mm (H)	100.2mm (L) x 69.8mm (W) x 15.0mm (H)	
Weight	<0.4 kg		
Typical Power Consumption	640mA	640mA	
<b>Environmental</b>			
Operating Temperature	Commercial: 0° to 60°C		

## Performance Tiers for Enterprise Storage Systems



## Power and Performance Comparisons

STEC Enterprise SSD vs. Enterprise HDD



## Product Key

**Part #:** Z(##)I(IR)FF-(xxx)UT-XXX

Z## = Zeus Family (## = Number of Channels)

I = Interface	IR = Interface Revision	FF = Form Factor	xxx = Capacity	U = RoHS Compliant
F: FC	A: 1.0Gb	2B: 2.5 in. (15mm Z-Height)	T = Temperature	
Z: SAS	B: 1.5Gb	3B: 3.5 in. (20mm Z-Height)	C: Commercial (0° to 60°C)	
S: SATA	C: 2.0Gb			
	D: 3.0Gb			
	E: 4.0Gb			
			XXX = Customer Specific (Internal Use only)	

### Worldwide Headquarters

STEC, Inc.  
3001 Daimler Street  
Santa Ana, California 92705 USA  
Tel: (949) 476-1180  
Fax: (949) 476-1209  
Web: www.stec-inc.com

### STEC Europe

Donau-City-Strasse 1  
1220 Vienna, Austria  
Tel: +43-1-263-38-08  
Fax: +43-1-263-37-65

### STEC Japan

Arents Daikanyama 114  
11-1 Hachiyama-cho  
Shibuya-ku, Tokyo  
150-0035 Japan  
Tel: +81 (0) 3-5428-2231  
Tel: +81 (0) 3-5489-0230

### STEC Malaysia

STEC Technology Sdn Bhd  
Plot 107 Bayan Lepas Industrial Park  
Phase 4, 11900 Penang, Malaysia  
Phone: +60 (4) 6198888

### STEC China

RM1805, 18F Bund Centre  
222 Yan An Rd. East  
HuangPu District Shanghai, 200002  
P.R. China  
Tel: +81 21 6132 3892 ext. 629