

ZeusIOPS® High-Performance Enterprise-Class SSDs



Data is money in today's economy, and accelerating access to data is a proven success formula for enterprises and service providers worldwide. ZeusIOPS® SSDs are a uniquely engineered family of solid-state drives (SSDs) that outperform conventional hard disk drives. ZeusIOPS SSDs break the bottlenecks associated with rotating media by taking sustainable IOPS performance to new levels.

In addition to their world-class performance, ZeusIOPS SSDs are the most reliable, longest lasting SSD solutions now available for the enterprise market. STEC's patented SSD controller technology, Secure Array of Flash Elements™ (SAFE) Technology and CellCare™ Technology provide multi-level cell (MLC) and single-level cell (SLC) storage solutions that deliver a combination of power/performance and endurance that's unmatched in the industry.



| Features | Benefits |
|---|---|
| Choice of SAS SSD Fibre Channel and Serial Attached SCSI interfaces in 2.5-inch and 3.5-inch form factors | ZeusIOPS SSDs are the industry's gold standard for enterprise performance SSDs supporting servers and Tier 0 storage applications |
| Very high throughput | Random transactional performance exceeds 120,000 sustained IOPS, with sustained random or sequential large block transfers up to 500MB/s |
| Power/performance efficiency | A single ZeusIOPS SDD uses less than half the power consumption of 15 HDDs and provides data persistence and instant backup and recovery in the event of an unplanned power failure |
| STEC SAFE Technology | Provides the ability to recover from NAND flash page, block, die and chip failures and maximizes the Mean Time Between Failure (MTBF) and Mean Time To Data Loss (MTTDL) |
| STEC CellCare Technology | Extends the life of flash media to deliver enterprise-class endurance through advanced signal processing and adaptive flash management algorithms |

Break the HDD Bottleneck

Fast access to data means everything in enterprise data centers, SAN and NAS storage applications. When microseconds count, you don't have time for rotating media latency. While HDDs have access times measured in milliseconds, ZeusIOPS SSDs deliver data in microseconds. In fact, ZeusIOPS SSDs can deliver the performance of as many as 200 HDDs with just a single SSD, and ZeusIOPS solutions fit seamlessly into existing storage infrastructures.

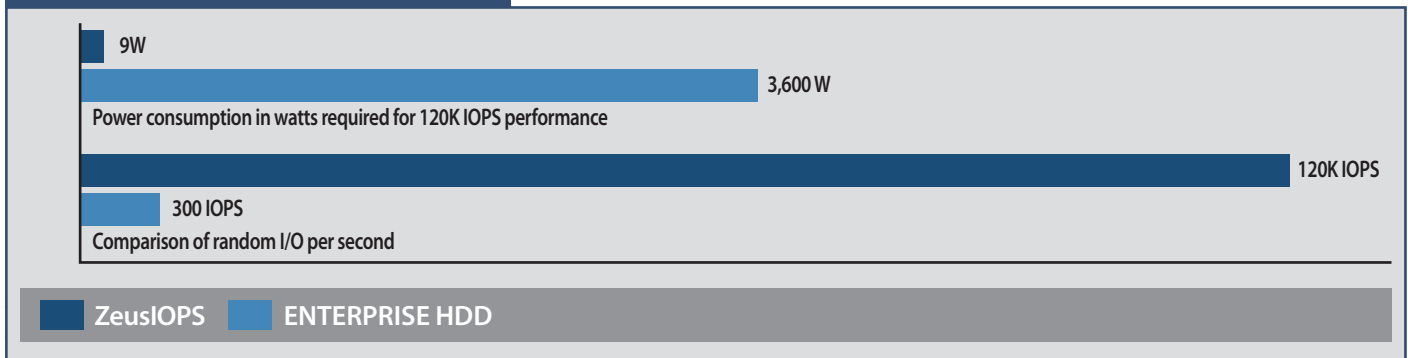
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Technical Specifications

| ZeusIOPS SSD | | | | | |
|----------------------|--------------------------------|--------------------------------------|----------------------------|---------------------------------------|---------------|
| Interface | Capacity | SLC: 100/200/400GB | | SLC: 100/200/400GB | |
| | | MLC: 100/200/400/800GB | | MLC: 100/200/400/800GB | |
| | Type | FC | | SAS | |
| | Transfer Rate | 4Gb/s | | 6Gb/s | |
| | Availability | Dual-port | | Dual-port | |
| Performance | | SLC | MLC | SLC | MLC |
| | Sustained Read Throughput | Up to 380MB/s ¹ | Up to 380MB/s ¹ | Up to 500MB/s | Up to 500MB/s |
| | Sustained Write Throughput | Up to 360MB/s | Up to 300MB/s | Up to 360MB/s | Up to 300MB/s |
| | Max 100% Read IOPS | Up to 120,000 | Up to 115,000 | Up to 120,000 | Up to 115,000 |
| | Max 100% Write IOPS | Up to 70,000 | Up to 70,000 | Up to 70,000 | Up to 70,000 |
| | Max 100% Random Read IOPS | 70,000 (4K) | 50,000 (8K) | 70,000 (4K) | 50,000 (8K) |
| | Max 100% Random Write IOPS | 36,000 (4K) | 15,000 (8K) | 36,000 (4K) | 15,000 (8K) |
| | Random 70% Read/30% Write IOPS | 45,000 (4K) | 25,000 (8K) | 45,000 (4K) | 25,000 (8K) |
| Physical | Form Factor | 3.5-inch | | 2.5 & 3.5-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 | | <0.4 kg | |
| Environmental | Operational Temperature | 0° to 60°C (Commercial) | | 0° to 60°C (Commercial) | |

¹The drive saturates the IO bus

Power and Performance Comparisons STEC Enterprise SSD vs. Enterprise HDD



STEC: The Leader in Enterprise-Class Solid-State Solutions

From storage to server applications, STEC enterprise-class solid-state solutions are designed from the ground up to help you manage unprecedented volumes of data by accelerating access to the data you need, and reducing the cost to access that data. By incorporating STEC SSDs top-to-bottom in your enterprise infrastructure, you can deploy tiered solutions tailored to your exacting requirements, from reducing server sprawl to optimizing server utilization and optimizing address space.

At STEC, we are maintaining our enterprise storage leadership by investing world-class engineering resources to design and develop advanced solid-state technologies that maximize reliability, availability and serviceability, while reducing total cost of ownership in your storage and server applications.

For more information on STEC products, solutions and technology, please visit www.stec-inc.com

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