

ZeusIOPS® XE

Extreme Endurance Enterprise-Class SSDs



Time is money in today's economy, and accelerating access to data is a proven formula for IT organizations worldwide. To help maximize its life, especially in write-intensive enterprise applications, STEC's flagship ZeusIOPS® SSD family has been expanded to include the ZeusIOPS XE (Extreme Endurance) SSD, the industry's highest-endurance MLC flash-based SSD, which is uniquely engineered to outperform and outlast conventional hard disk drives (HDDs) and competing SSDs.

Based on STEC's fourth-generation SSD controller technology, ZeusIOPS XE SSDs are purpose-built for write-intensive enterprise applications, and utilize STEC's proprietary CellCare™ Technology to deliver 30 full capacity random writes per day, every day, for five years. To provide further MLC SSD reliability through its SSD controller, ZeusIOPS XE SSDs also incorporate Secure Array of Flash Elements™ (SAFE) Technology that eliminates virtually all failures associated with MLC flash while maximizing the Mean Time Between Failure (MTBF) and Mean Time To Data Loss (MTTDL).



Features	Benefits
High endurance	Extremely high endurance enterprise-grade MLC solid-state drive enabling a lifetime 33 Petabytes write capability that rivals SLC endurance
Very high throughput	Random transactional performance exceeds 115,000 sustained IOPS, with sustained random or sequential large block transfers up to 500MB/s
Power/performance efficiency	A single ZeusIOPS SSD 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

Engineered for Endurance

Fast access to data means everything in enterprise data centers, SAN and NAS storage applications. In write-intensive applications, every microsecond counts, so you don't have time for rotating media latency. While HDDs have access times measured in milliseconds, ZeusIOPS XE SSDs deliver data in microseconds. But performance without endurance in write-intensive applications means more drive wear. ZeusIOPS XE SSDs can write the full capacity of the drive at least 30 times a day for five years, significantly improving endurance within the ZeusIOPS family. For server-side caching, auto-tiering, metadata management, logging and journaling, ZeusIOPS XE SSDs are an exceptional match within existing storage infrastructures, and for reducing the total cost of ownership (TCO) of the SSDs.

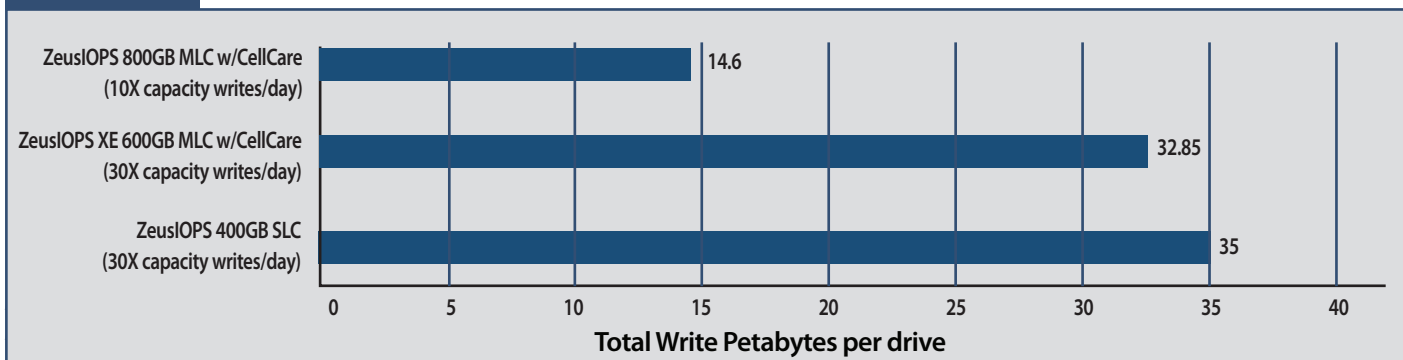


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Technical Specifications

ZeusIOPS XE (Extreme Endurance) SSD			
Interface	Capacity	32nm MLC: 300GB	32nm MLC: 600GB
	Type	SAS	SAS
	Transfer Rate	6Gb/s	6Gb/s
	Availability	Dual-port	Dual-port
Endurance	Total PB Written (8K writes)	15.5	32.9
	Full Capacity Writes/Day	30X	30X
Performance	Sustained Read Throughput		Up to 500MB/s
	Sustained Write Throughput		Up to 275MB/s
	Max 100% Read IOPS		Up to 115,000
	Max 100% Write IOPS		Up to 70,000
	Max 100% Random Read IOPS		50,000 (8K)
	Max 100% Random Write IOPS		32,000 (8K)
	Random 70% Read/30% Write IOPS		38,000 (8K)
Physical	Form Factor	1.8/2.5/3.5-inch	1.8/2.5/3.5-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)

Endurance



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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