

ZeusRAM™

Low Latency Enterprise-Class SSDs



STEC ZeusRAM™ solid-state drives (SSDs) deliver DRAM-like read and write speeds with the persistent data storage of flash.

ZeusRAM is an enterprise-class, power-safe and flash-backed DDR3 RAM drive that is targeted for high write transactional environments requiring fast write commit capabilities to speed up end user application throughput of NAS and unified storage appliances. During the warranted life of the product, enterprise applications can write to ZeusRAM at extremely high speeds, 24 hours per day, 365 days per year, year after year and the drive will not wear out — even under the most write-intensive workloads. STEC's PowerSafe™ technology provides critical data protection with instant data backup and recovery in the event of power interruption. ZeusRAM has the additional advantage of being hot-pluggable, so SSDs can be swapped in and out without system downtime.



Features	Benefits
3.5-inch form factor DDR3 DRAM-based RAM drive	Integrated small-footprint solution eliminates the need for volatile DRAM
Dual Port 6.0Gb SAS host connect	Robust, high throughput SCSI-compatible interface for use in NAS and unified storage appliances to speed up storage performance for application acceleration
Low latency	Reduces file system overhead in enterprise appliances, improving efficiency and accelerating applications
PowerSafe technology	Provides data persistence and instant backup and recovery in the event of an unplanned power failure
Full data-path protection	Protects critical data from corruption
Hot pluggable	Designed for the easy removal and replacement of drives without system downtime
Wear resistant	Will not wear out, even under the most write-intensive enterprise workloads

Speeding Access to the Data You Need

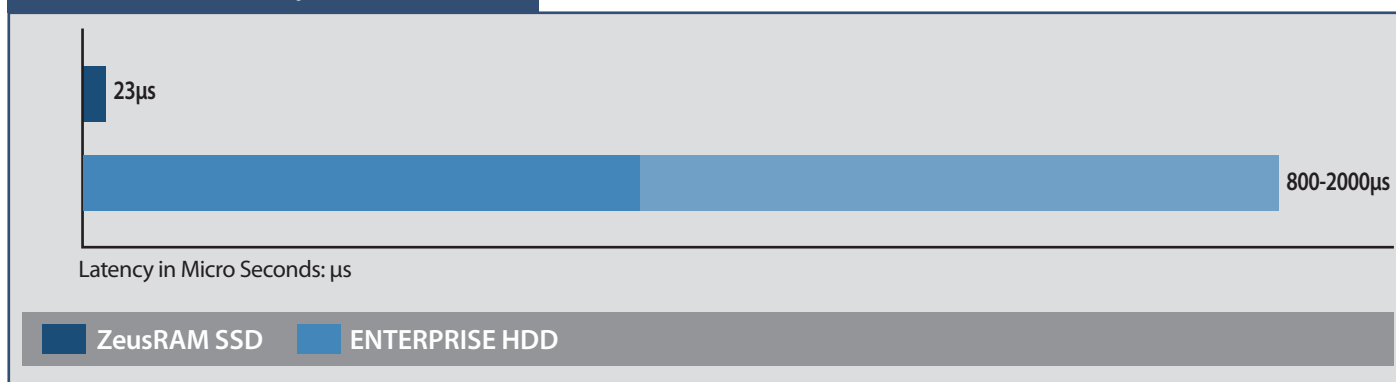
ZeusRAM SSDs are designed to give you fast access to the right data, at the right time. Low-latency ZeusRAM SSDs accelerate file system metadata stores, file system journaling and logging functions, database indexing and hashing operations to optimize data handling in a variety of enterprise appliances and applications. By cutting file system overhead, ZeusRAM SSDs free NAS and unified storage appliances to handle user IO requests more efficiently, which translates to faster enterprise application performance.

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Technical Specifications

ZeusRAM		
Interface	Type	SAS (Serial Attached SCSI)
	Transfer Rate	6Gb/s
	Availability	Dual-port
Performance	Average Latency	<23µs
	Sustained Read Throughput	900 MB/s
	Sustained Write Throughput	800 MB/s
	Random IOPS Read Operations [4k block]	100,000 IOPS, sustained
	Random IOPS Write Operations [4k block]	100,000 IOPS, sustained
Physical	Form Factor	3.5-inch
	Dimensions (mm)	147mm (L) x 101.6mm (W) x 25.4mm (H)
	Power Supply	5V, 12V
Environmental	Operating Temperature	Commercial: 0° to 60°C

Response Time for Enterprise Applications ZeusRAM 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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