

STEC claims highest-endurance SSD

By Janine Love – EE Times
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STEC, Inc. has expanded its ZeusIOPS® SSD family to include an ultra-high endurance model. Purpose-built for write-intensive enterprise applications, STEC's new ZeusIOPS XE (Extreme Endurance) SSD is a multi-level cell (MLC) flash-based drive that provides at least 30 full capacity writes per day, every day, for five years. ZeusIOPS XE SSDs are well suited for write-intensive applications with the high endurance necessary to support server-side caching, auto-tiering, metadata management and logging, and analytics.

The ZeusIOPS XE SSD utilizes a combination of STEC's proprietary fourth-generation ASIC-based SSD controller and its proprietary CellCare technology. It can fully write about 33 Petabytes of data over the working life of a 600GB drive (which equates to a workload of writing the full capacity of the drive 30 times per day for 5 years).

Offered in MLC capacities of 300GB and 600GB, STEC's new ZeusIOPS XE SSDs support latency responses up to 50 microseconds and have a 6Gb Serial-Attached SCSI (SAS) interface. From a performance perspective, both the 300GB and 600GB capacity drives support up to 500MB/s (sustained Read throughput); up to 275MB/s (sustained Write throughput), up to 115,000 input/output operations per second (IOPS) for Read operations; up to 70,000 IOPS for Write operations; and 38,000 IOPS for 8K random Read/Write operations (70 percent/30 percent).

ZeusIOPS XE SSDs are now sampling to customers.