



FAST.
SCALABLE.
BEST TCO.

The CSD 2000 Series is the ONLY PCIe SSD with data-path **compression** and **decompression**.

Enhanced Performance

Reduced Storage Cost

EROSPIKE



1.5x Transactions Per Second

ACT 5.2 Read-Write

1.5x Transactions Per Second

SysBench Read-Write

2.8x Transactions Per Second

SysBench update_non_index

2:1 Data-Path Compression



DOUBLES
USABLE
CAPACITY



Fast

Seamlessly achieve performance benefits on any Flash application. 40-70% better IOPs than leading NVMe SSDs on mixed OLTP read/write workloads.



Scalable

Offloading compute to the storage drive removes conventional CPU bottlenecks as overall storage increases. Easily and fearlessly expand your infrastructure.



Best TCO

Penalty-free compression means massive increase in storage capacity but not higher cost compared to leading NVMe drives. Save 50%+ on Flash!

COMPUTATIONAL
STORAGE

Learn more at www.scaleflux.com

Schedule a proof of concept today. info@scaleflux.com

DATA-DRIVEN APPS GRAVITATE TO COMPUTATIONAL STORAGE

The ScaleFlux[®] Computational Storage Drive CSD 2000 Series brings exceptional performance, scalability and TCO savings to mainstream Flash deployments. ScaleFlux drives combine up to 8TB of the latest 3D NAND Flash technology with hardware-accelerated compute engines, achieving incredible data read/write speeds and consistently low latency.

Consistently Exceptional Performance

CSD 2000 sets a new standard for performance consistency across workloads (random read/write IOPs). Where other SSDs' performance rapidly drops off as even a small percentage of Writes are introduced into the workload, the CSD 2000 maintains high performance within a narrow band regardless of the Read/Write mix.

TCO Savings

CSD 2000 has the best True Cost of Ownership:

1. it improves datacenter efficiency through achieving higher application throughput - getting more work done per server/watt/datacenter tile
2. it cuts the cost per usable GB of Flash in half by compressing the data and exposing the space savings to the file system.
3. its controller can be reprogrammed in-system throughout its life cycle



RESPONSIVE PERFORMANCE



AFFORDABLE SCALING



AGILE PLATFORM

ScaleFlux[®] CSD 2000 Series

Form Factor

- PCIe AIC & U.2 Drive

Flash Capacity

- Up to 16TB Effective Capacity with data path compression (8TB raw)

Interface

- PCIe Gen3 x4

Compute Engines

- GZIP Compression / Decompression
Customizable Database Engine Accelerator

Tunable FTL/FM

- Adjust drive parameters to optimize performance and \$/GB

Temp & Power Throttle

- Avoid overheating and comply with slot power limitations

Data Protection

- End-to-end data protection and ECC (Error Correction Code) on all internal memories in the data path;
Integrated LDPC engine and Flash die RAID assures 10⁻²⁰ UBER

Power Loss Protection

- Complete data protection from unplanned power loss

In-Place Updates

- Evolve your infrastructure with new applications through in-system programmability of CSD hardware, just like with software

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