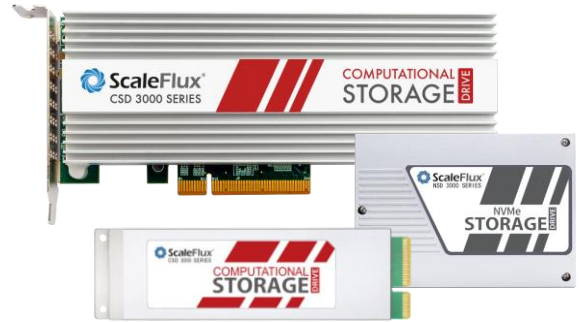


Unrivaled NVMe performance and endurance for the most demanding data center workloads.

### Solution Overview

The ScaleFlux 3000 series of NVMe-based SSDs combine industry leading performance with innovative computational storage capabilities to deliver value unmatched by ordinary NVMe drives. The NSD 3000 offers a pure NVMe experience with built-in transparent compression and encryption. The CSD 3000 opens the door to extended drive capacities and custom designed computational functionality to extract the most value from your data-intensive applications.



### Key Specifications & Performance

Form Factors	2.5" U.3 (15mm), E1.x (15mm, 25mm), HHHL AIC
Default Capacities	3.84TB, 7.68TB, 15.26TB
Host Interface	PCIe <sup>®</sup> Gen4 x4/x8 with Dual Port Support (2x2),
Virtualization	SR-IOV with 16 Virtual Functions
Security	TCG Opal 2.1 with HW Security Acceleration
Management	NVMe-MI 1.2 over SMBus
Power	<20W Typical, <5W Idle
Reliability	End-to-End Datapath Protection, Power loss protection, LDPC Error Correction, NAND die RAID

Sequential Read	7.1 GB/s
Sequential Write	4.8 GB/s
Random Read (4kB)	1550 kIOPS
Random Write (4kB)	350k IOPS
<b>Random Write Performance Boost with Compressible Data (2:1)</b>	<b>1000 kIOPS (&gt;2.5X)</b>

7.68TB Capacity in Steady State

### Introducing the ScaleFlux Storage Processor

The 3000 series is powered by the ScaleFlux SFX 3000 Storage Processor. A custom SoC powerhouse with Arm<sup>®</sup> processors and dedicated hardware acceleration to power the future of computational storage.



	NSD 3000	CSD 3000
Transparent Compression & Decompression	✓	✓
Leading IO Performance & Low Latency	✓	✓
Endurance Multiplier	✓	✓
Available with TLC or QLC Flash	✓	✓
NVMe Compliant	✓	✓
Data-at-Rest Encryption with TCG Opal	✓	✓
Capacity Multiplier		✓
Programmable Arm Cores		✓
Hardware Compute Acceleration Engines		✓