

The ultimate high-performance storage processing platform for cutting edge SSD solutions.

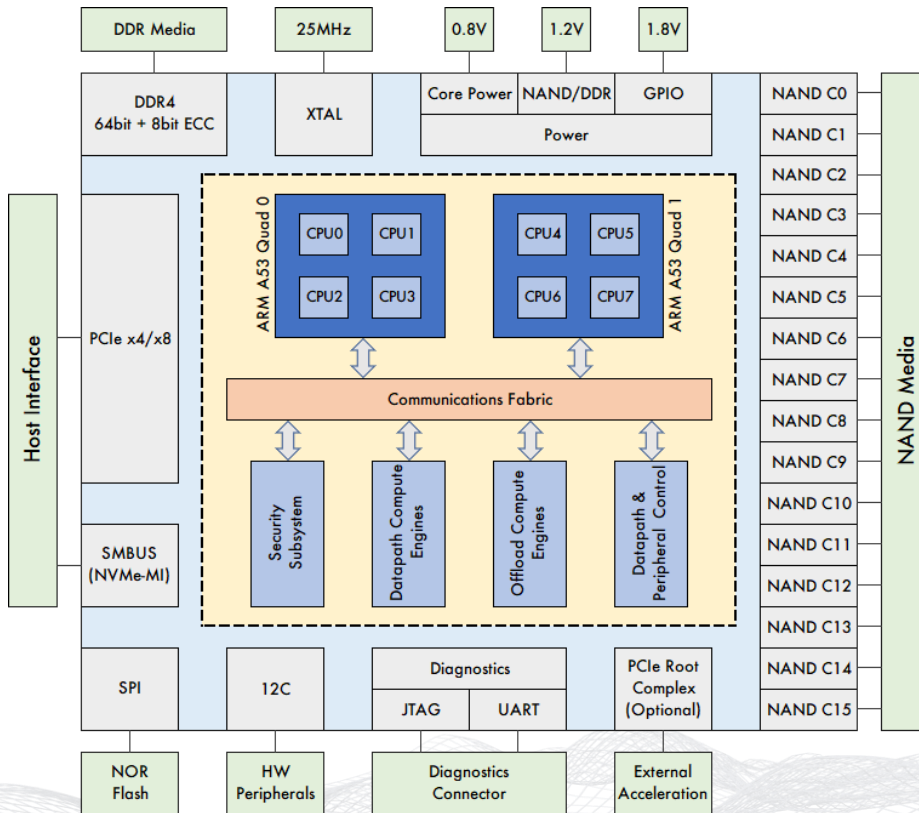
Solution Overview

The ScaleFlux SFX 3000 storage processor combines a PCIe Gen4 x8 host interface with a 16-channel NAND interface to enable class-leading SSD designs. Production grade turn-key firmware is provided for rapid time to market. With 2 clusters of Arm[®] Cortex[™] A53 cores, dedicated hardware acceleration engines, and the ability to integrate external accelerators, the possibilities for innovation and unique added value are extensive.



Key Specifications

Package	21mm x 28mm Flip Chip	NAND	16 channels, TLC or QLC, Multi-Vendor
Host Interface	PCIe Gen4 x4/x8 (Dual-Port Capable)	DRAM	64-bit (+8-bit ECC) DDR4
Protocol	NVMe 1.4	Power	9W Typical Active



Features

- Up to 2M 4kB Random Read IOPS and 10GB/s 128kB Sequential Read Throughput (PCIe x8).
- Up to 1.1M 4kB Random Write IOPS and 9GB/s 128kB Sequential Write Throughput (PCIe x8, 2:1 Compressible Data).
- 64TB maximum physical drive capacity and 256TB logical capacity.
- Programmable Arm cores and optional external acceleration support.
- Offload engines for compression and security acceleration.
- Hardware root of trust and key cache.