FDISK-8510

3U OpenVPX Storage Module

Capture critical mission, flight and machine learning (ML) data in the air

- Up to 16 TB NVMe storage
- 450+ MB/s read and 1400+ MB/s write speeds
- FIPS-140 encryption option
- Built-in error correction algorithm and low UBER rate
- Rugged and aircraft ready

TECHNICAL SPECIFICATIONS

Storage

Up to 16 TB storage (8 or 16 TB options)

Secure latch to lock drive in place

2D MLC NAND flash technology

Error correction algorithm:
BCH 120 bits/2 kbytes

Uncorrectable bit error rate (UBER) of 10^{-18}

Discrete pin for secure erase and zeroization

Encryption options: AES-256 bit or FIPS-140

Fabric Interface

PCIe 2.0 x 4 host protocol*

Sequential read: 450+ MB/s

Sequential write: 1400+ MB/s

* throughput was measured at a 25°C temperature setting

Mechanical

3U OpenVPX, 1.0" slot pitch, VITA 65

Rugged and Low Power

Temperature: -40°C to 85°C card edge

Power fail support

Static and dynamic wear-leveling support

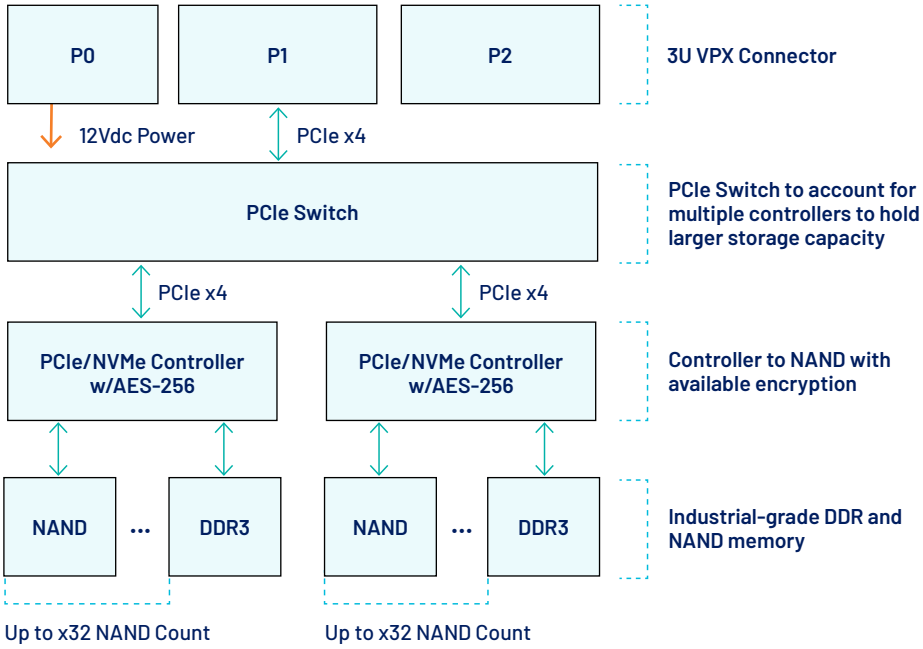
Conduction cooled

Low power consumption

8 TB: ~10 W
16 TB: ~13 W

Advanced rugged packaging options

FDISK-8510 Block Diagram



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