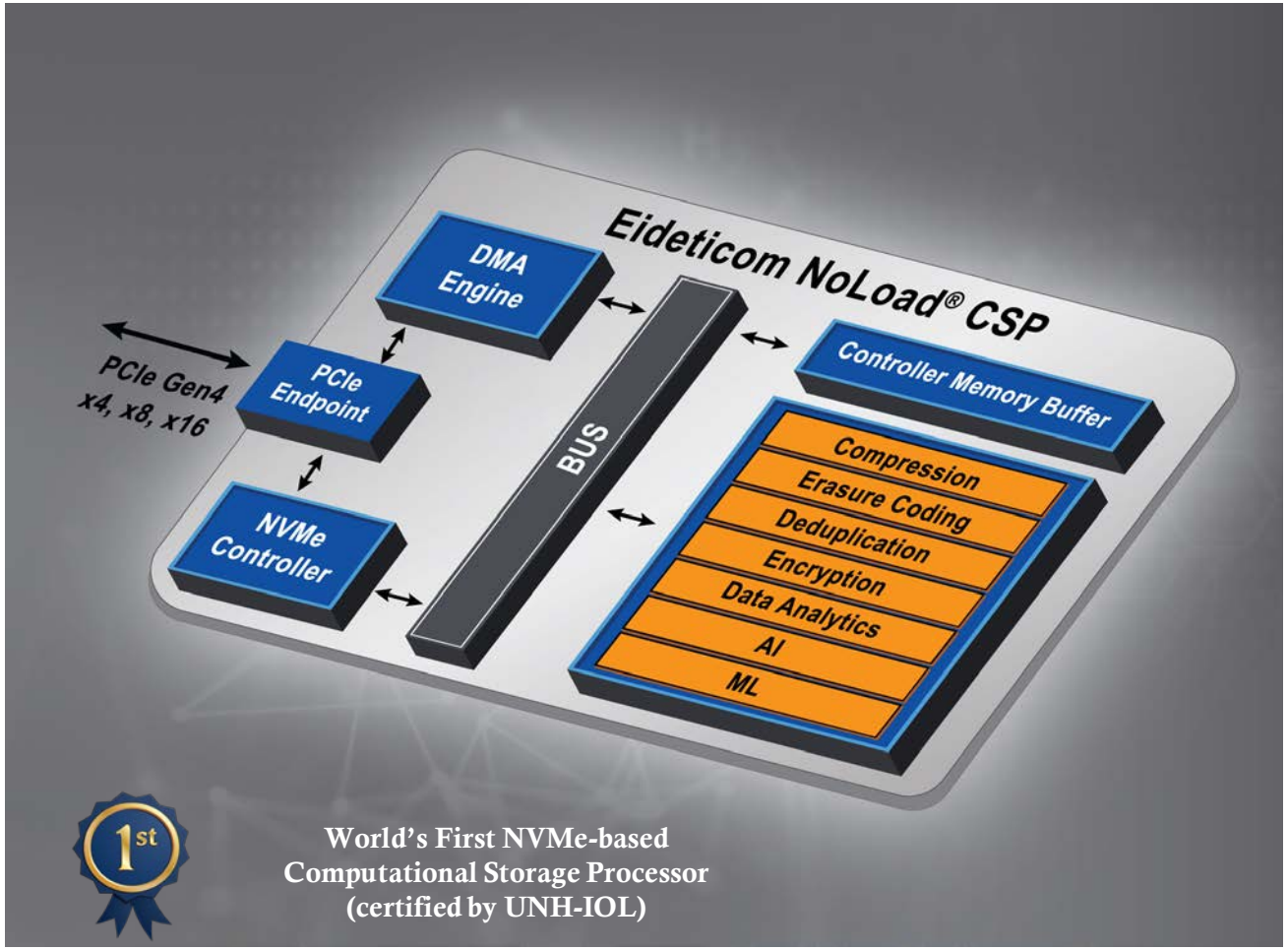
Accelerate Everything

EDSFF for NVMe Computational Storage Processors

Flash Memory Summit 2019

NoLoad® NVMe-based Computational Storage Processor



Best-In-Class Storage and Analytic Acceleration delivered via an NVMe-based Computational Storage Processor.

NoLoad® CSP – Hardware Platforms

Available Now

NoLoad® CSP U.2

- Standard U.2 NVMe form-factor: Utilizing SFF-8639 connector
- BittWare 250-U2

NoLoad® CSP Alveo

- Standard GPU form-factor: x16 PCIe
- Deployed on Xilinx Alveo U200, 250 or U280

NoLoad® CSP – Transforming Data Center Acceleration

EIDETICOM

Ecosystem

Windows

p2pdma

vmware

nvm EXPRESS

XILINX

intel ASIC

Devices

EIDETICOM

NoLoad® Computational Storage Processor (CSP)

Applications

hadoop

OpenZFS

cassandra

ceph

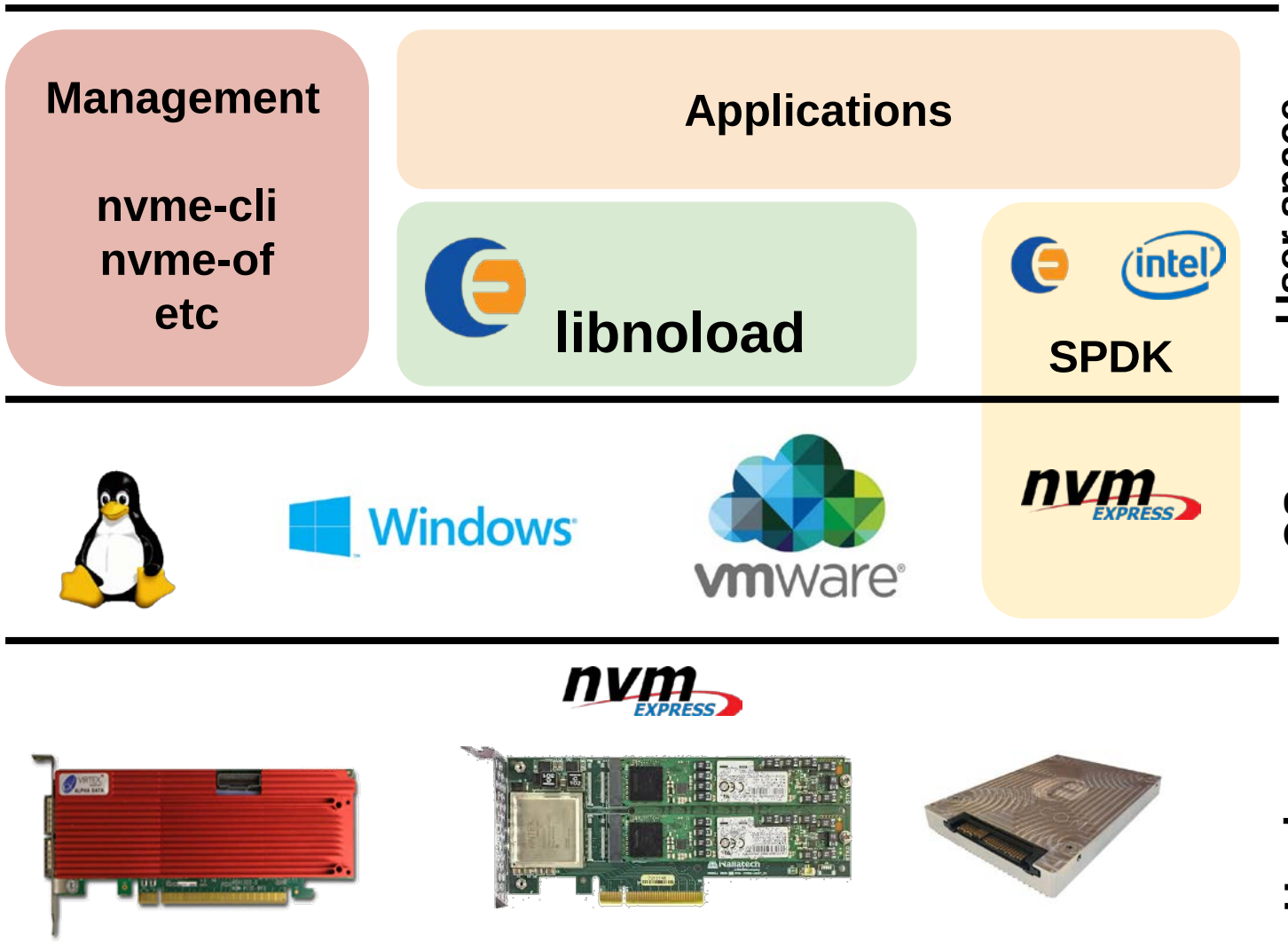
RocksDB

MySQL

Boards

4

NoLoad® CSP - Software



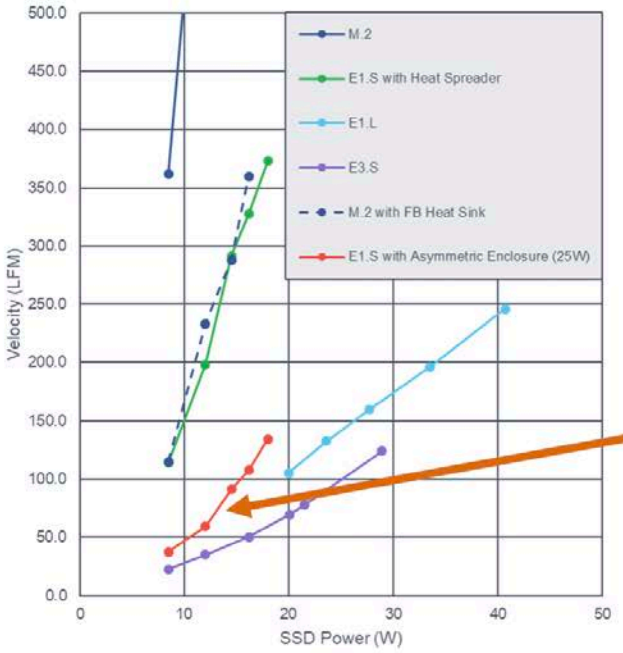
- Both kernel and User space frameworks supported
- No changes to OS
- Use In-box NVMe drivers
- NoLoad® CSP & Hardware Evaluation Kits

New Form-Factor(s) for NoLoad®

Form-Factor Requirements

- Physically large enough to fi interesting processors (including FPGAs). This makes M.2 unviable.
- Good power and thermal envelope (ideally 15W-40W).
- PCIe 4.0 and 5.0 for NVM Express interface.
- **E1.S is a great choice!**

2019: Industry Form Factor – Power/ Thermal Landscape



- 2019 Form Factor Conclusion
  - E1.S 25W Asymetrical Case Significantly Improves LFM
  - Promising for:
    - Storage Devices
    - Front and Rear of compute box placement
    - Generic PCI Devices

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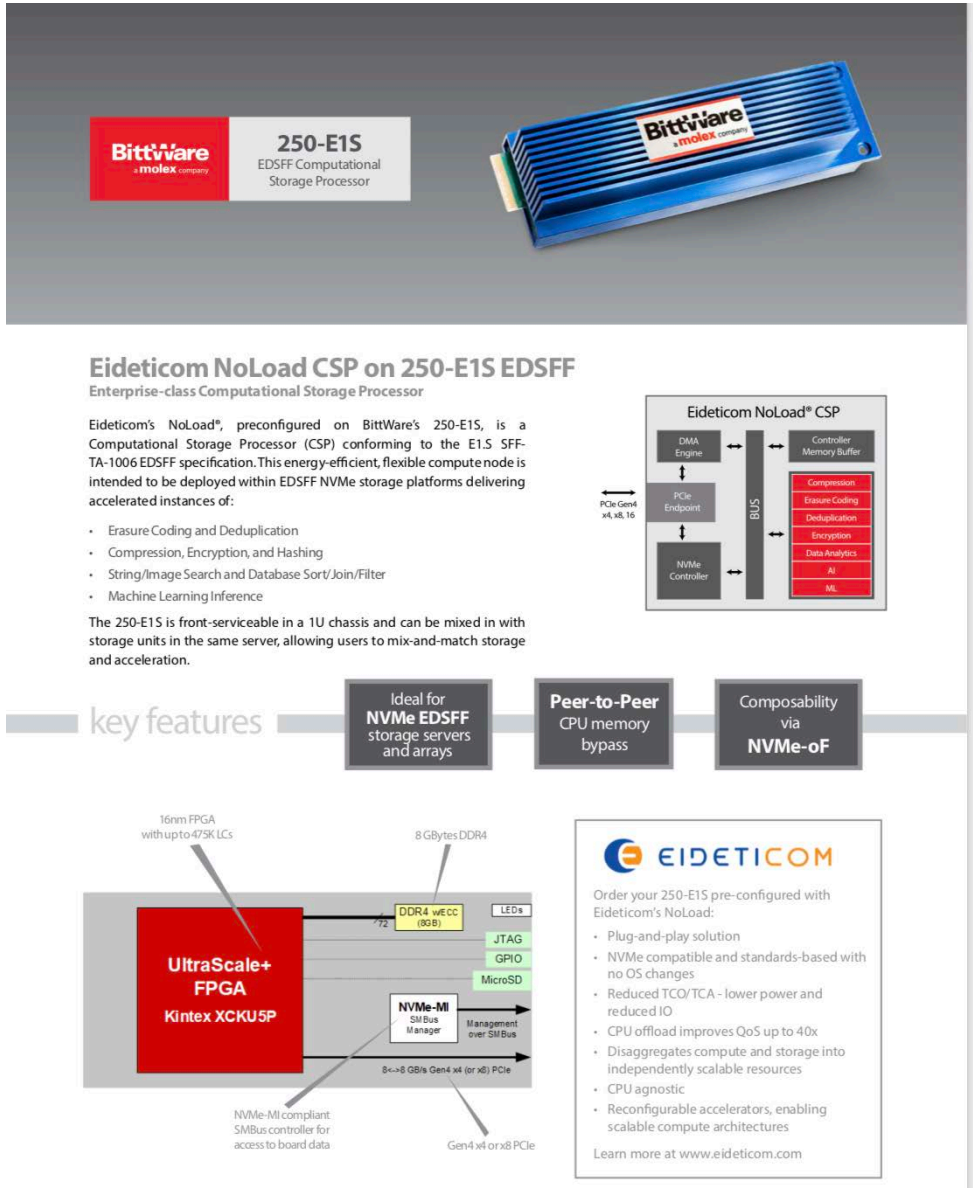
NoLoad® CSP E1.S EDSFF

- Standard E1.S NVMe form-factor
- BittWare 250-E1.S Hardware

New Form-Factor(s) for NoLoad®



Come see it in Eideticom booth (#XXX) and Molex booth (#XXX)!!

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