EDSFF is Here

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EDSFF Connector Ecosystem

SFF-TA-1002

- Spans Many Use Cases
  DRAM, Storage Class Memory, NICs, Accelerators, and SSDs
- Maximizes flexibility for system designers
EDSFF Connectors and Pinout

- General Purpose Scalable connector
  - SFF-TA-1002 used for multiple devices
- Common pinout between EDSFF family
  - SFF-TA-1009 pinout for SSDs

SFF-TA-1002

SFF-TA-1009 defines pinout and functionality
EDSFF SSD Family

3 Form Factors coming to enterprise systems and datacenters!

**E1.L (SFF-TA-1007)**
- 318.75 x 38.4 mm
- Supports > 40W
- Up to 48 Standard NAND sites

**E1.S (SFF-TA-1006)**
- 111.5 x 31.5 mm
- Supports >12W
- Up to 12 Standard NAND sites

**E3 (SFF-TA-1008)**
- (104.9/142.2) x 76mm
- Supports up to 70W
- Up to 48 Standard NAND sites
7 Dimensional Analysis

Volume
More Terabytes per mm$^3$

Power
Less Watts per SSD

Performance
More GB & IOPs per SSD

Capacity
More Terabytes per Rack

Cost
Lower Acquisition Cost

Hot Plug
Best Serviceability

Interface Support
Interface Flexibility

E1.L
E1.S
E3
M.2
U.2
EDSFF SSD System Benefits

1U Fit & Scalable for Capacity or Performance

More PB in Less Space

Thermal Efficiency

Source: Intel

Santa Clara, CA
August 2018
Audience Q&A