Flash Forward with NVRAM/SSD Hybrid Solutions

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Empowering Today’s Cloud
Who is LITE-ON Storage?
Humble Beginnings

1975 in Chunho

2003 Headquarters in Neihu, Taiwan

1983 - 1st technology company listed on Taiwan Stock Exchange

US$7.2B

Sales in 2017

80,000+

Lite-On employees
world-wide

50+

Factories worldwide

300+

Worldwide LITE-ON Locations

In US$ Billion

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Core Competencies in SSD

- Mobile
- Industrial Solutions
- Client Solutions
- Cloud/Enterprise
- Automotive
Introducing NVRAM SSD Hybrid Solution
Hyperscale Datacenter Pain Points

- Looking for the consistently low latency
- Utilize module to its fullest potential
- Decrease server space footprint
LITE-ON’s First NVRAM Hybrid SSD

- PCIe Gen 3x4 NVMe M.2 Form Factor
- Super-cap detachable and protects DRAM data
- Power Loss Protection (PLP)
- End-to-End Data Protection

2 Namespaces (Multi-Namespace)
- 200GB
- 1.5GB NVRAM Exposed

Caching, Indexing, Metadata Storing
Special Boot/Cache Applications

- Dual Use
- Lower TCO
- Small Form Factor

Boot/Cache Drive Delivering low latency

High Utilization Rate

Standard Industry Form Factor
NVRAM Hybrid SSD – Dual Use

Boot

Cache

Super Cap

Dual Use
Special Boot/Cache Applications

- Boot Drive
- Low Latency Cache as delivered by the NVRAM
- Save RAID Configuration
- Save Metadata Indexes
NVRAM Hybrid SSD Lower TCO

Boot is accessed less frequently

Cache is accessed more frequently for temporary storage and lower latency
Special Boot/Cache Applications

- Boot/Cache in one single drive
- Boot drive is not idle during lifetime
- DRAM on SSD is fully utilized
- High utilization rate translates to lower TCO.
NVRAM Hybrid SSD – Small Form Factor

M.2 2210: 110.0mm x 22.0mm x 5.3mm
Special Boot/Cache Applications

- Standardize Form Factor
- M.2 slots are used instead of DIMM slots
THANK YOU!

Any questions?

Come by LITE-ON **Booth# A24** for Demos!

- See the live product in hyperscale environments
- Get a chance to win a special prizes!
What are the 2 Namespace capacities for the LITE-ON NVRAM Hybrid SSD?
Thank you

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