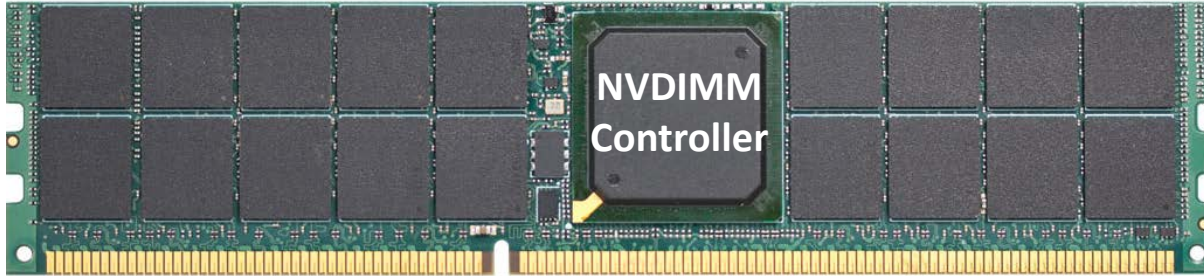




NEXT GENERATION NVDIMM

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NVDIMM Description



- “Hybrid” Memory Module Combining DRAM and NAND
 - Speed, endurance, and random byte addressability of DRAM
 - Non-volatility of NAND Flash
- Enables Main Memory Persistence
 - Data in DRAM is preserved through system power cycles
 - Backup energy supplied by supercap
- Typical Use Cases
 - Storage cache, metadata acceleration

Impact Of Emerging Technologies On NVDIMM



Storage Class Memory

- SCM As Flash Replacement
 - Energy-efficient data transfer



Energy Storage

- Supercap Alternatives
 - Higher energy density

Next Generation NVDIMM Attributes

Higher DRAM Capacity

- Keep Pace With Growth In Datasets
- Enable New Applications

Smaller Energy Module

- Simpler Mechanical Integration
- Zero Impact On Chassis Resources

Quicker Recovery Time

- Shorter SAVE, RESTORE, Charge
- Increased System Availability



Thank You