Opportunity for QLC NVMe SSDs

Reducing data center TCO

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Where does data center spend go?

Data Center Workload Requirements (e.g. IOPs, QoS, Capacity, etc.)

Capital Expenditures (CapEx)

Operational Expenditures (OpEx)

Software & Install

Power
Maintenance
Repairs
SW Licensing
DC Staff

Total Cost of Ownership
Total Cost of Ownership for Intel QLC SSDs

- Lower drive costs
  - TLC > QLC
  - Reduced DRAM through larger block access

- Reduce Operating Costs
  - with lower power, higher density, lower cooling costs, and fewer drive replacements

- Increase efficiency
  - with data reduction techniques
Range of PCIe Form Factors

M.2

U.2

AIC

E1.S

5.9mm 9.5mm 25mm

E1.L

9.5mm/18mm

E1.L

E3.L, E3.S

9.5mm/18mm