

Next-Gen Storage and the Mobile Computing Ecosystem

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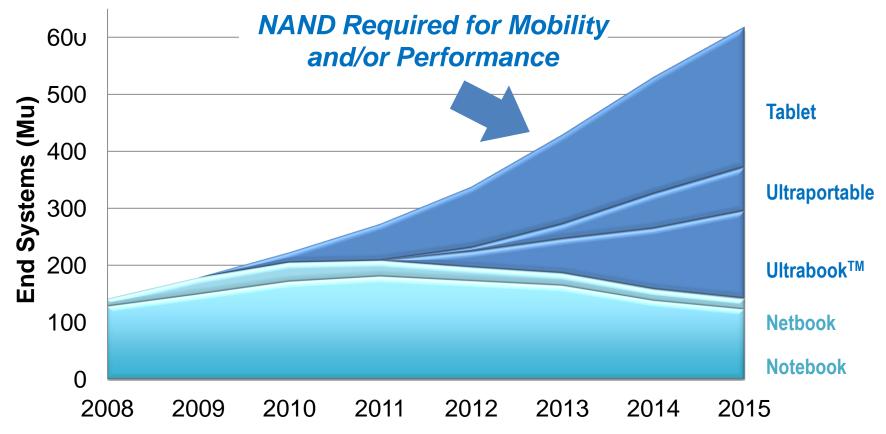




- Mobile Computing Market
- Segment Trends
- Impact on Storage
- Summary



Mobile Computing Market Growth (excluding Smartphones)



Source: Gartner, Micron Marketing



Platform Convergence

ARM-x86/Windows 8 OS based Platforms

ARM/Android or Proprietary OS based Platforms



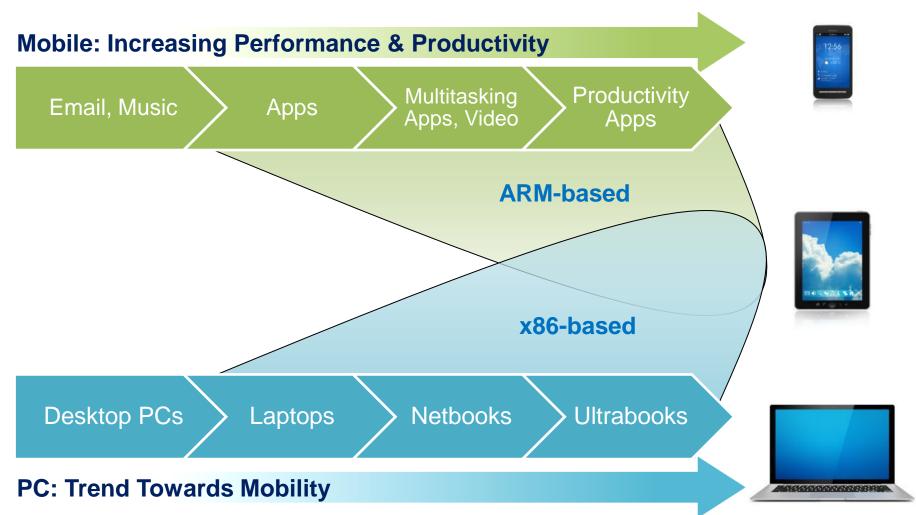
Increasing Performance/Productivity

Increasing Mobility

Decreasing Power/Weight/Form Factor/Storage Capacity



Mobile Computing Ecosystem Convergence





Impact on Storage



Mobile Computing Storage Requirements

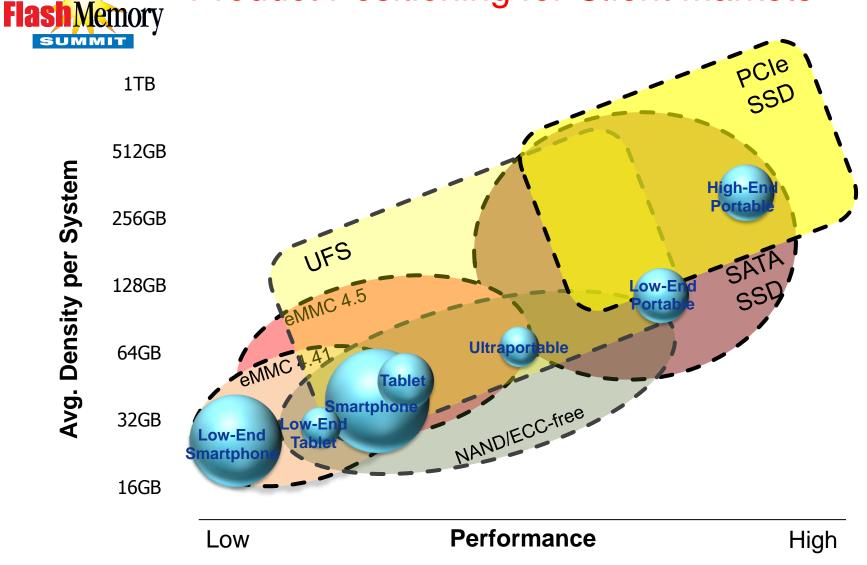




NVM Form Factor Trends

	System Z-Height	2012	2013	2014
Module	Notebooks Ultrathins PC Tablets 17 - 24mm	mSATA, Slim Lite, Custom	mSATA, mSATA Mini, NGFF	
Embedded	Ultrathins PC Tablets <18mm	eMMC, ECC-Free NAND, μSSD	eMMC, ECC-Free NAND, μSSD, UFS	
	Media Tablets <8mm	Raw NAND, eMMC, ECC-Free NAND		Raw NAND, eMMC, ECC-Free NAND, UFS

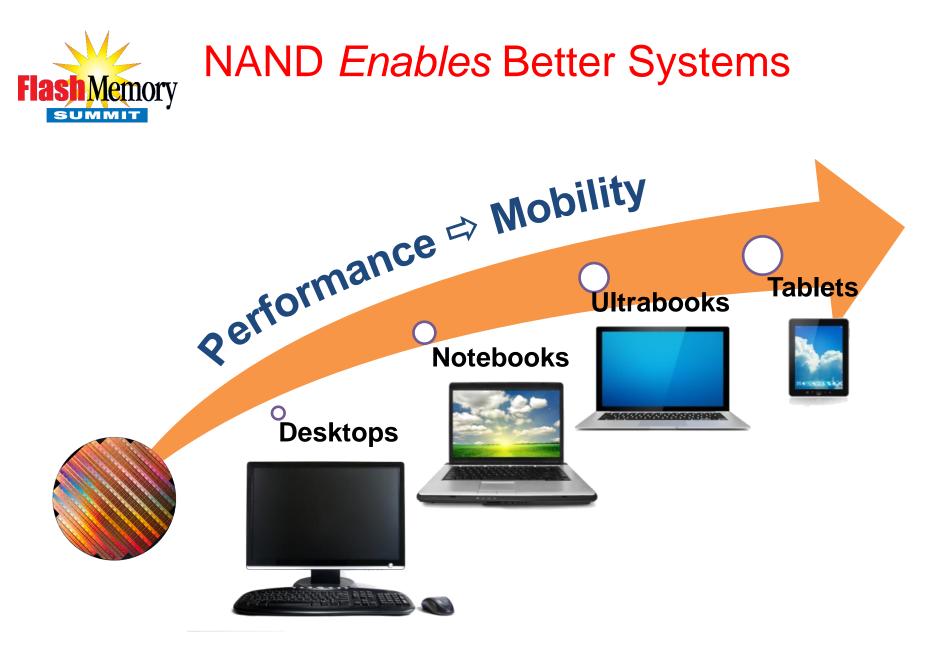
Product Positioning for Client Markets



Source: Micron Marketing, Gartner, IDC, iSuppli, Forward Insights

Flash Memory Summit 2012 Santa Clara, CA Size of application bubble = 2016 Market Size (end system units)

High/Low End Portable = Ultrathin/Notebook





Future Storage System Trends

Architecture

- NAND technology
- Higher density
- 3D NAND
- PCM in systems
- Higher performance
 & lower power

Interface Advances

- Improved performance
- SATA → PCIe
- eMMC → UFS
- More efficient use of NAND as storage media

Form Factors

- Smaller enabling thin & light
 - Footprint
 - Z-height
- mSATA → NGFF
- BGA



Matching Storage Solution to Applications

Interfaces and architectures evolving to leverage NAND for storage

