



SSD Controller for 1y/1znm TLC

- NAND Controllers Bridge the Gap

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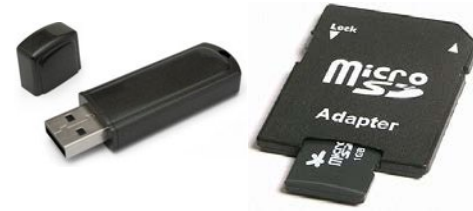
Product Marketing Manager

Silicon Motion, Inc.

The Introduction of Smart Phone



Removable to Embedded



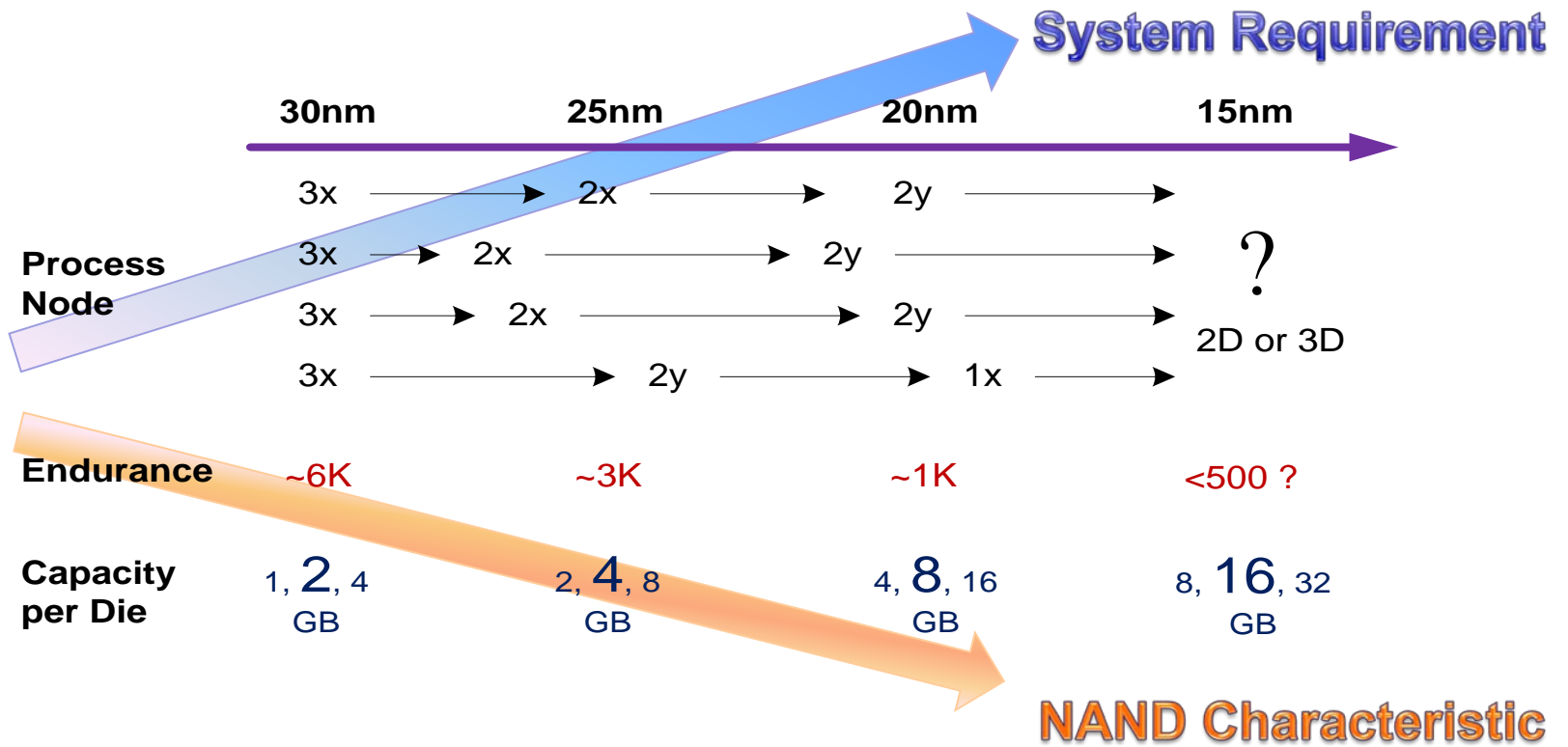
Embedded

- Mainly B2B
- Quality Orientated
- Random & Sustained speed
- System compatibility

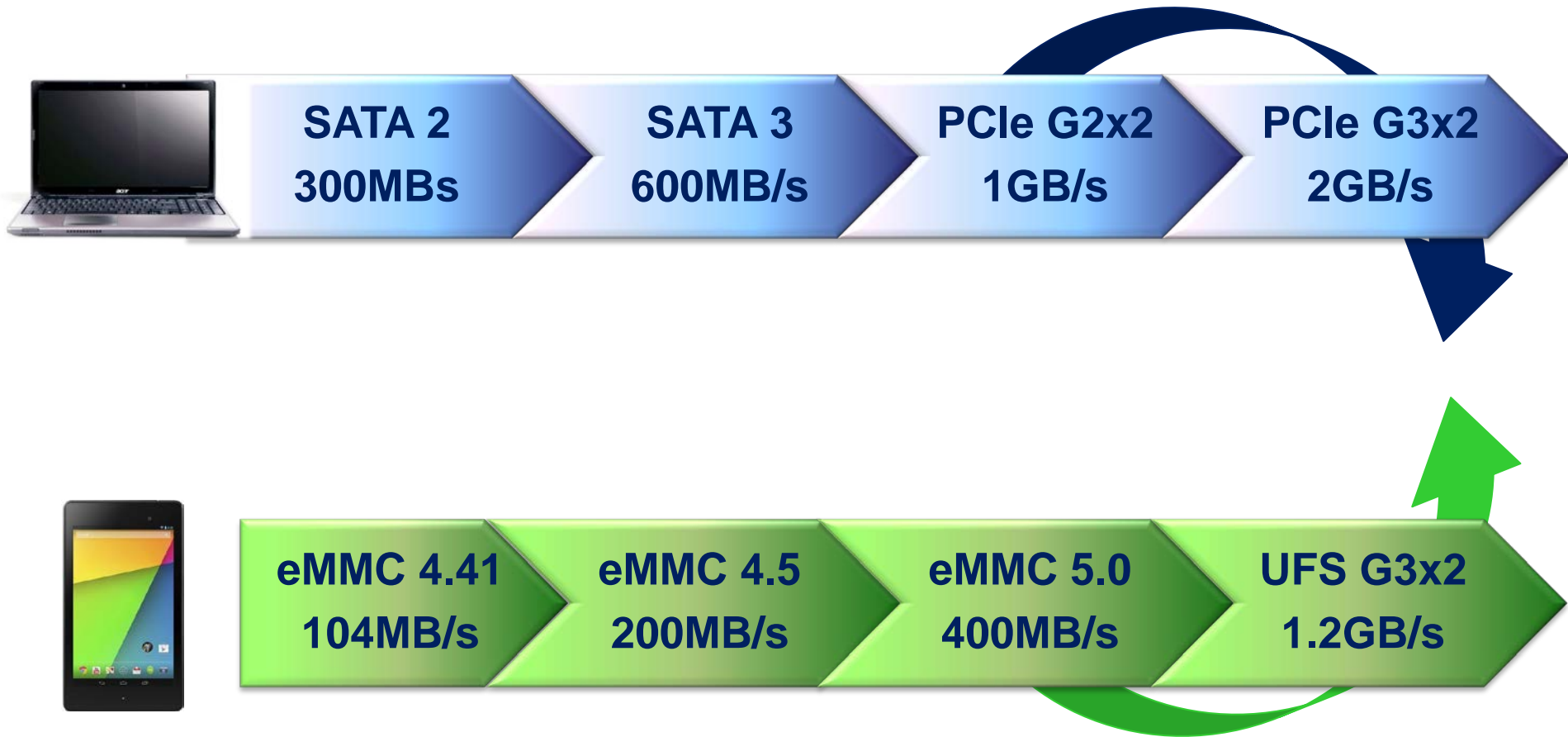
Removable

- Mainly B2C
- Cost Orientated
- Sequential speed
- Interface compatibility

NAND vs. System Requirement



Host Interface Migration



NAND Controllers Bridge the Gap



Performance

Toggle/ONFi: 200MB/s -> 400MB/s -> 533MB/s

Multi Channel

Enhanced Flash Management



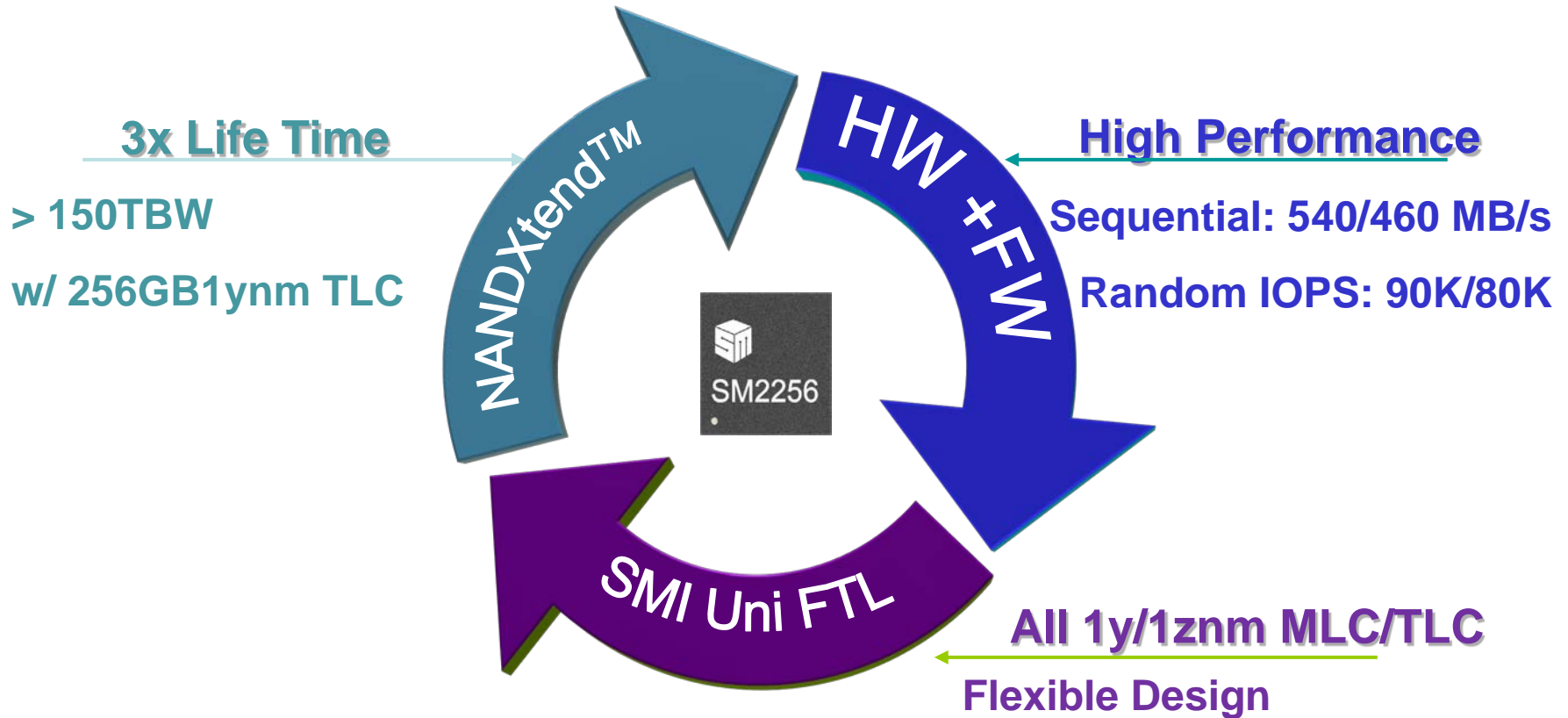
Reliability

Wear Leveling

ECC: Stronger Correctability, BCH → LDPC

RAID on NAND

SSD Controller with 1y/1z nm TLC



SMI Product Lineup

2013	2014	2015	2016
SATA 3	PCIe Gen2	PCIe Gen3 x2	PCIe Gen3 x4
eMMC 4.5	eMMC 5.0	eMMC 5.x	UFS 2.1



THANK YOU!

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