



Phase Change Memory: Mainstream Ambitions

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Contents

CONTENTS	III
LIST OF FIGURES	VI
LIST OF TABLES	VIII
TERMINOLOGY.....	1
EXECUTIVE SUMMARY	2
MEMORY OVERVIEW	3
Introduction	3
The Memory Hierarchy.....	3
SRAM	4
Concept.....	4
Technology Evolution	5
DRAM	7
Concept.....	7
Technology Evolution	8
NOR Flash.....	9
Concept.....	9
Technology Evolution	11
NROM.....	12
Concept.....	12
Technology Evolution	14
NAND Flash	15
Concept.....	15
Technology Evolution	17
PHASE CHANGE MEMORY.....	20
Introduction	20
Phase Change Material	21
Memory Cell Concept.....	23
Basic Operation.....	24
Memory Cell Variations	26
Selection Device.....	28
PCM Characteristics.....	30
Set Time.....	30
Reset Current	31
Endurance	34
Memory Comparison.....	35

Multi-level Cell PCM	38
Device Layout.....	42
PCM Reliability	47
PCM Cost Drivers	49
Die Size.....	49
Process Complexity.....	50
Technology Scaling	56
Scaling Parameters.....	56
Roadmap	57
PCM DEVELOPMENT STATUS	61
AIXTRON.....	63
ATMI, Inc.	63
BAE Systems.....	64
Elpida	64
Hynix Semiconductor	65
IBM.....	65
IMEC.....	65
INTEL.....	65
Macronix International.....	65
Numonyx (Intel/ST), Micron.....	65
NXP Semiconductors	66
Ovonyx.....	66
Renesas Technology	66
Samsung Electronics	66
STMicroelectronics.....	67
ULVAC	67
MARKET FORECAST	68
PCM as a NOR Replacement.....	68
PCM as a Non-volatile RAM	71
PCM as an EEPROM Replacement	71
PCM as a DRAM Replacement.....	72
PCM's Latency Issue	74
PCM's Endurance Issue.....	75
Conclusions	76

PCM as a NAND Flash Replacement	77
Mid-term Outlook	77
Long-term Outlook: PCM vs. NAND	78
PCM as a Storage Class Memory	81
Applications	85
Embedded PCM.....	85
Market	86
REFERENCES	XCIII
ABOUT THE AUTHORS	XCIX
ABOUT FORWARD INSIGHTS	C
Services	C
Contact	C
REPORT OFFERINGS	CII

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Report Offerings

How 3D Memory Stacks Up

Compares the technology, challenges and cost of various 3D memory options including stacked charge trapping technologies from Samsung and Toshiba, and cross-point RRAM arrays.

NAND Quarterly Insights

A quarterly supply-demand forecast published four times a year which includes vendor shipments, wafer capacity, capex, and application forecasts. The report also contains roadmaps and costs for SLC, MLC, 3-bit/cell and 4-bit/cell technologies.

Applications for 3-bit per cell/4-bit per cell NAND Flash Memories

An in-depth analysis of the technology, performance, cost, market and applications for 3-bit per cell and 4-bit per cell NAND flash memories.

Key NAND Flash Memory Design Intellectual Property

Technical innovations, particularly in NAND flash memory design are key enablers of multi-level cell NAND flash memories, especially 3-bit per cell and 4-bit per cell technologies. This report identifies important intellectual property related to sensing architectures, source voltage noise compensation, programming algorithms, disturbs reduction, temperature compensation, high voltage switch, coding schemes and error correction codes from Hynix, Micron, Samsung, SanDisk, STMicroelectronics and Toshiba.

Read Architectures for Multi-bit per cell NAND Flash Memories

Compares the technical merits of the All Bitline sensing architecture vs. conventional voltage sensing scheme in NAND flash memories.

SSD Insights

Provides an overview of the technology, performance, cost trends and market and application forecasts of solid state drives in computing applications.

ECC and Signal Processing Technology for Solid State Drives and Multi-bit per cell Flash Memories

Explores the various ECC techniques used in NAND flash memories including BCH, RS as well as emerging DSP coding techniques. DSP coding techniques will be essential for implementing 3-bit and 4-bit per cell NAND flash memories and future generations of NAND flash in solid state drives.

Comparison of 3-bit per cell NAND Flash Memories

This report compares the 3-bit per cell NAND flash memory implementations of SanDisk/Toshiba, Hynix and Samsung and discusses the advantages and disadvantages of each.

SSD Innovations

Explores innovative technologies for improving the performance, endurance and reliability of solid state drives.

Graphics DRAM

Examines the competitive landscape for graphics DRAM as well as market and technology trends.