

Breakthrough Application-Specific Memory Technology

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Everspin's MRAM products

offer the **persistence** of

non-volatile memory with the speed and

endurance of RAM





Everspin's **MRAM** solutions

allow customers to reduce form factor,

improve system performance and simplify implementation

MRAM Advantage

Existing Solution*



- 300K Random Read 4KB IOPS
- 100K Random Write 4KB IOPS

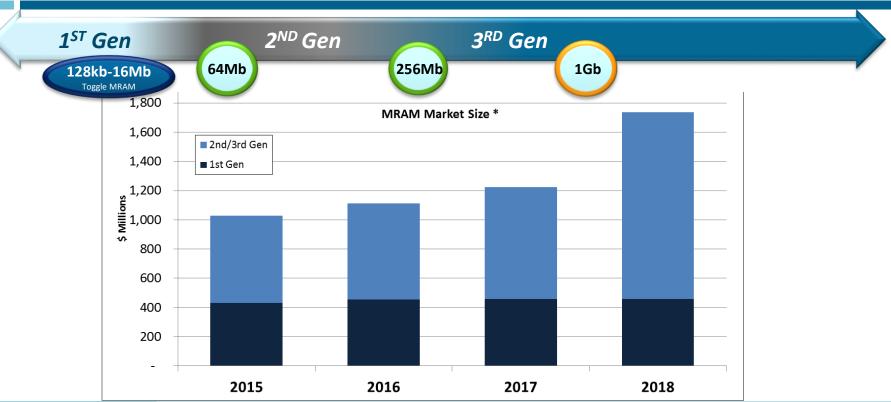
Everspin Solution



- 5.4 TB
- 900K Random Read 4KB IOPS
- 300K Random Write 4KB IOPS



MRAM Roadmap Expands the Market Opportunity





Everspin's Target Markets Increasingly Demand MRAM

Industrial

Applications

Network

Smart Meter

Casino Gaming

- Automation
- PLC
- Motor Control
- Lighting

Customer Need	MRAM Feature
Continuous data logging	Virtually unlimited endurance
Protect data on power loss	Persistent data
Harsh environment	Industrial and extended temperatures
Data retention	20 years
Simple to design	SRAM and SPI interfaces

Automotive & Transportation

Applications

- Infotainment
- Transmission Control
- Tachograph/ Odometer

- Electric Brakes
- Engine
- Management **Event Recorder**
- **ADAS**

Customer Need	MRAM Feature
Continuous data logging	Virtually unlimited write cycle
Protect data on power loss	Persistent data
Temperature extremes	Automotive grade
Regulatory	Data retention for 20 years

Enterprise Storage

Applications

Enterprise SSD

Storage

Appliance

Enterprise HDD

RAID

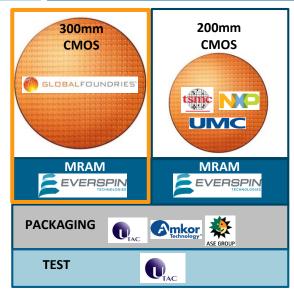
Server

Customer Need	MRAM Feature
Continuous data logging	Virtually unlimited write cycle
Protect data on power loss	Persistent data
Temperature extremes	Automotive grade
Regulatory	Data retention for 20 years

Customer Need	MRAM Feature
Reduce storage latency	Write 100,000x faster than NAND block writes
Protect data on power loss	Persistent data, non- volatile
Space constraint in drives	Eliminate SuperCaps
Faster applications	Persistence without NAND, batteries
Rapid system rebuild	Metadata instantly restored



Global Operations and Support



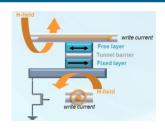
- 1st Gen production 200mm line in Chandler, AZ
- 2nd and 3rd Gen proprietary MRAM process successfully transferred to GLOBALFOUNDRIES
 - 300mm advanced CMOS with integrated MRAM manufacturing
 - Embedded MRAM





MRAM: Breakthrough Application-Specific Memory Technology

Toggle MRAM

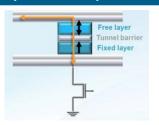


Magnetic field-switched has robust performance in harsh environments

Spin-Torque MRAM (ST-MRAM)







Perpendicular Spin-Torque

Spin-Torque MRAM is capable of scaling to Gb densities

Advantages

- Non-volatile
- Fast write-speeds
- Superior write-cycle endurance
- Scalable to greater densities and smaller process geometries
- Manufacturable at high volumes
- Low energy requirements



MRAM Technology Breakthroughs from Everspin

Everspin Product		Incumbent Technology	Memory Densities	Primary Applications	Status
1st C	Field Switched (FS)	SRAM	128kb – 16Mb	Industrial / Automotive & Transportation	Shipping
(Toggle)	1 st Generation	Micro-Controller Embedded SRAM plus Flash Replacement	Shipping		
2 nd Generati (ST-MRAM	Spin Torque	DRAM	64Mb – 256Mb	Enterprise Storage	Shipping 64Mb; Sampling 256Mb
3 rd Generation	Spin Torque	DRAM	64Mb – 1Gb+	Enterprise Storage & Servers	Sampling 256Mb; 1Gb+ in Development



Why MRAM Now?

- Customer system requirements increasingly seeking application-specific, high-performance, persistent memory (existing memory solutions increasingly inadequate)
- 2 Volume CMOS and MRAM production lines in place for both 200mm and 300mm products
- Release of higher density products opens up new applications and larger opportunities
- 4 Established customer base and ecosystem, including relationships with leading controller companies
- 5 Significant design win pipeline

Everspin has the sales channel, go-to-market strategy, design win pipeline, top tier customers, product breadth, system knowledge and the ecosystem to succeed



Established Ecosystem Enables Rapid Customer Design-in Cycles, Reducing Time to Revenue

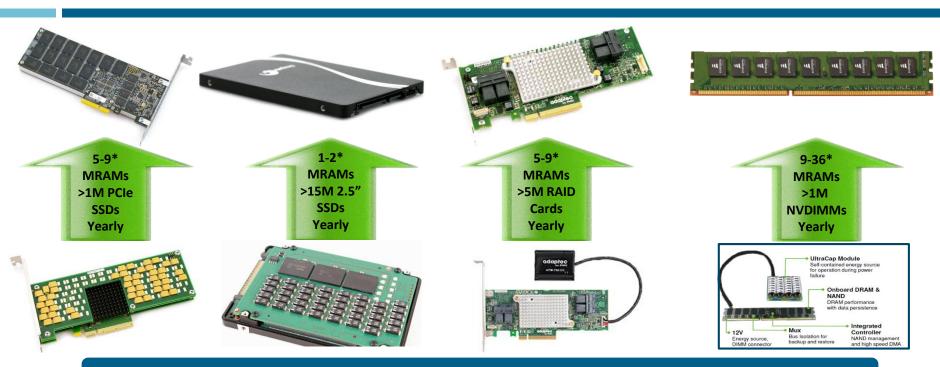
Everspin has partnered with Storage Controller IP providers to ensure compatibility to our DDRx ST-MRAM



Customers have access to validated IP to use in their designs



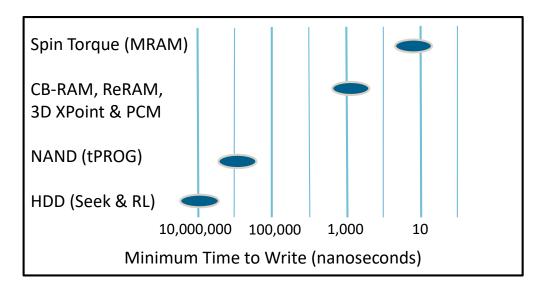
ST-MRAM Improves Performance and Simplifies Implementation



Smallest Form Factors May Not Be Viable Without ST-MRAM



MRAM – The First True Storage Class Memory



Performance Parameter	ST-MRAM Advantage
Write Speed	100-1,000x RRAM and PCM types
Endurance	10,000,000X NAND
Persistence	Non-Volatile

Persistence of Storage

Endurance and Speed of a Memory Channel



Everspin Module Products Overview



- nvDIMM
- Main product line is NVMe Accelerators in HHHL, U.2 & M.2 form factors
 - Open and standardized HW and SW interfaces (plug & play)
 - Virtually all enterprise class storage appliances support these standards
 - NVMe has become dominate forward looking SSD interface
 - Software interface (NVMe) is supported by most high volume OSes (Linux, Windows, VMWare, FreeBSD, OpenBSD, OSx, Solaris & Chrome)
 - Drivers for OS already in place

nvDIMMs

(Dual In-line Memory Module)

- Inherently Non-Volatile with ST-MRAM
- Alternative to DRAM+Flash, SuperCap backed NVDIMM



Everspin Module Products Value Proposition







Inherently Power Fail Safe (Zero system dependencies)



Flexible Modes (Adapt to application needs)



No Cycle Time Impact (Superior application recovery)



Full Performance (In standard thermal profile)



Unlimited Endurance (For any or extreme workloads)



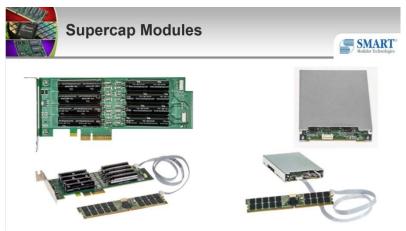
Ubiquitous Interface (Use in any type of system)



Enable Dense Form-Factors (Blade & Modular Servers)



NVDIMMs Require Bulky Supercap Modules



Supports 2 – 16GB NVDIMMs Supports 1 – 16GB NVDIMM

New ultra dense server form factors will not support NVDIMM due to space and thermal constraints

- Blades
- FX (8 servers in 2U)



Everspin nvDIMMs based on ST-MRAM:

- No Supercap or Battery Module
- No Flash backup
- No Special drivers or BIOS*
- 1GigaByte nvDIMM is sampling now
- Higher Density coming
 - ST-MRAM chip roadmap progresses to 1Gb and higher
 - Stacked Die and Stacked Package options to increase density
 * requires modified memory controller



GLOBALFOUNDRIES Announces eMRAM*

- Scalable, embedded on GLOBALFOUNDRIES' 22FDX platform
- Prototyping expected in 2017, with volume production in 2018
- eMRAM technology is scalable beyond 22nm and is expected to be available on both FinFET and future FDX platforms
- Expands opportunity for industry adoption and licensing revenue stream

"Designers of battery powered IoT devices, automotive MCUs and SoCs and SSD storage controllers will certainly want to take advantage of this versatile embedded NVM technology." - Thomas Coughlin, President of Coughlin Associates



Recent Financial Highlights

Completed initial public offering in October 2016

- Sold 5,000,000 shares at \$8.00 for net proceeds of \$37.2 million
- Concurrent Private Placement with Gigadevice provided additional net proceeds of \$4.7 million
- Stronger balance sheet that provides working capital to execute growth of Gen 3 ST-MRAM

Q3 2016 Financial Results

- Revenue of \$7.2 million was up 7.6% from Q2 2016
 - Gen 1 MRAM revenue increased 14% from Q2 2016
 - Legacy products revenue declined by 19% from Q2 2016
- Q3 Gross Margin was 60%. YTD Gross Margin was 57.3%
- GAAP EPS was (\$.54)

Q4 2016 Guidance

- Revenue increasing to a range of \$7.3 to \$7.6 million
- GAAP EPS ranging from (\$.33) to (\$.31) per share on 14.4 million shares



Long-Term Target Financial Model

-	2015	9 mos. 2016	Target
Gross Margin	52.7%	57.3%	48% - 52%
R&D	79.6%	71.6%	24% - 26%
SG&A	39.1%	36.7%	10% -14%
Adjusted EBITDA Margin	(52.8%)	(37.7%)	12% -15%



Everspin Investment Highlights

- ✓ Only company to offer commercially-viable MRAM solutions
- **✓** Application specific memory targeted for high value markets
- **√** 600+ customers and more than 60 million units shipped over the last eight years
- ✓ Strategic relationship with GLOBALFOUNDRIES accelerates development and enables high volume production line for customer supply
- ✓ Substantial IP portfolio with 300+ issued patents and 150+ patent applications
- ✓ Existing ecosystem of SSD and RAID controllers are MRAM ready for product deployment
- ✓ Significant design-win pipeline with market leaders in industrial, automotive and transportation, and enterprise storage markets
- ✓ Attractive long-term growth and margin profile





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