Micron®

Focused on Memory | Engineered for Innovation

Micron at a Glance

Micron is the world's memory expert.

Founded: October 1978, Boise, Idaho

FY2012 Net Sales: $8.2 billion

NASDAQ Symbol: MU

Employees: ~26,000 worldwide

Products: We offer one of the world's broadest memory portfolios, including: DRAM components and modules, SSDs, NAND, NOR, and PCM, as well as other innovative memory technologies, packaging solutions and semiconductor systems.

Markets We Serve: Micron's products are designed to meet the diverse needs of computing, networking, server, consumer, mobile, automotive, and industrial applications.

Patents: ~25,000

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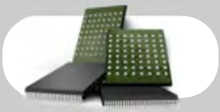
Micron at a Glance

Micron: A history of growth and innovation

1978		Company founded
1984		Micron becomes a publicly-traded company on Nasdaq
1985		Micron introduce world's smallest 256K DRAM
1994		Micron listed on Fortune 500
1998		Micron acquires TI's memory operations and establishes global manufacturing base
2002		Micron introduces world's first 1Gb DRAM
		Micron acquires Toshiba's commodity DRAM operations at Dominion Semiconductor, LLC, located in Manassas, Virginia

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Micron at a Glance

Micron: A history of growth and innovation

2006	Micron and Intel form IMFT joint venture to manufacture NAND Flash memory
	Micron acquires Lexar Media further expanding Micron's retail channel presence
	Micron and Intel sample industry's first 50nm NAND
2007	Micron introduces world's first 1Gb & 2Gb DDR3 products
2008	Micron & Intel introduce High-Speed NAND technology
	Micron and Nanya form DRAM Joint Venture, Inotera Memories
2009	Micron delists from the NYSE and joins other semiconductor manufacturers on the NASDAQ
2010	Micron acquires NOR manufacturer Numonyx making Micron the world's foremost memory solution provider

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Global Manufacturing Scale

Boise, Idaho USA
FAB1C DRAM & NAND R&D
FAB1A/X LED/R&D
Solar

Manassas, Virginia USA
FAB6 DRAM, NAND

Singapore
FAB7 DRAM
FAB10 NAND
FAB13 NOR
MSB Packaging & Test

Lehi, Utah USA (IMFT)
FAB2 NAND

Taiwan (Inotera)
FAB 11 DRAM

Agrate, Italy
FAB14 NOR & PCM R&D

Israel
FAB12 NOR

Avezzano, Italy
FAB9 Imaging

Muar, Malaysia
MMY Package & Test

Xian, China
MXA Test & Module

Nampa, Idaho USA
FAB9D Imaging

Puerto Rico, USA
MPR Module

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Corporate Headquarters and R&D Facilities

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Leading Edge R&D Investments

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Industry Patent Leadership

Top 10 Innovators in Semiconductors Patent Scorecard™ | Semiconductor rankings based on data from Feb 24, 2012

Rank	Company	Technology Strength
1	Samsung Group	1725
2	Broadcom Corp	1497
3	Intel Corp	1451
4	IBM	1333
5	Semiconductor Energy Lab Co. Ltd	1311
6	**Micron Technology, Inc.**	**1267**
7	SanDisk Corp	1071
8	Marvell Technology Group	861
9	Renesas Electronics Corp	844
10	Texas Instruments Inc.	842

Source: The Patent Board™ Semiconductor Patent Scorecard™ 2012

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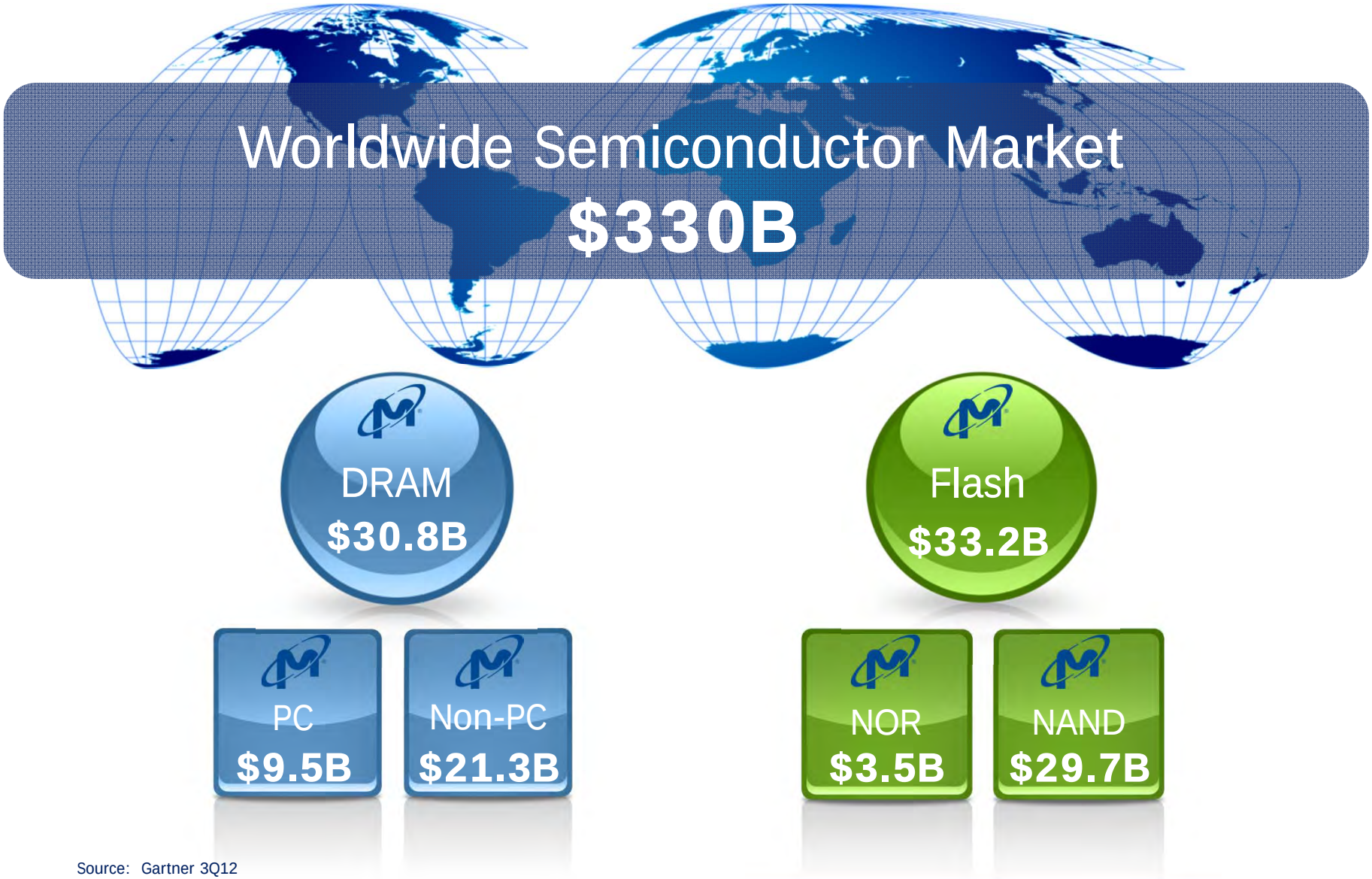
2013 Semiconductor Market Forecast



Source: Gartner 3Q12

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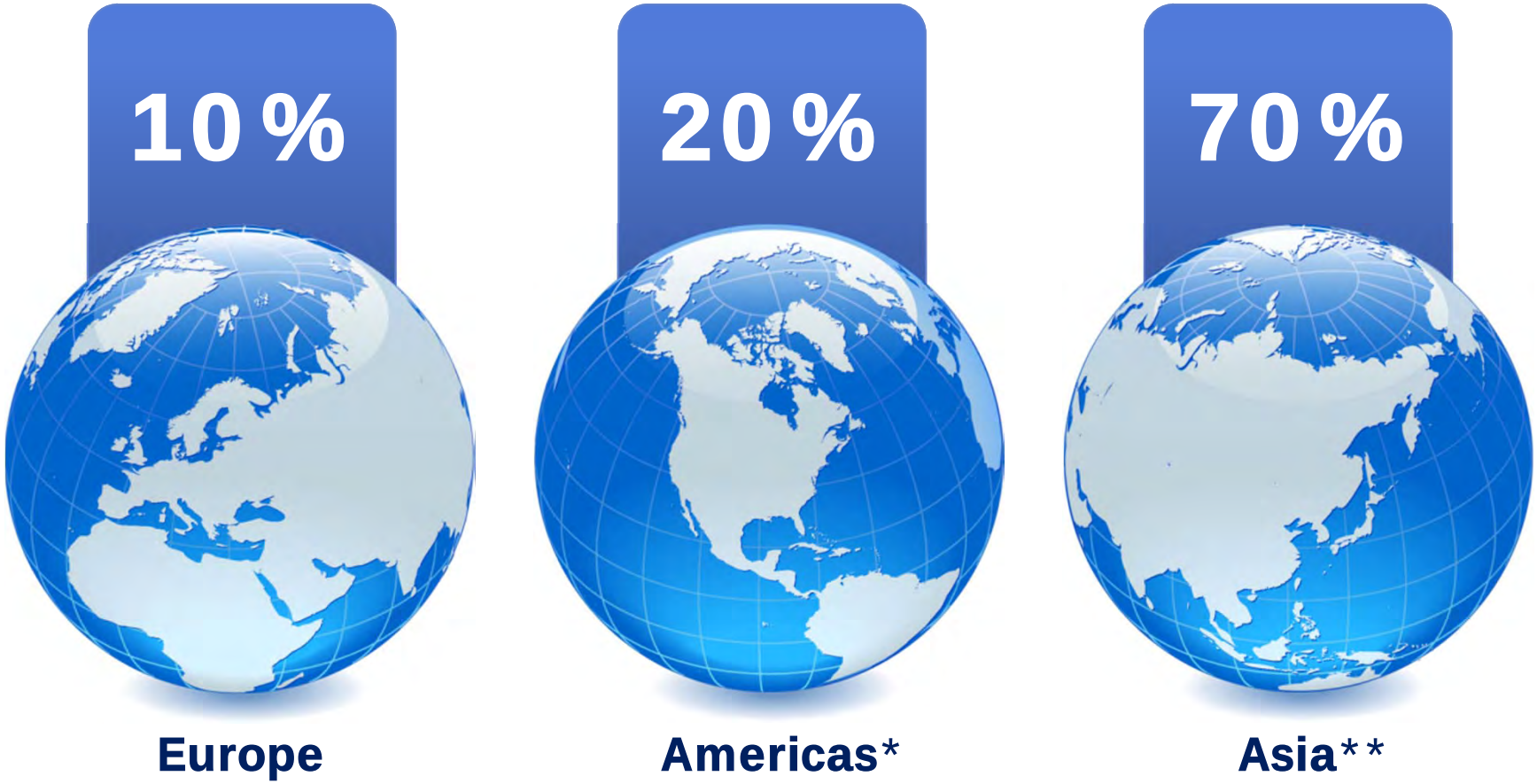
Micron FY12 Revenue by Geography



Source: Micron Technology, Inc. 2012 Form 10-K
* Americas includes United States and Other
** Asia includes China, Asia Pacific, Malaysia, and Taiwan

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Historically There Were Almost Forty Memory Producers

OKI
IBM
STMicroelectronics
intel
LG
NMB
signetics
HITACHI
MITSUBISHI ELECTRIC
EUROTECHNIQUE
TOSHIBA
Powerchip
NEC
AMI
hynix
Matsushita Electric
at&t
NANYA
SHARP
Micron
ProMOS TECHNOLOGIES
SAMSUNG
AMD
MOSTEK
tsmc
zilog
inmos
FUJITSU
winbond
ELPIDA
VIS
SANYO
intersil
Infineon
ITT
ON Semiconductor
MOTOROLA
FAIRCHILD SEMICONDUCTOR
National Semiconductor
Texas Instruments
MOSEL VITELIC

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In 2012, There Were Only Six DRAM and NAND Branded Producers

TOSHIBA

NANYA

SK hynix

Micron

+

ELPIDA

SAMSUNG

winbond

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Solidifying Leadership in Memory

Micron

- Founded in 1978
- Headquartered in Boise, Idaho
- ~27,000 Employees
- LTM Revenue: $8.4bn
- IP Patents: ~20,000
- Fab locations:
  - Boise, Idaho
  - Manassas, Virginia
  - Lehi, Utah
  - Singapore
  - Taiwan (Inotera)
  - Italy
  - Israel
- Total Capacity: 375k WSPM[1]

+

ELPIDA

- Founded in 1999
- Headquartered in Tokyo, Japan
- ~5,800 Employees
- LTM Revenue: $3.9bn
- IP Patents: ~6,000
- Fab locations:
  - Hiroshima, Japan
  - Taiwan (Rexchip)
- Total Capacity: 205k WSPM[2]

Note: Revenue for the last twelve months ending February 2012 and December 2011 for Micron and Elpida, respectively. Assumes FX rate of 80 YEN/USD.
1. Current utilized 300mm Equivalent DRAM, NAND, and NOR Wafer Capacity. DRAM includes Micron portion of Inotera wafers. NAND includes all wafers produced for Micron and Intel.
2. Current installed 300mm equivalent capacity. WSPM: Wafer Starts per Month.

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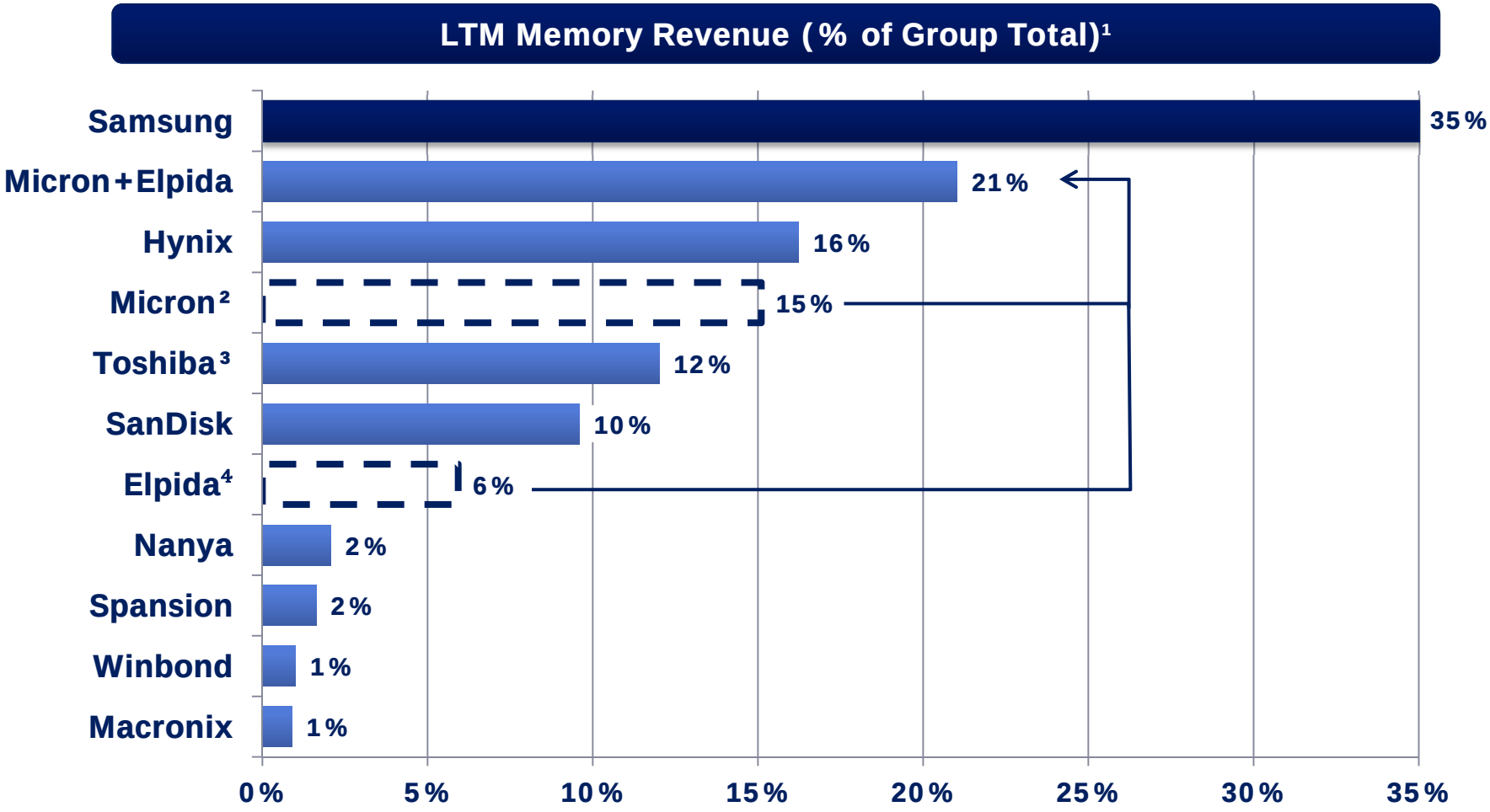
Scale to Invest, Compete, and Serve Customers



Source: Company Data, Micron Estimates, Data from CQ3'11 – CQ2'12 except for Micron
1. Group total defined as only the companies listed on the page although others may also exist.
2. Micron Includes NAND sold to Intel from IM Flash, data from FQ1'12 – FQ4'12.
3. Toshiba's market share % represents actual reported "Memory" revenue from Toshiba.
4. Elpida CQ1'12 and CQ2'12 data estimated

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