

Global and China Memory Industry Report, 2011

Sep. 2011





The Vertical Portal for China Business Intelligence

This report

- Analyzes the global and China mobile phone and tablet
 PC market
- ◆ Focuses on memory industry and memory used in mobile devices
- Highlights memory vendors.

Related Products

Global and China Superconducting Fault Current Limiter (SFCL) Industry Report, 2010-2011

Global and China Small and Medium-sized Display Device Industry Report, 2010-2011

Global and China Crystal Oscillator Industry Report, 2010-2011

China IC Card/Smart Card Industry Report, 2010

Global and China Mobile Phone and Tablet PC Processor Industry Report, 2010-2011

Global and China LED Industry Report, 2010-2011

Please visit our website to order this report and find more information about other titles at www.researchinchina.com

The Vertical Portal for China Business Intelligence

Abstract

In 2011, the standard DRAM saw the slowdown in growth. But the mushroom of tablet PC and smart phone enables the CAGR of the Mobile DRAM shipment to soar to 175%. In Q1 2011, the Mobile DRAM accounted for 15.6% of the total output of global DRAM.

The CAGR of mobile flash exceeds 70%, and the embedded Flash market will enjoy a share of 40% in 2010 to over 60% in the Flash market. eMMC has a good prospect in mobile devices.

According to the ranking concerning revenue from memory products of DRAM vendors in H1 2011, South Korea-based Samsung and Hynix ranked the top two.

Samsung will transform its process technology of DRAM from 3x nm to 2x nm, and that of NAND Flash from 27 nm to 21 nm. In Q1 2011, the proceeds from DRAM, NAND Flash and MCP accounted for 54.4%, 42.3% and 3.3% of Samsung's memory revenue respectively. Benefiting from the substantial growth in the output of 35 nm products, Samsung's memory occupied 40% market shares in Q2. As for Mobile DRAM, Samsung has mass-produced low-power LPDDR2 with 30 nm process.

Hynix will convert DRAM process from 44 nm to 38 nm, and NAND Flash process from 26 nm to 20 nm. In Q1 2011, the sales of DRAM, NAND Flash and MCP made up 71.2%, 19.7% and 9.1% of Hynix's total revenue from memory products separately. Hynix presently employs the 50nm process to produce Mobile DRAM. Since Q2 2011, Hynix will add monthly capacity of 30,000 pcs and plans to raise the proportion of non-PC DRAM to 60%.

The NAND wafer fab, co-invested by Japanese vendors Toshiba and Sandisk, applies the 19-nm process technology. In 2011, Elpida realized the mass-production of 30-nm process DRAM. Elpida has transferred to focus on Mobile DRAM instead of standard DRAM and introduced 30-nm process for the fabrication of the former. The earnings from Mobile DRAM accounted for more than 50% of Elpida's revenue.

The current process technology of Micron Technology is 42 nm process and 37-nm process is still in the testing phase. In Q1 2011, the sales of DRAM, NAND Flash and NOR shared 47%, 31% and 19% of Micron's total revenue respectively. After its reorganization in 2010, Spansion is devoted to embedded memory and agrees to cross license their patented products with Samsung.

The Vertical Portal for China Business Intelligence

Taiwan-based vendor Macronix is the world's largest vendor of Mask ROM and the fourth largest NOR Flash vendor. In Q1 2011, ROM products of Macronix mainly adopted 65-nm process technology, and 45-nm process sample will be introduced in Q2. 110-nm process dominates the production of NOR Flash, and 75-nm process products will be mass-produced in Q2. The revenue of ROM, NOR Flash and Foundry Business Group made up 41%, 51% and 8% of Macronix's total revenue separately in 1Q 2011.

In 2011, Nanya Technology expanded its output of memory to 60,000 pieces, 30,000 pcs of which are 50/42nm standard memory, and the rest 30,000 ones are special memories like Mobile DRAM.

Inotera provides DRAM wafer foundry services and its customers are Nanya Corporation and Micron Technology. The company reached full capacity of 50-nm process products in 2010 and introduced 42-nm process DRAM products in 2011.

The growth of Winbond is mainly motivated by Nor Flash, of which Serial Nor Flash made up around 90% of Flash shipment. In Q1 2011, the sales of Nor Flash, Specialty DRAM and Mobile DRAM accounted for 31%, 36% and 28% of Winbond's total revenue respectively. The main customers of Mobile DRAM include Micron and Spansion.

The Vertical Portal for China Business Intelligence

Table of contents

1 Global and China Mobile Phone Market

- 1.1 Global Mobile Phone Market Size
- 1.2 Market Share of Mobile Phone Manufacturers
- 1.3 Smart Phone Market and Industry
- 1.4 Mobile Phone Industry in China

2 Global and China Tablet PC Market and Industry

- 2.1 Global Tablet PC Market Size
- 2.2 Chinese Tablet PC Market
- 2.2.1 Price Distribution
- 2.2.2 Operating System and Hardware
- 2.3 Assembly and ODM

3 Memory Industry and Market

- 3.1 Industry Overview
- 3.1.1 Product and Technology
- 3.1.2 Market Size
- 3.1.3 DRAM Packaging and Testing
- 3.1.4 Flash Packaging and Testing
- 3.1.5 eMMC
- 3.2 DRAM Market
- 3.2.1 DRAM Supply Market
- 3.2.2 DRAM Demand Market
- 3.2.3 Competition
- 3.3 Flash Market

4 Memory Used in Mobile Devices

- 4.1 Mobile DRAM Product and Application
- 4.2 Mobile DRAM Market
- 4.2.1 Mobile DRAM Market Size
- 4.2.2 Mobile DRAM Application Market
- 4.2.3 Production of Mobile DRAM Manufacturers
- 4.3 Flash Used in Mobile Devices

5 Memory Vendors

- 5.1 Samsung
- 5.2 Hynix
- 5.3 Toshiba
- 5.4 Elpida
- 5.5 Micron
- 5.6 Spansion
- 5.7 Macronix
- 5.8 Inotera
- 5.9 Winbond
- 5.10 Powerchip
- 5.11 Promos
- 5.12 Nanya

The Vertical Portal for China Business Intelligence

- Shipment of Mobile Phone Worldwide, 2007-2014
- Quaterly Global Mobile Phone Shipment and Annual Growth Rate, Q1 2008-Q1 2011
- Quaterly Shipment of CDMA and WCDMA Mobile Phone, 2007-2011
- Global Mobile Phone Shipment by Brand, Q1 2010-Q1 2011
- Market Shares of Major Mobile Phone Brands by Revenue, Q1 2009-Q3 2010
- Shipment of Mobile Phone Worldwide by Brand, 2009-2010
- Operating Margin of Global Top5 Mobile Phone Manufacturers, Q1 2009-Q4 2010
- Shipment of Smart Phone Operating System Worldwide, Q3 2010
- Market Share of Global Smart Phone Manufatcturers, Q1 2011
- Market Share of Smart Phone Operating System, 2009-2012
- Smart Phone Shipment of Global Mobile Phone Manufacturers, 2010-2011
- Chinese Mobile Phone Export Volume and Growth Rate, 2000-2010
- Chinese Mobile Phone Export Value and Growth Rate, 2002-2010
- Chinese Mobile Phone Export Volume and ASP, 2002-2010
- Chinese Mobile Phone Output by Region, 2010
- Shipment of NETBOOK,iPad and Tablet PC, 2008-2012
- Shipment of Global Major Tablet PC Brands, 2011-2012
- DRAM and NAND Technology Development of Major Memory Vendors
- Evolution of DRAM Products, 2003-2010
- Memory Market Size and Growth Rate, 2005-2015
- Memory Market Size, 2005-2015
- Comparison between eMMC and Common NAND Chip
- DRAM Industry Capital Investment, 2002-2011
- Global DRAM Wafer Investment, 2011
- DRAM Wafer Fab Quantity, 2007-2012

The Vertical Portal for China Business Intelligence

- DRAM Wafer Fab Construction and Closed Numbers, 2000-2011
- Quarterly Operating Margin of Main DRAM Vendors
- DRAM Shipment Growth Rate, 2000-2012
- DRAM Fab Model
- Quaterly DRAM Bit Shipment of Major DRAM Vendors
- DRAM Revenue Model
- DRAM Consumption by Application
- PC Shipment by Product, 2005-2015F
- DRAM Quoted Price, Supply and Demand, 2010
- DRAM Contract Price, June, 2011
- DDR3 2Gb Spot Price, June 2010-June 2011
- Average Carrying Capacity of Standard Memory and the Growth Rate, 2006-2012
- DRAM Market Size and Growth Rate, 2005-2012
- DRAM Market Size by Application, 2005-2015
- Operating Revenue and Market Share of DRAM Vendors, Q3 2010-Q2 2011
- NOR Market Size and Growth Rate, 2005-2012
- Market Share of NOR Flash Manufacturers Worldwide
- NAND Flash Quoted Price, Q1 2011-Q2 2011
- NAND Market Size and Growth Rate, 2005-2012
- NAND Shipment by Application, 2008-2015
- NAND Average Carring Capacity by Application
- NAND Market Demand by Application, 2008-2015
- NAND Demand Market by Application, 2008-2012
- Investment Expenditure of NAND Flash, 2004-2015
- NAND Fab Construction and Closed Numbers, 2000-2011

The Vertical Portal for China Business Intelligence

- NAND Fab Model
- NAND Bit Shipment Model
- NAND Application Market Demand
- NAND ASP Model
- NAND Business Revenue of Major Memory Manufacturers
- Market Share of Global Flash Memory Manufacturers, 2008-2011F
- NAND Controll IC Manufacturers
- Comparison Between Standard DRAM and Mobile DRAM
- Comparison among DDR, DDR2 and DDR3
- Proportion of Mobile DRAM in the DRAM Market by Revenue
- Specifications of High-end Smart Phone, 2010
- Average Carring Capacity and Growth Rate of Memory in Smart Phone
- Average Carring Capacity and Growth Rate of Memory in Tablet PC
- Mobile DRAM Products of Major DRAM Manufacturers
- Specifications of Major Mobile DRAM Products
- Market Share of Mobile DRAM Manufacturers
- Global Flash Supply and Demand Market, Q1 2009-Q4 2011
- Proportion of Embedded Flash Shippment, 2005-2012F
- Shippment of Flash Used in Mobile Phone
- eMMC Share of Total Flash Market
- eMMC Density Trend
- Mobile Handset Booting Architecture
- eMMC Brands of Major NAND Manufacturers
- SAMSUNG Sales and Profits, 2008-2010
- SAMSUNG Sales by Division, 2008-2010

The Vertical Portal for China Business Intelligence

- SAMSUNG Operating Profit by Division, 2008-2010
- SAMSUNG Memory Segment Sales by product, Q1 2010-Q4 2011
- SAMSUNG DRAM Shipment and ASP, Q1 2010-Q4 2011
- SAMSUNG NAND Shipment and ASP, Q1 2010-Q4 2011
- DRAM and NAND Revenue Contribution of Apple to SAMSUNG Electronics, 2011
- Technology Roadmap of SAMSUNG MCP
- SAMSUNG Mobile DRAM and MCP Product
- SAMSUNG eMMC Product
- Operating Revenue and Gross Margin of Hynix, 2007-2011
- HYNIX Memory Segment Sales by Product, Q1 2010-Q4 2011
- HYNIX DRAM Shipment and ASP, Q1 2010-Q4 2011
- HYNIX NAND Shipment and ASP, Q1 2010-Q4 2011
- Hynix Sales by Application, Q1 2010-Q1 2011
- HYNIX DRAM Sales by Node, Q1 2010-Q4 2011
- HYNIX NAND Sales by Node, Q1 2010-Q4 2011
- Model Decoding of HYNIX MCP Memory for Mobile Phone
- Sales and Net Income of Toshiba, FY2004-FY2010
- Investment and R&D Expenditure of Toshiba, FY2010-FY2011
- Memory Product Sales of Toshiba, FY2007-FY2010
- NAND Flash Memory Product
- Toshiba eMMC Product
- Operating Revenue and Gross Margin of Elpida, FY2006-FY2010
- Operating Revenue of DRAM Product in Elpida, FY2004-FY2010
- Capital Expenditure of Elpida, FY2011
- Operating Revenue and Net Income of Elpida, FY2003-FY2010
- Operating Revenue of Elpida by Region, 2009-2010

The Vertical Portal for China Business Intelligence

- Mobile DDR/DDR2 DRAM Product of Elpida
- MICRON Sale and Gross Margin, FY2004-FY2011
- Revenue Structure of Micron by Product, FY2006-FY2010
- Revenue Structure of Micron by Application, FY2006-FY2010
- Business of Structure of Micron
- Operating Revenue of Micron by Business, FY2011Q1-Q3
- MICRON R&D and SG&A Expenses, Q3 FY2009-Q3 FY2011
- MICRON Cash Flow From Operations, Q1 FY2010-Q3 FY2011
- Operating Revenue and Gross Margin of Spansion, 2004-2010
- Quarterly Revenue and Gross Margin of Spansion, Q2 2009-Q1 2011
- Revenue of Spansion by Application, Q2 2010-Q1 2011
- Revenue of Spansion by Region, Q2 2010-Q1 2011
- Macronix Sales and Gross Margin, 2003-2011
- Macronix Sales Per Month, June 2009-June 2011
- Macronix Gross Margin, Q1 2009-Q1 2011
- Macronix Quarterly Sales Breakdown by Products, Q1 2010, Q4 2010, Q1 2010
- Macronix Quarterly Quantity Breakdown by Products, Q1 2010, Q4 2010, Q1 2010
- Macronix Quarterly Sales Breakdown by Technology, Q1 2010, Q4 2010, Q1 2010
- Macronix 8" Equivalent Wafer Out & Utilization Rate, Q1 2006-Q1 2011
- Macronix ROM Quantity Index, Q1 2006-Q1 2011
- Macronix ROM Shipments by Technology, Q1 2009-Q1 2011
- Macronix NOR Flash Quantity Index, Q1 2006-Q1 2011
- Macronix NOR Flash Shipments by Technology, Q1 2009-Q1 2011
- Macronix NOR Flash Breakdown, 2011Q1
- Revenue and Gross Margin of Inotera, 2004-2011
- Inotera Revenue and Gross Margin, Q1 2010-Q1 2011

The Vertical Portal for China Business Intelligence

- Inotera Wafer Shipments, Q1 2010-Q1 2011
- Inotera Quarterly Bit Shipments, Q1 2010-Q1 2011
- Revenue and Gross Margin of Winbond, 2006-2010
- Quarterly Revenue and Gross Margin of Winbond, Q2 2009-Q1 2011
- Wafer Process Technology of Winbond, Q1 2009-Q1 2011
- Operating Revenue Structure of Winbond by Product, Q2 2009-Q1 2011
- 12-inch Wafer Output of Winbond by Product, Q1 2009-Q2 2011
- Production Technology Migration Process of Winbond, Q1 2011-Q1 2012
- Operating Revenue and Gross Margin of Powerchip, 2004-2010
- Quarterly Operating Revenue and Gross Margin of Powerchip,Q1 2009-Q1 2011
- DRAM and Flash R&D Progression of Powership, Q1 2011-Q4 2011
- DRAM Product Specifications of Powership
- Revenue and Gross Margin of Promos, 2004-2010
- Quarterly Revenue and Gross Margin of Promos, Q1 2009-Q1 2011
- Promos MCP Product
- Operating Revenue and Gross Margin of Nanya, 2004-2010
- Quarterly Operating Revenue and Gross Margin of Nanya, Q1 2009-Q1 2011
- DRAM Sales Volume and Revenue of Nanya, 2008-2012F
- Capital Expenditure of Nanya, 2003-2011
- Cost Comparison between Micron and Elpida by Process Technology, 2010
- Cost Saving with 50nm Process Technology

The Vertical Portal for China Business Intelligence

How to Buy

You can place your order in the following alternative ways:

- 1.Order online at www.researchinchina.com
- 2.Fax order sheet to us at fax number:+86 10 82601570
- 3. Email your order to: report@researchinchina.com
- 4. Phone us at +86 10 82600828/ 82600893

Party A:		
Name:		
Address:		
Contact Person:	Tel	
E-mail:	Fax	

Party B:					
Name:	Beijing Waterwood Technologies Co., Ltd (ResearchInChina)				
Address:	Room 1008, A2, Tower A, Changyuan Tiandi Building, No. 18, Suzhou Street, Haidian District, Beijing, China 100080				
Contact Person:	Liao Yan	Phone:	86-10-82600828		
E-mail:	report@researchinchina.com	Fax:	86-10-82601570		
Bank details:	Beneficial Name: Beijing Waterwood Technologies Co., Ltd Bank Name: Bank of Communications, Beijing Branch Bank Address: NO.1 jinxiyuan shijicheng,Landianchang,Haidian District,Beijing Bank Account No #: 110060668012015061217 Routing No #: 332906 Bank SWIFT Code: COMMCNSHBJG				

Title	Format	Cost
Total		

Choose type of format

Hard copy	2500 USD
PDF (Single user license)	2400 USD
PDF (Enterprisewide license)	3700 USD

※ Reports will be dispatched immediately once full payment has been received.
Payment may be made by wire transfer or credit card via Paypal.

