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Abstracts

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China's IC design industry has been progressing rapidly, with an annual compound growth rate of 38% during 2001-2009. In 2009, the operating income of Chinese IC design companies climbed 15%, while that of global IC industry dropped 11%.

China's semiconductor downstream market demand is flourishing; computer remains the largest application field, followed by consumer electronics and network communication devices.

Chinese IC design enterprises are still weak. In 2009, the revenue of HiSilicon Technologies Co., Ltd., the largest IC design enterprise in China, was merely 1/5 of that of the world's No.10 IC design enterprise and even 1/40 of that of the global No.1 IC design enterprise.

There were only 5 Chinese Mainland IC design companies each with revenue exceeding US\$100 million in 2009, but there were 10 in 2010, and except Nationz Technologies, HiSilicon Technologies Co., Ltd., and Shenzhen State Micro Technology Co., Ltd. (SMiT), the rest 7 were related to mobile phone industry.

Ingenic Semiconductor Co., Ltd., a supplier of 32-bit embedded CPU products, ranked the third in China's consumer electronics chip market and the first in educational electronics chip market in 2009, and it will go public in Growth Enterprises Market ?GEM?Board in 2011. Furthermore, such traditional basic IC design companies as Shanghai Belling Co., Ltd., China Resources Microelectronics Limited, Jilin Sino-Microelectronics Co., Ltd. (JSMC), and Solomon Systech (International) Limited have

tapped into the fields of new display, automotive electronics, MEMS, etc. while maintaining traditional IC business, and each of them obtained a net income growth rate of over 100% across the first three quarters of 2010.

In the field of network communication IC design, RDA Microelectronics, listed on Nasdaq in 2010, has blossomed into a powerful RF IC company in China. Huawei has no longer completely relied on the WCDMA mobile phone chip of Qualcomm after that of HiSilicon Technologies Co., Ltd. was successfully developed. In Q3 2010, the market share of Spreadtrum Communications in 2G mobile phone chip advanced to 22% from 5% in a year ago.

In the field of multimedia IC design, besides traditional companies such as Vimicro Corporation, Hangzhou Silan Microelectronics Co., Ltd (Silan), and Actions Semiconductor Co., Ltd., companies like Telegent Systems (Shanghai), Haier (Beijing) IC Design Company Ltd, Hangzhou Nationalchip Science & Technology Co., Ltd., and Montage Technology have developed rapidly and been equipped with comparatively powerful design capability.

In the field of smart card IC design, the market share of local chip manufacturers is rising, but the high-order smart card and large capacity chip still depend on overseas manufacturers. Local smart card IC enterprises cover Datang Microelectronics Technology Co., Ltd. (DMT), Beijing Tongfang Microelectronics Co., Ltd. (TMC), Shanghai Fudan Microelectronics Group Co., Ltd., Invengo Information Technology Co., Ltd., etc.

And in other fields of IC design, lots of excellent local IC companies have sprung up, including Zhuhai Orbita Control Engineering Co., Ltd. specializing in highly reliable embedded SOC chip products, Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd. specializing in smart ammeter IC, and Qingdao Eastsoft Communication Technology Co., Ltd. engaged in power line communication chip design.

Contents

1. OVERVIEW OF IC DESIGN INDUSTRY

- 1.1 Characteristics
- 1.2 Development Trend

2. GLOBAL AND CHINA IC DESIGN MARKET

- 2.1 Global
- 2.2 Taiwan
- 2.3 Chinese Mainland
 - 2.3.1 Overview
 - 2.3.2 Mobile Phone IC Market
 - 2.3.3 Smart Card IC Market
 - 2.3.4 Power Management IC Market

3. BASIC IC DESIGN ENTERPRISES

- 3.1 Shanghai Belling Co., Ltd.
 - 3.1.1 Profile
 - 3.1.2 Operation
 - 3.1.3 Strategy
- 3.2 China Resources Microelectronics Limited
 - 3.2.1 Profile
 - 3.2.2 Operation
 - 3.2.3 Development Strategy
- 3.3 Jilin Sino-Microelectronics Co., Ltd. (JSMC)
 - 3.3.1 Profile
 - 3.3.2 Operation
 - 3.3.3 Strategy
- 3.4 Solomon Systech (International) Limited
 - 3.4.1 Profile
 - 3.4.2 Operation
 - 3.4.3 Strategy
- 3.5 Ingenic Semiconductor Co., Ltd.
- 3.6 BLX IC Design Co., Ltd.
- 3.7 C*Core Technology (Suzhou) Co., Ltd.

4. COMMUNICATION IC DESIGN ENTERPRISES

4.1 Nationz Technologies

- 4.1.1 Profile
- 4.1.2 Operation
- 4.1.3 Strategy

4.2 RDA Microelectronics

4.3 HiSilicon Technologies Co., Ltd.

4.4 Spreadtrum Communications

4.5 Leadcore Technology Co., Ltd.

5. MULTIMEDIA IC DESIGN ENTERPRISES

5.1 Vimicro Corporation

5.2 Actions Semiconductor Co., Ltd.

5.3 Hangzhou Silan Microelectronics Co., Ltd (Silan)

- 5.3.1 Profile
- 5.3.2 Operation
- 5.3.3 Strategy

5.4 Telegent Systems (Shanghai)

5.5 Shenzhen Chipsbank Technologies Co. Ltd (Chipsbank)

5.6 GalaxyCore Inc.

5.7 Haier (Beijing) IC Design Company Ltd.

5.8 Hangzhou Nationalchip Science & Technology Co., Ltd.

6. SMART CARD IC DESIGN ENTERPRISES

6.1 Invengo Information Technology Co., Ltd.

- 6.1.1 Profile
- 6.1.2 Operation

6.2 Shanghai Fudan Microelectronics Group Co., Ltd.

6.3 Datang Microelectronics Technology Co., Ltd. (DMT)

6.4 Shanghai Hua Hong (Group) Co., Ltd.

6.5 Beijing Tongfang Microelectronics Co., Ltd. (TMC)

7. OTHER IC DESIGN ENTERPRISES

7.1 Zhuhai Orbita Control Engineering Co., Ltd.

- 7.1.1 Profile

7.1.2 Operation

7.2 Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd.

7.2.1 Profile

7.2.2 Operation

7.2.3 Strategy

7.3 Jiangsu Changjiang Electronics Technology Co., Ltd.

7.3.1 Profile

7.3.2 Operation

7.4 Qingdao Eastsoft Communication Technology Co., Ltd.

7.4.1 Profile

7.4.2 Operation

Selected Charts

SELECTED CHARTS

Vertical Specialization Evolvement of IC Industry
Value Proportion of IC Design in Semiconductor Industry Chain
Development of IC Design Technology
IC System Performance and Integration Degree
Top 10 IC Design Companies by Operating Income, 2000-2009
Key IC Integration Trend of 3C Application Field
Key Semiconductor Components and Major Suppliers of Man-Machine Interface
Global IC Market Size and Growth Rate, 2009-2014E
Total Output Value and Growth Rate of Global IC Design Industry, 2009-2014E
Global IC Design Revenue Structure by Region, 2009
Taiwan IC Design Revenue Structure by Region, 2009
Output Value of Taiwan IC Design Industry, 2009-2012E
Days Sales of Inventory of IC Design Industry
Days Sales of Inventory of IC Design Company
Chinese Mainland IC Market Size and Growth Rate, 2007-2013E
Total Output Value and Growth Rate of Chinese IC Design Industry, 2007-2013E
Application Structure of Chinese IC Market, 2010
Top 20 IC Design Companies in China by Operating Income, 2010
Mobile Phone Shipment of Chinese Mainland
Major Domestic Suppliers of Smart Card Chip
Power Management Chip Revenue and Growth Rate in China, 2005-2009
Personnel Structure of Shanghai Belling Co., Ltd. (up to Dec.31, 2009)
Operating Income and Growth Rate of Shanghai Belling Co., Ltd., 2007-2010
Operating Income Structure of Shanghai Belling Co., Ltd. by Product, 2007-2010
Main Business Gross Margin of Shanghai Belling Co., Ltd. (by Product), 2007-2010
Operating Income Structure of Shanghai Belling Co., Ltd. by Region, 2007-2010
Operating Income and Growth Rate of China Resources Microelectronics Limited, 2007-2010
Operating Income Structure of China Resources Microelectronics Limited (by Product), 2008-2009
Operating Income Structure of China Resources Microelectronics Limited (by Design Technology), 2008-2009
Personnel Structure of JSMC (up to Dec.31, 2009)
JSMC Subsidiaries (up to the end of 2009)
Operating Income and Growth Rate of JSMC, 2007-2010

Operating Income of JSMC (by Product), 2007-2010
Main Business Gross Margin of JSMC (by Product), 2007-2010
Operating Income Structure of JSMC (by Region), 2007-2010
Major Products and Applications of Solomon Systech (International) Limited
Employment of Solomon Systech (International) Limited (up to Dec.31, 2009)
Operating Income and Growth Rate of Solomon Systech (International) Limited, 2007-2010
Product Shipment of Solomon Systech (International) Limited, 2007-2010
Core Technology and Major Products
Product Structure of Ingenic Semiconductor Co., Ltd., 2006-2009
Operating Income of Ingenic Semiconductor Co., Ltd., 2007-2009
Manufacturer Distribution in Domestic Consumer Electronics CPU Chip Market, 2009
Manufacturer Distribution in Domestic Educational Electronics CPU Chip Market, 2009
CPU Development Roadmap of C*Core Technology (Suzhou) Co., Ltd
SOC Design Platform of C*Core Technology (Suzhou) Co., Ltd
Operating Income and Growth Rate of Nationz Technologies, 2007-2010
Main Business Gross Margin of Nationz Technologies (by Product), 2007-2010
Operating Income Structure of Nationz Technologies (by Product), 2007-2010
Product Structure of RDA Microelectronics
Major Clients of RDA Microelectronics
Operating Income and Growth Rate of RDA Microelectronics, 2007-2010
Operating Income and Growth Rate of Spreadtrum Communications, 2007-2010
Operating Income and Growth Rate of Actions Semiconductor Co., Ltd., 2007-2010
Silan Operating Income and Growth Rate, 2007-2010
Silan Operating Income Structure (by Product), 2007-2010
Main Business Gross Margin of Silan (by Product), 2007-2010
Operating Income Structure of Silan (by Region), 2007-2010
Product Application Fields of GalaxyCore Inc.
Major Clients of GalaxyCore Inc.
Operating Income and Growth Rate of Invengo Information Technology Co., Ltd, 2007-2010
Operating Income Structure of Invengo Information Technology Co., Ltd (by Product), 2007-2010
Main Business Gross Margin of Invengo Information Technology Co., Ltd (by Product), 2007-2010
Operating Income Structure of Invengo Information Technology Co., Ltd (by Region), 2007-2010
Operating Income and Growth Rate of Shanghai Fudan Microelectronics Group Co., Ltd., 2007-2010

Operating Income and Growth Rate of TMC, 2006-2010

Gross Margin and Net Profit Margin of TMC, 2006-2010

Operating Income and Growth Rate of Zhuhai Orbita Control Engineering Co., Ltd., 2007-2010

Operating Income Structure of Zhuhai Orbita Control Engineering Co., Ltd. (by Product), 2007-2010

Main Business Gross Margin of Zhuhai Orbita Control Engineering Co., Ltd. (by Product), 2007-2010

Operating Income Structure of Zhuhai Orbita Control Engineering Co., Ltd. (by Region), 2007-2010

Main Business and Major Products of Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd

Operating Income and Net Income of Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd, 2007-2010

Operating Income Structure of Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd (by Product), 2007-2010

Operating Income Structure of Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd (by Region), 2007-2010

Major Client Structure of Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd, 2007-2010

Main Business Gross Margin of Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd (by Product), 2007-2010

Fundraising and Investment Projects of Beijing Fuxing Xiaocheng Electronic Technology Stock Co., Ltd, 2010

Operating Income and Growth Rate of Jiangsu Changjiang Electronics Technology Co., Ltd, 2007-2010

Operating Income Structure of Jiangsu Changjiang Electronics Technology Co., Ltd (by Product), 2007-2010

Main Business Gross Margin of Jiangsu Changjiang Electronics Technology Co., Ltd (by Product), 2007-2010

Operating Income Structure of Jiangsu Changjiang Electronics Technology Co., Ltd (by Region), 2007-2010

Product Classifications

Operating Income of Qingdao Eastsoft Communication Technology Co., Ltd., 2007-2010

Operating Income Structure of Qingdao Eastsoft Communication Technology Co., Ltd. (by Product), 2007-2010

Operating Income Structure of Qingdao Eastsoft Communication Technology Co., Ltd. (by Region), 2007-2010

Main Business Gross Margin of Qingdao Eastsoft Communication Technology Co., Ltd.,
2007-2010

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