

Global Mobile Phone Industry Chain Report, 2007-2008

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Abstracts

The components of a mobile phone can be divided into four major categories.

The first category is the active components. The so-called active components, mainly composed of semiconductor and display, refer to those whose physical and chemical properties change when electrified. More than 50 percent of the total cost of a mobile phone comes from semiconductor, production of which is under the control of European and American companies. The active components include baseband, memory, application processor, power management, RF and camera module. Baseband can be classified into analog baseband and digital baseband, the two of which are as usual integrated and sometimes isolated.

Baseband is the key component of a mobile phone with the highest technical content. Only a few manufacturers possess the technology, including TI (a major supplier for Nokia and SonyEricsson), NXP (a key supplier for Samsung), Freescale (a main supplier for Motorola), Agere (a key supplier for Samsung), MTK (a main supplier for producers on Mainland China), ADI (a key supplier for LG and Sharp), Qualcomm (a leader in CDMA baseband with a market share of over 80%), EMP, Infineon, Broadcom, Skyworks, Toshiba and NEC.

Apart from baseband, memory is the second most expensive semiconductor component. In the high-priced handset, memory is the most expensive component, whose suppliers consist of Samsung, Spansion, Intel, Toshiba and STMicroelectronics. RF mainly includes power amplifier and transceiver, key power amplifier suppliers are composed of RFMD, Skyworks, Renesas and Freescale, while major transceiver suppliers include Qualcomm, STMicroelectronics, Infineon, TI, Renesas, Philips, RFMD and Skyworks.

Semiconductor component producers have a high threshold particularly in RF and analog IC fields with the highest gross profit margins, the global market of which is controlled by American and European manufacturers. The average gross profit margin is between 30% and 40%, and the gross profit margin of analog IC reaches 70%, the highest in the electronic industry. MTK is a recent dark horse in the market, grabbing vigorously handset market on the mainland, and it has got access to the supply chain of LG. The gross profit margin of MTK is also above 40%.

The second category is the passive components, which refer to the components that do not have physical and chemical changes when electrified, mainly including capacitor, inductor and resistor. Capacitor inside a mobile phone is a special MLCC capacitor, and resistor and inductor are also special chip inductor and chip resistor. The major suppliers include Murata, TDK, Kyocera, Taiyo Yuden, Panasonic and Rohm from Japan and Yageo, TA-I, Ralec, Chilisin and Walsin from Taiwan. In the field of passive components, the Japanese manufacturers dominate the high-end market, while the Taiwanese counterparts control the low-end market. The Taiwanese producers are eroding the market of Japanese producers, forcing the latter to continuously upgrade its technology to develop high-end products. The gross profit margin of Taiwanese producers remains at about 10%, while that of Japanese manufacturers is at about 15-20%.

The third category is the structure components, which mainly refer to mobile phone cases and PCB board. Producers of mobile phone case include Green Point, Perlos, Nalato, Nypro, Foxconn, HI-P, Unikun and Biente, while PCB manufacturers are composed of Compeq, Unimicron and Unitech from Taiwan, Ibiden, CMK and Multek from Japan, and Elec&Eltek Group and Elec & Eltek and Ultrasonic Electronics Corp. from Mainland China.

Mobile phone case sector seems simple but actually it has a very high threshold. In particular, the design of ultra-thin handset has to consider how to control electromagnetic radiation, and at present fewer than 15 manufacturers in the world could do it. The gross profit margin of mobile phone case producers is 20% or so. Yet, the market is highly concentrated, with Perlos currently ranking the first in the world.

PCB market is monopolized by vendors from Taiwan and Japan. The high-end market is dominated by the Japanese producers, while the Taiwanese counterparts control low-end market. However, the Taiwanese producers have made much progress in recent years and their PCB production accounts for around 40% of the global total. PCB sector

is experiencing a recovery and its gross profit margin is about 10%.

The fourth category refers to the functional components like electro-acoustic component, vibrating motor, display, battery and antenna. Display is a component taking up a very big proportion to the total cost of a mobile phone. Display has two working procedures, the first of which is to produce a panel, and the second is to make the panel into a module. Most the manufacturers on Mainland China are the module producers, while panel manufacturers include AUO and Wintek from Taiwan, Samsung and Samsung SDI from South Korea, and Kyocera, Sharp, Epson Sanyo, Toshiba-Panasonic Display, and Sony-Toyota ST-LCD from Japan. With the addition of many new production lines, the prices of display have dropped sharply and the gross profit margin of producers has declined to about 10%.

Acoustic component producers consist of Panasonic Electronic Devices, Hosiden, Cookson, Foster Electric, Merry, Philips, Mayloon, Kingsate Electronics, Xuanwei, Knowles Acoustics, Yuanyu Electronic, Shenzhen Linjia Electroacoustic, Hangzhou Shengyuan Electronics, Ningbo Xiangyang Group and Zhejiang Tianle Group. Its gross profit margin is relatively low. For instance, the gross profit margin of Merry, the largest producer of acoustic component in Taiwan province, was less than 7% in the third quarter of 2006. Battery manufacturers are composed of BYD, SCUD, Sanyo Energy, Sony Chemical and TCL Hyperpower Batteries Inc. The battery market has the highest degree of concentration. The Japanese manufacturers rely on its advanced technology and the production lines valued at JPY1 billion, while the Chinese counterparts exchange its cost-effective labor force for expensive production lines. BYD and Sanyo Energy take up more than 50% of the global market share and their gross profit margin is about 15%.

Contents

1. BRIEF INTRODUCTION TO MOBILE PHONE INDUSTRY CHAIN

- 1.1 Brief Introduction to Mobile Phone Components
- 1.2 Status Quo of Mobile Phone Industry Chain
- 1.3 Development Trend of Mobile Phone Industry Chain
- 1.4 Mobile Phone Design and Cost Analysis
 - 1.4.1 IPHONE
 - 1.4.2 Lenovo V800

2. MOBILE PHONE PLATFORM

- 2.1 Brief Introduction
- 2.2 Development Trend of Mobile Phone Baseband
 - 2.2.1 Further Improvement of Integration
 - 2.2.2 Reduction in Development Cost
 - 2.2.3 Multimedia Trend
 - 2.2.4 A Key Factor - Integration and Packaging
 - 2.2.5 Status Quo and Trend of Baseband Industry Development
- 2.3 Options for Separation or Integration of Baseband and Application Processor Design
- 2.4 Status Quo of Mobile Phone Platform Industry
- 2.5 Overview of China Mobile Phone Platform Market
- 2.6 Major Mobile Phone Platform Manufacturers
 - 2.6.1 Qualcomm
 - 2.6.2 EMP
 - 2.6.3 MTK

3. MOBILE PHONE RF

- 3.1 RF Circuit Structure
- 3.2 RF Semiconductor Process
 - 3.2.1 GaAs
 - 3.2.2 SiGe
 - 3.2.3 RF CMOS
 - 3.2.4 UltraCMOS
 - 3.2.5 Si BiCMOS

- 3.3 RF Semiconductor in 3G Era
- 3.4 Status Quo and Trend of Mobile Phone RF Industry Development
- 3.5 Overview of Global Mobile Phone RF Industry
- 3.6 RF Vendors
 - 3.6.1 SKYWOKKS
 - 3.6.2 RFMD

4. MOBILE PHONE EMBEDDED MEMORY

- 4.1 Brief Introduction
 - 4.1.1 Conception
 - 4.1.2 Three Factions of PSRAM
 - 4.1.3 CellularRAM
 - 4.1.4 COSMORAM
 - 4.1.5 UtRAM
 - 4.1.6 Mobile SDRAM
 - 4.1.7 Dispute between NOR and NAND
 - 4.1.8 Future Changes of Mobile Memory and Baseband Framework
- 4.2 Mobile Phone Memory Market and Industry Status
- 4.3 Mobile Phone Memory Manufacturers
 - 4.3.1 Intel
 - 4.3.2 SPANSION
 - 4.3.3 ELPIDA
 - 4.3.4 STMicroelectronics

5. MOBILE PHONE DISPLAY

- 5.1 Development Trend
- 5.2 Mobile Phone Display Industry
- 5.3 Major Mobile Phone Display Manufacturers
 - 5.3.1 Samsung
 - 5.3.2 Samsung SDI
 - 5.3.3 Epson
 - 5.3.4 Hitachi
 - 5.3.5 Sharp
 - 5.3.6 Wintek
 - 5.3.7 Toppoly

6. MOBILE PHONE PCB

- 6.1 Brief Introduction
- 6.2 Latest Development of Global PCB Industry
- 6.3 Mobile Phone PCB Technology
 - 6.3.1 HDI
 - 6.3.2 ALIVH
 - 6.3.3 FVSS
 - 6.3.4 Mobile Phone Rigid-flex PCB
- 6.4 Mobile Phone PCB Industry
 - 6.4.1 Unimicron
 - 6.4.2 Compeq
 - 6.4.3 AT&S
 - 6.4.4 Meadville

7. MOBILE PHONE STRUCTURE COMPONENTS & CASE

- 7.1 Materials
- 7.2 Processing Techniques
- 7.3 Market
- 7.4 Industry
- 7.5 Manufacturers
 - 7.5.1 Green Point
 - 7.5.2 Chicheng
 - 7.5.3 PERLOS

8. MOBILE PHONE ELECTROACOUSTIC COMPONENTS

- 8.1 Brief Introduction
- 8.2 MEMS Microphone
- 8.3 Mobile Phone Electroacoustic Components
- 8.4 Mobile Phone Electroacoustic Component Industry
- 8.5 Mobile Phone Electroacoustic Component Manufacturers
 - 8.5.1 Merry
 - 8.5.2 Hosiden

9. MOBILE PHONE PASSIVE COMPONENTS

- 9.1 Brief Introduction
- 9.2 Development Trend of MLCC

9.3 MLCC Industry Pattern

9.4 Manufacturers

9.4.1 Murata

6.4.2 Yageo

9.4.3 Walsin

10. MOBILE PHONE BATTERY

10.1 Brief Introduction

10.1.1 Liquid Li-ion Battery

10.1.2 Polymer Li-ion Battery

10.2 Mobile Phone Battery Industry Pattern

10.3 Mobile Phone Battery Industry Pattern in Mainland China

10.4 Manufacturers

10.4.1 BYD

10.4.2 Samsung SDI

10.4.3 Sanyo Energy

10.4.4 LG Chem

11. MOBILE PHONE CAMERA MODULE

11.1 Brief Introduction

11.2 Lens Manufacturers

11.2.1 Assembly Technology of Mobile Phone Camera Module

11.2.2 Assembly Manufacturers

11.3 Mobile Phone Camera Module Industry and Its Market Development Trend

11.4 CMOS Sensor Manufacturers

11.4.1 OmniVision

11.4.2 Micron

11.4.3 Magnachip

11.5 Mobile Phone Camera Module Lens Vendors

11.5.1 Genius

11.5.2 Largan Precision

11.5.3 Asia Optical

11.5.4 Kinko Optical

11.5.5 Enplas

12. MOBILE PHONE MANUFACTURERS

12.1 Status Quo of Global Mobile Phone Industry

12.2 Status Quo of China Mobile Phone Industry

12.3 Mobile Phone Brand Manufacturers

12.3.1 Samsung

12.3.2 SonyEricsson

12.3.3 Nokia

12.3.4 LG

12.3.5 Motorola

12.3.6 Bird

12.3.7 TCL

12.3.8 Lenovo

12.3.9 Yulong

12.4 OEM and ODM Manufacturers

12.4.1 HTC

12.4.2 Compal

12.4.3 Arima

12.4.4 Foxconn

12.4.5 Flextronics

12.4.6 ELCOTEQ

Selected Charts

SELECTED CHARTS

Global Baseband Market Size, 2004-2009

Market Shares of World's Major Mobile Phone Baseband Producers by Shipment, 2007

Market Shares of World's Major Mobile Phone Platform Producers by Shipment, 2006

Market Shares of World's Major Mobile Phone Platform Producers by Shipment, 2007

Qualcomm MSM Chip Shipment by Quarter, FY2004-2007

Statistics and Forecast of Revenues and Gross Profit Margin of MTK, 2001-2009

Quarterly Revenue Structure of MTK by Product, 2005Q1-2007Q4

Product Roadmap of MTK, 2006-2009

Market Share Statistics of Global Market of Power Amplifier for Mobile Phone, 2006

Market Share Statistics of Global Market of Transceiver for Mobile Phone, 2006

Market Share Statistics of Global Market of Power Amplifier for Mobile Phone, 2005 & 2007

Market Share Statistics of Global Market of Transceiver for Mobile Phone, 2007 (by Shipment)

Revenues and Gross Profit Margin of Skyworks, FY2002-FY2007

Revenues of Skyworks by Products, FY2003-FY2007

Revenues of Skyworks by Region, FY2005-FY2007

Revenues of Skyworks by Customer, FY2007

Revenues and Operating Profit Margin of RFMD, FY2001-FY2008

Memory Demand for a Mobile Phone, 2005-2010

Statistical and Forecasted Shipment of Mobile Phone Memories, 2005-2010

Market Scale of Mobile Phone Memories, 2006 & 2010

Proportion of Mobile Phone Frameworks, 2006 & 2010

Shipment of Mobile Phone Memories, 2006 & 2010

Statistics and Forecast of Mobile Phone Memory Market Scale, 2006-2011

Capacity Statistics and Forecast of NAND for Mobile Phone, 2007-2009

NOR Memory Demand (Mb) of a Mobile Phone, 2004-2012

RAM Memory Demand (Mb) of a Mobile Phone, 2004-2012

NAND Memory Demand (Mb) of a Mobile Phone, 2004-2012

Market Shares of Major Mobile Phone Memory Vendors, 2007

Market Shares of Global Major NAND Memory Vendors, 2007

Market Shares of Global Major DRAM Vendors, 2007Q3

Flash Memory Sales and Profits of Flash Memory Dept of Intel, 2006Q1-2007Q3

Quarterly Revenue and Gross Profit Margin of Spansion, 2005Q2-2007Q4

Revenues of Spansion by Dept., 2007

Statistics of NOR Flash Memory Industry and the Orders Increment of Spansion, 2006Q3-2007Q4

Statistical Sales Revenue of MirrorBit by Product, 2005Q1-2007Q2

Revenues and Operating Profits of Elpida, FY2005Q1-FY2007Q3

Revenue of Elpida by Dept., FY2006Q3-FY2007Q3

Revenue Statistics of STMicroelectronics by Dept., 2005Q1-2007Q4

Revenue Structure of STMicroelectronics by Dept., 2007

Market Shares of Mobile Phone Display Vendors Worldwide, 2007 (by Sales)

Market Shares of Mobile Phone Display Vendors Worldwide, 2007 (by Shipment)

Market Shares of Mobile Phone TFT-LCD Vendors Worldwide (by Sales)

Market Shares of Mobile Phone CSTN-LCD Vendors Worldwide (by Sales)

Quarterly Shipment of Small-size Display of Samsung, 2004Q2-2008Q1

Sales Revenue and Operating Profit Margin of Samsung SDI, 2005Q2-2008Q1

Investment of Samsung SDI by Field, 2007

Investment in R&D Personnel of Samsung SDI by Field, 2007

Investment in R&D of Samsung SDI by Field, 2007

Shipment and Average Sales Price of Small-size Display of Samsung SDI, 2005Q4-2008Q1

Type and Structure of Small-size Display Screen Products of Samsung SDI, 2005Q4-2006Q3

Active OLED Development Plan of Samsung SDI

Revenue of Epson by Business, FY2006 & FY2007

Revenue of Epson by Product, FY2006 & FY2007

Planning for LCD Business of Epson, 2007-2008

Organization Chart of Epson

Medium-and Small-size LCD Revenues of Sharp, FY2003-FY2007

Statistics and Forecast of Revenues and Gross Profit Margin of Wintek, 2002-2009

Revenue of Wintek by Product, 2007

Revenue of Wintek by Application, 2007

Revenue of Wintek by Product, 2007 & 2008

Production Value Statistics of PCB by Technology Worldwide, 2005

Production Value Statistics of PCB by Technology Worldwide, 2007

Production Value Statistics of PCB by Technology Worldwide, 2011

Production Value Statistics of PCB by Region Worldwide, 1998-2011

BOOK/BILL Ratio of Rigid PCB Industry, Mar.2006-Mar.2008

Monthly BOOK/BILL Ratio of FPC Industry, Mar.2006-Mar.2008

Monthly Growth Rate of Flex-rigid Board Shipment, Mar.2006-Mar.2008

Market Shares of Global Major Mobile Phone PCB Vendors by Shipment, 2007

Statistics and Forecast of Revenues and Gross Profit Margin of Unimicron, 2000-2008

Statistics and Forecast of Quarterly Revenues and After-tax Profits of Unimicron, 2005Q1-2008Q4

Revenue of Unimicron by Product, 2007Q1-2008Q1

Revenue of Unimicron by Application, 2007Q1-2008Q1

Statistics and Forecast of Mobile Phone PCB Shipment of Unimicron, 2006-2008

Factory Distribution and Business Profile of Unimicron

Production Capacity of Unimicron by Product at the End of 2008

Statistics and Forecast of Revenues and Operating Profit Margin of Compeq, 2003-2008

Products of Compeq by Technology, 2006Q1-2007Q4

Statistics and Forecast of Monthly Production Capacity of Compeq, 2004-2008

R&D Investments of Compeq, 2002-2007Q1

Revenue of Compeq by Customer, 2006

Statistics and Forecast of Mobile Phone Board Production Capacity of AT&S, 2005-2009

Revenues and Operating Profits of Merry, 2003-2007

Revenues of Merry by Product, 2003-2007

Revenues of Merry by Application, 2003-2007

Revenues of Merry by Region, 2003-2007

Statistics and Forecast of Metal & Plastic Cases and Configuration Parts Market Scale, 2005-2011

Market Share of Global Major Mobile Phone Configuration Parts & Case Vendors, 2006

Market Share of Global Major Mobile Phone Configuration Parts & Case Vendors, 2007

Statistics and Forecast of Revenue, Gross Profit Margin and Profit of Green Point, 2006Q1-2007Q4

Revenues of Green Point by Product, 2006Q1-2007Q4

Statistics and Forecast of Revenue and Gross Profit Margin of Chicheng, 2005-2009

Revenues of Chicheng by Product, 2006-2008

Quarterly Sales and EBIT Profits of PERLOS, 2006Q1-2007Q3

Sales Revenues of PERLOS, 2001-2006

Revenues of PERLOS by Region, 2005 & 2006

Staff Statistics of PERLOS, 2006Q1-2007Q3

Investments of PERLOS, 2006Q1-2007Q3

Plant Area Distribution of PERLOS by Region, 2006Q1, 2007Q1 & 2H2007

Statistical and Forecasted Shipment of Mini Speaker and Telephone Receiver (Microphone) Worldwide, 2003-2008

Free Mobile Phone Headphones and Bluetooth Earphone Market, 2003-2008

Revenues and Operating Profit Margin of Merry, 2003-2009

Revenue of Merry by Product, 2007-2008

Revenues and Operating Profits of Hosiden, FY2004-FY2008
Revenue of Hosiden by Product, FY2004-FY2007
Production Capacities of Global 8 Major MLCC Vendors, 2006 &2007
Market Shares of Global Major MLCC Vendors, 2007
Market Shares of Global Major CHIP-R Vendors, 2007
Revenues and Profits of Murata, FY2003-FY2007
Revenue of Murata by Product, FY2003-FY2007
Revenue of Murata by Application, FY2003-FY2007
Statistics and Forecast of Revenues and Operating Profit Margin of Yageo, FY2003-FY2009
Revenue of Yageo by Region, 2007Q1-2008Q1
Revenue of Yageo by Product, 2007Q1-2008Q4
MLCC and CHIP-R Production Capacity and Capacity Utilization of Yageo
Revenues and Gross Profit Margin of Walsin, 2001-2007
Revenues of Walsin by Dept., 2003-2007
Revenues of Walsin by Application, 2008Q1
Revenue of Walsin by Region, 2008Q1
Revenue of Walsin by Product, 2008Q1
Market Shares of Global Major Battery Producers, 2007
Li-ion Battery Market Shares by Region Worldwide, 1999-2005
Quarterly Shipment of Li-ion Battery Chip Producers, FY2004-FY2006
Market Shares of Mobile Phone Battery Producers in Mainland China, 2007
Revenue and Gross Profit Margin of Shenzhen BAK Battery Co., Ltd., FY2002-FY2006
Revenue of Shenzhen BAK Battery Co., Ltd by Product, FY2005-2008
Revenue of Shenzhen BAK Battery Co., Ltd by Region, FY2005-FY2008
Sales Revenue and Operating Profit Margin of Samsung SDI, 2005Q2-2008Q1
Investments of Samsung SDI by Field, 2007
Battery Shipment and Battery Average Price of Samsung SDI, 2005Q1-2008Q1
Battery & PCB Material Revenues and Operating Profits of LG Chemical, 2006-2008
Market Shares of Global Major CMOS Sensor Vendors, 2007
Market Shares of Global Major Mobile Phone Lens Vendors, 2007
Market Shares of Camera Module Assemblies, 1H2007
Statistical Revenues of Omnivision, FY2003Q2-FY2008Q2
Revenues and Operating Profits of Omnivision, FY2003-FY2008
Statistical Shipment of Omnivision, FY2006Q4-FY2008Q2
Quarterly Revenues and Gross Profit Margin of MagnaChip, 2005Q1-2008Q1
Revenue of Magnachip by Product, 2007Q1-2008Q1
Revenue of Magnachip by Region, 2007Q1-2008Q1
Sales Revenues and Gross Profit Margin of Largan Precision Co., Ltd, 2004-2007

Quarterly Revenues of Largan Precision Co., Ltd by Product, 2007
Revenues of Kinko Optical Co., Ltd. by Application, Jan.2007-Feb.2008
Revenue of Enplas by Product, FY2004-FY2008
Statistics and Forecast of Global Mobile Phone Shipment, 2005-2011
Mobile Phone Shipment by Region, 2007
Mobile Phone Shipment and Annual Growth of Samsung, 2001-2007
Quarterly Shipment of Samsung Mobile Phones, 2005Q1-2007Q4
Mobile Phone Shipment of Samsung by Region, 2006Q4-2007Q3
Exported Average Price and Operating Profit Margin of Samsung Mobile Phones, 2005Q1-2008Q1
Shipment and Average Selling Price of SonyEricsson, 2005Q1-2007Q4
Revenues and Operating Profit Margin of SonyEricsson, 2006Q1-2007Q4
Mobile Phone Shipment of Nokia by Region,2005Q1-2007Q4
Mobile Phone Shipment and Average Selling Price of Nokia, 2005Q1-2007Q4
Mobile Phone Sales Revenue and Operating Profit Margin of Nokia, 2005Q1-2007Q4
Quarterly Mobile Phone Shipment of Nokia in Greater China, 2004Q1-2008Q1
Mobile Phone Shipment and Annual Growth of LG, 2001-2007
Quarterly Shipment of LG Mobile Phones (by Network), 2005Q4-2007Q4
Quarterly Revenues and Operating Profits of LG Mobile Phone, 2006Q1-2007Q4
Revenue of LG Mobile Phone Dept by Region
Revenues of Motorola by Dept., 2004-1H2007
Mobile Phone Revenues and Operating Profit Margin of Motorola, 2006Q1-2007Q4
Mobile Phone Shipment and Market Shares of Motorola, 2006Q1-2007Q4
Sales Volume of Bird Mobile Phones, 2000-2007
Pre-tax Profits of TCL Communications, 2005Q1-2007Q2
Revenues and Gross Profit Margin of TCL Communications, 2002-2007
R&D, Sales and Administrative Expenditure of TCL Communications, 2002-2007
Revenues and Net Profits of Yulong, 2001-2007
Revenue Statistics and Forecast of HTC by Product, 2007Q1-2008Q4
Revenues and Gross Profit Margin of HTC, 2005-2009
Revenue and Gross Profit Margin of Compal Communications, 2001-2006
Mobile Phone Shipment of Arima Communications, 2003-2007
Statistics and Forecast of Revenues and Gross Profit Margin of Arima Communications, 2002-2009
Revenue of Arima Communications by Customer, 2007Q1-2008Q4
Shipment and Average Selling Price of Arima Communications, 2005Q1-2006Q4
Statistics and Forecast of Mobile Phone Shipment of Arima, 2006Q1-2008Q4
Investments of Arima Communications in Mainland China
Revenue and Gross Profit Margin of Foxconn, 2003-2007

Revenues and Operating Profit Margin of Flextronics, 2006Q1-2007Q4
Revenue of Flextronics by Product, 2005Q4-2007Q4
Revenue Statistics of Elecoteq, 1997-2007
Sales of Elecoteq, 2005Q1-2007Q4
Terminal Business Income of Elocteq, 2005Q1-2007Q4
Operating Profits of Elocteq, 2005Q1-2007Q4
Revenue of Elocteq by Region, 2004Q1-2007Q4
Chip Shipment and Market Shares of Qualcomm, 2002-2007
The Demand of Different Types of Electronic Products for HDI Multi-layer Boards
Mobile Phone Mainboard Processing Techniques and Substrate Technical Indicators of Japanese Manufacturers, 2006 -2007
Mobile Phone Board Shipment of Unimicron, 2002-2007
Mobile Phone Board Shipment of Compeq, 2002-2007
Revenue of Chicheng by Customers, 2006-2007Q1
Electroacoustic Components Supply Chain of Mobile Phone Manufacturers
Production Bases of Sanyo Energy (Hong Kong) Co., Ltd in Mainland China
The relationship between CMOS Image Sensor IC and Wafer Fab
Revenue of Yaguang by Product, 2005-2007
Mobile Phone Camera Shipment of Yaguang, 2006-2007
Sales Volume of Global Top 14 Mobile Phone Brand Vendors, 2007
Suppliers of Main Components for Samsung Mobile Phone
Suppliers of Main Components for Nokia Mobile Phone
Suppliers of Main Components for LG Mobile Phone
Sales Volume, Sales Revenue and Average Price of Bird, 2005, 2006 & 2007
Suppliers of Main Components for Bird Mobile Phone
Sales Volume and Sales Revenue of TCL Mobile Phone, 2005Q2-2007Q4
Main Suppliers of Main Components for TCL Mobile Phone
Mobile Phone Shipment and Sales Revenues of Lenovo Mobile, 2005Q2-2007Q4
Major Suppliers of Raw Materials for Arima Communications
Annual Production Capacity, 2004-2007
Financial Performance of Arima's Enterprises in Mainland China, 2006
Production Bases of Flextronics in China
Production Bases of Elocteq

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