



# Global and China Laptop and Tablet PC Industry Report, 2011-2012

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## STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

## REPORT OBJECTIVES

- ◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- ◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- ◆ To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

## METHODOLOGY

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

## INFORMATION SOURCES

The primary information sources include NBS(National Bureau of Statistics of China), Wind, and Ministry of Industry and Information Technology of the P.R. China etc .

## Abstract

In 2011, laptop computer vendors encountered two major difficulties. First, Eurozone debt crisis deteriorated, while Europe is one of major laptop computer markets; second, the Thailand flood in October hit the HDD disk industry severely and impacted laptop computer shipment in best-season Q4 since nearly half of the hard disks worldwide were produced there. As a result, the laptop shipment registered 195 million units in 2011, just up 1.6% from 2010.

94% of global laptop computers are assembled by Taiwanese vendors, mostly ODMs instead of OEMs. Majority of vendors just define the product positioning, rather than design. ODMs assume not only design and production but component procurement. So, laptop ODM is not the field for which ordinary EMS manufacturers are competent, and only a few ones can do that.

In 2011, laptops witnessed two biggest changes. Above all, the traditional EMS corporations-- Flextronics quitted the laptop contract manufacture. Flextronics tapped into the field in 2009, but within two years, it only received HP's orders, and HP's order price was much lower than that of other vendors. Therefore, most of ODMs are reluctant to deal with HP's orders. Though Flextronics received orders, it suffered huge losses.

Hon Hai, quite similar to Flextronics, persevered in developing the laptop contract manufacture, but it strictly controlled the contract scale. Many believe Hon Hai will retreat from the laptop contract manufacture sooner or later. The withdrawal of EMS players brought a reprieve to laptop ODMs who competed fiercely for meager profit.

Second, the laptop production transferred to western China. Although all laptop ODMs are from Taiwan, their production bases are located in Mainland China. According to the data of the Ministry of Industry and Information Technology (MIIT), China's laptop output was 244 million in 2011, of which 230 million ones were exported. Herein, laptops cover Tablet PCs and Kindle Fire e-book readers.

In 2010, laptop manufacturers accessed to Chongqing successively. Their production bases put into production in 2011 when 25,478,200 computers were produced in Chongqing (an 11.9-fold rise), including 24,073,900 laptops (up 25.4-fold). However, Chengdu became the iPad production base, with the output of close to 20 million units in 2011.

Traditional laptop production bases are located in Shanghai and Kunshan. In 2011, 89.54 million laptops were produced in Shanghai and 89.07 million ones in Jiangsu Kunshan. The laptop production transferred to western China because of the rising labor costs in the Yangtze River Delta. For production staff and management personnel, the wages rose year by year, which made laptop ODMs with the gross margin of 3-4% be overwhelmed.

In western provinces of China, the labor costs are lower, but the logistics costs are higher. Moreover, the western labor costs are growing rapidly. Therefore, Chongqing is the second base at most; the Yangtze River Delta is still the first base. The future production base of Taiwanese laptop ODMs may be Viet Nam. The laptop supporting industrial chain in the Yangtze River Delta is the most perfect, and the logistics costs are the lowest, so the region will still be the main production base in the upcoming 2-3 years.

In 2011, Tablet PCs made great strides. Apple's iPad shipment reached 47.6 million, a substantial rise of 2.2 times. In fact, the biggest difference between Tablet PC and laptop lies in processors and screens. It is hard to make product differentiation in processors, while it is easier to differentiate screens, especially touch screens.

OGS (One Glass Solution) is most discussed and recognized as the development direction of touch screens. OGS has three kinds. To keep the independent industry chain, touch screen manufacturers integrate upstream tempered glass cover lens to propose TOL (Touch On Lens) solutions. Panel makers prefer in-house touch process, so they propose On-cell solutions and In-cell solutions. Under the guide of Apple, On-Cell and In-Cell solutions have grown mature.

The monopoly of Samsung in AMOLED forces Apple to seek cooperation with the panel makers such as Sharp and TMD, and Apple projects huge capital in R&D of screen and touch technology. It is very possible that Apple will accept On-Cell and In-Cell solutions of panel makers. Most people believe that In-Cell solutions will be adopted. At present, only TPK and Wintek supply touch screens for iPad, neither of which are panel manufacturers; if In-Cell solutions are employed, both of them will lose the business opportunities valued at USD8 billion, but it is out of the question. It is still unknown that whether TOL or In-Cell will win.

iPad 3 will be launched in March 2012. To reduce its over-reliance on Hon Hai, Apple has cooperated with Pegatron and it also considers the cooperation with Quanta Computer that is the largest laptop ODM.

**Shipment of Major Laptop ODMs in the World, 2010-2011 (Unit: mln)**

	2010	2011E	Major Clients
Quanta Computer	53.44	55.8	HP, Dell, Lenovo, Toshiba, Asus
Compal	45.1	40.5	Acer, Dell, Lenovo, HP, Toshiba
Wistron	27.5	31.6	Acer, Dell, Lenovo
Inventec	16.0	16.0	HP, Toshiba
Hon Hai	8.0	12.0	HP, Asus
Pegatron	15.45	15.5	ASUS

### 1 Global Laptop Market

- 1.1 Laptop Market Size and Brands
- 1.2 Tablet PC Market

### 2 Chinese Laptop Market

- 2.1 Market Size
- 2.2 Market
  - 2.2.1 Brands
  - 2.2.2 Brand Awareness, 2011
  - 2.2.3 Prices, 2011
- 2.3 Industry
- 2.4 Export

### 3 Overview of Laptop Industry

- 3.1 Design and Assemble Process
- 3.2 Industry Chain
- 3.3 Cost Analysis

### 4 Laptop CPU Vendors

- 4.1 Intel
- 4.2 AMD

### 5 Laptop ODMs

- 5.1 Industry Status
- 5.2 Quanta Computer
- 5.3 Compal
- 5.4 Wistron
- 5.5 Inventec

5.6 Pegatron

5.7 ECS

5.8 Hon Hai

5.9 Clevo

5.10 MSI

### 6 WLAN Modules

- 6.1 Introduction
- 6.2 Arcadyan Technology
- 6.3 CAMEO
- 6.4 Gemtek

### 7 Laptop Battery Manufacturers

- 7.1 Simplo
- 7.2 Dynapack
- 7.3 Clexpert

### 8 Case and Structure Manufacturers

- 8.1 Market Trends
- 8.2 Industry Pattern
- 8.3 Relation between Suppliers and Vendors
- 8.4 Juteng
- 8.5 Huan Hsin
- 8.6 Catcher
- 8.7 Waffer
- 8.8 Shengmei
- 8.9 Zhan Yun

8.10 Gallant Precision

8.11 Dragon Technology

### 9 Laptop Display Manufacturers

- 9.1 Status Quo and Future
- 9.2 Samsung
- 9.3 LG Display
- 9.4 AUO
- 9.5 Chimei-Innolux
- 9.6 Hannstar LCD

### 10 HDD Manufacturers

- 10.1 Industry Overview
- 10.2 Industry Pattern
- 10.3 Dynamics
- 10.4 Seagate
- 10.4 Western Digital

### 11 Cooling Module Manufacturers

- 11.1 Overview
- 11.2 Auras Technology
- 11.3 Chaun Choung Technology
- 11.4 Asia Vital Components
- 11.5 Foxconn Technology

### 12 Laptop CDD Manufacturers

- 12.1 Industry Overview
- 12.1 Liteon Technology

12.2 Liteon Technology

12.3 Quanta Storage

### 13 Laptop PCB Manufacturers

- 13.1 Hannstar Broad PCB
- 13.2 Gold Circuit Electronics
- 13.3 Tripod Technology

### 14 Tablet PC

- 14.1 Overview
- 14.2 Dismantling of iPad2
- 14.3 iPad2 Material Costs
- 14.4 Dismantling of Samsung Galaxy Tab
- 14.5 Samsung Galaxy Tab BOM

### 15 Tablet PC Supply Chain

- 15.1 iPad Supply Chain
- 15.2 iPad Suppliers
- 15.3 Technology Direction of Tablet PC Touch Screen
- 15.4 TPK
- 15.5 Wintek

- Shipment of Netbook, iPad and Tablet PC, 2008-2012
- Laptop Shipment in Chinese Market, 2003-2011
- Market Shares of Laptop Vendors by Shipment in China, 2009-2011
- Laptop Development Process
- Laptop Development Process by Region
- Laptop Industry Chain
- Cost Structure of High-end Laptop, 2009-2011
- Cost Structure of Low and Medium-end Laptop, 2009-2011
- Intel Revenue by Product, 2006-2008
- Intel Revenue by Product, 2008-2010
- Intel CPU Technology Roadmap
- AMD Laptop CPU Roadmap
- Market Shares of Major Laptop ODMs Worldwide, 2006
- Shipment of Major Laptop ODMs by Brand, 2007
- Market Shares of Major Laptop ODMs, 2008
- Supply Relationship and Shipment between Laptop Vendors and ODMs, 2010
- Supply Relationship and Shipment between Laptop Vendors and ODMs, 2011
- Inventec's Revenue and Gross Margin, 2001-2011
- Revenue of Arcadyan Technology by Product, 2007-2008
- Revenue and Shipment of Arcadyan Technology by Application, 2008- H1 2010
- Clexpert's Revenue and Gross Margin, 2006-2011
- Laptop Case and Structure Market Size, 2005-2012
- Laptop (including Tablet PC) Case and Structure Market Breakdown by Manufacturers, 2010-2011
- HP's Laptop Case and Structure Breakdown by Suppliers, 2010-2011
- ACER's Laptop Case and Structure Breakdown by Suppliers, 2010-2011

- DELL's Laptop Case and Structure Breakdown by Suppliers, 2010-2011
- TOSHIBA's Laptop Case and Structure Breakdown by Suppliers, 2010-2011
- ASUS' Laptop Case and Structure Breakdown by Suppliers, 2010-2011
- LENOVO's Laptop Case and Structure Breakdown by Suppliers, 2010-2011
- APPLE's Laptop Case and Structure Breakdown by Suppliers, 2010-2011
- Revenue Breakdown of Juteng by Client, FY2007
- Global Presence of Juteng
- Revenue and Pretax Profit of Huan Hsin, 2003-2011
- Revenue of Huan Hsin by Product, 2009-Q3 2010
- Presence of Huan Hsin in Mainland China
- Waffer's Revenue and Gross Margin, 2004-2011
- Samsung's Revenue and Operating Margin, 2007-2012
- Revenue of Chimei-Innolux by Size, Q3 2009-Q2 2011
- Revenue and Shipment of Small and Medium-size Panels of Chimei-Innolux, Q3 2009-Q2 2011
- Capacity of Chimei-Innolux by Production Line, Q2 2010
- Revenue and Operating Margin of Hannstar LCD, 2003-2011
- Global Hard Disk Shipment, 1998-2008
- Global Hard Disk Shipment, 2009-2014
- Hard Disk Sizes, 2009-2014
- Global Hard Disk Shipment by Region, 2011
- Market Share of Major Hard Disk Manufacturers by Shipment in the World, Q1 2007-Q2 2010
- Market Share of Major Hard Disk Manufacturers by Shipment in the World, 2011
- Laptop Hard Disk Capacity, 2009-2011
- Laptop Hard Disk Speed, 2008-2010
- Seagate's Revenue and Shipment, Q1 FY2010-Q2 2012



- Revenue and Average Selling Price of Hard Disk of Western Digital, Q1 FY2010-Q2 2012
- Structure and Working Principle of Heat Pipes
- Laptop Cooling Modules
- ODD Shipment of Liteon Technology and Quanta Storage, Q1 2009 -Q4 2011
- Associate Companies of Hannstar Broad
- Revenue and Gross Margin of Hannstar Broad, 2006-2011
- Revenue and Gross Margin of Gold Circuit Electronics, 2005-2011
- Revenue and Gross Margin of Tripod Technology, 2005-2011
- iPad2 Cost Structure
- Cost Structure of Samsung Galaxy Tab
- Relationship between TPK Holding and Associate Companies
- Shareholder Structure of TPK Holding
- Revenue and Gross Margin of TPK Holding, 2007-2012
- Revenue and Operating Margin of TPK Holding, 2007-2012
- Revenue , Gross Margin and Operating Margin of TPK Holding, Q1 2010-Q4 2011
- Touch Screen Sales Volume and Gross Margin of TPK Holding, 2007-2010
- Customers of TPK Holding, 2008-2009
- Customers of TPK Holding, 2010
- Wintek's Revenue and Gross Margin, 2003-2011
- Wintek's Revenue and Operating Margin, 2003-2011
- Wintek's Revenue and Growth Rate, Jan. 2010-Jan. 2012
- Wintek's Revenue by Product, 2006-2011
- Wintek's Customers, 2009-2011
- Wintek's Capacitive Touch Screen Capacity
- Wintek's Touch Screen Cover Glass Capacity

- Wintek's ATT Structure
- Wintek's ATT Process
- Wintek's ATT and Traditional Capacitance G/G Touch Screen
- Global Laptop Shipment and Growth Rate, 2007-2013
- Shipment of Major Laptop Vendors Worldwide, 2010-2011
- Market Shares of Major Laptop Vendors Worldwide, Q4 2010-Q1 2012
- Market Share of Major Laptop Brands in China, 2009-2011
- Ranking of Laptop Brands in China by Awareness, Q1-Q4 2011
- Laptop Prices in China, 2011
- Laptop (including Tablet PC) Output in China, 2004-2011
- Laptop Output by Region in China, 2010-2011
- Laptop Export Volume and Average Price in China, Jan. 2010-Dec. 2011
- Manufacturers in Laptop Industry Chain
- Intel's Typical Laptop CPU Prices, 2012
- CPU Prices of Entry-level Desktops and Netbooks
- Intel's Top Laptop CPU Prices
- Intel's Medium-end Laptop CPU Prices
- Intel's Low-end Laptop CPU Prices
- Intel's Revenue and Gross Margin, 2004-2011
- Intel's Revenue and Operating Margin, 2004-2011
- Intel's Revenue and Net Profit Margin, 2004-2011
- Intel's Revenue by Region, 2006- Q4 2011
- AMD's Revenue and Gross Margin, 2004-2011
- AMD's Revenue and Operating Margin, 2004-2011
- AMD's Revenue and Net Profit Margin, 2004-2011

- AMD's Revenue by Division, 2006-2011
- AMD's Operating Income by Division, 2006-2011
- Gross Margin of Major Laptop ODMs Worldwide, 2009-2010
- Quarterly Shipment of Global Laptop Manufacturers, 2010
- Quanta's Revenue and Gross Margin, 2001-2011
- Quanta's Revenue and Growth Rate, Dec 2009-Dec 2011
- Quanta's Laptop Shipment and Growth Rate, 2004-2011
- Quanta's Revenue by Region, 2008-2011
- Quanta's Revenue by Product, 2007-2011
- Quanta's Revenue by Customer, 2007-2011
- Compal's Global Presence
- Compal's Revenue and Gross Margin, 1999-2011
- Compal's Revenue and YoY Growth Rate, Dec 2009-Dec 2011
- Compal's Laptop Shipment and Growth Rate, 2007-2011
- Compal's Revenue by Customer, 2007-2012
- Compal's Output in China, 2009-2011
- Wistron's Revenue and Gross Margin, 2003-2011
- Wistron's Laptop Shipment and Growth Rate, 2004-2011
- Wistron's Revenue by Product, 2005-2011
- Wistron's Laptop Shipment by Customer, 2011
- Wistron's Laptop Shipment in China, 2009-2011
- Inventec's Revenue and Growth Rate, Jan. 2010-Jan. 2012
- Inventec's Revenue by Product, 2007-2011
- Inventec's Laptop Shipment, 1999-2009
- Pegatron's Revenue and Operating Margin, 2008-2011

- Pegatron's Revenue and Growth Rate, Dec. 2009-Dec. 2011
- Pegatron's Revenue by Division, 2008-2010
- Pegatron's Revenue by Product, 2010
- Pegatron's Revenue by Region, 2008-2010
- Pegatron's Revenue by Application, Q1 2010-Q3 2011
- ECS' Revenue and Operating Margin, 2005-2010
- ECS' Revenue and YoY Growth Rate, Dec. 2009-Dec. 2011
- Honhai's Revenue and Gross Margin, 2004-2011
- Clevo's Revenue and Gross Margin, 2004-2011
- Clevo's Revenue YoY Growth Rate, Dec. 2009-Dec. 2011
- Clevo's Profile
- Clevo's Laptop Capacity, Output, Sales Volume and Output Value, 2007-2011
- MSI's Global Presence
- MSI's Revenue and Gross Margin, 2005-2011
- MSI's Revenue and Growth Rate, Dec. 2009-Dec. 2011
- MSI's Revenue by Product, 2009-2011
- Revenue and Operating Margin of Arcadyan Technology, 2003-2011
- Revenue and YoY Growth Rate of Arcadyan Technology, Dec. 2009-Dec. 2011
- Revenue of Arcadyan Technology by Region, 2007-2010
- CAMEO's Revenue and Operating Margin, 2002-2011
- CAMEO's Revenue and YoY Growth Rate, Dec. 2009-Dec. 2011
- Gemtek's Revenue and Operating Margin, 2004-2011
- Gemtek's Revenue and YoY Growth Rate, Dec. 2009-Dec. 2011
- Simplo's Revenue and Gross Margin, 2000-2011
- Simplo's Laptop Battery Shipment and Its Global Market Share, 1999-2011

- Simplio's Revenue and YoY Growth Rate, Dec. 2009-Dec. 2011
- Dynapack's Revenue and Gross Margin, 2002-2011
- Dynapack's Revenue and YoY Growth Rate, Dec. 2009-Dec. 2011
- Cleexpert's Revenue and YoY Growth Rate, Dec. 2009-Dec. 2011
- Juteng's Revenue and EBIT, 2004-2011
- Juteng's Revenue and Operating Income, 2004-2011
- Juteng's Revenue and Gross Profit, 2005-2011
- Juteng's Revenue by Customer, 2009-2011
- Catcher's Revenue and Operating Margin, 2001-2011
- Catcher's Revenue and Growth Rate, Jan. 2010-Jan. 2012
- Catcher's Production Bases
- Waffer's Revenue and Growth Rate, Jan. 2010-Jan. 2012
- Selected Financial Data of Zhan Yun, 2008
- Laptop (Including Tablet PC) Sizes, 2009-2011
- Laptop Panel Prices, Jan. 2009-Jan. 2012
- Monthly Shipment and Growth Rate of Laptop (Including Tablet PC), Dec. 2010-Dec. 2011
- Market Share of Major Laptop Panel (Including Tablet PC) Manufacturers by Revenue, 2010-2011
- Samsung's Revenue by Product, 2009-2011
- Revenue, Operating Margin, Shipment and Average Selling Price of Samsung's LCD Division, Q1 2010-Q4 2011
- Revenue and Gross Margin of LG DISPLAY, 2002-2011
- Revenue and Operating Margin of LG DISPLAY, 2002-2011
- Shipment and Average Price of LG DISPLAY, Q4 2010-Q4 2011
- Revenue of LG DISPLAY by Application, 2009-2012
- Revenue of LG DISPLAY by Application, Q4 2010-Q4 2011
- Capacity of LG DISPLAY by Production Line, Q4 2009-Q4 2010

- Production Lines of LG DISPLAY
- AUO's Revenue and Operating Margin, 2004-2011
- AUO's Revenue by Application, Q4 2010-Q4 2011
- AUO's Capacity by Production Line, Q4 2011
- Revenue, Gross Margin and EBITDA of Chimei-Innolux, Q3 2009-Q2 2011
- Revenue of Chimei-Innolux by Application, Q3 2009-Q2 2011
- Supporting Enterprises of Chimei-Innolux in Ningbo Beilun Export Processing Zone
- Shipment of Hannstar's Large and Medium-sized LCD Panels, 2007-2011
- Seagate's Revenue and Operating Margin, FY2006-2011
- Seagate's Revenue by Channel, Q1 FY2010-Q2 2012
- Seagate's Revenue by Region, Q1 FY2010-Q2 2012
- Seagate's Shipment by Application, Q1 FY2010-Q2 2012
- Revenue and Operating Margin of Western Digital, FY2003-2011
- Hard Disk Shipment and Global Market Share of Western Digital, Q1 FY2010-Q2 FY2012
- Revenue and Gross Margin of Western Digital, Q1 FY2010-Q2 FY2012
- Revenue and Operating Profit of Western Digital, Q1 FY2010-Q2 FY2012
- Revenue of Western Digital by Channel, Q1 FY2010-Q2 FY2012
- Revenue of Western Digital by Region, Q1 FY2010-Q2 FY2012
- Hard Disk Shipment of Western Digital by Application, Q1 FY2010-Q2 FY2012
- Headcount of Western Digital and Proportion of Its Top 10 Customers, Q1 FY2009-Q2 FY2011
- Revenue and Gross Margin of Auras Technology, 2001-2011
- Revenue and YoY Growth Rate of Auras Technology, Dec.2009-Dec. 2011
- Revenue and Gross Margin of Chaun Choung Technology, 2003-2011
- Revenue and YoY Growth Rate of Chaun Choung Technology, Dec. 2009-Dec. 2011
- Revenue and Gross Margin of Asia Vital Components, 2002-2011

- Revenue and YoY Growth Rate of Asia Vital Components, Dec. 2009-Dec. 2011
- Revenue of Asia Vital Components by Application, 2008-2012
- Revenue and Operating Margin of Foxconn Technology, 2004-2011
- Revenue and YoY Growth Rate of Foxconn Technology, Dec. 2009-Dec. 2011
- ODD Shipment, 2008-2013
- Market Share of Major ODD Manufacturers Worldwide, 2010-2011
- Revenue and Operating Margin of Liteon Technology, 2003-2011
- Revenue and YoY Growth Rate of Liteon Technology, Dec. 2009-Dec. 2011
- Revenue of Liteon Technology by Product, 2009-2011
- Revenue and Gross Margin of Quanta Storage, 2002-2011
- Revenue of Quanta Storage by Product, 2008-2011
- Revenue and YoY Growth Rate of Quanta Storage, Dec. 2009-Dec. 2011
- Market Share of Major Laptop PCB Manufacturers (by Shipment), 2011
- Revenue and Growth Rate of Gold Circuit Electronics, Jan. 2010-Jan. 2012
- Revenue of Gold Circuit Electronics by Product, 2010-2011
- Revenue and Growth Rate of Tripod Technology, Jan. 2010-Jan. 2012
- Capacity of Tripod Technology, 2006-2011
- Touch Screen Capacity, Output, Output Value and Sales Volume of TPK Holding, 2008-2010
- TPK's Revenue by Product, Q1 2010-Q3 2011
- TPK's Capacity, 2011
- HR Structure of TPK Holding, 2008-Mar. 2010



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