



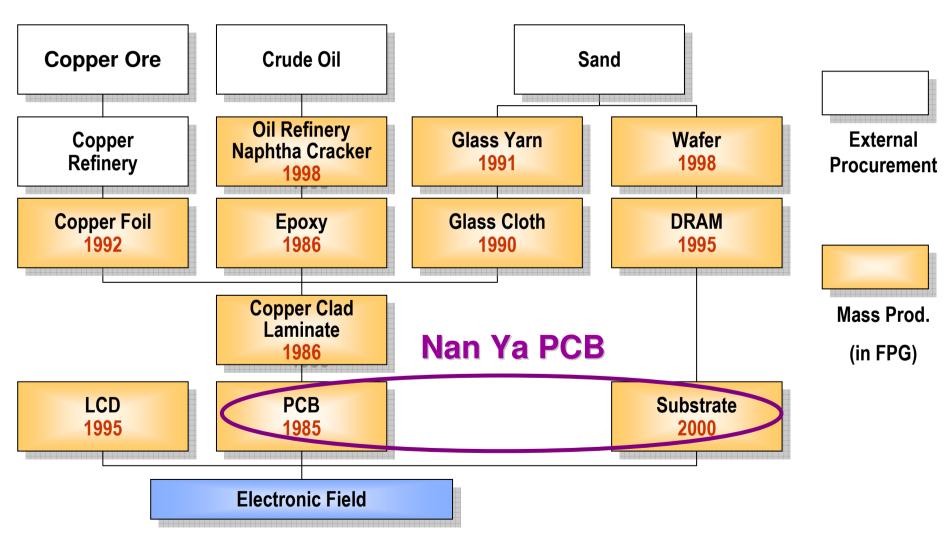
COMPANY BRIEFING

September 2011

Safe Harbor Notice

- ➤ Nan Ya PCB's statements of its current expectations are forward-looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.
- Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.

Vertical Integration within FPG



Milestone

Year 1985 Start up PCB mass production

Year 1997 Establish Na Ya PCB Corporation

Year 2000 Start up wire bond substrate mass production

Year 2001 Start up flip chip substrate mass production

Year 2002 Start up Kunshan PCB mass production

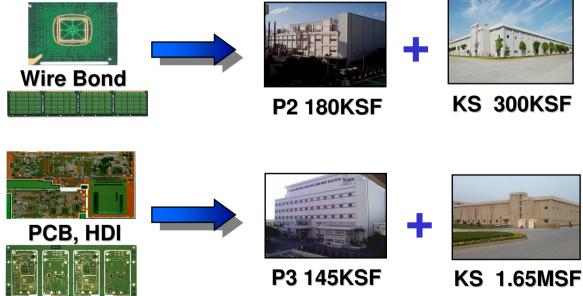
Year 2006 IPO (TWSE Ticker No.: 8046)

Year 2010 Start up flip chip substrate back-end process

production for CPU products

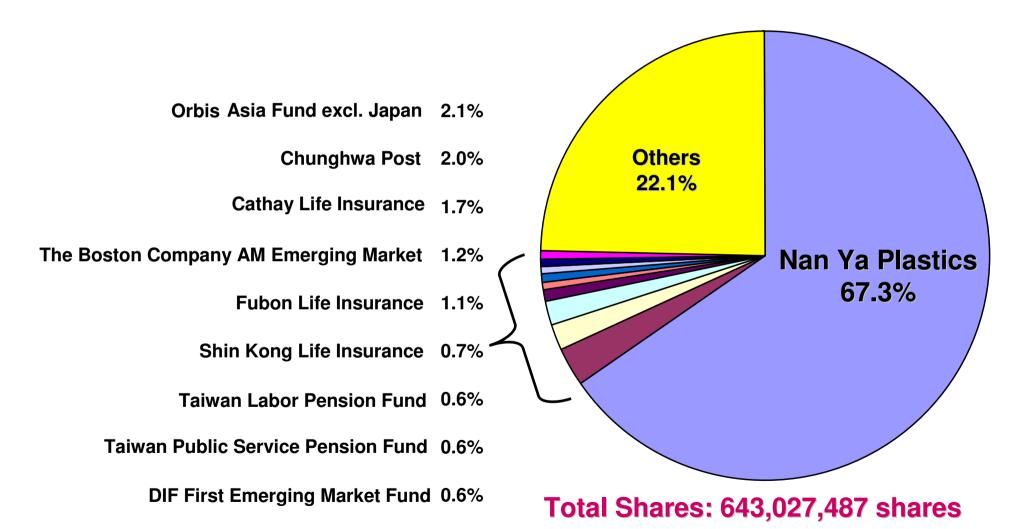
Production Allocation and Monthly Capacity





Note: KS=Kunshan China manufacturing campus

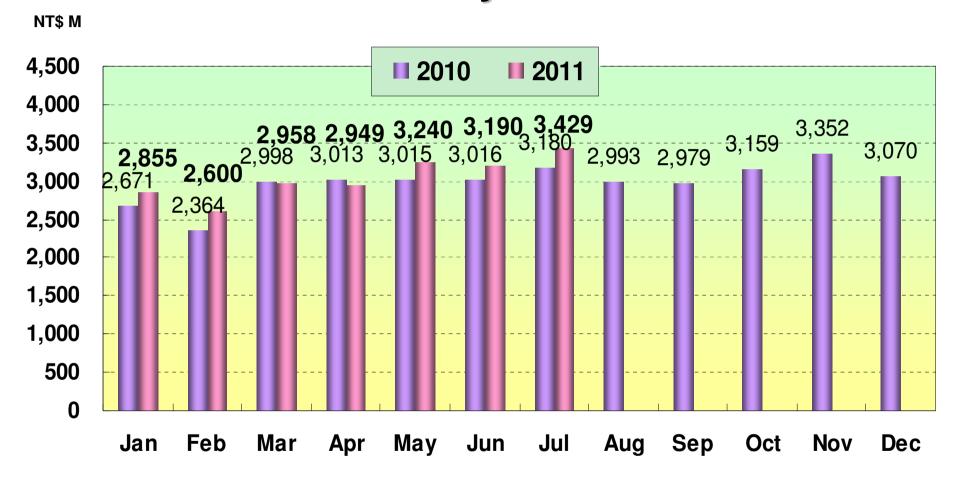
Structure of Shareholders



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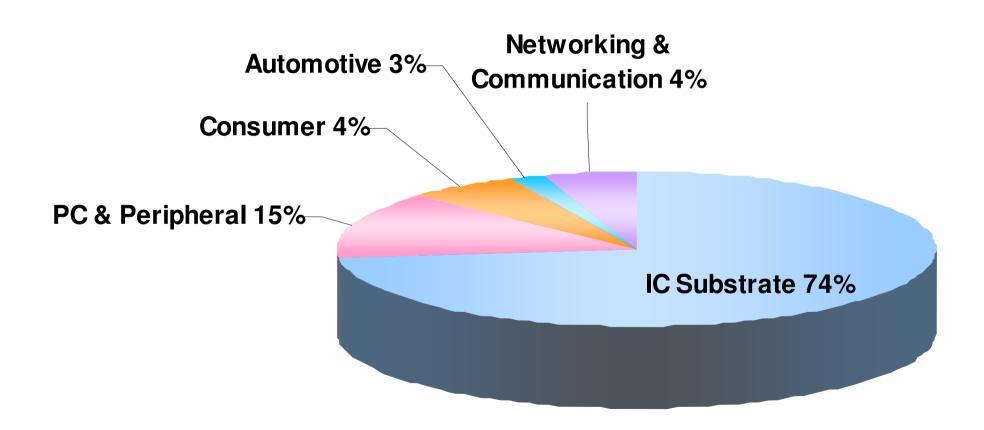
Date: August, 2011

2010~2011 Monthly Revenue in Taiwan

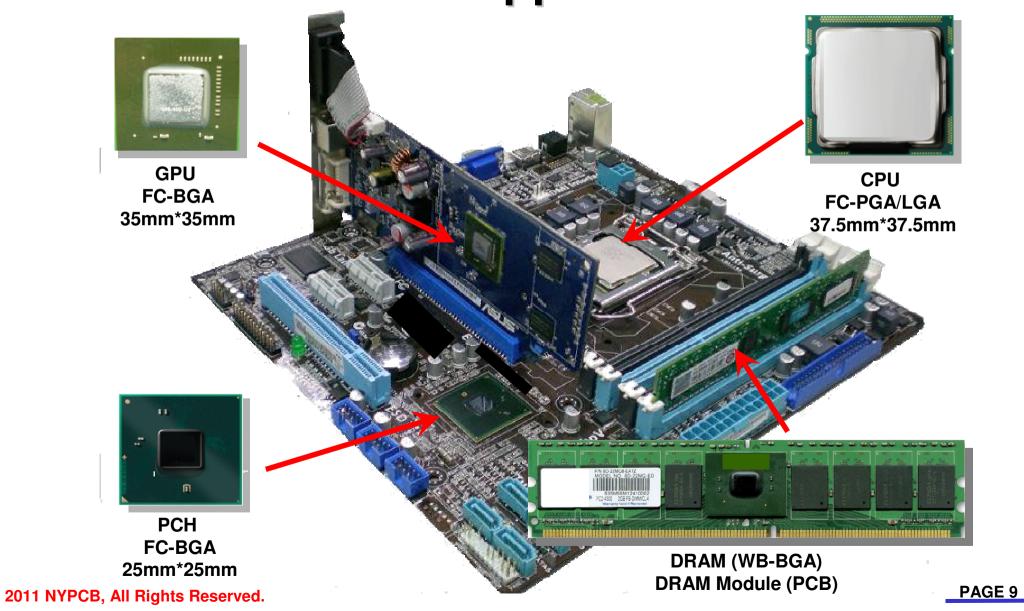


- **>2011 July Sales = NT\$ 3.4 Billion**; MoM=+7.5%; YoY=+7.8%
- ➤ Accumulated 2011 Sales = NT\$ 21.2 Billion; YoY=+4.8%

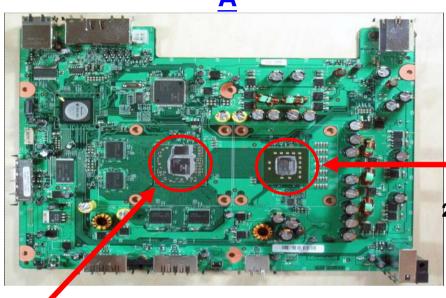
2011 Sales Breakdown by Application



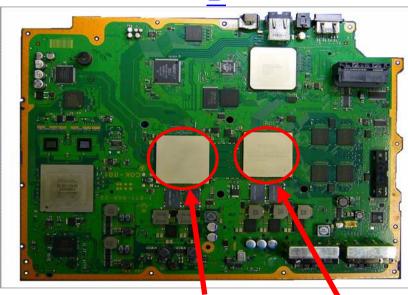
Products & Applications-PC



Products & Applications-Game Console

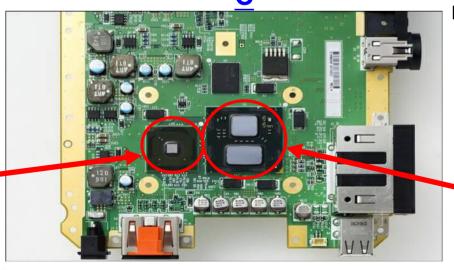


MPU FC-BGA 27mm*27mm 2/2/2



Integrated Chipset FC-BGA 35mm*35mm 3/2/3

> **MPU FC-BGA** 21mm*21mm 2/2/2



MPU **Integrated Chipset** FC-BGA FC-BGA 42.5mm*42.5mm 33mm*33mm 3/2/3 2/2/2

> **Integrated Chipset FC-BGA**

31mm*31mm 2/2/2

Products & Applications-Others





HDTV Chipset 35mm*35mm 2/2/2

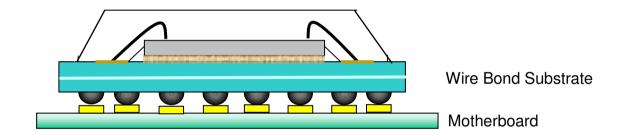
Set-Top Box and HDTV started to migrate to flip-chip design in 2007, and annual demand has been expected to increase dramatically in 2010.



IC Substrate Introduction

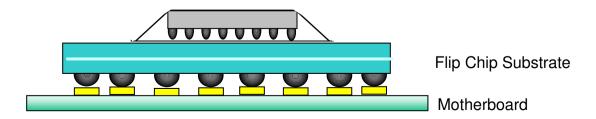
Wire Bonding Substrate Outline:

By using gold wires to connect electrical pads with the so-call wire bonding substrate which plays the function as the buffer between chips and motherboard.



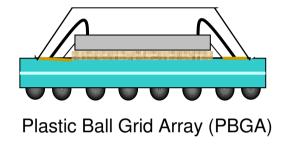
Flip Chip Substrate Outline:

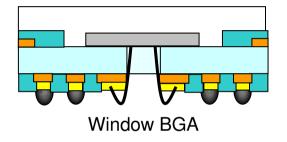
The die is directly attached to the substrate which plays as the connections between the chip and motherboard by using solder bumps rather than gold wires.



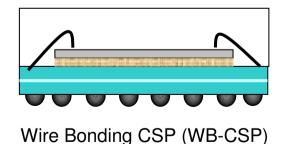
Types of Wire Bonding Substrates

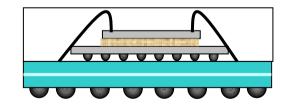
Ball Grid Array (BGA)





Chip Scale Package (CSP)

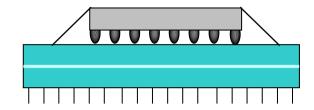




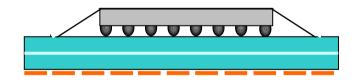
Flip Chip CSP (FC-CSP)

Types of Flip Chip Substrates

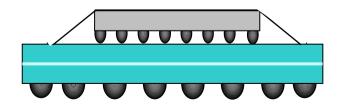
FC-Pin Grid Array (FC-PGA)



FC-Land Grid Array (FC-LGA)

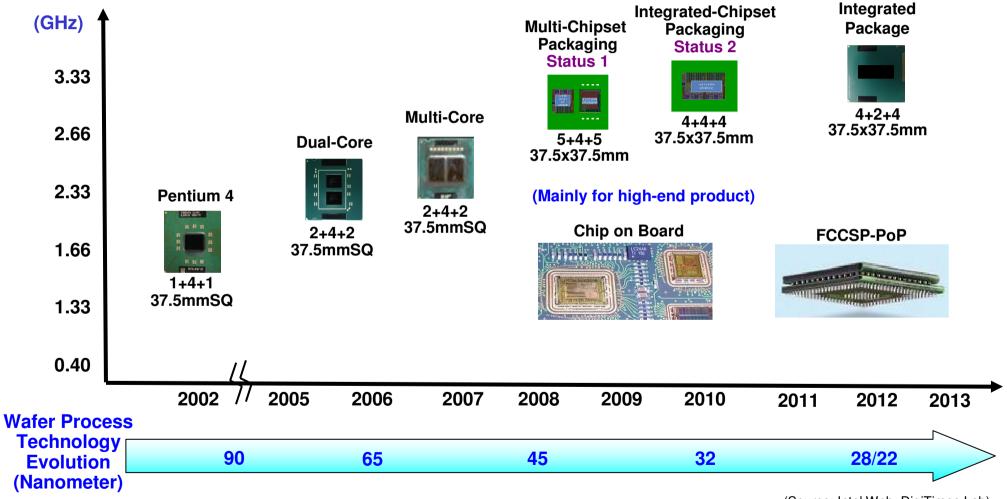


FC-Ball Grid Array (FC-BGA)



FC Substrate Development Trend

➤ CPU Development



(Source: Intel Web, DigiTimes Lab)