



WIN Semiconductors

Wireless • Information • Networking

2012 Third Quarter Investor Conference

October 30, 2012

WIN Property

www.winfoundry.com

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- This presentation contains certain forwardlooking statements that are based on current expectations and are subject to known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements.
- Except as required by law, we undertake no obligation to update any forward – looking statements, whether as a result of new information, future events or otherwise.

Outline

- ✓ Financial Performance
- Company Overview
- ✓ Market and Industry Dynamics
- Competition from Silicon
- ✓ Summary
- ✓ Q&A



Financial Performance



Revenue Trend - Quarterly





Consolidated Income Statement - Quarterly



(NTD M\$)	3Q'11	2Q'12	3Q'12	QoQ	YoY
Net revenue	2,384	3,148	2,758	-12%	+16%
Gross profit	807	1,014	998	-2%	+24%
Gross margin (%)	34%	32%	36%		
Operating expenses	(225)	(174)	(270)	+55%	+20%
Operating expenses rate (%)	-9%	-6%	-10%		
Operating income	582	840	728	-13%	+25%
Operating margin (%)	24%	27%	26%		
Non-operating incomes (expenses), net	(355)	(320)	(71)		
Income before income tax	227	520	657	+26%	+189%
Income tax (benefit) expense	-	(94)	(106)	+12%	n.a.
Net income	227	426	552	+30%	+143%
Net margin (%)	10%	14%	20%		
EPS (NT\$)	0.36	0.66	0.85	+29%	+136%
Annualized ROE(%)	10%	16%	21%		
Approx. Utilization (%)	87%	91%	80%		
Depreciation	246	311	318		
CAPEX	520	1,080	1,426		

Consolidated Income Statement

- Year-to-date



(NTD M\$)	1Q-3Q'11	1Q-3Q'12	YoY
Net revenue	6,386	8,423	+32%
Gross profit	2,023	2,657	+31%
Gross margin (%)	32%	32%	
Operating expenses	(661)	(892)	+35%
Operating expenses rate (%)	-11%	-11%	
Operating income	1,362	1,765	+30%
Operating margin (%)	21%	21%	
Non-operating incomes (expenses), net	(702)	(121)	-83%
Income before income tax	661	1,644	+149%
Income tax (benefit) expense	(1)	(211)	
Net income	660	1,433	+117%
Net margin (%)	10%	17%	
EPS (NT\$)	1.06	2.21	+108%
Annualized ROE(%)	10%	18%	
Approx. Utilization (%)	90%	80%	
Depreciation	722	936	
CAPEX	3,077	2,768	





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Total	(29)	(0.6)
Impairment loss	-	(101)
Gain on disposal of investments, net	4	159
Loss on valuation of financial assets, net	(42)	(19)
Investment loss recognized under equity method	(19)	(68)
Dividend income	28	29
(NTD M\$)	3Q'12	1Q-3Q'12

Consolidated Balance Sheet



(NITD M(t) Major Homo	2011/9	/30	2012/9/30		
(INTD IVIS) IVIAJOT ILETTIS	\$	%	\$	%	
Cash and cash equivalents	740	4%	986	5%	
Financial assets at fair value through porfit or loss	829	5%	944	4%	
Notes and accounts receivable, net	801	5%	859	4%	
Inventories	1,877	10%	2,622	12%	
Funds and investments	1,611	9%	1,448	7%	
Net property, plant and equipment	11,170	62%	13,098	62%	
Total Assets	18,191	100%	21,095	100%	
Current liabilities	3,341	18%	4,343	21%	
Long-term borrowings	5,687	32%	5,707	27%	
Total Liabilities	9,031	50%	10,056	48%	
Total Stockholders' Equity	8,946	50%	11,039	52%	
Book value per share (NT\$)	14.35		17.02		
Key Indices					
Current ratio	149%		145%		
Debt ratio	50%		48%		

Note: Current ratio = Current assets / Current liabilities Debt ratio = Total liabilities / Total assets



- New Shares Issued: 100,000,000 shares
- Capital Stock: From 648,703,928 to 748,703,928 shares
- Use of Proceeds: (1) Capacity Expansion

(2) Procurement of Raw Material

- EPS Dilution: 3.1% for Y2012 and 13.4% for Y2013
- Financial Impact:

✓ Working Capital	\uparrow
✓ Debt Ratio	\downarrow
✓ Current Ratio	1
✓ ROE	\uparrow



Company Overview

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Corporate Profile



- Founded in Oct. 1999, Taipei, Taiwan
- Listed in GTSM on Dec. 13, 2011 (Code: 3105)
- 1,471 employees as of Sep. 30, 2012
- Two installed 6-inch GaAs (Gallium Arsenide) fabs with monthly capacity of 22,500 wafers expected in 2012
- The largest pure-play GaAs wafer foundry service provider in the world (54% market share in GaAs foundry as of Dec 2011)
- Manufacturing semiconductor chips for wireless communication — delivered 2.2bn RF chips for wireless communications in 2011

Volume Production Sites



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Compound Semiconductor Applications





Business Growth





- WIN 2005-2011 CAGR is 44%
- GaAs industry average CAGR is <u>13%</u> in the same period of time

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The 4th Generation Wireless Communication





Industry Leading GaAs Foundry with Strong Growth Momentum







Fastest growing GaAs and foundry player



Fastest growing semiconductor foundry with consistent share gains

Shipped approximately 2.2bn chips, accounting for 20% of worldwide demand

Pure-play conflict-free model attracts both IDMs and fabless customers

Note 1: Industry growth represents GaAs foundry industry growth

Source: Strategy Analytics, Company filings, management estimates

Industry Leading GaAs Foundry with Strong Growth Momentum



1 Largest manufacturing capacity among GaAs foundries in the world



Unparalleled manufacturing capacity a key competitive advantage to attract orders

Continued trend of IDMs going fabless and fablite

Exposure to Attractive End Markets with Strong Long-term Growth Outlook





Strong growth continues in the smartphone market

Worldwide smartphone shipment (m units)





Double-digit growth driven by WiFi in mobility devices and consumer electronics

Wireless LAN shipments (m units)



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Broad Portfolio of Advanced Technologies



The most comprehensive technology portfolio in the industry enables customers to develop optimized products for a wide range of applications



Dominant market share for high-performance HBT used in LTE PAs
First and only foundry worldwide to commercially develop 0.1µm pHEMT on 6" GaAs wafer
Industry leading 0.15–0.25µm pHEMT technology
Leading BiHEMT technology for advanced integrated PA/switch chips
Supports broad range of products such as PAs (from 50MHz–100GHz), switches, and fiber optic IC
Developing GaN for high power devices (4G base station)

...and Superior Manufacturing Capabilities





- Largest GaAs capacity in the industry
- Longest history of production on 6" wafer in industry
 - over 10 years experience in GaAs
- Short cycle times to help customers shorten products' time to market
 - Excellent of track record of on-time delivery
 - One of the highest production yields in industry

Manufacturing capacity, process reliability, product quality and operation efficiency enables WIN to manage ASP erosion



Market and Industry Dynamics



Total Smartphone and 4G LTE Smartphone Penetration Forecast



Figure 9: LTE market as % of total smartphone in unit Unit in shipment millions, %



LTE Smartphone Demand Forecast



Figure 5: LTE smartphone demand forecast (2011-2015E)

Unit in millions



iPhone 5 Block Diagram Estimate



Figure 3: iPhone 5 Block Diagram Estimate





- Increasing frequency bands per phone – means more PA's and switches.
- More types of radio per phone – cellular, Wi-Fi, GPS, BT, mobile TV, ... etc.

Increased GaAs contents.



3G/4G Band Plan

3GPP Band	Nicknames	Frequenc TX	ies(MHz) RX	EU	NA	APAC	CHINA	INDIA	JAPAN	NOTES
BAND-1	2.1GHZ	1920-1980	2110-2170	•		•	•	•	•	UMTS main band for APAC, EU)
BAND-2	PCS	1850-1910	1930-1990		٠					UMTS main band for NA
BAND-3	DCS (UMTS 1800)	1710-1785	1805-1880	•		٠				Mainly for FDD LTE
BAND-4	AWS	1710-1755	2110-2155		٠					For UMTS of US T-Moble
BAND-5	US Cellular	824-849	869-894		•	•				UMTS for NA(AT & T etc)
BAND-7	2.6GHz	2500-2570	2620-2690			•				LTE main band for EU
BAND-8	EGSM (UMTS900)	880-915	925-960	٠		•			•	UMTS 900 for EU, APAC
BAND-13	Upper 700MHz C Block	777-787	746-756		٠					US LTE: Verizon
BAND-17		704-716	734-7 4 6		•					US LTE: AT & T
BAND-20	Digital dvidend: Europe	832-862	791-821	•						Digital dvidend: Europe
For 4G	Digital dvidend: APAC	756-806	698-748			•			•	Digital dvidend: APAC 718-748/773-803MHz in JAPAN
BAND-22	LTE-Advanced	3510-3590	3410-3490		٠	•	۲	•	٠	
TDD Band-34	TD-SCDMA	2010	2025							China Mobile
TDD Band-38	TD-LTE	2570	2620				٠			China Mobile
TDD Band-39	TD-SCDMA	1880	1920				•			China Mobile
TDD Band-40	TD-LTE	2300	2400	•		•	٠	•		China Mobile/India/Russia/Malaysia
TDD Band-41	TOLTE	2496	2690		•				٠	Clearwire Including Softbank XGP(2550.1 - 2569.9MHz)

Estimate by Navian

Growth Drivers — WiFi and Changing Standards



Wireless LAN shipments



- Double-digit growth for WiFi in handsets will continue through 2015
- In 2013 and 14, WiFi in consumer electronics devices will accelerate and drive the next phase of growth



 Next generation of WiFi standards, 802.11ac is a whole-house technology that supports a max throughput of 1 Gbps; while 802.11ad is an in-room technology that supports up to 7 Gbps

Non-Handset Mobile Devices



>300M devices/year



Photoframes



Personal Navigation



Notebooks



Netbooks



Ultra Mobile PCs



Tablets (small touchsreen devices)







STRATEGYANALYTICS GaAs & COMPOUND SEMICONDUCTORS



G

Appliances



Cameras & Camcorders

Portable Gaming Consoles

Devices

As subscriber penetration slows down in mature markets, operators are looking at other devices to which they can add mobile broadband.

The largest segment over the next 5 years will be notebook PCs

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Competition from Silicon









STRATEGYANALYTICS



GaAs versus Si in the Handset PA





- The electrons move 5 times faster in GaAs than in silicon.
- This translates to faster speed for GaAs-based transistors and circuits when compared to a silicon counterpart.

Why GaAs is Better than Si for PA?





GaAs is the Technology of Choice for Modern Smartphone PA



- GaAs has better power efficiency, higher linearity, and lower noise for GHz wireless applications.
 - Faster data rate
 - More reliable (due to higher breakdown voltage than Si PA)
 - Longer talk time
- GaAs PA solution has better C/P value than Si solution.
- GaAs has significantly lower product development cost and shorter product development cycle time.
- GaAs has shorter production cycle time (typically 4-6 weeks vs. Si CMOS 8-12 weeks).

The WIN Strategy







- In 3Q 2012, WIN has reached the 2nd highest record quarterly revenue with significantly better gross margin, net income and ROE for both QoQ and YoY.
- We continue to see the GaAs industry and market are growing rapidly and the value chain is moving toward a very healthy direction.
- Mobile devices (smartphones, tablets, ... etc.) are major drivers for the growth of GaAs and GaAs content in each mobile device is growing >20% CAGR.
- WIN has a solid track record to exceed the average GaAs industry growth rate.
- The silicon threat to GaAs is very limited in low end phone.



Q & A





For more information regarding WIN www.winfoudry.com

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