



WIN Semiconductors

Wireless • Information • Networking

Company Presentation

November 2015

Safe Harbor Notice



- This presentation contains certain forward-looking statements that are based on current business 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

- ✓ Market Outlook
- ✓ Technology
- **✓ The WIN Strategy**
- ✓ Financial Review & Guidance
- ✓ Q&A



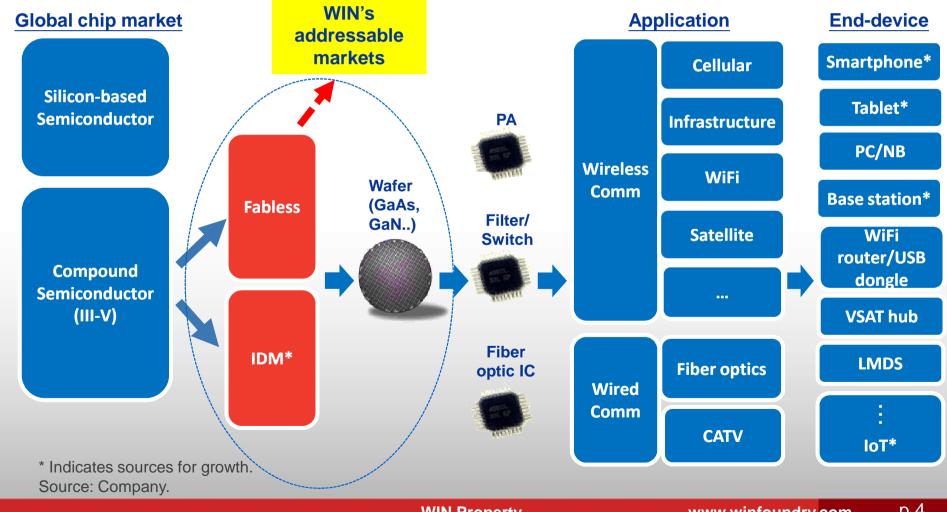


Market Outlook

WIN's Market Positioning



WIN positions itself as a dedicated compound semiconductor wafer foundry offering foundry works to fabless and IDM customers who target in communication applications.



Summary of Growth Momentum (2015)









4G Smartphones

IoT Gateway

5G Network



Mid-Term:

- Wi-Fi 11ac MIMO for mid/low-end smartphones and routers
- Wi-Fi & 3G/4G for IoT
- Strong infrastructure growth



IoT deployment

Long Term:

Pre-5G launch (e.g. through broadband

satellite, dense cells, ...)

5G launch with massive

Short Term:

- 3G is the basic
- 4G (TD) LTE rapidly adopted
- 802.11ac dual bands

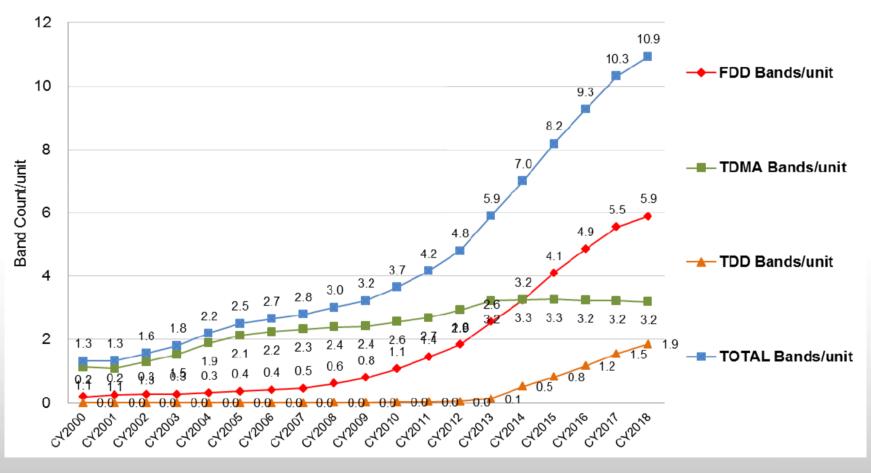
Near Term Momentum (2015)



- More LTE and/or TD-LTE bands will continue to be adopted.
- Demand on flagship smartphones continues to be strong.
- Mode and frequency multiplicity is the direction of new smartphone development in China.
 - China Mobile demanding "five modes and 10 frequencies" is an example.
- Launch of new flagship smartphones.

4G/LTE Lifting Band Count per Device win

• Frequency bands per mobile handset device are rising rapidly due to 4G/LTE.

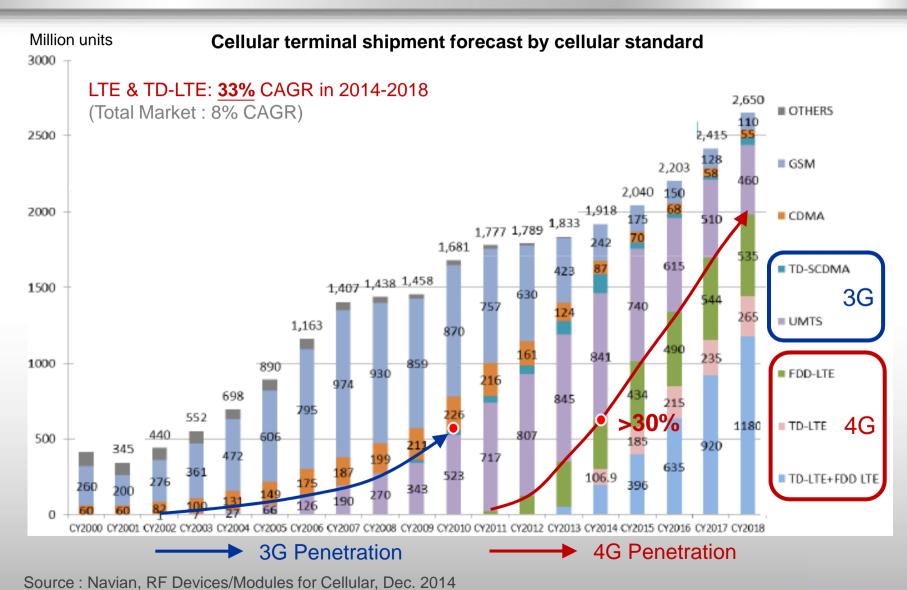


Note: TDD and FDD are two competing LTE data transmission standards

Source: Navian, RF Devices/Modules for Cellular, Dec. 2014

LTE Penetration on Track to Rise

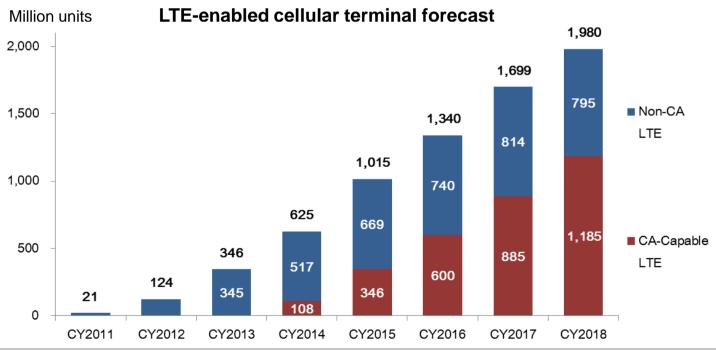




CA Supporting Demand for GaAs



- Carrier aggregation (CA) driven by LTE-A should support the demand for GaAs PAs rather than any silicon-based solutions, since GaAs PAs have unparalleled advantages on linearity and efficiency.
- Devices that support CA are expected to grow to 1,185M units in 2018 from 108M in 2014, representing the key driver to the overall LTE device growth.



Source: Navian, RF Devices/Modules for Cellular, Dec. 2014

Near/Mid-Term Momentum (2015~2018)

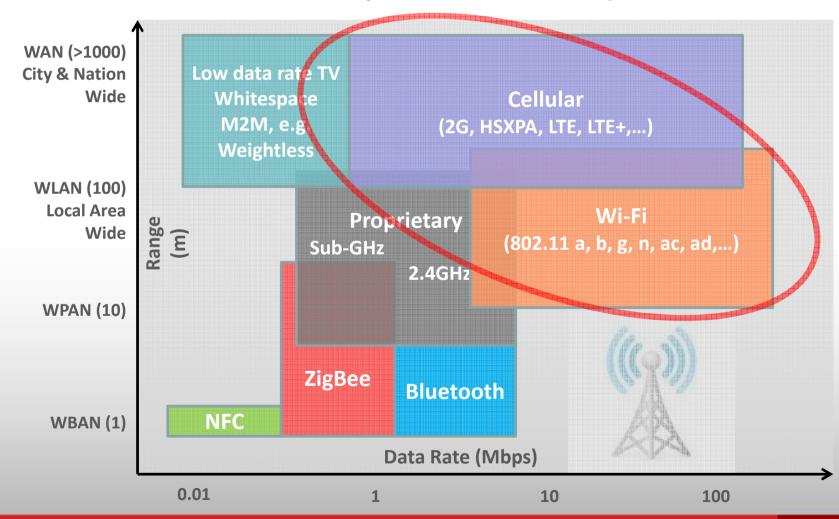


- Wi-Fi PA and FEM will generate a significantly higher growth rate than cellular PA.
- More and more smartphones will adopt external FEM/PA for 5GHz 802.11ac solution.
- 802.11ac routers quickly move toward MIMO.
- IoT wireless connectivity adopts Wi-Fi and 3G/4G as the gateway router.
- Strong growth in broadband wireless infrastructure demand driven by demand on global mobile data traffic largely increased.

GaAs Opportunities in IoT Wireless Connectivity



Today's Wireless Landscape

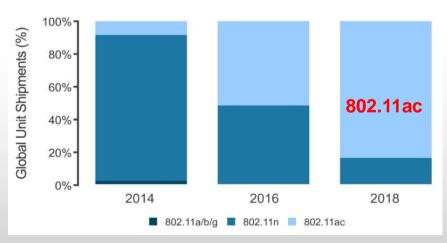


802.11ac Router Growth Trend (2014-18)



- Higher performance requirement in 802.11ac is a great opportunity for GaAs devices.
- Dual band (2GHz&5GHz) and MIMO requirements represent volume opportunity for GaAs components.
- Same trend is happening in high-end smartphones.
- Low/mid-end smartphones will be the next to adopt 11ac dual bands and MIMO.

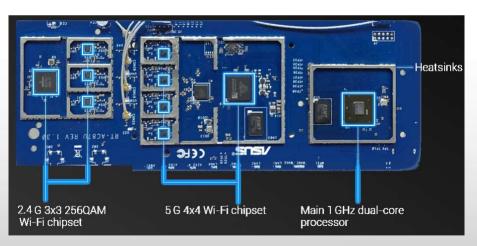
802.11ac access points expected to dominate the global WLAN market by 2018



Source: Infonetics Research, Wireless LAN Equipment and WiFi Phones, Quarterly Market Share, Size, and

Forecasts, May 2014

802.11ac Dual-Band Wi-Fi Router with MIMO

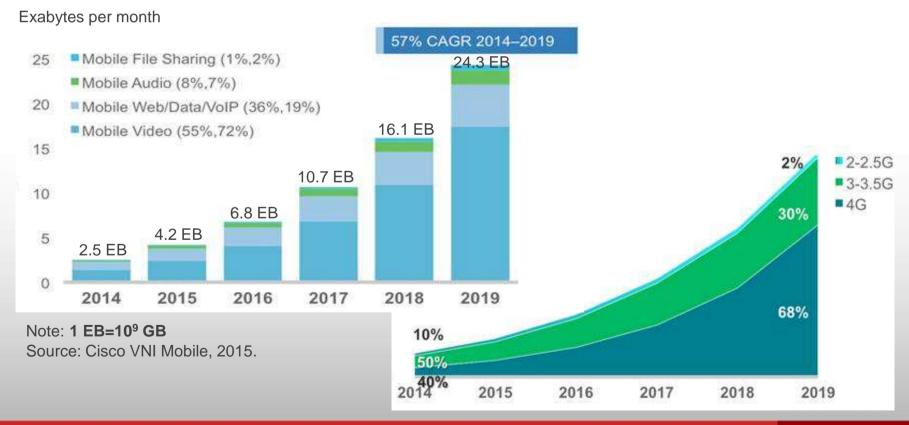


Source: ASUS's Company Website

Rising Demand for Mobile Data



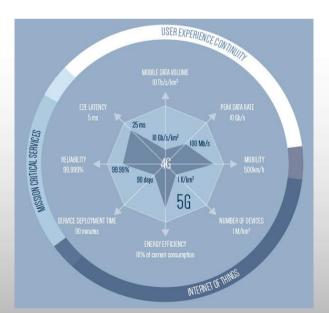
- Thanks to the constant bandwidth upgrades driven by mobile devices and 4G/LTE, demand for mobile data is rising rapidly where mobile video consumes the most bandwidth and grows the fastest for mobile data (the <u>Big Data trend</u>).
- Cisco forecasts 24.3 Exabytes per month of mobile data traffic by 2019.

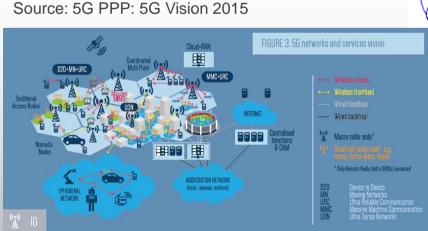


Long Term Momentum (2018~)



- Pre-5G launch: Broadband internet service through satellite communication (>10GHz) as an example.
- 5G launch using significant higher frequency bands.
- 6GHz ~ 80GHz, small cells, massive MIMO, phase array, ... etc.





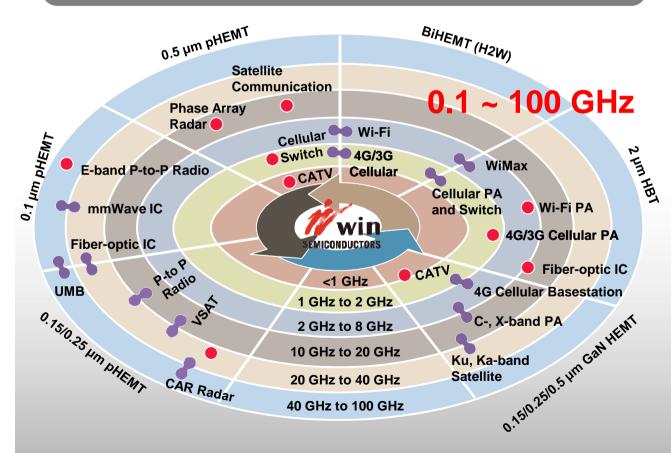
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Technology

Broad Portfolio of Advanced Technologies win

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

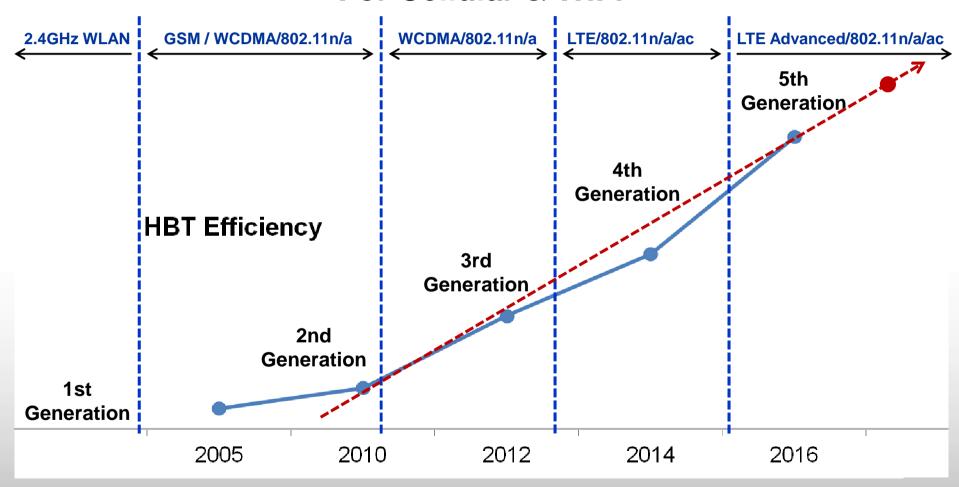


- ✓ Dominant market share for high-performance HBT used in LTE PAs
- ✓ Leading BiHEMT technology for advanced integrated FEM
- First and only foundry worldwide to commercially develop 0.1µm pHEMT on 6" GaAs wafer
- ✓ Industry leading 0.15–0.25µm pHEMT technology
- ✓ Supports broad range of products such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

WIN's HBT PA Generation



For Cellular & WiFi



WIN's HBT efficiency shows significant improved every generation.

WIN's Technology Advantage



Unlike Si semiconductor technology in the digital world focuses on gate/line dimension shrinkage, the RF technology roadmap focuses on the following perspectives:

Better Performance

GaAs vs CMOS

✓ Higher power efficiency → Longer battery power



✓ Better linearity → Faster speed



✓ Lower noise → Better quality of signal

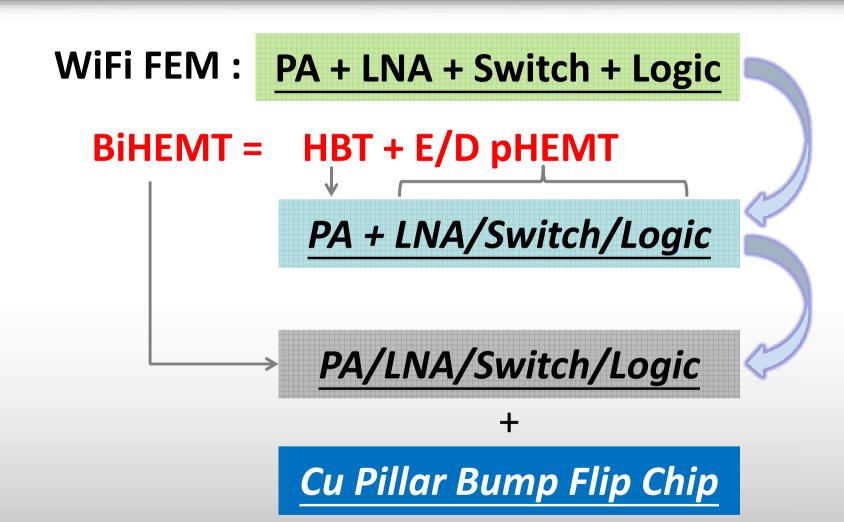


Higher Functionality Integration

WIN provides all of the GaAs solution for the above!

Integrated FEM Solution



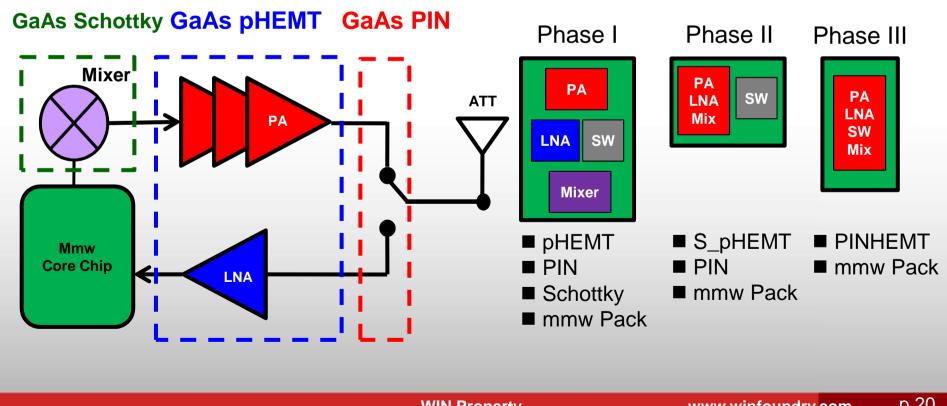


Integrated GaAs in mmw



For High Frequency Products

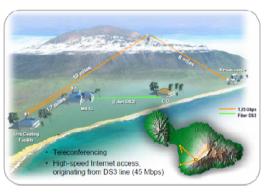
GaAs Key Components vs. Solution of Integrated GaAs Chips.



WIN 0.25/0.15/0.10μm pHEMT Inside!







Ultra high frequency semiconductor technology provider!



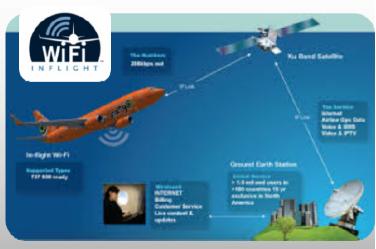


Satellite Communications, Fiber optic Communication, Wireless infrastructure ...









The WIN Strategy



Invest in capacity to capture demand growth and improve margins through product remix

Scale & Technology
Leadership

Cost & Customer
Diversification

Invest in technologies to maintain competitive edge and sustain leadership

Leverage on technology and manufacture expertise to lift efficiency and drive cost down Grow and acquire new customers in existing and new markets to diversify customer base

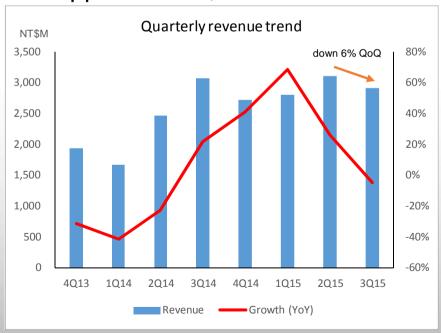


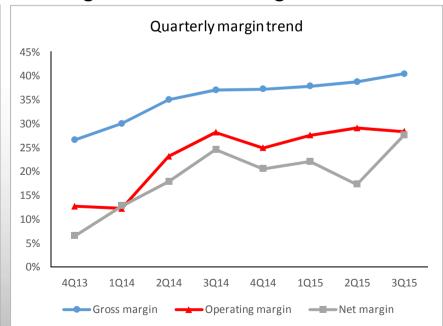
Financial Review & Guidance

Revenue & Margin Trend



- 3Q15 revenues declined 6% QoQ, better than guidance of high single digit decline, driven by favorable forex rate. The revenue decline was due to supply chain inventory adjustments and customers' product transitions.
- 3Q15 GM improved 1.6pp sequentially to a record high of 40.4%, reflecting better product mix and high utilization at 85%. OPM decreased 0.7pp to 28.4%, but was still the second highest since listing.



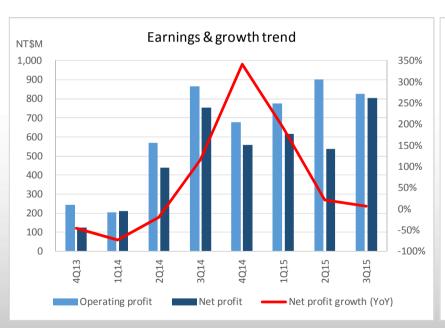


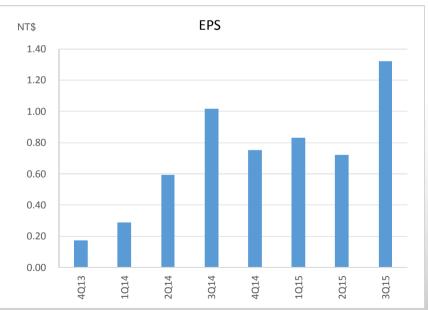
Source: company.

Earnings Trend



- 3Q15 net profit increased 50% QoQ to NT\$805mn and increased 7% YoY. The sequential improvement was mainly driven by forex gain and tax rate returning to normal.
- 3Q15 EPS came in at NT\$1.32, compared to NT\$0.72 in 2Q15.



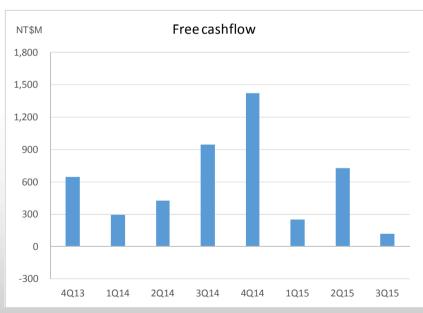


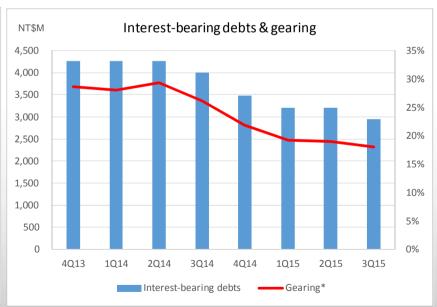
Source: company.

FCF & Gearing Trend



- Free cash flow (FCF) continued to be positive for the past 8 quarters as a result of our rigid control on capex and improvements in efficiency.
- Interest-bearing debts fell to below NT\$3bn and gearings declined to a historical low since listing, reinforcing our solid balance sheet position.

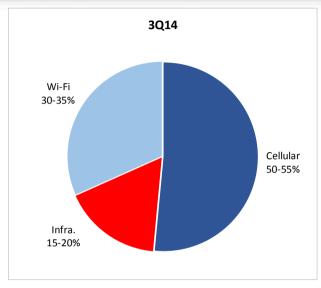


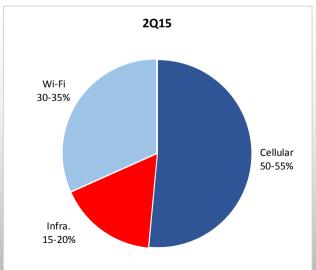


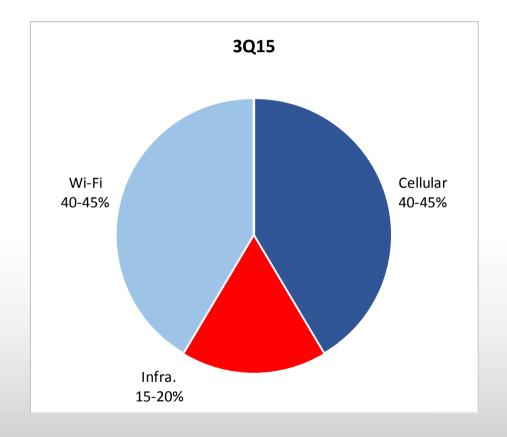
^{*} Gearing = interest-bearing debts / equity Source: company.

Product Mix









Source: company.

4Q15 Guidance



- We expect 4Q15 revenues to increase by high single digit QoQ.
- We expect 4Q15 gross margin to be maintained at the 3Q15 level.

WIN Property

Q & A

For more information regarding WIN www.winfoudry.com

For all inquiries, suggestions, and comments ir@winfoundry.com





Appendix – 3Q'15 Financial Results

Consolidated Statements of Comprehensive Income - Quarterly



Unit: NTD Million	3Q'14	2Q'15	3Q'15 (unaudited)	QoQ	YoY	
Net revenue	3,069	3,099	2,913	-6%	-5%	
Gross profit	1,137	1,201	1,178	-2%	+4%	
Gross margin (%)	37.0%	38.8%	40.4%			
Operating expenses	(271)	(300)	(350)	+17%	+29%	
Operating expenses rate (%)	-9%	-10%	-12%			
Operating income	865	902	827	-8%	-4%	
Operating margin (%)	28.2%	29.1%	28.4%			
Non-operating incomes and expenses	24	(59)	137			
Income before income tax	889	843	964	+14%	+8%	
Income tax expense	(136)	(306)	(159)			
Net income	753	537	805	+50%	+7%	
Net margin (%)	24.5%	17.3%	27.6%			
EPS (NT\$)	1.02	0.72	1.32	+83%	+29%	
Other comprehensive income, net	(74)	(112)	34			
Comprehensive income	680	425	839	+98%	+24%	
Annualized ROE(%)	20%	13%	19%			
Approx. Utilization (%)	90%	90%	85%			
Depreciation	465	470	475			
CAPEX	92	380	907			
			\			

Consolidated Statements of Comprehensive Income - YTD



	<u> </u>				
Unit: NTD Million	1-3Q'14	1-3Q'15 (unaudited)	YoY		
Net revenue	7,197	8,819	+23%		
Gross profit	2,499	3,442	+38%		
Gross margin (%)	34.7%	39.0%			
Operating expenses	(861)	(939)	+9%		
Operating expenses rate (%)	-12%	-11%			
Operating income	1,638	2,503	+53%		
Operating margin (%)	22.8%	28.4%			
Non-operating incomes and expenses	76	46			
Income before income tax	1,714	2,549	+49%		
Income tax expense	(308)	(589)			
Net income	1,406	1,960	+39%		
Net margin (%)	19.5%	22.2%			
EPS (NT\$)	1.90	2.81	+48%		
Other comprehensive income, net	43	1			
Comprehensive income	1,449	1,961	+35%		
Annualized ROE(%)	12%	16%			
Approx. Utilization (%)	70%	85%			
Depreciation	1,386	1,412			
CAPEX	455	1,787			

Non-operating Items



Total	24	137	76	46
Others	38	36	11	30
Share of loss of associates and joint ventures accounted for using equity	(14)	(11)	(16)	(44)
Gains on financial assets (liabilities) at fair value through profit or loss, net	(30)	(3)	103	(5)
Gains (losses) on disposals of investments	9	2	(44)	3
Gains (losses) on disposals of property, plant and equipment	-	1	(0)	1
Foreign exchange gains (losses)	21	112	22	60
Unit: NTD Million	3Q'14	3Q'15 (unaudited)	1-3Q'14	1-3Q'15 (unaudited)
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Consolidated Balance Sheets



(Unit: NTD Million) Major Item	2014/9/30		2015/6/30		2015/9/30 (unaudited)	
	\$	%	\$	%	\$	%
Cash and cash equivalents	1,965	9%	3,157	13%	1,675	8%
Current financial assets at fair value through profit or loss	1,168	5%	1,328	6%	1,050	5%
Current available-for-sale financial assets	704	3%	592	3%	607	3%
Notes and accounts receivable, net	1,017	5%	994	4%	946	4%
Inventories	1,642	8%	2,085	9%	2,166	10%
Long-term investments	1,198	6%	1,913	8%	1,900	9%
Net property, plant and equipment	13,181	61%	12,932	55%	13,462	60%
Total Assets	21,650	100%	23,424	100%	22,269	100%
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Current liabilities	3,225		3,699		3,562	
Long-term borrowings	2,938		2,568		2,197	
Total Liabilities	6,353	29%	6,461	28%	5,951	27%
Common stock	7,421		7,441		5,955	
Total Equity	15,297	71%	16,964	72%	16,318	73%
Book value per share (NT\$)	20.61		22.80		27.40	
Key Indices						
Current ratio (Current assets / Current liabilities)	220%		227%		189%	
Debt ratio (Total liabilities / Total assets)	29%		28%		27%	