



Compound Semiconductor Solutions From RF to Light-Wave

Company Presentation





Safe Harbor Notice



- This presentation contains certain forward-looking 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

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



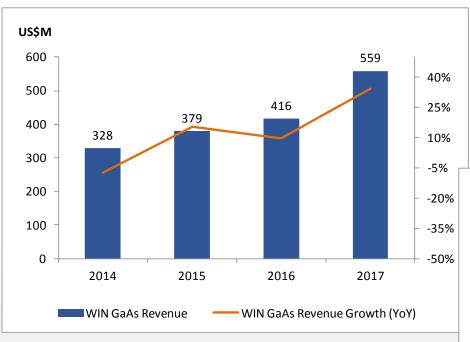


Market Outlook

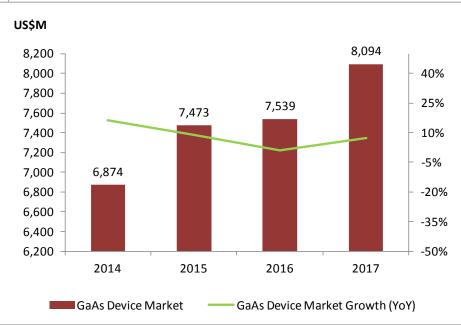
GaAs Growth Trend (WIN vs. Industry)



WIN GaAs Revenue Growth Trend



GaAs Device Market Growth Trend



Business Growth Drivers



5G Wireless

- Sub-6GHz
- mmWave

Optical Devices

- 3D Sensing
- Optical Communication







WIN Property





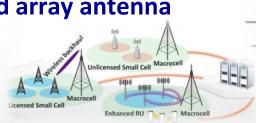


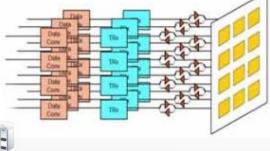
5G Wireless



Largely increased RF contents

- Sub-6 GHz
 - More frequency bands at higher frequencies
 - MIMO to enhance data transmit rate
- mmWave (>28GHz)
 - Beamforming using phased array antenna
 - Small cell base stations





WIN Semiconductors' technology portfolio provides high performance integrated solutions across all 5G frequency bands

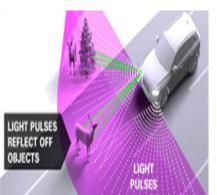
- Sub 6GHz: GaAs HBT and BiHFMT
- mm-wave: Integrated GaAs pHEMT PA/LNA/Switch

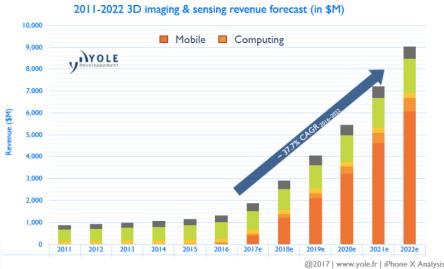
Optical Devices



- > 3D Sensing market explosion
 - Face and gesture recognition, AR/VR, LiDAR

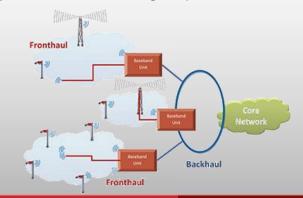






Source: Webcast 3D Imaging Sensing, Yole Development, System Plus Consulting, Sept. 2017

- Optical Communication
 - Fiber to The Home (FTTH)
 - Data Center
 - 4G/5G Mobile fronthaul and backhaul access

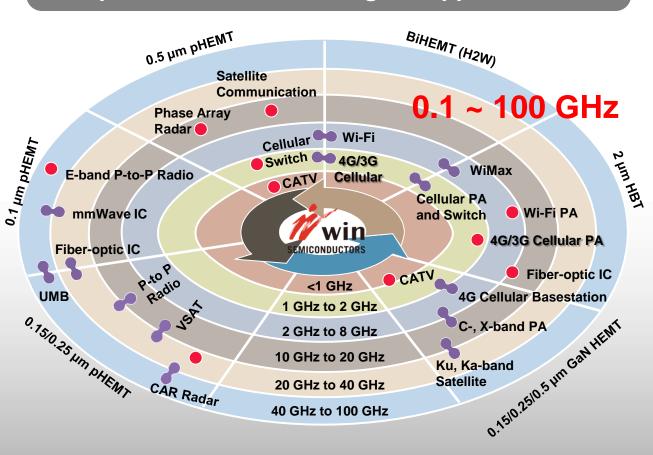




Technologies

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 (4/5G base station)

WIN 0.25/0.15/0.10μm pHEMT Inside!



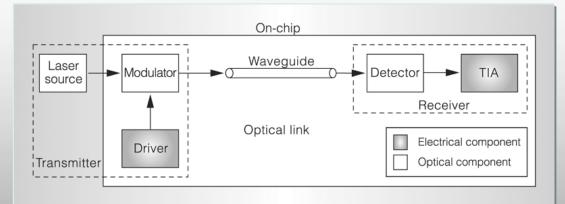






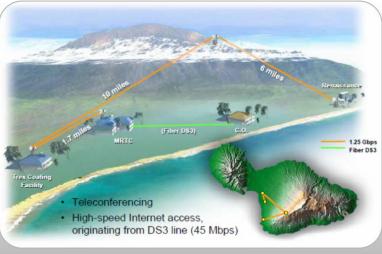






Ultra high frequency semiconductor technology provider!

- Wireless infrastructure
- Satellite Communications
- Fiber optic Communication
- ADAS

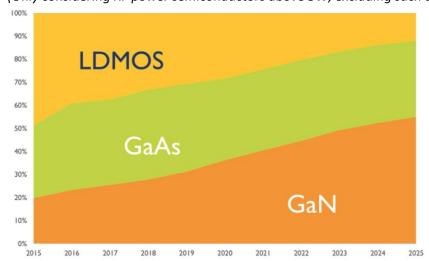


GaN's Opportunities in 5G Infrastructure



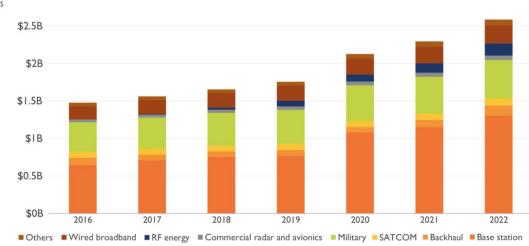
RF power device market, in value – Breakdown by technology

(Only considering RF power semiconductors above 3W, excluding such applications as mobile PAs)



"Growth is being driven by increasing demand for telecom base-station upgrades and small-cell implementations."

RF power market from 2016 to 2022



Source: Yole Dévelopement's "RF Power Market and Technologies 2017: GaN, GaAs and LDMOS Report"

\$3B

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



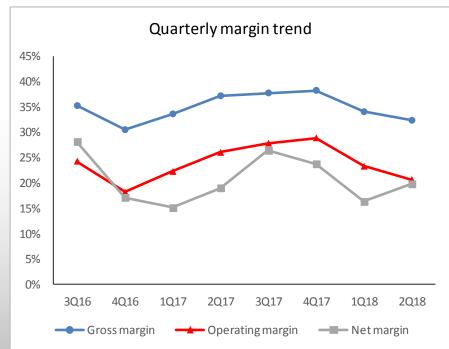
Financial Review & Guidance

Revenue & Margin Trend



- 2Q18 revenue finished at NT\$4,567m, up 2% QoQ and 20% YoY.
- Due to the impact of product mix, 2Q18 GM and OPM were 32.4% and 20.7%, respectively, down 1.7 and 2.6 pp sequentially.





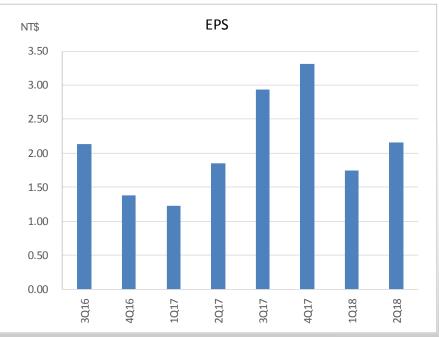
Source: company.

Earnings Trend



 2Q18 net income was NT\$905m, up 24% QoQ, driven by foreign exchange gains of NT\$176m as USD appreciated in the quarter, and net income also increased by 24% YoY. 2Q18 EPS came in at NT\$2.16, compared to NT\$1.74 in 1Q18.



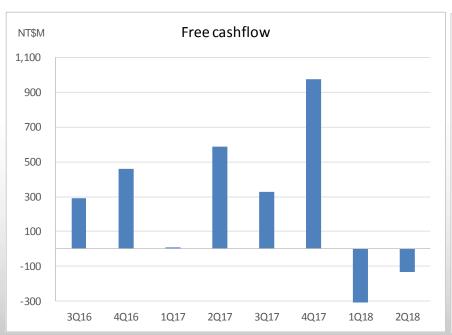


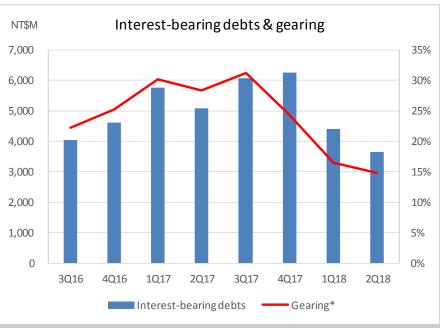
Source: company.

FCF & Gearing Trend



- As we continued to spend higher capex in 2Q18, we experienced net outflow of free cash flow in the quarter.
- Interest-bearing debts and gearing ratio continued to decline in the quarter, reaching the lowest level in two years, which further enhanced our financial structure to a healthier level.

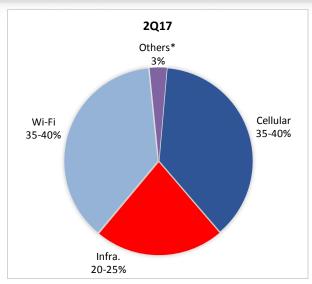


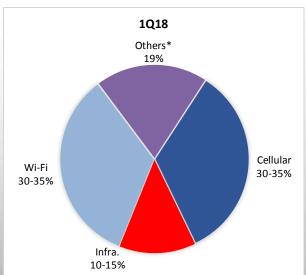


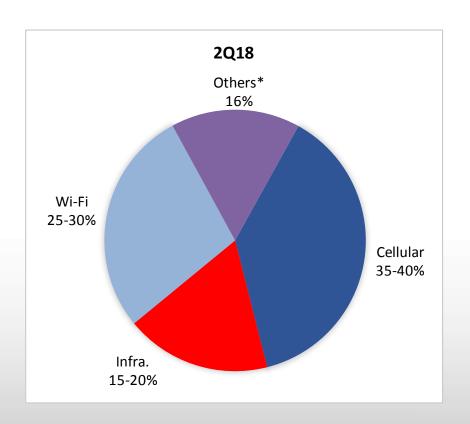
^{*} Gearing = interest-bearing debts / equity Source: company.

Product Mix









^{*} Others: Revenue not attributable to main product segments and additional revenue being consolidated in accordance with IFRS. Source: company.

3Q18 Guidance



- As demand not as strong as the same period before due to part of customers experiencing inventory correction, we expect 3Q18 revenue to decline around 10% QoQ.
- We expect 3Q18 gross margin to be around the level of low thirties.



Appendix - Financial Summary

Consolidated Statements of Comprehensive Income - Quarterly



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Unit: NTD Million	2Q'17	1Q'18	2Q'18 (unaudited)	QoQ	YoY		
Net revenue	3,820	4,464	4,567	+2%	+20%		
Gross profit	1,422	1,521	1,479	-3%	+4%		
Gross margin (%)	37.2%	34.1%	32.4%				
Operating expenses	(427)	(480)	(533)	+11%	+25%		
Operating expenses rate (%)	-11%	-11%	-12%				
Operating income	995	1,041	946	-9%	-5%		
Operating margin (%)	26.1%	23.3%	20.7%				
Non-operating incomes and expenses	0.05	(132)	211				
Income before income tax	995	909	1,157	+27%	+16%		
Income tax expense	(268)	(179)	(252)				
Net income	727	730	905	+24%	+24%		
Net margin (%)	19.0%	16.4%	19.8%				
EPS (NT\$)	1.85	1.74	2.16	+24%	+17%		
Other comprehensive income, net	90	118	56				
Comprehensive income	817	848	962	+13%	+18%		
ROE(%)	16%	11%	14%				
Approx. Utilization (%)	90%	85%	85%				
Depreciation	576	743	772				
CAPEX	740	1,760	1,453				
			\/				

Consolidated Statements of Comprehensive Income - 1H18



	·			
Unit: NTD Million	2017H1	2018H1 (unaudited)	YoY	
Net revenue	7,102	9,031	+27%	
Gross profit	2,526	3,001	+19%	
Gross margin (%)	35.6%	33.2%		
Operating expenses	(800)	(1,013)	+27%	
Operating expenses rate (%)	-11%	-11%		
Operating income	1,727	1,987	+15%	
Operating margin (%)	24.3%	22.0%		
Non-operating incomes and expenses	(140)	79		
Income before income tax	1,587	2,066	+30%	
Income tax expense	(363)	(431)		
Net income	1,224	1,635	+34%	
Net margin (%)	17.2%	18.1%		
EPS (NT\$)	3.08	3.90	+27%	
Other comprehensive income, net	360	175		
Comprehensive income	1,584	1,810	+14%	
ROE(%)	13%	13%		
Approx. Utilization (%)	85%	85%		
Depreciation	1,150	1,515		
CAPEX	1,753	3,213		
	\/			

Non-operating Items



Unit: NTD Million	20'17	2Q'18	2017111	2018H1
Unit: NTD Million	2Q'17	(unaudited)	2017H1	(unaudited)
Foreign exchange gains (losses)	7	176	(134)	104
Gains (losses) on disposals of property, plant and equipment	(0.2)	0.2	(0.2)	0.2
Gains (losses) on disposals of investments	(4)	0.02	(6)	0.3
Gains on financial assets (liabilities) at fair value through profit or loss, net	(20)	(21)	(10)	(94)
Share of loss of associates and joint ventures accounted for using equity	(18)	(21)	(34)	(41)
Others	35	77	46	110
Total	0.05	211	(140)	79
			7	

Consolidated Balance Sheets



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	2017/6/20		2010/2/21		2018/6/30	
Major Item \$	2017/0/	2017/6/30		/31	(unaudited)	
	\$	%	\$	%	\$	%
	3,189	11%	5,852	17%	4,819	13%
n profit or	197	1%	710	2%	877	2%
	1,290	5%	-	0%	-	0%
	1,064	4%	1,348	4%	1,803	5%
	3,009	11%	3,775	11%	4,055	11%
	2,484	9%	4,336	12%	4,334	12%
	16,263	57%	18,128	52%	19,204	53%
	28,420	100%	35,126	100%	36,134	100%
	6,295		3,831		7,581	
	3,940		4,399		3,649	
	10,460	37%	8,473	24%	11,478	32%
	4,027		4,227		4,227	
	17,960	63%	26,653	76%	24,656	68%
	44.60		63.06		58.33	
oilities)	147%		317%		159%	
	37%		24%	(32%	
	n profit or	\$ 3,189 1,290 1,064 3,009 2,484 16,263 28,420 6,295 3,940 10,460 4,027 17,960 44.60	\$ % 3,189 11% 1,290 5% 1,064 4% 3,009 11% 2,484 9% 16,263 57% 28,420 100% 6,295 3,940 10,460 37% 4,027 17,960 63% oilities) 147%	\$ % \$ 3,189 11% 5,852 1,000 197 1% 710 1,290 5% - 1,064 4% 1,348 3,009 11% 3,775 2,484 9% 4,336 16,263 57% 18,128 28,420 100% 35,126 6,295 3,831 3,940 4,399 10,460 37% 8,473 4,027 4,227 17,960 63% 26,653 44.60 63.06	\$ % \$ % a profit or 197 1% 710 2% 1,290 5% - 0% 1,064 4% 1,348 4% 3,009 11% 3,775 11% 2,484 9% 4,336 12% 16,263 57% 18,128 52% 28,420 100% 35,126 100% 6,295 3,831 3,940 4,399 10,460 37% 8,473 24% 4,027 4,227 17,960 63% 26,653 76% abilities) 147% 317%	tem \$\\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

^{*} The classifications of financial assets are re-recognized in accordance with IFRS 9, effective on January 1, 2018.

Q & A

For more information regarding WIN www.winfoudry.com

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