

WIN Semiconductors

Compound Semiconductor Solutions From RF to Light-Wave

Company Presentation





May 2017

WIN Property

www.winfoundry.com

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



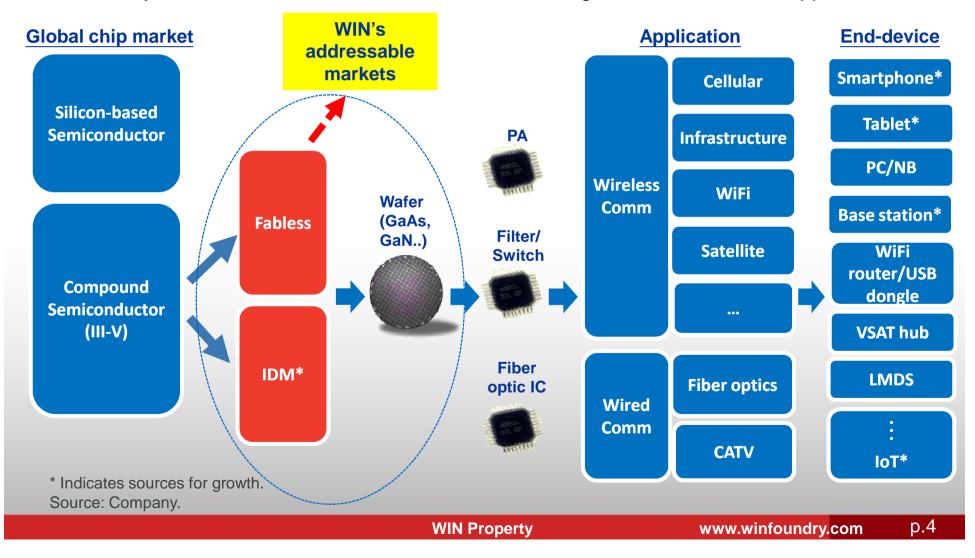
Market Outlook



WIN's Market Positioning

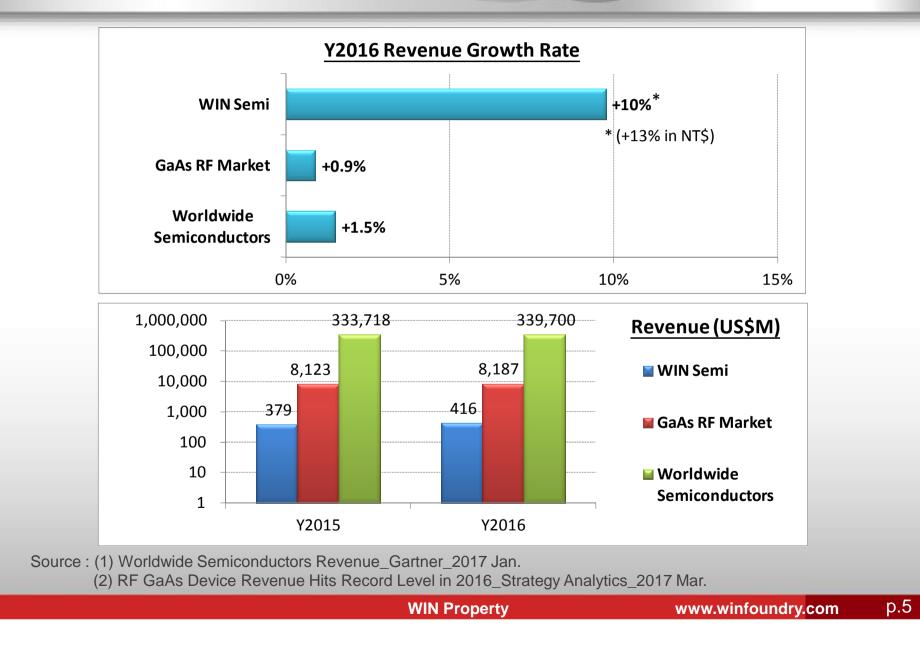


• WIN positions itself as a dedicated compound semiconductor wafer foundry offering foundry works to fabless and IDM customers who target in communication applications.



Semiconductor Revenue Growth





Summary of Growth Momentum SEMICONDUCTORS Vehicle to Vehicle Pre-5G Network Wireless **Optical V2V, V2X** Smartphone **5G Network** MIMO Infrastructure **Devices Near Term** 1. Rapid increase of 5/6-Long Term mode smartphones 1.5G launch for broadband 2. Strong WiFi adoption in Mid Term satellite, dense cells, ... smartphones, routers, and IoT devices 1. Pre-5G launch (sub 6GHz) 2. 5G launch along with massive IoT deployment 3. Strong infrastructure 2. Cellular MIMO CA growth **3.** Automobile connectivity 4. Optical Devices

Near Term Opportunities



Cellular PA



- Global total frequency band count continues to increase (2016-2019 CAGR=17%)
- Rapid adoption of 5/6-mode smartphone (45% of total smartphone)
- Performance requirement continues to increase
 - CA, ET, PAE, higher frequency, higher output power

WiFi



- Flagship phones adopt dual band (2G/5G) MIMO
- Mid/low-end phones start to adopt 5G band and MIMO
 - trend to include 5GHz 11ac Wi-Fi in China made smartphones
- Router and IoT gateway (e.g. 8x MIMO) markets are rapidly increasing ,

Non-handset

- Satellite communication Ku/Ka bands
- Fiberoptics is moving toward 25Gbps, 40Gbps, and even >50Gbps per channel
- Point-to-point radio
- Optical devices:
 - 3D sensing, depth camera





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- 5G sub-6GHz (<6GHz) spectrum bands for ubiquitous network coverage
- 5G mmWave (~30GHz) likely for fixed wireless access as a start followed by extreme mobile broadband in the longer term

	Mobile Device	Infrastructure/CPE
Hz	• GaAs HBT	• GaN HEMT
Sub-6GHz	• GaAs pHEMT	
ave	Integrated GaAs	• GaN HEMT
mmWave	technologies	• GaAs pHEMT

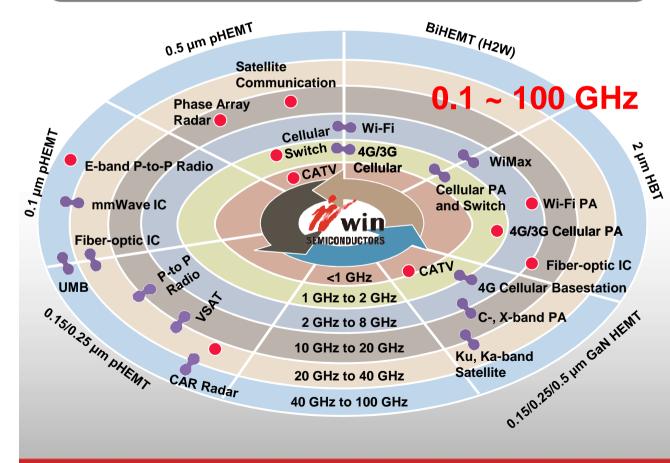


Technology



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



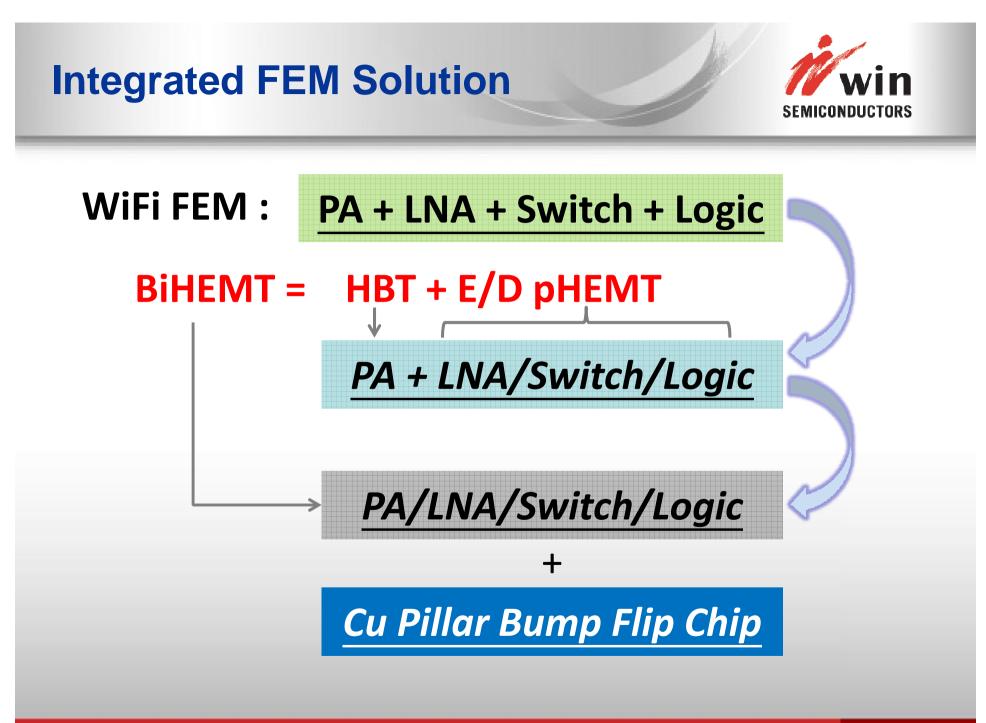
- Dominant market share for high-performance HBT used in LTE PAs
- ✓ Leading BiHEMT technology for advanced integrated FEM
- ✓ First and only foundry worldwide to commercially develop 0.1µm pHEMT on 6" GaAs wafer
- ✓ Industry leading 0.15–0.25µm pHEMT technology
- Supports broad range of products such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

WIN's 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:







WIN 0.25/0.15/0.10µm pHEMT Inside!



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Ultra high frequency semiconductor technology provider!

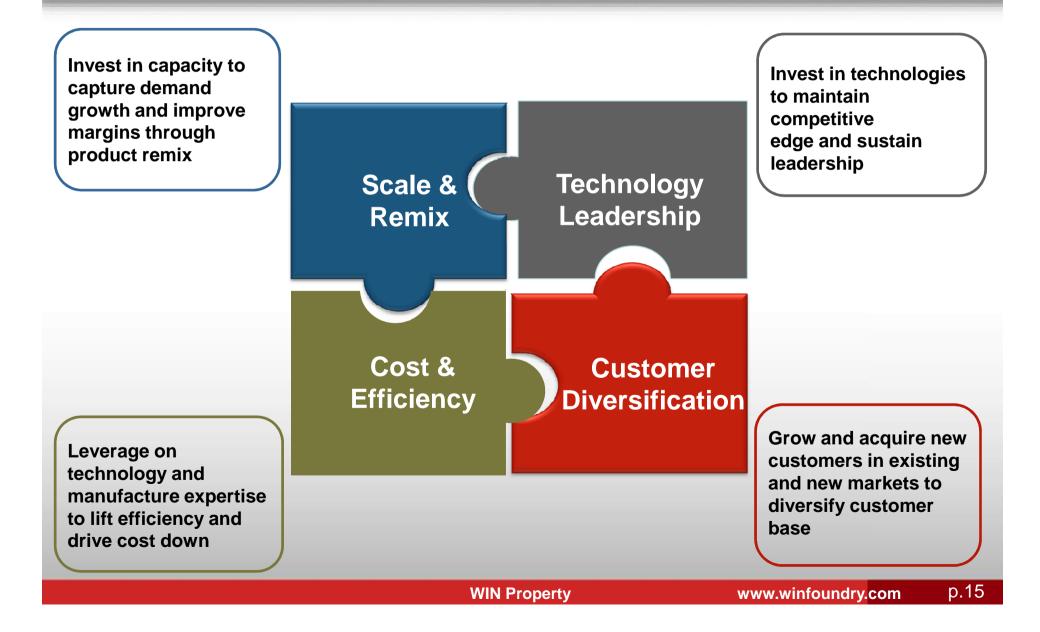
Satellite Communications, Fiber optic Communication, Wireless infrastructure ...

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The WIN Strategy







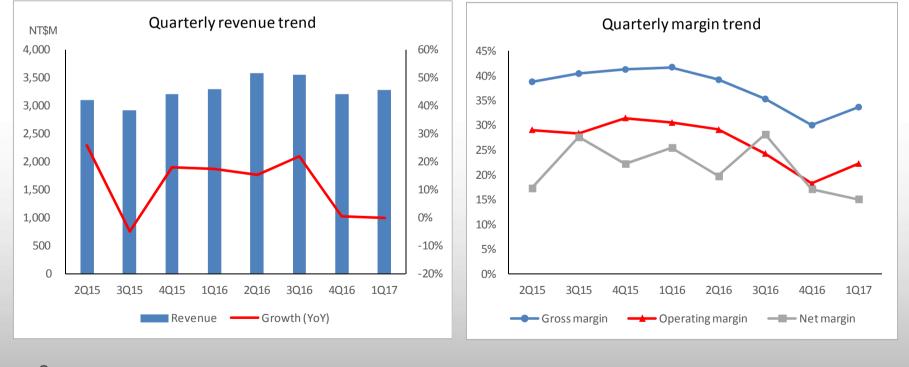
Quarterly Results & Guidance



Revenue & Margin Trend



- 1Q17 revenue was NT\$3,282mn, up 2.4% QoQ and down 0.3% YoY.
- 1Q17 GM and OPM were 33.7% and 22.3%, respectively, with sequential increase of 3.7 and 4.1pp. This was a combined result of <u>the removal of the</u> <u>one-off negative factors that occurred in 4Q16</u>, <u>slightly better product mix than</u> <u>4Q16</u>, and the sharp appreciation of NTD over USD.

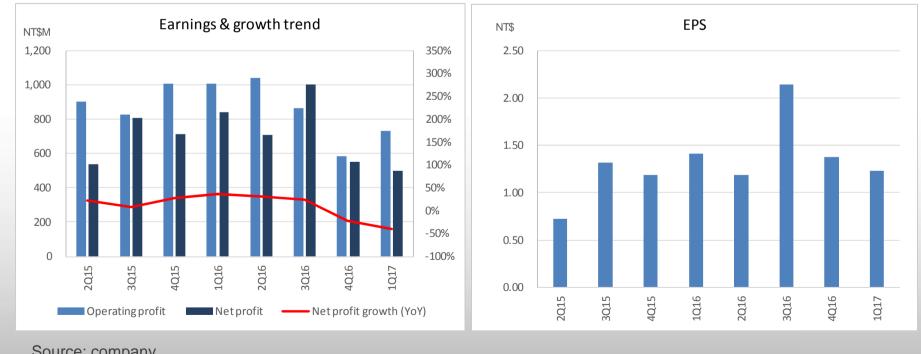


Source: company.





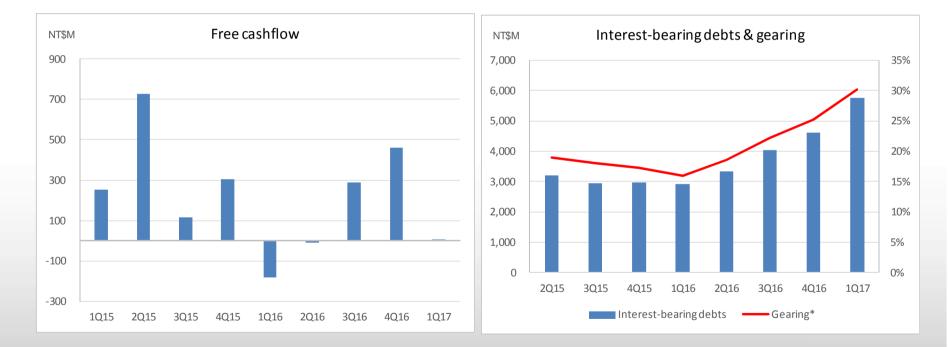
1Q17 net income was NT\$496mn, down 10% QoQ, mainly due to non-op • items. Compared to non-op income of NT\$61mn in 4Q16, 1Q17 non-op expenses were NT\$140mn owing to a forex loss. Net income declined 41% YoY in the quarter. EPS came in at NT\$1.23, compared to NT\$1.38 in 4Q16.



Source: company.



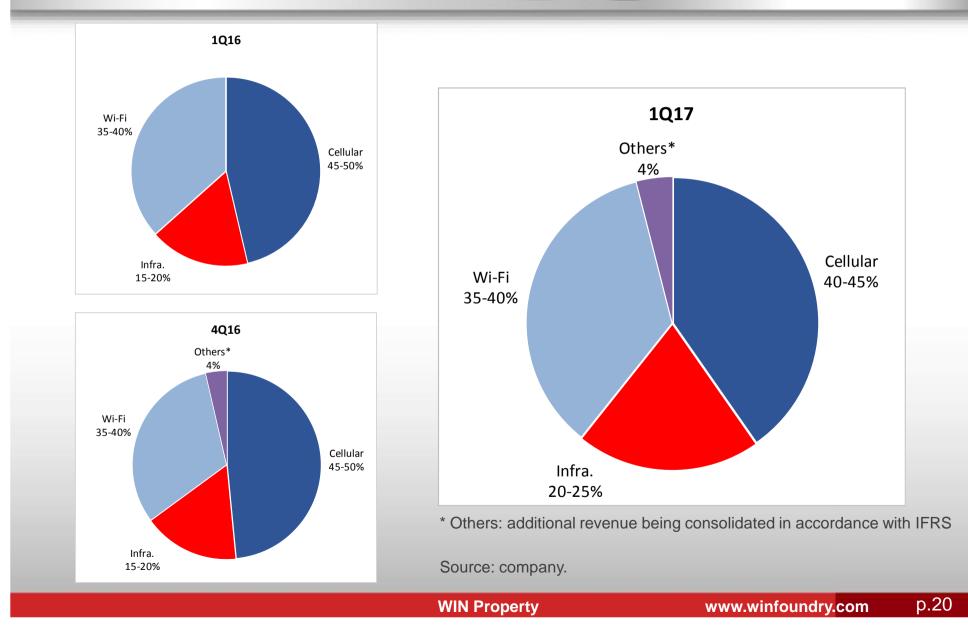
• Interest-bearing debts and gearing ratio modestly increased, as we moderately increased leverage while maintaining a healthy financial structure.



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

Product Mix







- We expect 2Q17 revenue to increase by 13-17% QoQ.
- We expect 2Q17 gross margin to be better than 1Q17.



Appendix - Financial Summary



Consolidated Statements of Comprehensive Income - Quarterly



Unit: NTD Million	1Q'16	4Q'16	1Q'17 (unaudited)	QoQ	YoY
Net revenue	3,292	3,206	3,282	+2%	-0.3%
Gross profit	1,374	962	1,105	+15%	-20%
Gross margin (%)	41.7%	30.0%	33.7%		
Operating expenses	(367)	(395)	(373)	-6%	+2%
Operating expenses rate (%)	-11%	-12%	-11%		
Other revenue and expenses	-	17	-		
Operating income	1,006	584	732	+25%	-27%
Operating margin (%)	30.6%	18.2%	22.3%		
Non-operating incomes and expenses	(1)	61	(140)		
Income before income tax	1,005	645	592	-8%	-41%
Income tax expense	(165)	(95)	(95)		
Net income	839	550	496	-10%	-41%
Net margin (%)	25.5%	17.2%	15.1%		
EPS (NT\$)	1.41	1.38	1.23	-11%	-13%
Other comprehensive income, net	173	(72)	270		
Comprehensive income	1,012	478	767	+60%	-24%
ROE(%)	19%	12%	11%		
Approx. Utilization (%)	90%	80%	80%		
Depreciation	504	636	574		
CAPEX	879	691	1,013		

Non-operating Items



Total	(1)	(140)
		-
Others	38	10
Share of loss of associates and joint ventures accounted for using equity	(4)	(16)
Gains on financial assets (liabilities) at fair value through profit or loss, net	8	10
Gains (losses) on disposals of investments	1	(2)
Gains (losses) on disposals of property, plant and equipment	(0)	-
Foreign exchange gains (losses)	(44)	(142)
	1010	(unaudited)
Unit: NTD Million	1Q'16	1Q'17

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Consolidated Balance Sheets



(Unit: NTD Million)	Major Item	2016/3/31		2016/12/31		2017/3/31 (unaudited)	
		\$	%	\$	%	\$	%
Cash and cash equivalents		1,718	7%	2,388	9%	3,278	12%
Current financial assets at fai	r value through profit or	774	3%	218	1%	234	1%
Current available-for-sale fina	ancial assets	839	3%	975	4%	1,314	5%
Notes and accounts receivabl	e, net	911	4%	1,069	4%	1,002	4%
Inventories		2,534	10%	2,727	10%	2,793	10%
Long-term investments		2,281	9%	2,034	8%	2,170	8%
Net property, plant and equipment		15,057	61%	16,081	61%	16,322	58%
Total Assets		24,533	100%	26,411	100%	28,071	100%
Current liabilities		4,127		4,194		3,973	J
Long-term borrowings		1,978		3,674		4,811	
Total Liabilities		6,303	26%	8,093	31%	9,010	32%
Common stock		5,967		4,077		4,027	
Total Equity	Total Equity		74%	18,318	69%	19,061	68%
Book value per share (NT\$)		30.55		44.93		47.34	
Key Indices							
Current ratio (Current assets / Current liabilities)		169%		186%		228%	
Debt ratio (Total liabilities ,	′ Total assets)	26%		31%		32%	

Q & A

For more information regarding WIN www.winfoudry.com

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



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