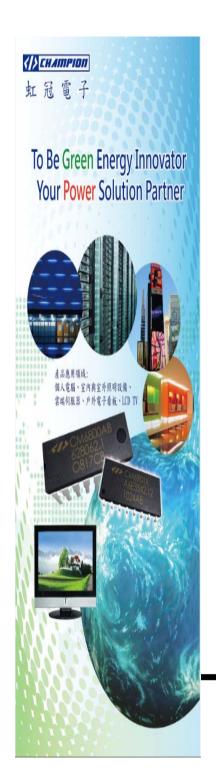


## 虹冠電子工業股份有限公司 Champion Microelectronic Corp.

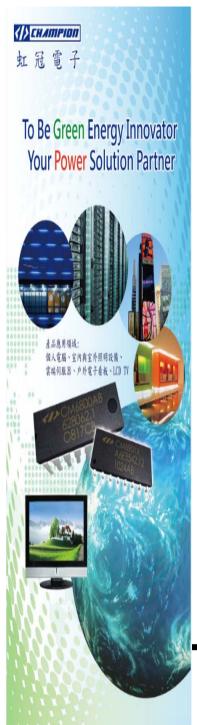
### 2017年法人說明會 2017 Investor Conference

President Haiping Dun PhD.

Vice President Sandy Peng Spokesman
June 14, 2017







#### Safe Harbor Statement

- Champion's statements of its current expectations are forwardlooking 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, Champion undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.

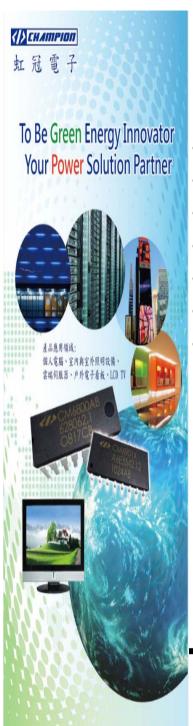




## Agenda

- 1. Brief Introduction
- 2. Operation Rerformance
- 3. Research development and technical
- 4. Operation outlook
- 5. Conclusion





#### **Brief Introduction**

• Founded : Dec. 30, 1998

• Capital : NT651,458 thousand (@31.5  $\rightleftharpoons$  USD 20,681 thousand)

• IPO : Mar. 21, 2011

Chairman : Liu, Ta-Kuang

President: Dun, Haiping Ph.D.

Product: AC-DC power management analog IC design

Location :

Headquarter: Hsinchu, Taiwan

• 5F, No. 11, Park Ave. 2, Science-Based Industrial Park Hsinchu, Taiwan

Anniversary

Taipei Office

• 21F., No.96, Sec. 1, Sintai 5th Rd., Sijhih Dist., New Taipei City, Taiwan

US Office

• 960 Saratoga Ave, Suite #125, San Jose, California, USA

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虹冠電子

To Be Green Energy Innovator
Your Power Solution Partner

## **Dividend History**

In NT\$

[	<mark>Dividends</mark>	Shareholders'		Per Share				Cash Dividend	Stock Dividend		
	Year	Meeting	EPS	Cash Dividend	Stock Dividend	Issue day	Total	Amount	Amount	Total	
ŧ	2016	2017/6/20	1.9	0.65	0.65		1.30	42,344,770	42,344,770	84,689,540	
0 0 0	2015	2016/6/20	2.39	0.65	0.85	2016/9/29	1.50	39,027,435	51,035,920	90,063,355	
000	2014	2015/6/29	5.58	2.75	0.85	2015/9/25	3.60	152,180,710	47,037,680	199,218,390	
000	2013	2014/6/26	4.85	2.5	0.6	2014/9/25	3.10	130,531,700	31,327,600	161,859,300	
	2012	2013/5/10	3.05	1.5	0.6	2013/8/12	2.10	58,092,000	23,236,800	81,328,800	
	2011	2012/6/12	2.37	1.57	0	-	1.57	60,802,960	0	60,802,960	
0 0 0 0	2010	2011/6/24	3.03	2	0	-	2.00	83,456,000	0	83,456,000	
	2009	2010/6/25	1.58	0.8	0.2	2010/9/8	1.00	25,600,000	6,400,000	32,000,000	
ľ	合計			12.42	3.75		16.17	592,035,575	201,382,770	793,418,345	





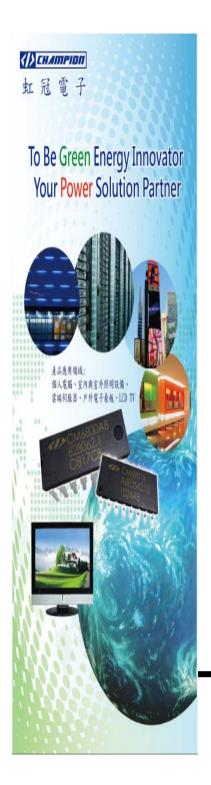


## **Years Profit Summary**

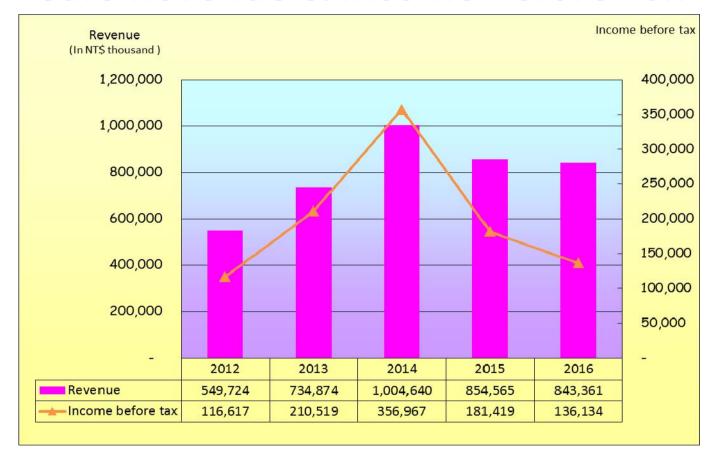
#### In NT Thousand

Item/Year	2010	2011	2012	2013	2014	2015	2016
Revenue	544, 186	552, 126	549,724	734,874	1,004,640	854,565	843,361
Gross Profit	244, 808	252, 770	255,726	404,012	575,841	433,475	403,256
Gross Margin	45%	46%	46%	55%	57%	51%	48%
Operating Expenses	149, 981	165, 259	189,204	209,905	264,835	282,915	278,170
Operating Income	94, 827	87, 511	66,522	194,107	311,006	150,560	125,086
Net Non-Operating Incom	8, 902	13, 185	50,095	16,412	45,961	30,859	11,048
Income before tax	103, 729	100, 696	116,617	210,519	356,967	181,419	136,134
Net Income	100, 913	89, 711	115,734	208,720	303,142	141,650	123,111
EPS (NT\$)	3. 03	2. 37	3.05	4.85	5.58	2.39	1.90
Capital	358, 400	387, 280	387,280	522,127	553,384	600,421	651,457
Book vaiue per share	15. 04	18. 56	19.95	25.29	27.47	25.37	24.59



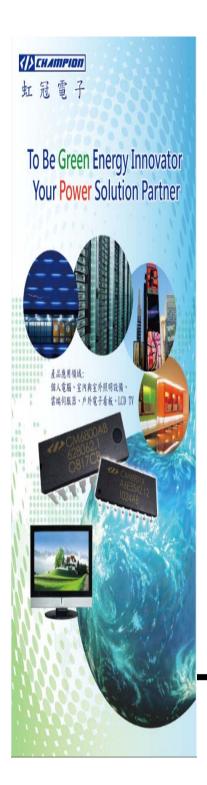


#### Years Revenue & Income Before Tax



Y2016 Revenue NT843,361 thousand , YOY -1% Y2016 Income before tax NT136,134 thousand , YOY -25%



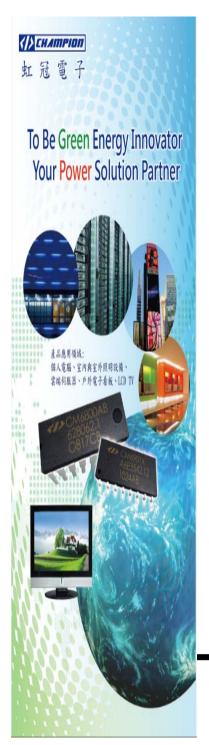


## 2017/Q1 VS.Y2016 Profit Summary

In NT Thousand

Item/Year	2017/Q1	2016/Q4	2016/Q3	2016/Q2	2016/Q1
Revenue	168,591	219, 294	208, 807	204, 440	210,820
Gross Profit	72,571	92, 465	100, 640	108, 339	101,812
Gross Margin	43%	42%	• 48%	53%	48%
Operating Expenses	53,190	76, 515	63, 301	71, 744	66,610
Operating Income	19,381	15, 950	37, 339	36, 595	35,202
Net Non-Operating Incom	(11,946)	12, 596	(3, 464)	6, 172	(4,256)
Income before tax	7,435	28, 546	33, 875	42, 767	30,946
Net Income	3,802	18, 492	29, 234	50, 620	24,765
EPS (NT\$)	0.06	0.18	0. 45	0.85	0.42
Capital	651,457	651,457	562, 024	562, 024	562,024
Book vaiue per share	24.37	24. 59	24. 25	25. 96	25.76





#### 2017/Q1 Revenue & Income Before Tax

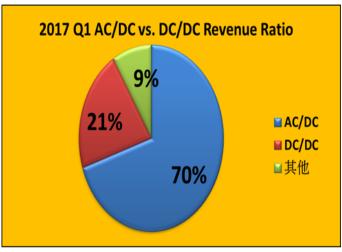


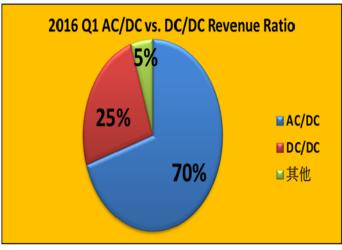
Revenue : 2017/Q1 NT168,591 thousand , 2016/Q4NT219,294 thousand ; MOM -23% Income before tax : 2017/Q1 NT7,435 thousand , 2016/Q4 NT28,546 thousand ; MOM -74%



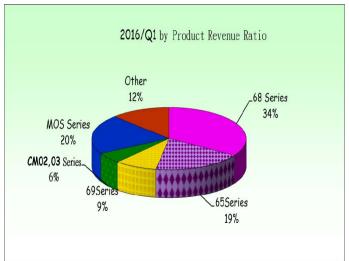
# (/) CHAMPION 虹冠電子 To Be Green Energy Innovator Your Power Solution Partner 個人電腦、室內與室外照明設備 雲端伺服器、戶外電子看板、LCD

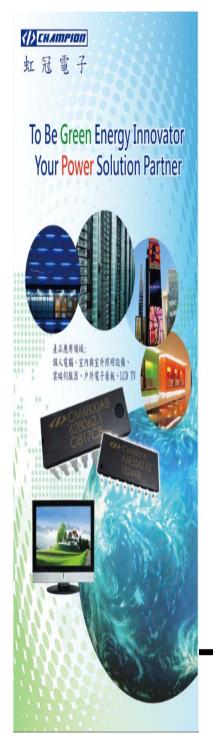
#### AC/DC vs. DC/DC 2017 Q1 vs.2016 Q1 Revenue by Product



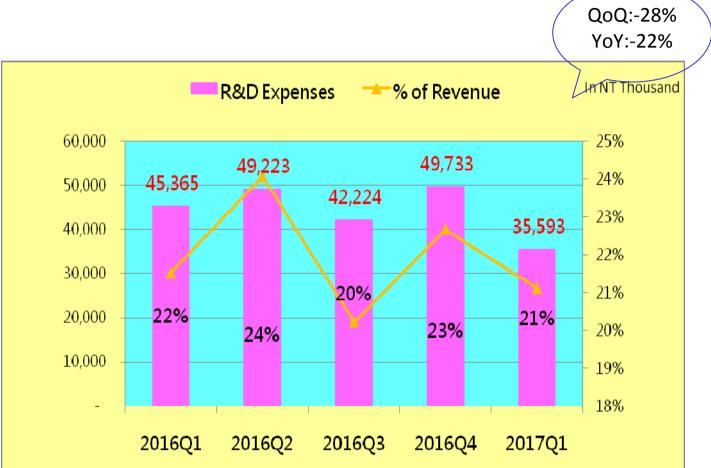




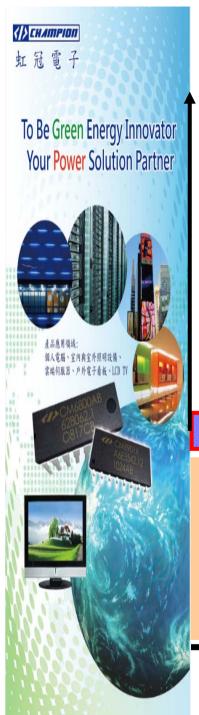




### R&D Expenses & %







#### **Product Road Map**

	CM6800:16Pin PFC+PWM COMBO		CM6568:ZVS Like DCM+CCM PFC controller		HPFAN	True no standby PFC:CU6502V				
٠	CM6805:	10 Pin	CM6802:ZVS-Like		CM03	S.L.S:CU6901V CMRRIO4				
	PFC+PWM	PFC+PWM COMBO CM6808		PWM COMBO	CIVIUS					
				CM6901:SRC/LL	CM02			(	CUDR.FB	
	like trij Comb PFC+PWN ndby		•		CIVIOZ			D	R.SR10	0
					PFC Diode			ı	DR.SR4	5
				Single PFC	Family	SJ MOSFET G1		<b>ب</b>	DR.Bridge	
٠,	I PFC Diode Series				<b>HV-Planner</b>	SJ MOSFET		G2		
-	Planner Mosfet 500V-800V :	MOSFET		SPT LV MOSFET			SFET			
V	SJ MOSFET G1					-				

2008~2013 2014 2015 2016/2017/2018

- Power factor (PFC): CM65XX, CU65XX
- Saving (consumption): CM02 / CM03

CU6901V:SRC/LLC+SR controller with kick function

CUDR.SR SR100/45: 2ND SR with SPT MOSFET

**HV SJ MOSFET G2** 

DR.Bridge

CUDRFB:QR+ZVS flyback

- Efficiency: Forward / Resonant converter Resonant Architecture / Flyback
  - ✓ High power applications: CM69XX, CU69XX
  - ✓ Low power applications: DR.FB / DR.SR / DR.Bridge

CU6502V:PFC controller include high voltage start. Application in no standby system

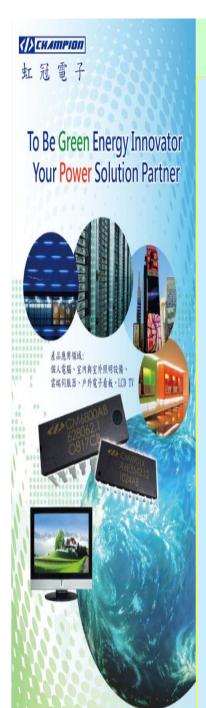
Precision: On line trimming technology

- Champion's product line is becoming more complete, especially the new DR. Flyback series of programs, from large watts to small watts, from PC / Server / TV to NB / tablet / cell phone, fast charge and other related applications.
- Plus MOSFET product specifications complete has been selling in China, will make the product line is more complete, to reach one-stop-shopping effect









#### **Product Technology Advantages**

#### Power Control IC:

- Champion's R & D team is in Silicon Valley for long time, COO & CTO, Jeffrey, dedicated to research
  power IC, for industrial technology, international manufacturers technical specifications and
  application of material characteristics & high degree of control.
- Power supply leader

Power requirements required for the optimization and development of the structure, not for me too products, lead the international manufacturers

- Such as the PC market .. 6802 combo series to obtain 80+ certification is TOP. 1 in the filed.
- Such as the PC market ... resonant low-power power supply this control IC, to obtain 90 + certification is Top 1 in the filed.
- The new DR.FB QR-ZVS architecture is based on more compact / efficient all-in-one power solution

#### IC design technology

 Design team have more than 30 years experience, Champion provide high stability / power efficiency specifications, all-round optimization of the control IC by the power structure

#### Power discrete :

Power discrete process technology led by DR.Dun, super Junction MOSFET, performance, CP value
is better than foreign manufacturers, with IC applications, Champion provide Total Solution, not
limited to foreign manufacturers, Champion is leadership in the field.

#### On-line Trimming:

- For coming High-precision product control generation :
  - Timely introduction of advanced equipment to quickly improve product yield, real-time supply with market demand
- Set up laser trimming:
  - It's to enhance the yield of new products and product gross margin main key.
- Learning curve overcomes:

Laser Trimming less talent, need to training by ourselves, from 2013y to 2017y, Champion has R & D the core key technologies, according to research institutions, Ultramobiles, NB for energy-saving demand for the original desktop PC market 10 times the future with the scale of operation of the amplification, may lead to the future demand for Laser Trimming,

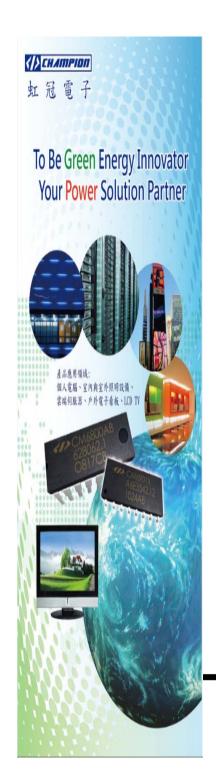
Champion's core technology will be quickly applied to the expansion of equipment, the new benefits will gradually appear in the feature.



#### **Product Development and Application**

8									
6		PFC+PWM C	PFC+PWM	Combo					
O			CM68xx	CM68xx					
			PFC(CM65)+Re	PFC(CM65)+	Resonant				
4			architecture(CM69)		architecture	,			
1 7			High efficiency product fermentation		High effic	•			
					products are flat				
ا ا	PFC+PWM	Combo			PFC (CU6	5)+Resonai	nt architectu	ire(CU69)+CM	RRIO4
	Product prepared 0				High efficiency product fermentation				
0						Power D	Discrete have	poured	
虹冠電 Champion	2011	2012	2013	2014	2015	2016	2017	2018	2019

- By the past Champion's product line only focus on the PC application, resulting in 2015Y revenue decline
- However, Champion adopted a decentralized regional and decentralized product application strategy, the Champion's revenue decline rate is less than the degree of industrial recession
- ✓ In decentraliz areas, increased the sales proportion in China
- ✓ In decentraliz products, extend the application of products to the gaming NB, mining machines, machine tools, IPC and electric car charging applications
- ✓ The conclusion above, operating from the impact of a substantial decline in the industry
- New opportunities:
- ✓ Diversification of the game and VR / AR i, power consumption increased significantly, relatively driven by high demand for new applications
- ✓ USA , California, Europe and many countries follow the energy efficiency to take mandatory regulations rules



## 節能減碳



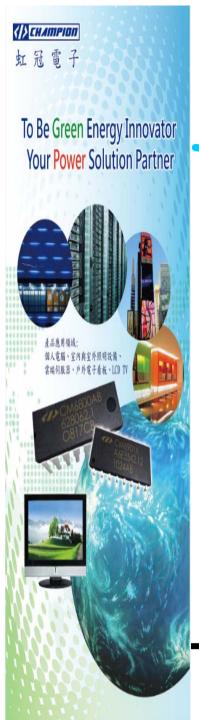


綠色科技





的領航先驅



To Be Green

Energy Innovator

Your Power



Solution Partner





#### Thank You For Your Attention



