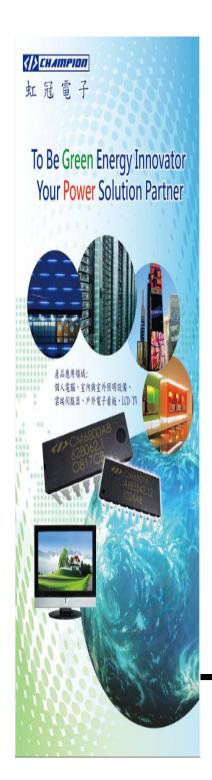


### 虹冠電子工業股份有限公司 Champion Microelectronic Corp.

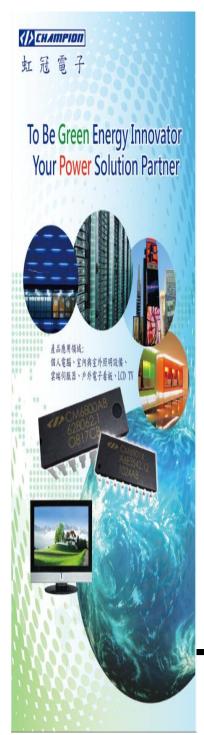
#### 2017年法人說明會 2017 Investor Conference

Chairman Sandy Peng Spokesman President Haiping Dun PhD.

October 5, 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.





#### **Brief Introduction**

Founded : Dec. 30, 1998 (19 years)

• IPO : Mar. 21, 2011( 6 years)

Chairman: Sandy Peng

President : Dun, Hai-Ping Ph.D.

Product: AC-DC power management analog IC design

• Capital : NT693,803 thousand (@30.5 = USD 21,161 thousand)

• 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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We are



### Management Team

	Item	Title	Name	Education	Experience
000000000000000000000000000000000000000	1	Chairman	Sandy Peng	E.M.B.A., National Chiao Tung University M.B.A., Saginaw Valley State University USA	Independent Director, Remuneration committee member, Audit Committee, Avision Inc. Director, GoMax Electronics, Inc. Director, HC Photonics
000	2	President	ıl)ıın Hai-Ping 🔃	Ph. D., M.S.E., Stanford University USA B.S., PHY., National Taiwan University	Intel CTO IBM Senior RD engineer
000000000000000000000000000000000000000	3	C. T. O.	Jeffrey Hwang	M. S., SanJose University USA	Micro Linear Telecom Semi National Semi
ľ	4	V.P. of Operation dep.	Dragon Lin	M.S., I.E.M.,National Chiao Tung University	UTAC Corp.
N	5	V.P. of Application & Sale dep.	Elvis Lin	M.S., GIEE, National Cheng Kung University	Champion Microelectronic Corp.
	6	Finance & Accounting senior manager	Rebecca Chen	M.B.A., Chung Yuan Christian University	Champion Microelectronic Corp.



### **Board of Directors**

200	ltem	Title	Name	Education	Experience
	1	Chairman	Sandy Peng	E.M.B.A., National Chiao Tung University M.B.A., Saginaw Valley State University USA	Independent Director, Remuneration committee member, Audit Committee, Avision Inc. Director, GoMax Electronics , Inc. Director, HC Photonics
	2	Director	David Liu	Chiao Tung University	Vice Chairman, Rectron Electronic Enterprises, Inc. Chairman, Leadtek Research Inc. Supervisor, Avision Inc. Chairman, Champion Microelectronic Corp.
000 000 000 000 000 000 000	3	Director	Dun, Hai-Ping	Ph. D., M.S.E., Stanford University USA B.S., PHY., National Taiwan University	Intel C.T.O. IBM Senior R.D. engineer
5 5 0 0 0 0 0 0 0 0 0 0 0	4	Director	Chen, Tung-Yang	B.S., M.E., National Kaohsiung University of Applied Sciences	Chairman, WH investment Ltd. Director, HC Photonics
	5	Director	Ke, Ba-Xi	B.S., M.E., National Taiwan University of Science and Technology	Chairman, Taiwan Association of Machinery Industr Chairman, Avid Electronics Corp. Chairman, Kwang Dah Enterprise Co., Ltd. Director, Mospec Semiconductor Corp.
N	6	Director		— ·	Adm. Manager, Game Flier International Corp. Fin. & Adm. manager, Soft-World International Corp. Cost Div. Associate V.P, Ritek Corp.
V	7	Director	Will Pan	M.B.A, Economics, Chinese Culture University	V.P, Ritek Corp.
$\langle \rangle$	8	Independent Director	Hu, Yaw-Wen	Ph. D., A.P., Stanford University USA B.S., PHY., National Taiwan	Director, Micro Technology Inc. Consultant, Micro Technology Inc.
	9	Independent Director	Johnson Vin	Ph.D. Candidate, East China University of Political and Law M.B.A., Leicester University USA B.L., Law, Soochow University	legal & I.P. Div. Associate V.P., Arcadyan Technology Corp.
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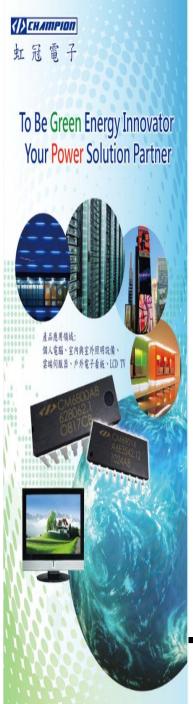


To Be Green Energy Innovator
Your Power Solution Partner

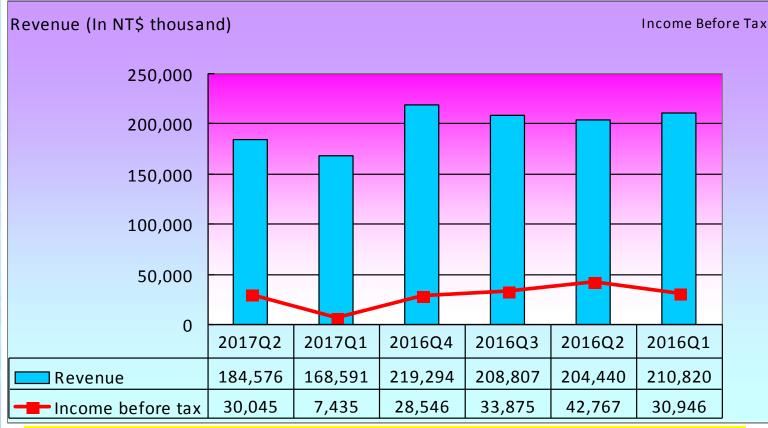
### **Board of Supervisors**

2000	Item	Title	Name	Education	Experience
000	1	Supervisor	Eric Kuo	M.B.A., National Taiwan University B.S., D.P.M.E., National Tsing Hua University	Adm. Manager, Avision Inc.
	2	Supervisor	Jen Kao	M.S., E.E., Stanford University USA B.S., GIEE, National Chiao Tung University	V.P. Fairchild V.P. VLSI Technology
	3	Supervisor	James Chen	M.B.A., Okla Homa City University	Manager, TC Bank



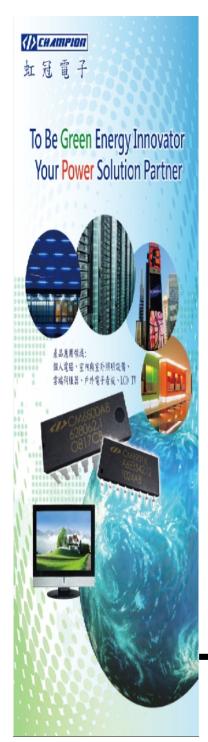


#### 2017 Q2 Revenue & Income Before Tax



Revenue : 2017/Q2 184,576 thousand , 2017/Q1 168,591 thousand ; **QoQ 9.48%** Income Before Tax : 2017/Q2 30,045 thousand , 2017/Q1 7,435 thousand ; **QoQ 304%** 





#### 2017 H1 Income Statements

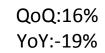
In NT Thousand

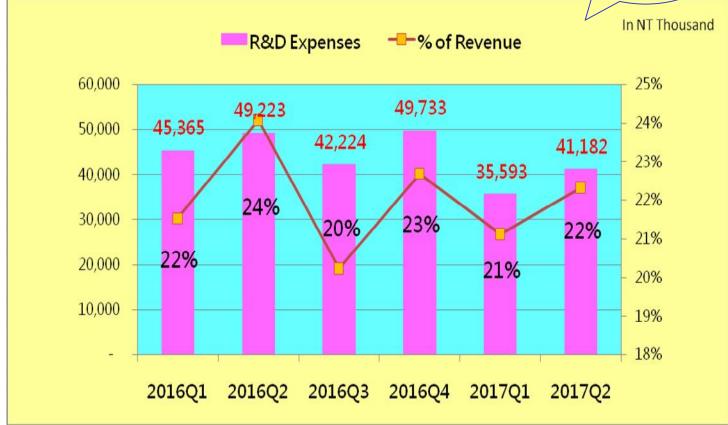
Item/Year	2017Q2	2016Q2	2017 H1	2016 H1
Revenue	184,576	204,440	353,167	415,260
Gross Profit	90,120	108,339	162,691	210,151
Gross Margin	49%	53%	46%	50%
Operating Expenses	66,616	71,744	119,806	138,354
Operating Expense Ratio	36%	35%	34%	33%
Operating Income	23,504	36,595	42 <i>,</i> 885	71,797
Net Non-Operating Incom	6,541	6,172	(5,405)	1,916
Income before tax	30,045	42,767	37,480	73,713
Net Income	33,502	50,620	37,304	75,385
EPS (NT\$)	0.51	0.78	0.57	1.17
Capital	651,457	600,421	651,457	600,421
Book vaiue per share	24.28	25.96	24.28	25.96





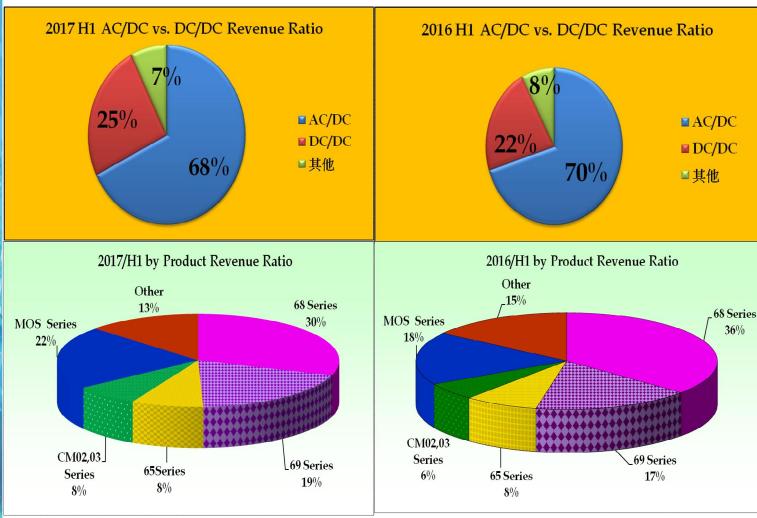
#### R&D Expenses & %





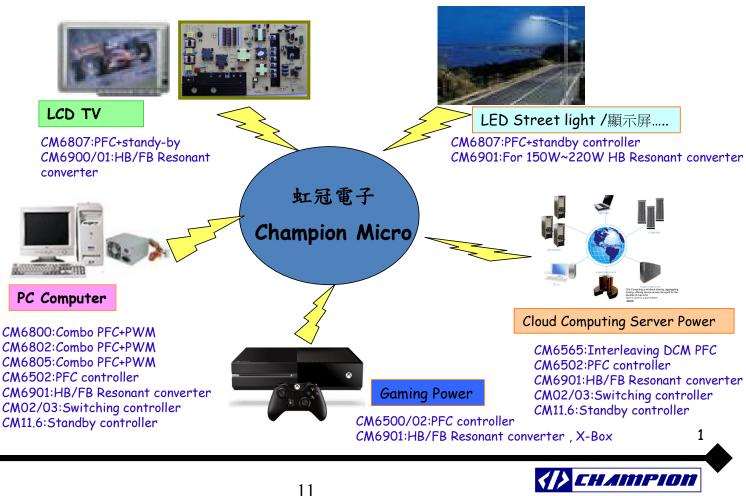
# ( ) CHAMPION 虹冠電子 To Be Green Energy Innovator Your Power Solution Partner 個人電腦、室內與室外照明設備、 雲端伺服器、戶外電子看板、LCD TI

#### 2017 H1 年 vs.2016 H1 Revenue by Product





### **Product Applications**



虹冠電子

#### **Products Roadmap**

CM6800:16Pin PFC+PWM COMBO	CM6568:ZVS Like	HPFAN	True no standby PFC:CU6502V					
CM6805:10 Pin PFC+PWM COMBO	CM6802:ZVS-Like PFC+PWM COMBO	CM03 -	S.L.S:CU6901V CMRRIO4					
CM6808:Z\	+SR	СМ02		♦ CUDRFB ♦ CUSR100				
PFC+PWM dby	N+Stan CM6502:CCM	PFC Diode Family	SJ MOSFET G1	♦ CUSR45				
	I	HV-Planner MOSFET	SJ MOSFI					
Active PFC Solution:  CM6805 family:  10 pin Passive PFC to Active PFC, PFC/PWM combo controller  CM6800 family:16 pin PFC/PWM combo controller  EPA for efficiency between 82 85 82 to 85 89 85:  CM6802 family: 80++ ZV5-Like PFC/PWM controller, pin to pin with CM6800A (for higher efficiency and smaller 380V capacitor)  EPA for efficiency from 88 92 88 to 91 94 90:  CM65015 Secondary side SL5, SCC/LLC+SR controller (Now)  CM65055: 16 pin 2 Phase ZV5-Like Interleaved PFC controller with Clean Digital AC Brown Out  CM6502T: 14 pin Single ZV5-Like PFC with Adjustable and Long Line Sagging Delay + Clean Digital AC Brown Out  HPFANG+/-: 8 pin High Efficiency Fan Controller  CM03/02: 8 pin Reduce No Load/3 x High Voltage Switches/CM02:EMI Cap. discharge IC  CM6508: 16 pin Single ZV5-Like  CCM PFC Diode Series  HV Planner Mosfet 500V-800V series  HV PJ MOSFET 61  HV SJ MOSFET 62  CU6502V:PFC controller include high voltage start. Application in no standby system  CU6901V:SRC/LLC+SR controller with kick function  CUDRPB:QR-ZV5 flyback  CUSR100/45: 2ND SR with MOSFET								
2008~201	.3	2014	2015	2016~2017				
		10		LIIAIIII IUII				

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#### **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,

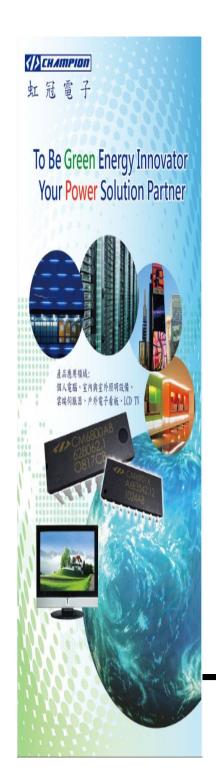
Champion's core technology will be quickly applied to the expansion of equipment, the new benefits will gradually appear in the feature.



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

		PFC+PWM Combo		PFC+PWM Combo					
		CM68xx		CM68xx					
		PFC(CM65)+Res	sonant	PFC(CM65)+F	Resonant				
			architecture(CM69)		architecture(CM69)				
			High efficiency product		High efficiency				
			fermentation		products a	re flat			
	PFC+PWM	Combo			PFC (CU65	s)+Resonan	t architectu	re(CU69)+CMF	RRIO4
	Product pro	epared			Hig	gh efficiend	cy product fe	ermentation	
						Power Di	iscrete 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

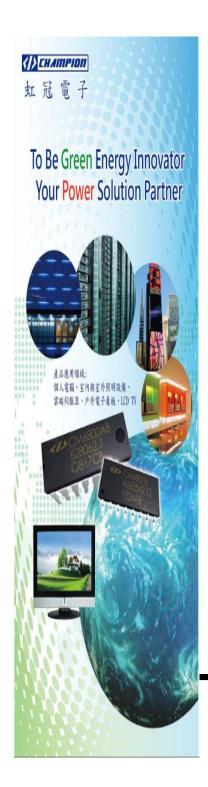
Energy Innovator

Your Power



Solution Partner





#### Thank You For Your Attention



