

Champion Microelectronic Corp.

2020 H1 Investors Conference

2020/8/6

Safe Harbor Notice

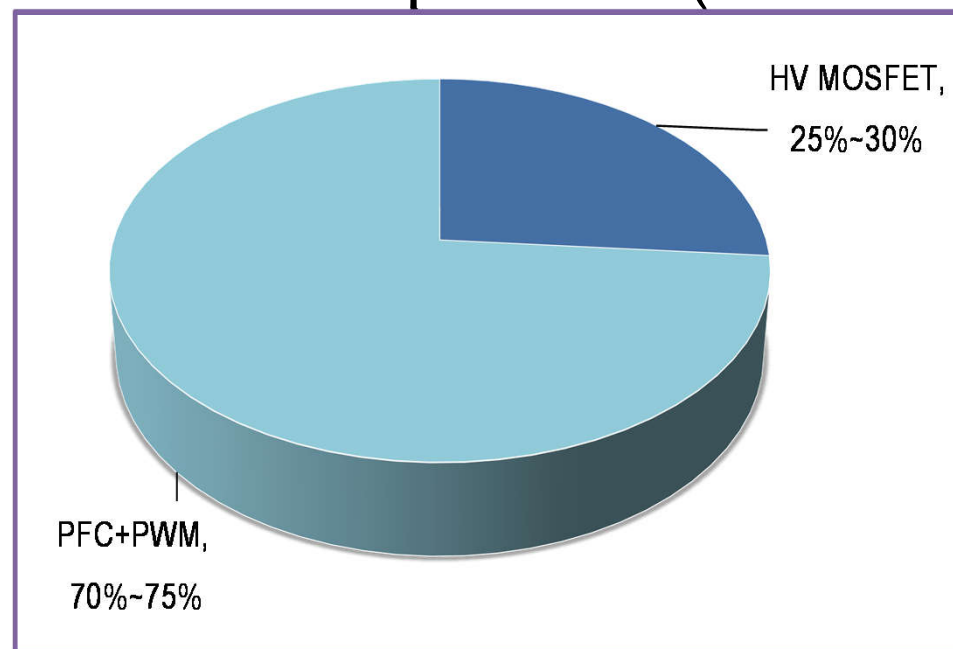
Champion Microelectronic Corp's current expected statement may be affected by risks and uncertainties, which may cause significant discrepancies between actual results and the content of the statement.

Except as required by law, Champion Microelectronic does not undertake any obligation to update any forward-looking statements regardless of whether there is new information, future events or other results.

一、Recognizing Champion Microelectronic

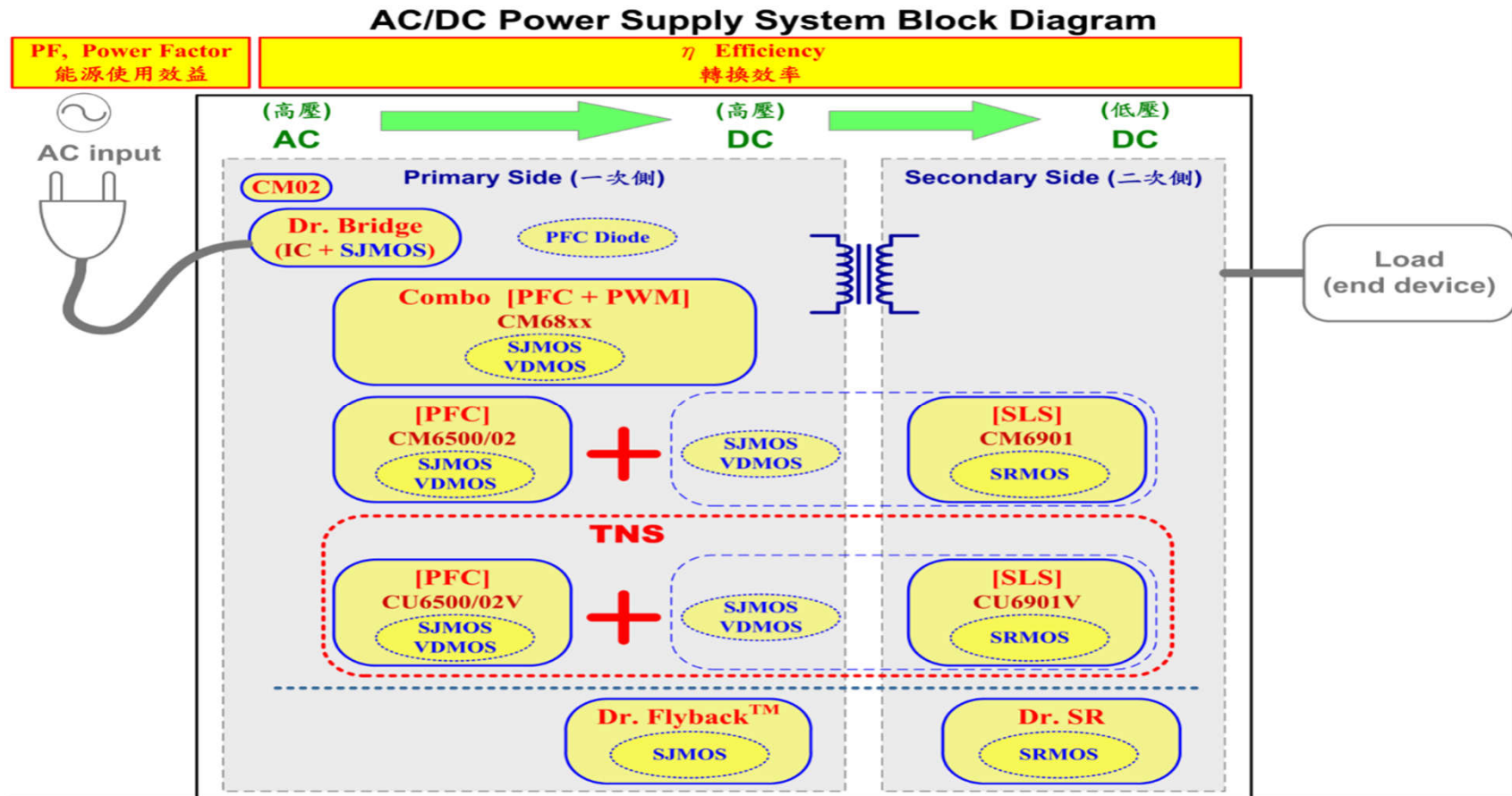
(一)、Champion Microelectronic is an analog integrated circuit design company, the main products are power integrated circuits (PFC+PWM) and high-voltage power semiconductor components (HV MOSFET)

(二)、Estimated product revenue proportion



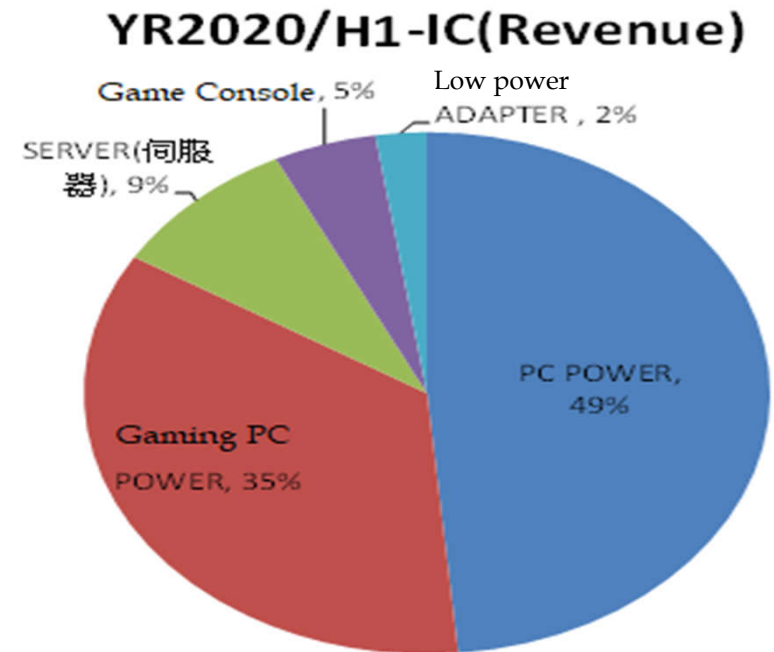
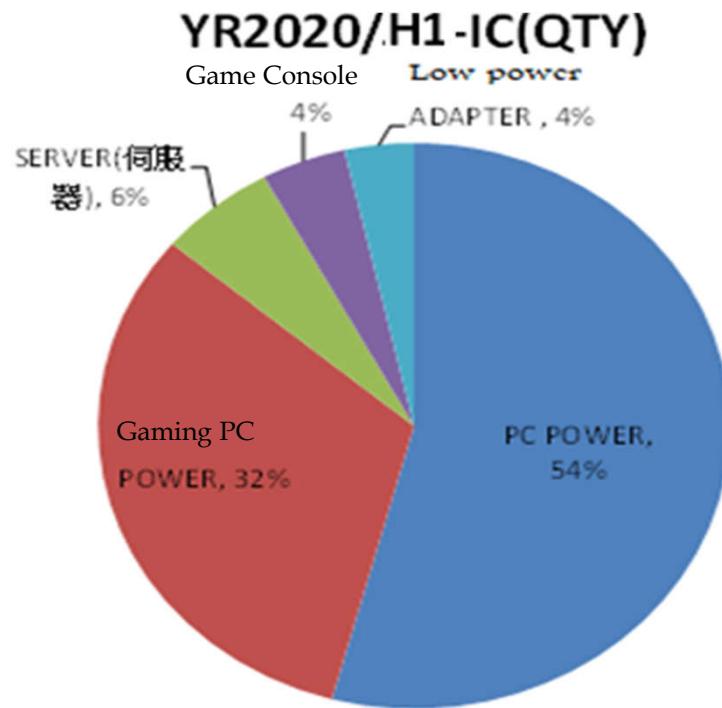
(三)、Applications:

The power supply unit (SPS) of medium and large wattage, the power supply manufacturer is the main target market



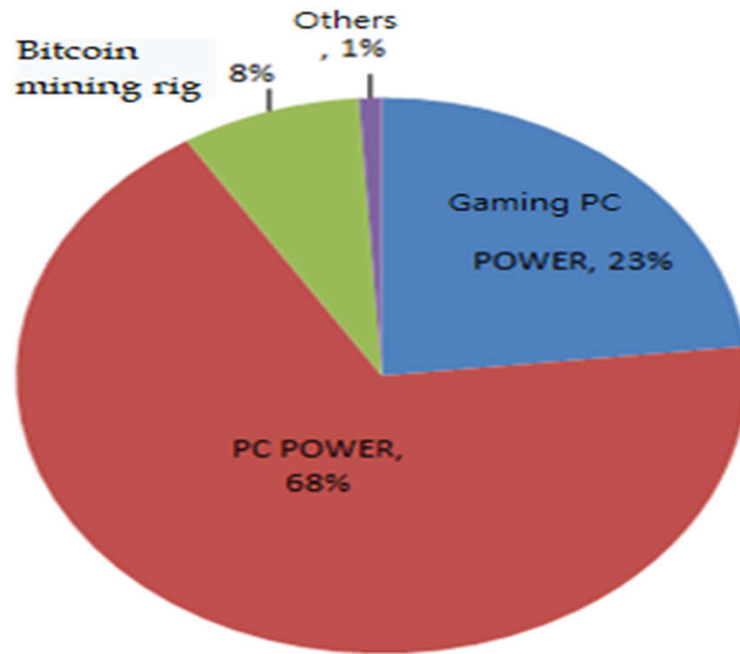
(四)、End product application:

◆Power IC

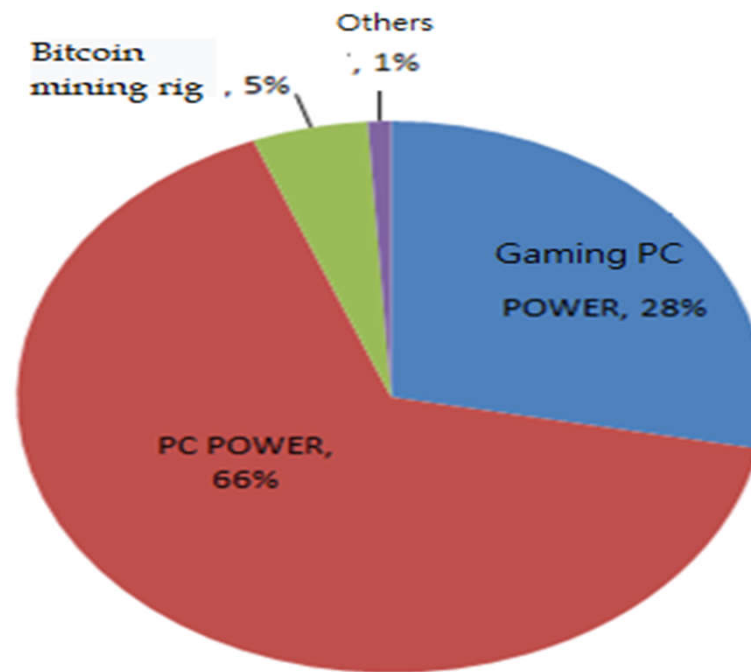


◆HV Mosfet

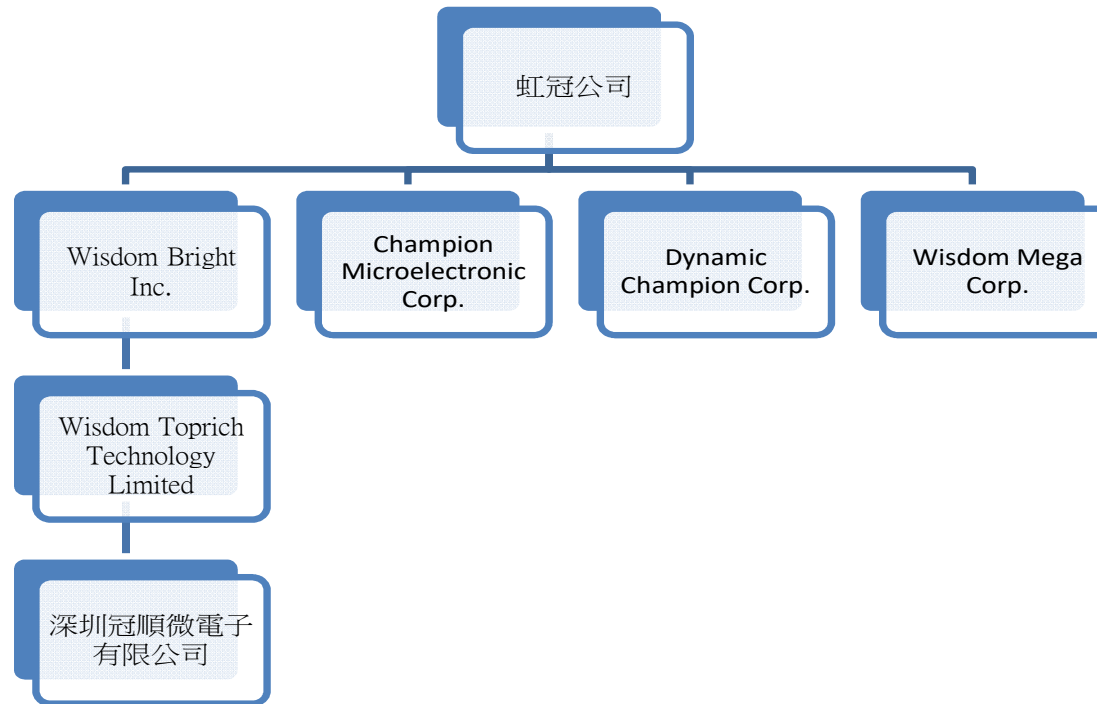
YR2020/H1-MOS(QTY)



YR2020/H1-MOS(Revenue)



(五)、Company organization chart



(六)、Consolidated Financial Report : Balance Sheet

單位:新台幣仟元

科 目	109.03.31		109.06.30	
Cash and Cash Equivalents	801,156	51%	752,369	43%
Current financial assets at amortised cost	89,750	6%	252,715	15%
Notes and Accounts Receivable(Net)	92,532	6%	155,488	9%
Inventories	191,044	12%	192,569	11%
Other Liquidity Assets	14,413	1%	14,069	0%
Total Current Assets	1,188,895	75%	1,367,210	78%
Non-current Financial Assets at Fair Value through Profit or Loss	957	0%	957	0%
Non-current financial assets at fair value through other comprehensive income	124,432	8%	124,432	7%
Non-Current financial assets at amortised cost	1,424	0%	1,699	0%
Property, plant and equipment	188,670	12%	181,612	11%
Other non-current assets	72,125	5%	72,347	4%
Total non-current assets	387,608	25%	381,047	22%
Notes and Accounts Payable(Net)	55,846	3%	75,247	4%
Other payables	61,389	4%	69,539	4%
Cash Dividends Payable	0	0%	167,935	10%
Other current liabilities	13,510	1%	78,120	4%
Total current liabilities	130,745	8%	390,841	22%
Total non-current liabilities	17,184	1%	16,960	1%
Capital Stock at Par Value	693,803	44%	693,803	39%
Common stock dividends distributable	0	0%	33,587	2%
Treasury Stock	(113,190)	-7%	(73,333)	-4%
Capital Surplus	388,573	25%	291,503	17%
Unappropriated Earnings	490,452	31%	433,030	25%
Others	(31,064)	-2%	(38,134)	-2%
Total Shareholders' Equity	1,428,574	91%	1,340,456	77%

Statement of comprehensive income

單位：新台幣仟元

科 目	2020Q1		2020Q2	
Operating Revenue	156,868	100%	243,819	100%
Operating Costs	88,027	56%	129,146	53%
Gross Profit from Operations	68,841	44%	114,673	47%
Operating Expenses	48,351	31%	61,762	25%
Net Operating Income	20,490	13%	52,911	22%
Non-Operating Income and Expenses	19,377	12%	(2,875)	-1%
Income Before Income Tax	39,867	25%	50,036	21%
Net Income	39,083	25%	43,339	18%

二、Core technologies

(一)、Energy saving

80 PLUS等級		115V Internal Non-Redundant				230V Internal Redundant			
負載程度		10%	20%	50%	100%	10%	20%	50%	100%
80 PLUS		--	80%	80%	80% / PFC .90	--	--	--	--
80 PLUS 銅牌		--	82%	85% / PFC .90	82%	--	81%	85% / PFC .90	81%
80 PLUS 銀牌		--	85%	88% / PFC .90	85%	--	85%	89% / PFC .90	85%
80 PLUS 金牌		--	87%	90% / PFC .90	87%	--	88%	92% / PFC .90	88%
80 PLUS 白金		--	90%	92% / PFC .95	89%	--	90%	94% / PFC .95	91%
80 PLUS 鈦金 ^[2]		90%	92% / PFC .95	94%	90%	90%	94% / PFC .95	96%	91%

From: Wiki 80 Plus

2019 power Saving							使用時數平均 500小時/年	Efficiency Saving	PFC 附加Saving
傳統PC	功率(W)	PFC(PF)	Efficiency	用戶 (W)	2019 出貨量 (KKPCS)	(KW)/hour(度)	(億度)/年	(億度)/年	Saving (億度)/年
	300	0.7	65%	461.5	20	0.46	46.15	10.86	0.12
Champion Solution		0.99	85%	352.9		0.35	35.29		
電競PC	功率	PFC(PF)	Efficiency	用戶 (W)	2019 出貨量 (KKPCS)	(KW)/hour(度)	Saving (億度)/年	(億度)/年	Saving (億度)/年
	600	0.7	70%	857.1	15	0.86	64.29	13.15	0.16
Champion Solution		0.99	88%	681.8		0.68	51.14		
Server 伺服器	功率	PFC(PF)	Efficiency	用戶 (W)	2019 出貨量 (KKPCS)	(KW)/hour(度)	Saving (億度)/年	(億度)/年	Saving (億度)/年
	500	0.7	75%	666.7	1.9	0.67	6.33	1.06	0.02
Champion Solution		0.99	90%	555.6		0.56	5.28		
Total Saving							Saving (億度)/年	Efficiency Saving	PFC Saving
							25.36	25.06	0.29

台電PFC Saving計算參考值 節約用電量=總用電量×[1-(改善前功因÷改善後功因)^2]×0.005。

(二)、Miniaturization

All power supply devices are pursuing the maximization of power conversion efficiency:

Highest power density and smallest volume ◦

(Small)

(Compact)

(High Density)

Comparison of Products' Specifications

			  
Application	USB-C PD	USB-C PD	USB-C PD
Solution	ACF (with GaN FET)	Dr. Flyback™ (with SJMOS)	Dr. Flyback™ (with SJMOS)
Power	45W	45W	45W
Power Density	0.78 W/cc	0.95 W/cc	0.80 W/cc [1 W/cc if no folding plug]
Dimension	71.1mm × 53.3mm × 15.2mm	62mm × 45mm × 17mm	53.7mm × 39.0mm × 26.7mm
Price	USD 25.99	-	-
Cost	-	< USD 20.00	< USD 20.00

(Small)

(Compact)

(High Density)

Comparison of Products' Specifications

			
Application	USB-A PD	USB-C PD	USB-C PD
Solution	QR (with VDMOS)	Dr. Flyback™ (with SJMOS)	Dr. Flyback™ (with SJMOS)
Power	45W	45W	45W
Power Density	0.63 W/cc	0.95 W/cc	0.80 W/cc [1 W/cc if no folding plug]
Dimension	55.5mm × 46.6mm × 27.8mm	62mm × 45mm × 17mm	53.7mm × 39.0mm × 26.7mm
Price	RMB 177.00 (JD)	-	-
Cost	-	< USD 20.00	< USD 20.00

三、Champion Microelectronic's Future Outlook

- (一)、Achieve R&D accumulation and customer accumulation on the existing platform
- (二)、Product application: From big to small

	Product name	Application	Status
Dr. Family	Dr. Flyback	Adapter Below 100W	1. Get design in & design win on brand name handset and Laptop customers 2. Starting sale on the retail market
	Dr. Bridge	SPS or Adapter with high or low power	Shipping to OBM NB and TV customers (QLED TV)
	Dr. PFC	Low-power Adapter (primary side)	Get design win on brand name NB and TV customers
	Dr. SR	Low-power Adapter (secondary side)	The product is ready and in promotion

感謝聆聽!

請多指教!

Q & A



股票代號Code:3257
<http://www.championmicro.com.tw>

