

# Investor Conferences

## Q4 2020

Sitronix Technology Corp.  
矽創電子股份有限公司  
8016: TT

***Sitronix***

# 公司簡介

公司名稱	矽創電子股份有限公司
成立日期	1998年7月
資本額	40M USD
董事長暨執行長	毛穎文 Vincent Mao
臺灣證券交易所上市	2003年12月 ( 8016 )

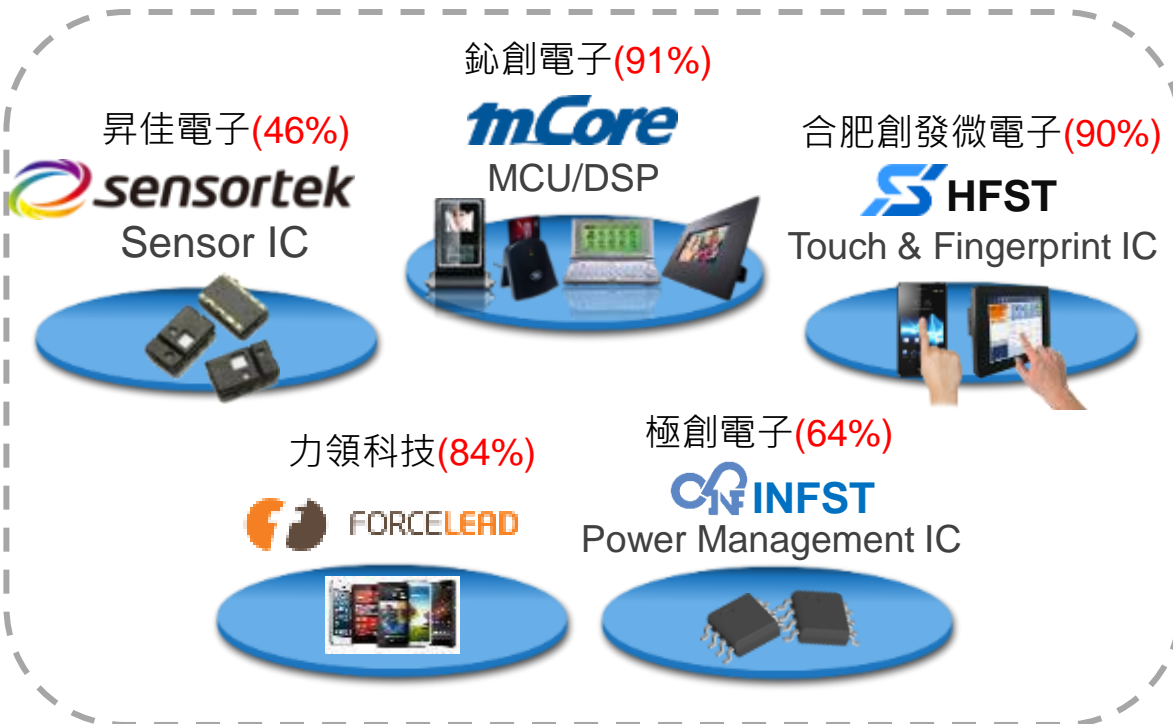


## Consolidated

矽創電子

**Sitronix**

Display Driver IC



Incubator since 2009

# 產品組合

## Mobile Displays

## Industrial & Automotive Displays

## Sensors

## SoC

**Mobile Display Driver IC**  
手機顯示器

**Automotive Display Driver IC**  
車載顯示器

**Industrial Display Driver IC**  
工控顯示器

**System on Chip (SoC) products**  
其他非顯示器 IC

Subsidiaries  
**FORCELEAD**



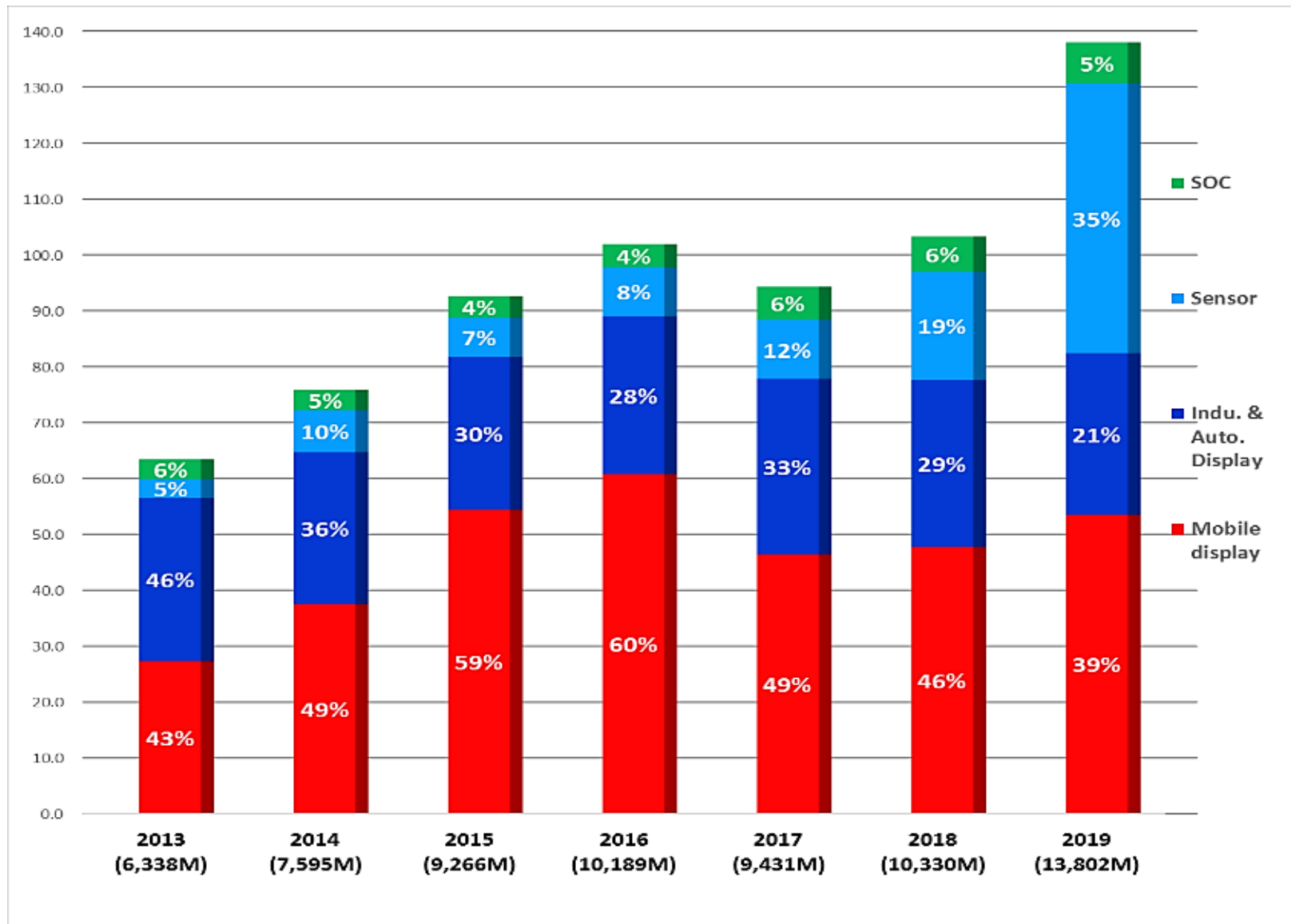
Subsidiaries  
**mCore**  
**INFST**  
**sensortek**  
**HFST**

Differentiation

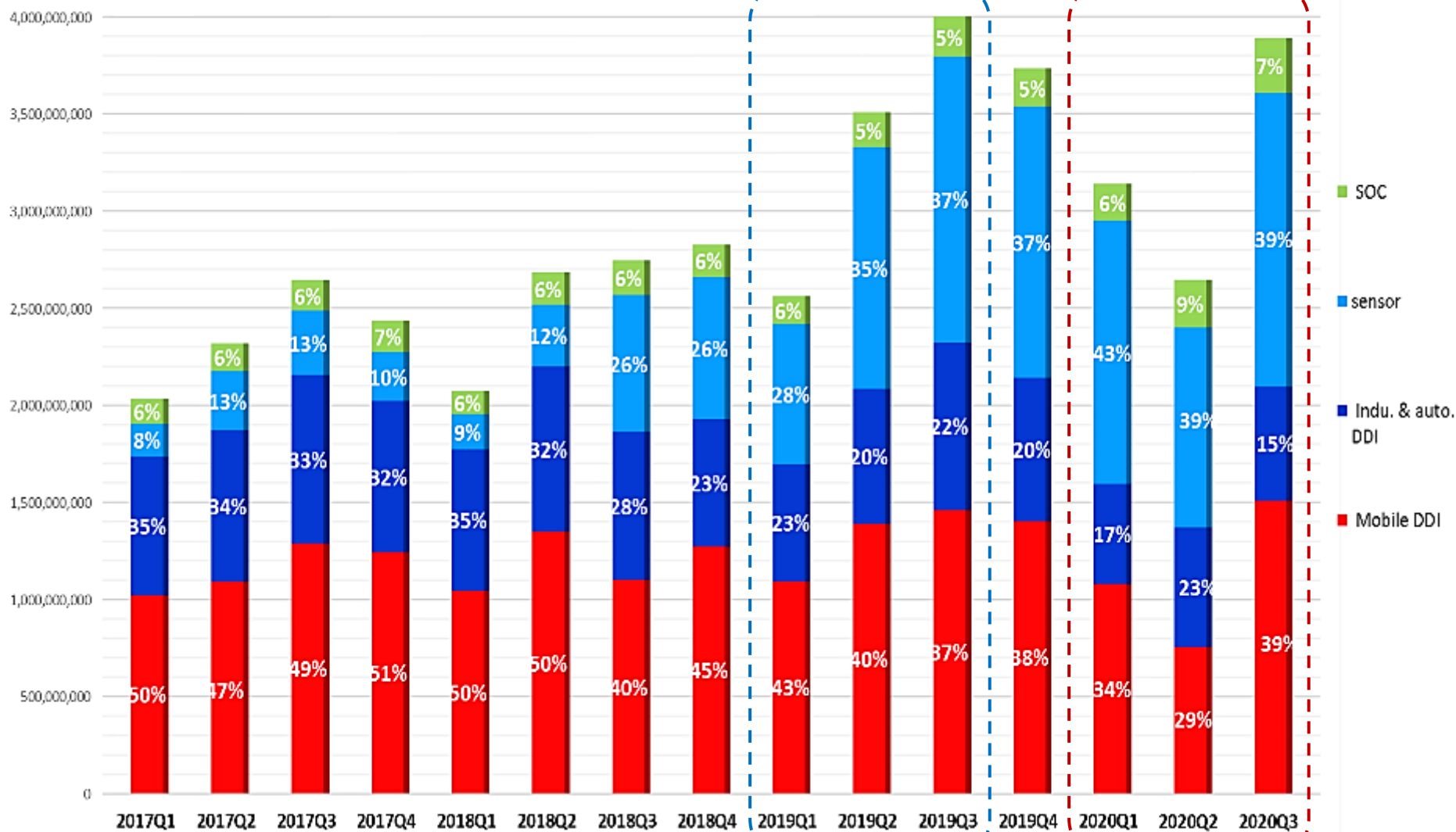
Diversification

Incubator

# 合併營收\_依產品別



# 季度合併營收\_依產品別



Unit: NTD

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# 手機顯示器驅動 ICs

## Small-sized DDIC - zeroCap

2018: ~ 500M pcs  
 2019: ~ 400M pcs  
 1Q~3Q\_2020: > 215 pcs



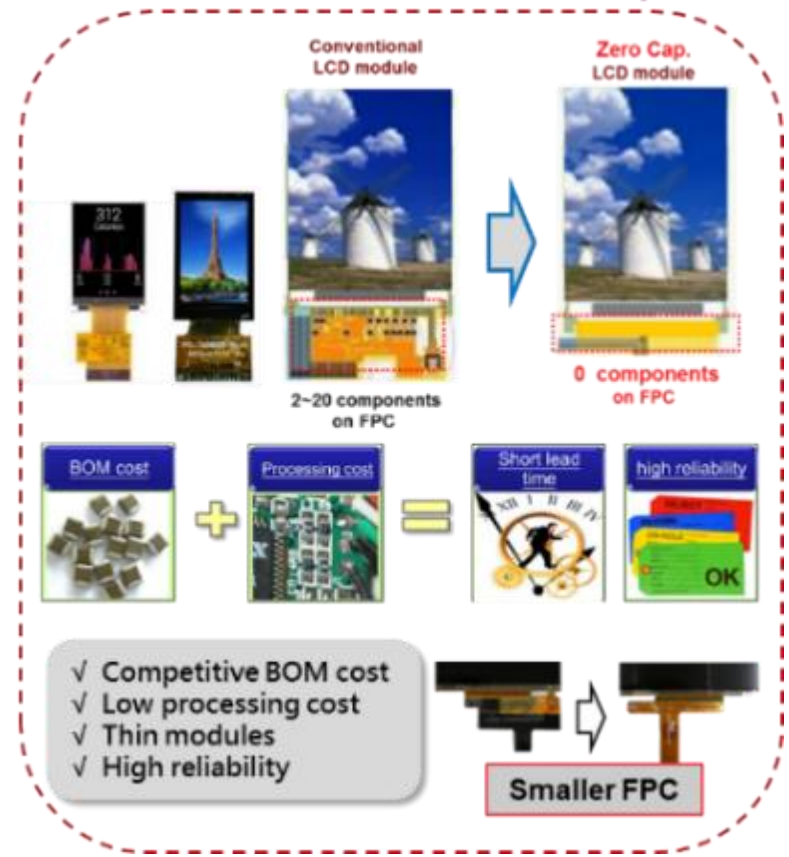
## Smartphone DDIC - zeroCap

2018: > 130M pcs  
 2019: > 250M pcs  
 1Q~3Q\_2020: > 230 pcs



## Differentiation

Sitronix's Patents



# 車載顯示器驅動 ICs

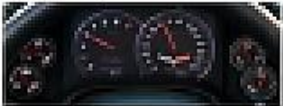
Diversification

< 6 inch displays

7 - 9 inch displays

## Instrument Cluster Display

Analog



No Display

Hybrid (Analog + Digital)



Meters

Full Digital



Virtual  
Cockpit



## Automobile Monitors



Multi-Function CSD



Display Audio



Climate Control



Twin CSDs  
Display Audio  
+  
Navigation



Rearview Mirror Display



Overhead Monitor



Dual Headrest

Segment TN

Character TN

Graphic STN

Mono TFT

Color TFT







# SOC



## 合肥創發微電子 HFST

### Touch controller & FPIC

Established - 03/22/2018  
Opening - 09/18/2018

公司名称	合肥创发微电子有限公司
成立日期	2018.03
董事长	陈儒宏
总经理	赵建源
地址	安徽省合肥市高新区创新大道2800号 创新产业园二期J2区A栋19层
网址	www.hf-st.com.cn

# Incubator

Automotive

Industrial

Wearable

Consumer



### Zero capacity

- DC LDO
- No external parts
- Smallest FPC



### Excellent EMC

- ESD
- EMI → Sinusoidal TX
- Touch & FP over 40 patents

### Consumer



### Wearable



### Industrial



### Automotive



### Noise Immunity

- Low voltage AFE
- High performance ADC
- SNR > 50dB



### High SNR

- Dynamic frequency hopping
- Dynamic threshold
- Display Sync. function

# 光學感測晶片 Optical Sensors

## Optical sensor applications :

### Proximity Sensors ( PS )

近接感測晶片 → 關屏(防誤觸)  
turn off display (Anti-touch)

### Ambient Light Sensors ( ALS )

環境光感測晶片 → 調節螢幕亮度  
screen brightness control

### Color temperature Sensors ( RGB )

色溫感測晶片 → 調節螢幕色溫  
screen color temperature control



## PS + ALS shipment

2018 : >340M pcs

2019 : >600M pcs

1Q~3Q\_2020 : > 520M pcs

## Ambient light detection series

G1. PS (w/T) + ALS (2in1 visible solution)

G2. PS (w/T) + ALS (2in1 invisible solution) **2018**

- Under-display (屏下方案) → for AMOLED displays

- Slit type (狹縫方案) → for TFT displays (w/ backlight)

## Color detection series ( flagship solution )

G3. PS (w/T) + RGB sensors (visible solution) **3Q\_2019**

(for better reading experience / 提供最佳閱讀體驗)

## Screen evolution



## PS / ALS Location

### Waterdrop Screen

狹縫(Slit) ALS/PS

狹縫(Slit) PS / 屏下 ALS

前攝旁 ALS/PS  
(Aside of Front Facing Camera)



### Bezel-less Screen

屏下(Under-display) ALS/PS

狹縫 (Slit) PS / 屏下 Under-display ALS



# 感測器之感度演進 → AMOLED 顯示器

- G1. PS (w/T) + ALS ( **visible** sensor hole solution ) **x1**
- G2. PS (w/T) + ALS ( **invisible** sensor hole solution ) → **Sensitivity x3 → x6 → x10**  
 - Under-display solution (for AMOLED displays)  
 - Slit type solution (for TFT displays w/ backlight)
- G3. PS (w/T) + **RGB** sensors ( **visible** sensor hole solution ) → **invisible solution (G4)**

水滴屏 (Teardrop-shaped)



全景屏(Full screen)



瀏海屏(Notch type)



開孔屏(Aperture type)



16:9 → 18:9 → 19:9 ...

PS & ALS upgrade due to :

1. Display resolution increase
2. PPI density increase
3. AMOLED penetration increase

... **resulted transparency decrease**

Boost ASP increase

# 微機電感測晶片 MEMS sensors

## G-sensor shipment

2018 : >30M pcs

2019 : >55M pcs

1Q~3Q\_2020 : > 52M pcs



### Accelerometers (G-sensors)

→ Rotation detection

加速度感測器 → 屏幕旋轉偵測

✓ G-sensors for smartphones

✓ Low-power G-sensors for wearable & IoT devices



# 光學感測器 + MEMS 感測器 for 穿戴式裝置 & 其他應用

Proximity sensing (距離感測)

Ambient Light sensing (環境光感測)

RGB color sensing (精準色溫感測)

UV sensor (紫外線感測)

2D / 4D gesture (2D/4D方向手勢感測)

Heartbeat detection (心律偵測)

Rotation detection (旋轉力度感測)

Click detection (敲擊偵測)

Step counter (計步偵測)

TWS ( True Wireless Stereo earphone )

Accelerometer sensor → click detection (敲擊偵測)

P-sensor → on/off switch (功能啟用開關)



FreeBuds 3

Smart watch / Fitness trackers

Accelerometer sensor → motion detection (移動偵測)

Optical sensor → heartbeat detection (心律偵測)



Gesture control



On/off control



Proximity detection  
(ELA)



Ambient dimming control  
( Smart speaker)



# 支援物聯網(IoT)相關方案



# 合併損益表

Item	Q3 2020		Q2 2020		Q1 2019		Q1-Q4 2019		Q3 2019	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	3,887,941	-	2,644,857	-	3,138,847	-	13,802,738	-	4,000,478	-
Gross Profit	1,253,220	32%	925,366	35%	1,011,677	32%	4,385,345	32%	1,280,271	32%
Operating Expense	628,945	16%	525,562	20%	569,936	18%	2,308,582	17%	630,271	16%
Net other income (expenses)	265	0%	662	0%	91,354	3%	9,663	0%	9,662	0%
Operating Income	624,540	16%	400,466	15%	533,095	17%	2,086,426	15%	659,662	16%
Income before Tax	628,840	16%	497,065	19%	549,896	17%	2,203,422	16%	693,490	17%
Net Income*	315,601	8%	291,899	11%	291,416	9%	1,230,588	9%	386,629	10%
EPS	2.63	-	2.43	-	2.43	-	10.27	-	3.22	-

Unit: NT\$ thousands (except EPS)  
Accounting standard: IFRS

\* Listed on the English translation of our financial statements as "Profit (loss), attributable to owners of parent"

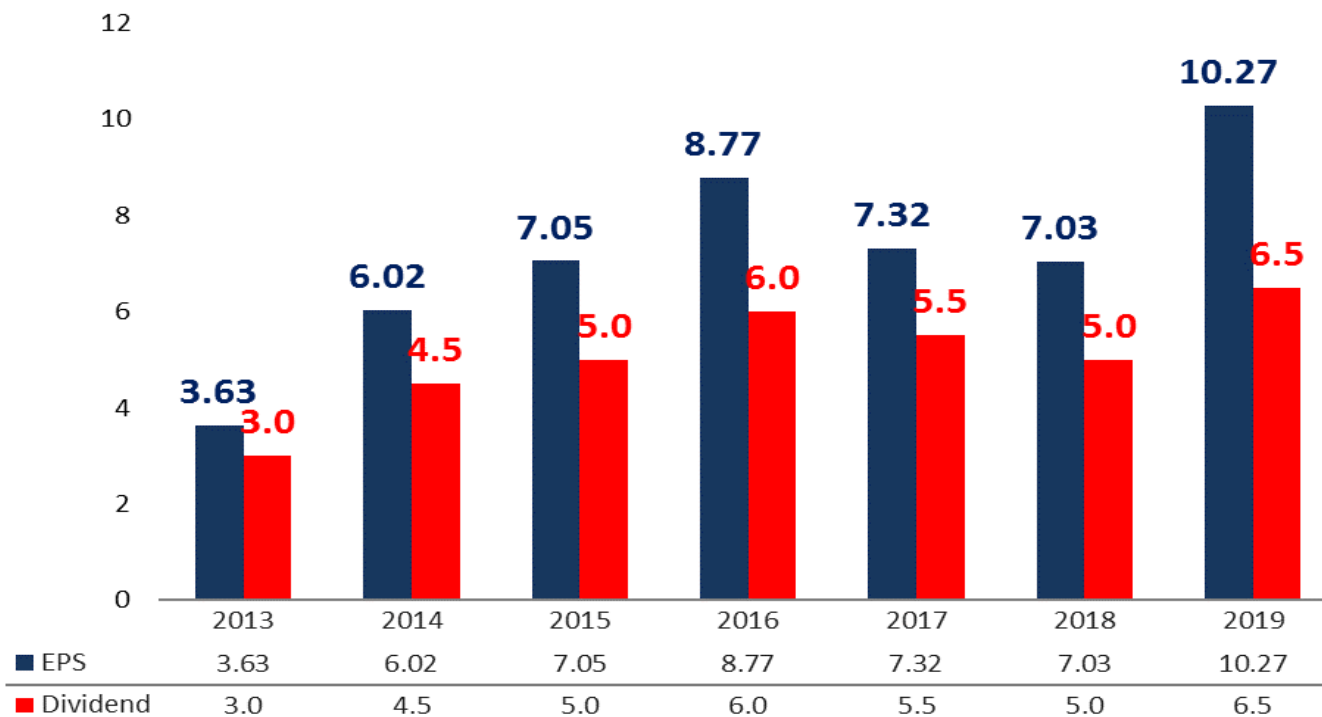
# 合併資產負債表

Item	2020/9/30	2020/6/30	2020/3/31	2019/12/31	2019/9/30
Total Assets	12,691,112	13,313,165	11,315,424	10,760,904	10,013,046
Current Assets	10,741,502	11,320,483	9,386,607	8,626,168	7,945,341
Cash & Equivalents	3,751,335	4,123,024	3,356,031	2,932,647	2,944,608
AR	1,239,710	1,103,291	1,248,372	1,398,832	1,427,273
Inventory	1,818,842	2,495,793	2,387,205	1,909,664	1,731,420
Total Liability	3,886,615	5,046,401	5,630,077	4,155,212	4,003,106
AP	1,616,864	1,411,218	2,065,666	2,085,145	2,064,045
Shareholder Eqt.	8,804,497	8,266,764	5,685,347	6,605,692	6,009,940

Unit: NT\$ thousands  
Accounting standard: IFRS



# EPS & 配息資訊



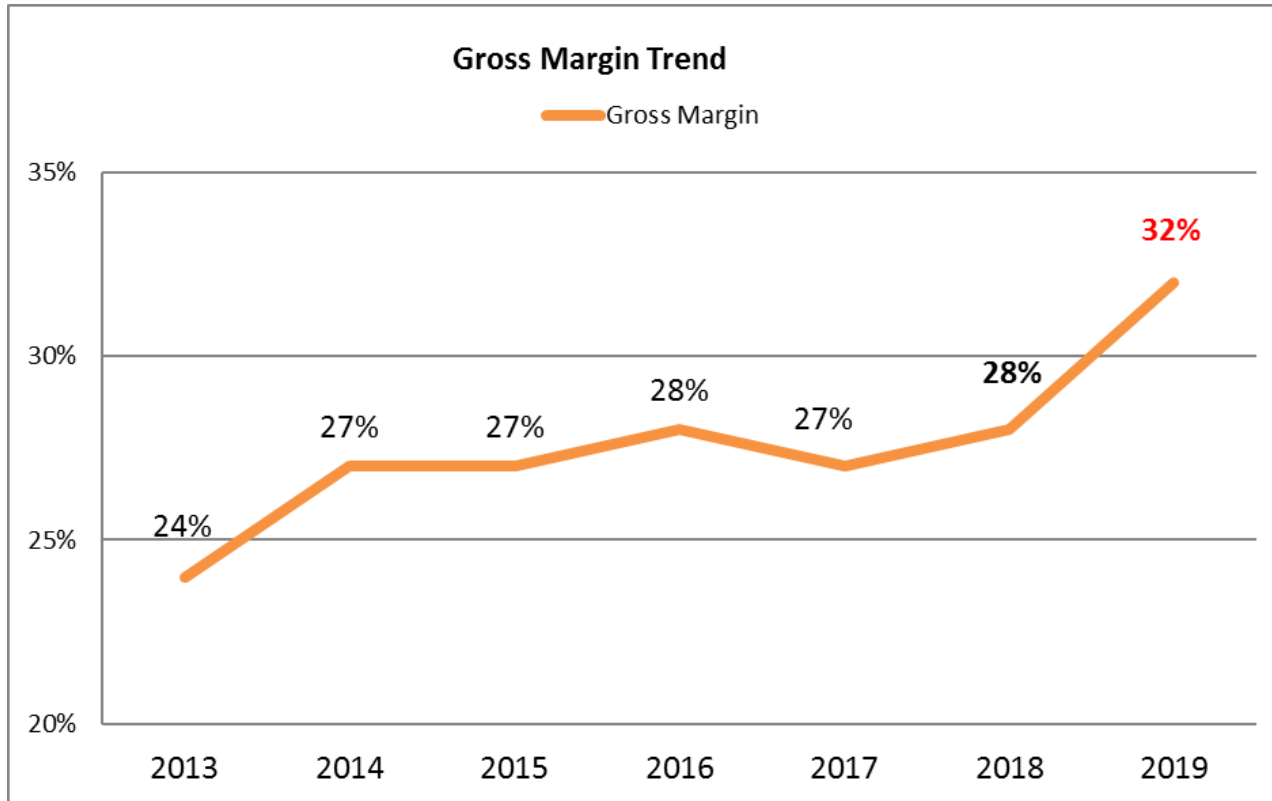
Year	Q1		Q2		Q3		Q4		Annual			1-9 YoY
	EPS	GM	EPS	GM	EPS	GM	EPS	GM	EPS	GM	Cash dividend	EPS
2020	2.43	32%	2.43	35%	2.63	32%						7.48
2019	1.70	33%	2.80	33%	3.22	32%	2.55	30%	10.27	32%	6.5	7.73
2018	1.10	24%	1.82	24%	2.37	33%	1.74	30%	7.03	28%	5.0	5.29

Unit: NT\$

Accounting standard: IFRS

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# 產品組合毛利趨勢



# We'd love to hear from you!

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**Sitronix**