

Investor Conferences Q3 2020

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

The background features a dynamic arrangement of overlapping, semi-transparent squares in various colors including purple, blue, green, and orange. These squares are scattered across the slide, with some appearing as simple outlines and others as solid blocks. Interspersed among the squares are patterns of small dots, some solid and some outlined, creating a sense of depth and movement.

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)



矽創電子

Sitronix

Display Driver IC



Consolidated

鈺創電子(91%)

mCore
MCU/DSP



合肥創發微電子(90%)

HFST
Touch & Fingerprint IC



力領科技(84%)

FORCELEAD



極創電子(64%)

INFST
Power Management IC



Incubator since 2009

產品組合

Mobile Displays

Mobile Display Driver IC
手機顯示器

Industrial & Automotive Displays

Automotive Display Driver IC
車載顯示器

Industrial Display Driver IC
工控顯示器

Sensors

SoC

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



Subsidiaries



Subsidiaries

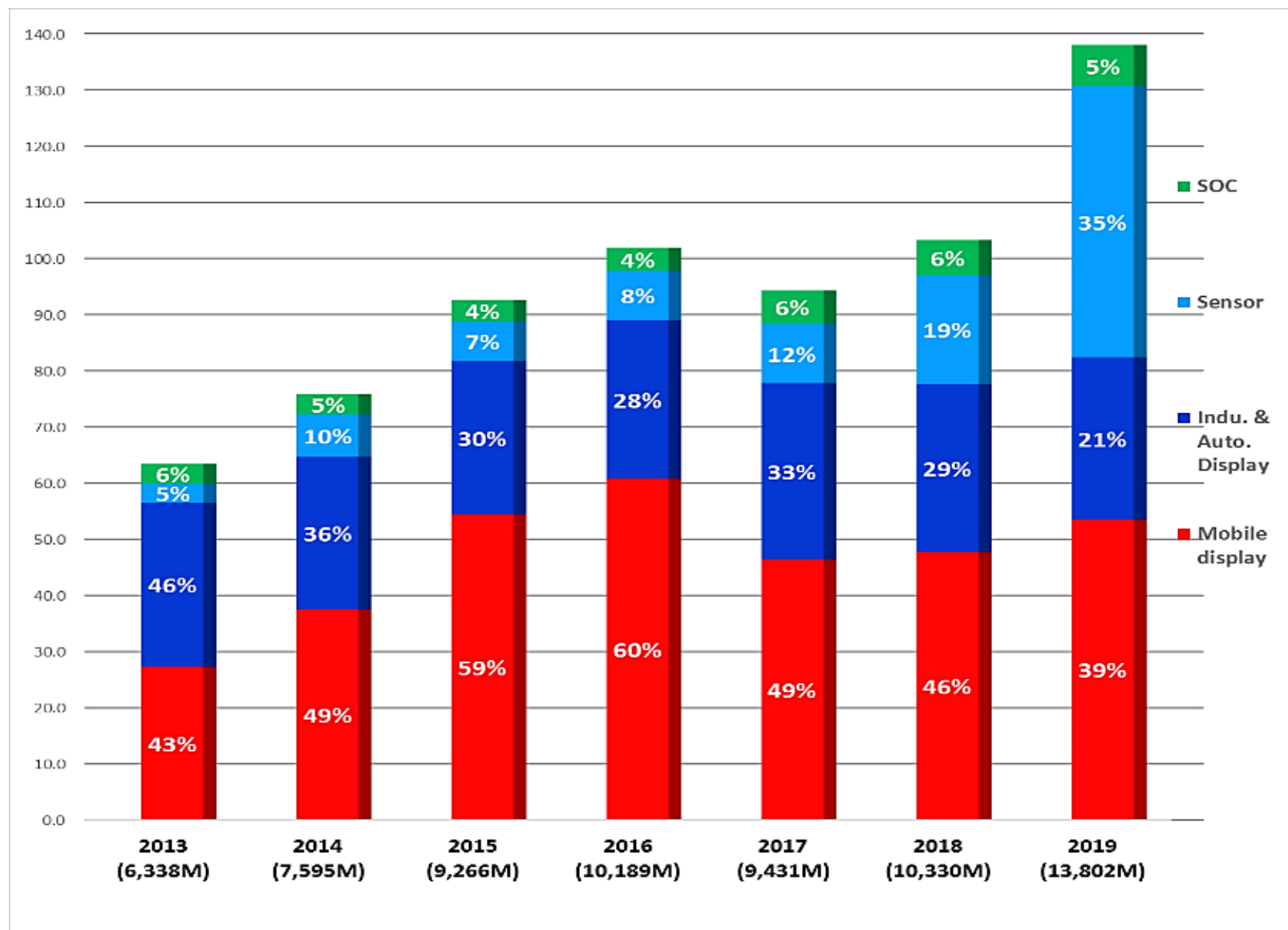


Differentiation

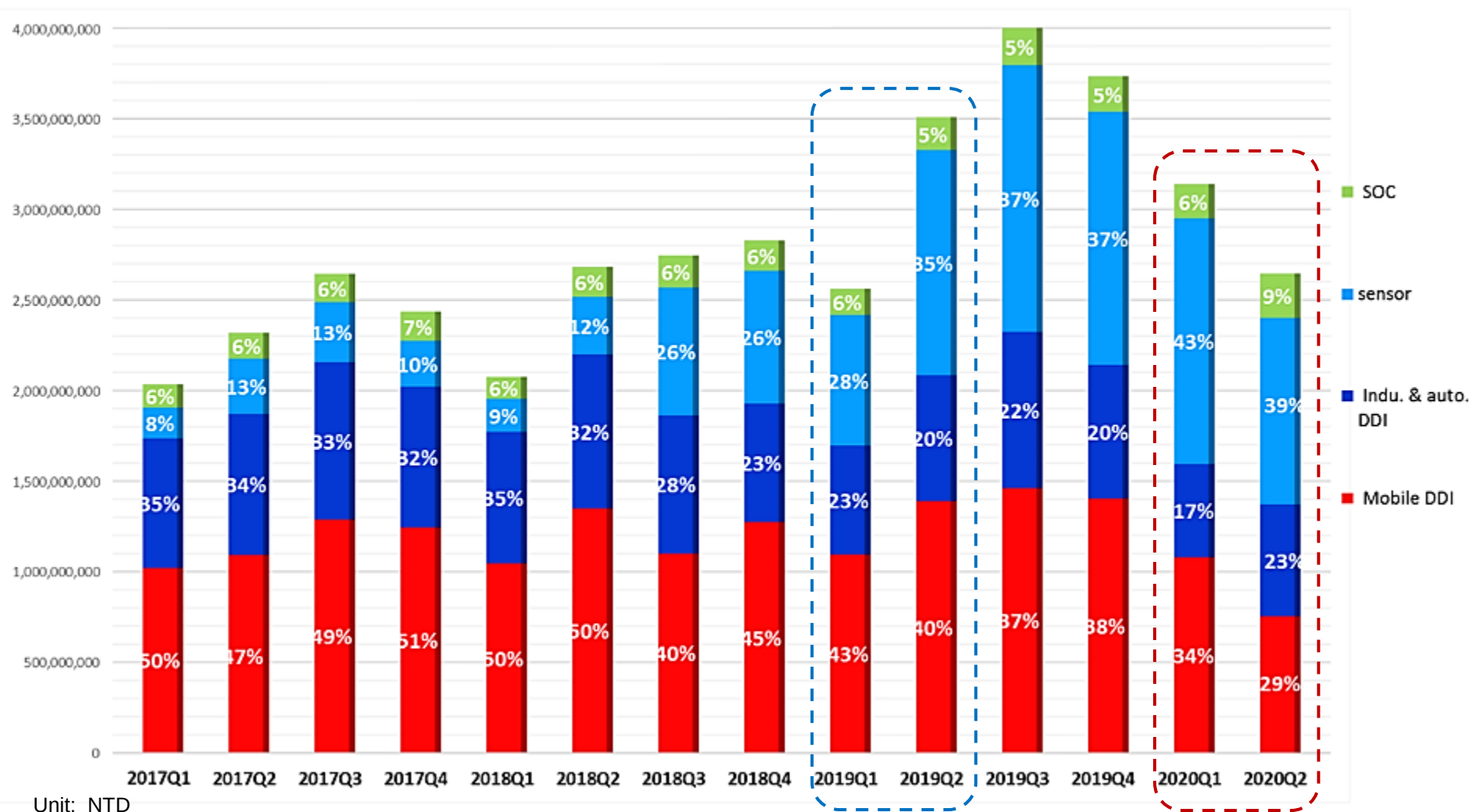
Diversification

Incubator

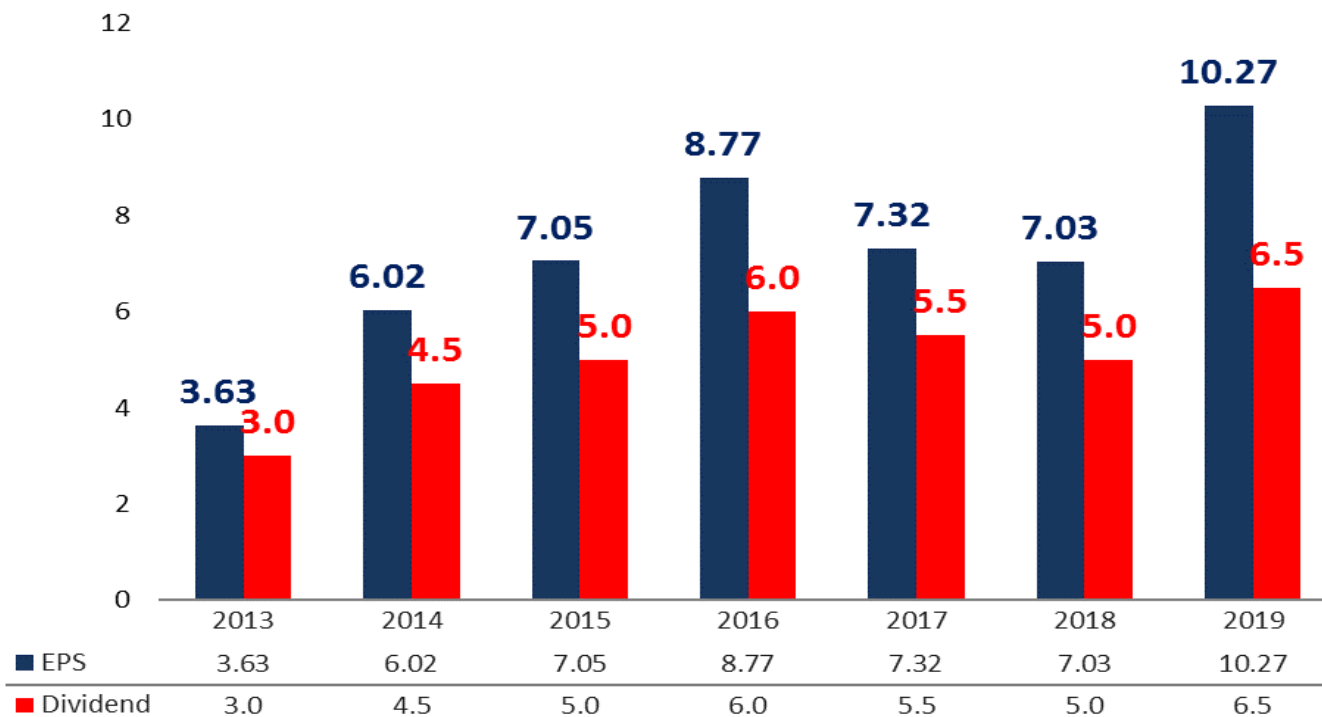
合併營收_依產品別



季度合併營收_依產品別



EPS & 配息資訊



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

手機顯示器驅動 ICs

Small-sized DDIC - zeroCap

2018: ~ 500M pcs
2019: ~ 400M pcs

4G kids' watches



Sports cams
Pocket cams

Fitness trackers



Smartphone DDIC - zerocap

2018: > 130M pcs
2019: > 200M pcs shipment growth > 50%



Smart speakers



Payment terminals



Differentiation

Sitronix's Patents



Conventional
LCD module



2-20 components
on FPC

Zero Cap.
LCD module



0 components
on FPC



- ✓ Competitive BOM cost
- ✓ Low processing cost
- ✓ Thin modules
- ✓ High reliability



Smaller FPC

車載顯示器驅動 ICs

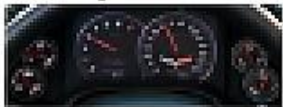
Diversification

< 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

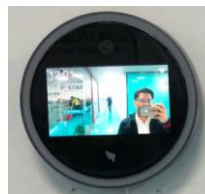
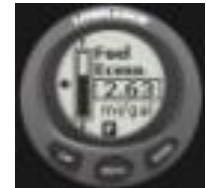
Color TFT



工控類顯示器驅動 ICs

TN / STN / mono TFT / color TFT

TN / STN / mono TFT / color TFT



Ultra Low Power a-TFT Drivers

for new applications
IoT, wearable devices, e-payment



光學感測晶片 Optical Sensors

Proximity Sensors

→ turns off the display (anti-touch)
近接感測晶片 → 關屏(防誤觸)

Ambient Light Sensors

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

RGB Sensors

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

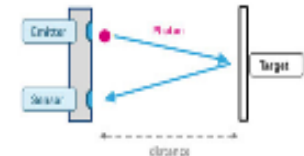
Optical sensor shipment

2017: >200M

2018: >340M

2019: >600M

- PS (w/T) + ALS visible sensor solution
- PS (w/T) + ALS invisible solution
 - ✓ Under-display solution (屏下方案) → AMOLED displays
 - ✓ Slit type (狹縫方案) → TFT displays
- PS (w/T) + RGB



16:9 screen



Bezel-less screen



ALS / PS 位置趨勢

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



微機電感測晶片 MEMS Sensors

Accelerometer Sensors (GS)

→ Rotation detection

加速度感測晶片 → 屏幕旋轉偵測

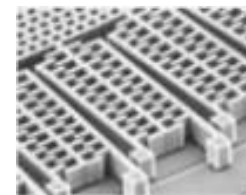


GS shipment

2017: >25M

2018: >30M

2019: >55M



✓ GS for smartphones

✓ Low-power GS for wearable & IoT devices



Screen rotation



Automatic mute



Game control



Gesture detection



Answering aid



Optical Sensors + G Sensors

穿戴裝置 與其他應用

True Wireless Stereo (TWS) earphones

Accelerometer sensor → click detection

P-sensor → on/off switch



敲擊偵測 (Click detection)

- 有來電時 (Incoming call)
 - 單擊接聽 (Click to answer)
 - 雙擊拒接 (Double click to reject)
- 無來電時 (None call)
 - 啟動 AI 助手 (Start AI Assistant)
- 音樂播放 (Music model)
 - 單擊暫停 (Click pause)
 - 雙擊換曲 (Double click change)

Smart watches & fitness trackers

Accelerometer sensor → motion detection

Optical sensor → heartbeat detection



抬手亮屏 / 動態心率輔助
Heartbeat detection



睡眠偵測 / 久坐提醒
Sleep quality monitoring



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



Noise Immunity

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

High SNR

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

Consumer



Wearable



Industrial



Automotive



支援物聯網(IoT)相關方案



合併損益表

Item	Q2 20		Q1 20		2019		Q4 19		Q3 19		Q2 19		Q1 19	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	2,644,857	-	3,138,847	-	13,802,738	-	3,732,936	-	4,000,478	-	3,507,731	-	2,561,593	-
Gross Profit	925,366	35%	1,011,677	32%	4,385,345	32%	1,123,077	30%	1,280,271	32%	1,145,255	33%	836,742	33%
Operating Expense	525,562	20%	569,936	18%	2,308,582	17%	580,831	16%	630,271	16%	575,125	17%	522,355	21%
Net other income (expenses)	662	0%	91,354	3%	9,663	0%	1	0%	9,662	0%				
Operating Income	400,466	15%	533,095	17%	2,086,426	15%	542,247	15%	659,662	16%	570,130	16%	314,387	12%
Income before Tax	497,065	19%	549,896	17%	2,203,422	16%	570,358	15%	693,490	17%	600,897	17%	338,677	13%
Net Income*	291,899	11%	291,416	9%	1,230,588	9%	305,616	8%	386,629	10%	334,950	9%	203,393	8%
EPS	2.43	-	2.43	-	10.27	-	2.55	-	3.22	-	2.80	-	1.70	-

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"

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合併資產負債表

Item	2020/6/30	2020/3/31	2019/12/31	2019/9/30	2019/6/30
Total Assets	13,313,165	11,315,424	10,760,904	10,013,046	9,574,510
Current Assets	11,320,483	9,386,607	8,626,168	7,945,341	7,469,564
Cash & Equivalents	4,123,024	3,356,031	2,932,647	2,944,608	2,421,768
AR	1,103,291	1,248,372	1,398,832	1,427,273	1,544,322
Inventory	2,495,793	2,387,205	1,909,664	1,731,420	1,832,545
Total Liability	5,046,401	5,630,077	4,155,212	4,003,106	3,970,689
AP	1,411,218	2,065,666	2,085,145	2,064,045	1,741,286
Shareholder Eqt.	8,266,764	5,685,347	6,605,692	6,009,940	5,603,821

Unit: NT\$ thousands
Accounting standard: IFRS

We'd love to hear from you !

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Lighting up your life.

Sitronix