

# Investor Conferences

4Q 2021

Sitronix Technology Corp.

矽創電子股份有限公司

8016: TT

**Sitronix**

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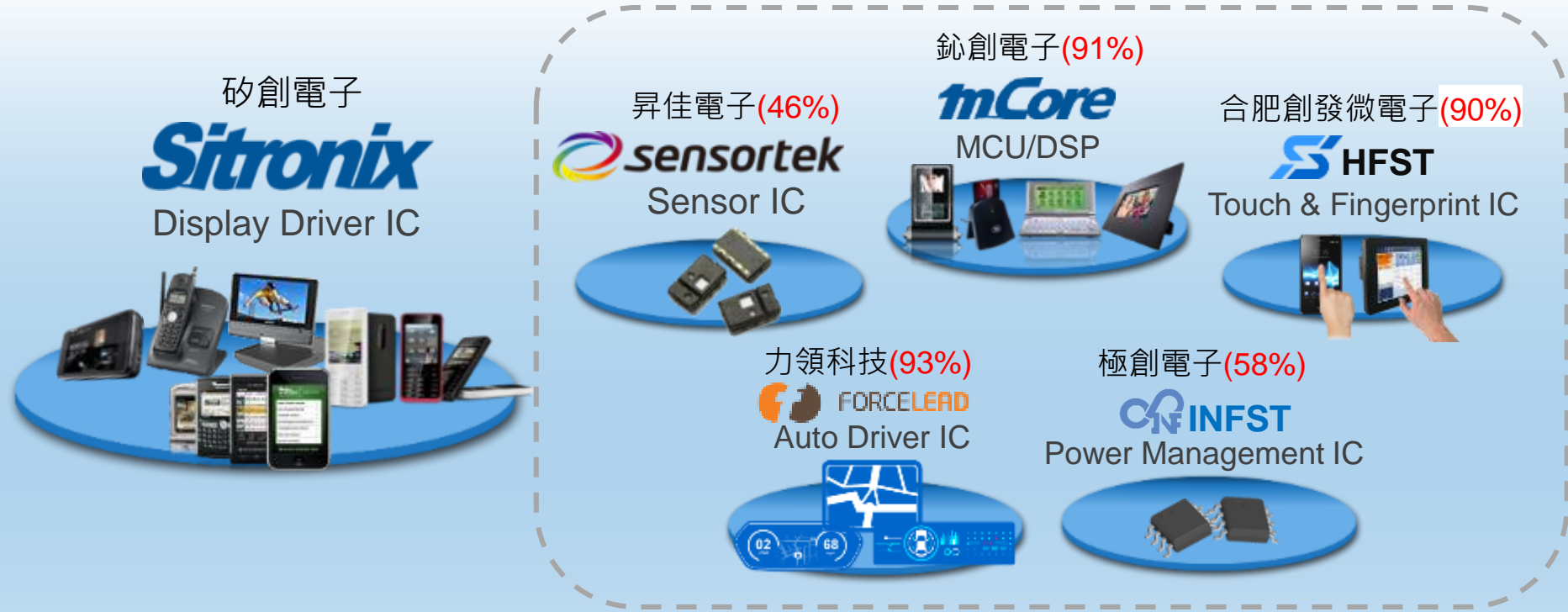
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# About Sitronix

Company Name	Sitronix Technology Corp.
Established	July 9, 1998
Capitalization	USD 40 million
Chairman and CEO	Vincent Mao
IPO Listing	December 25, 2003 (8016)



## Consolidated



Incubator since 2009

# Product Portfolio

Mobile Device Display Driver IC



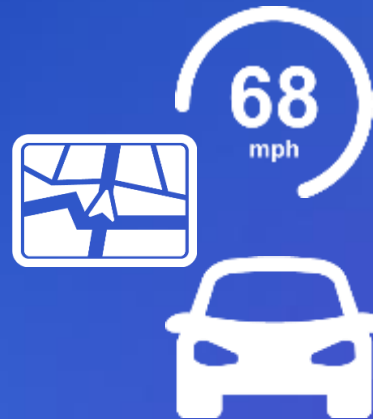
*Sitronix*

Differentiation

Industrial Display Driver IC



Automotive Display Driver IC



Subsidiaries



Incubator

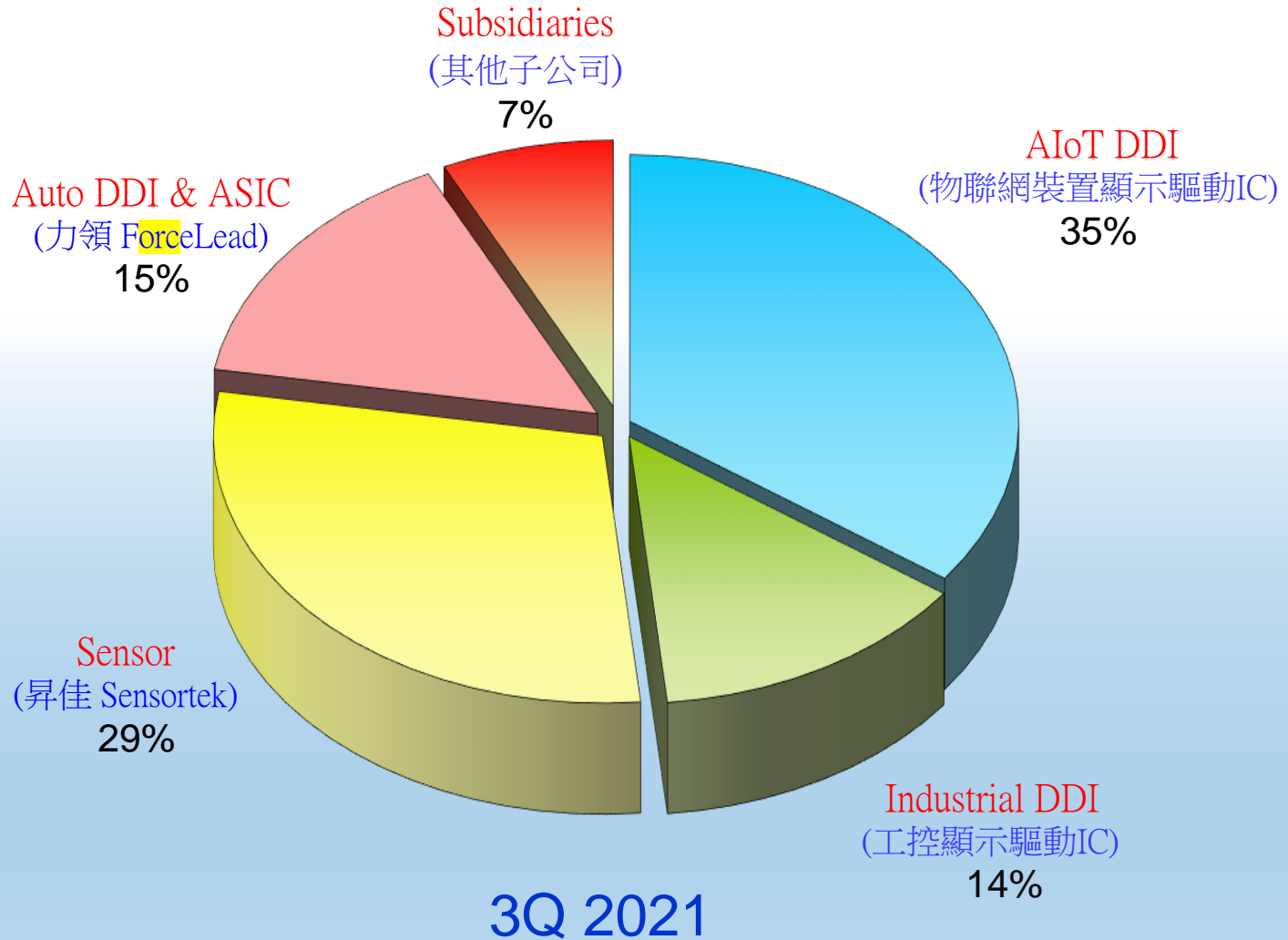
Sensor & SoC (System on chip)



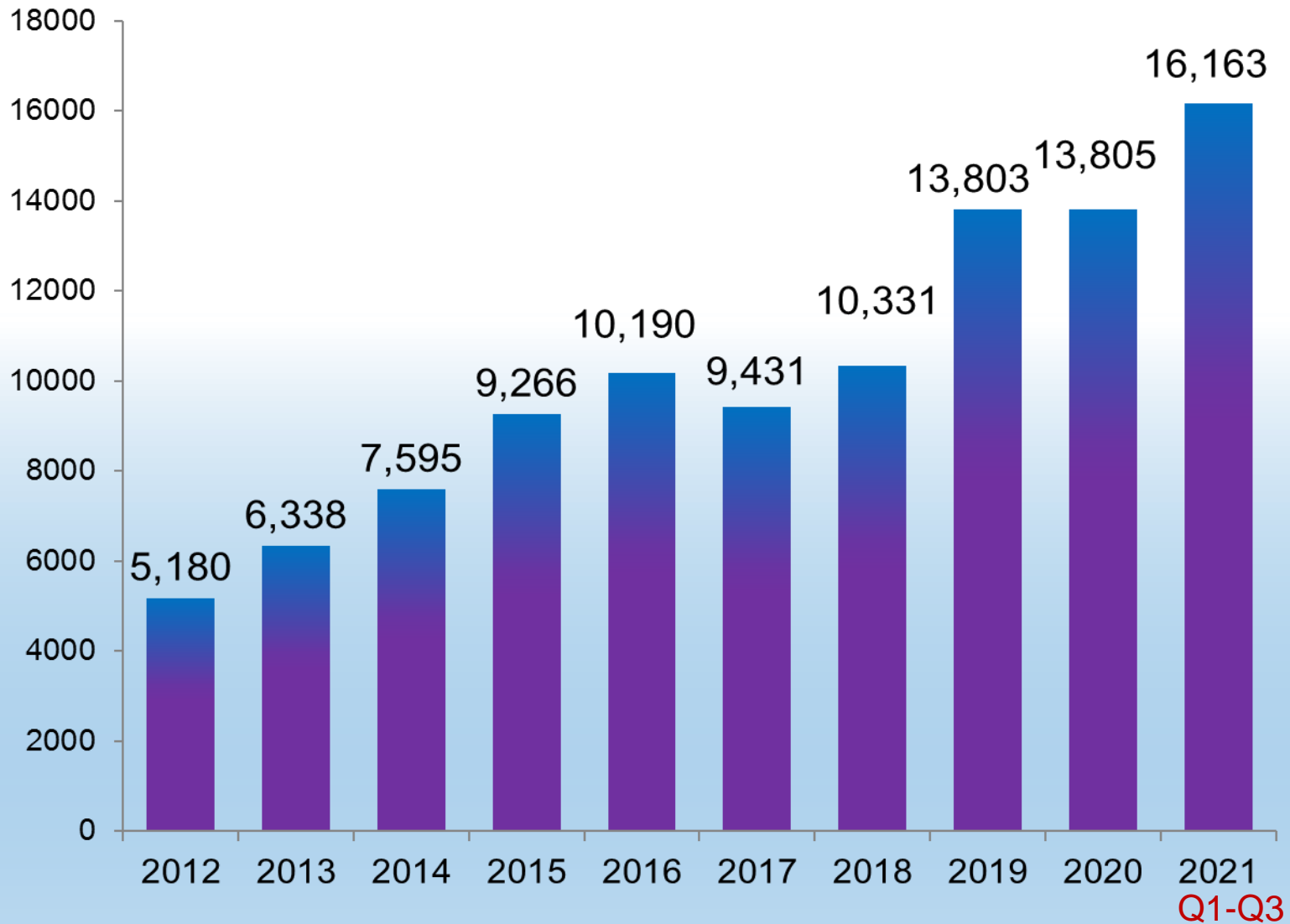
Subsidiaries



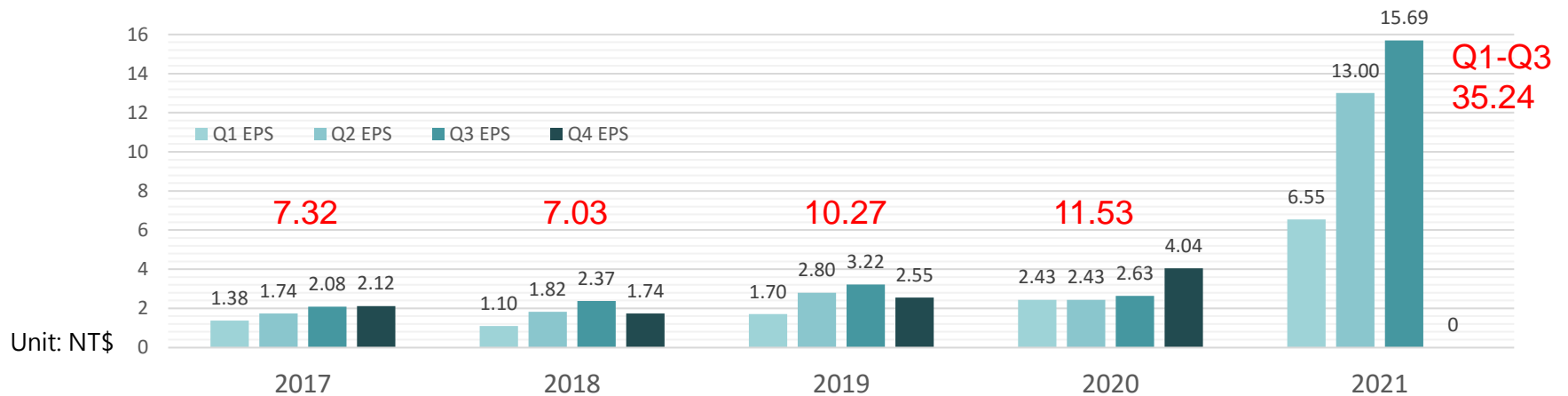
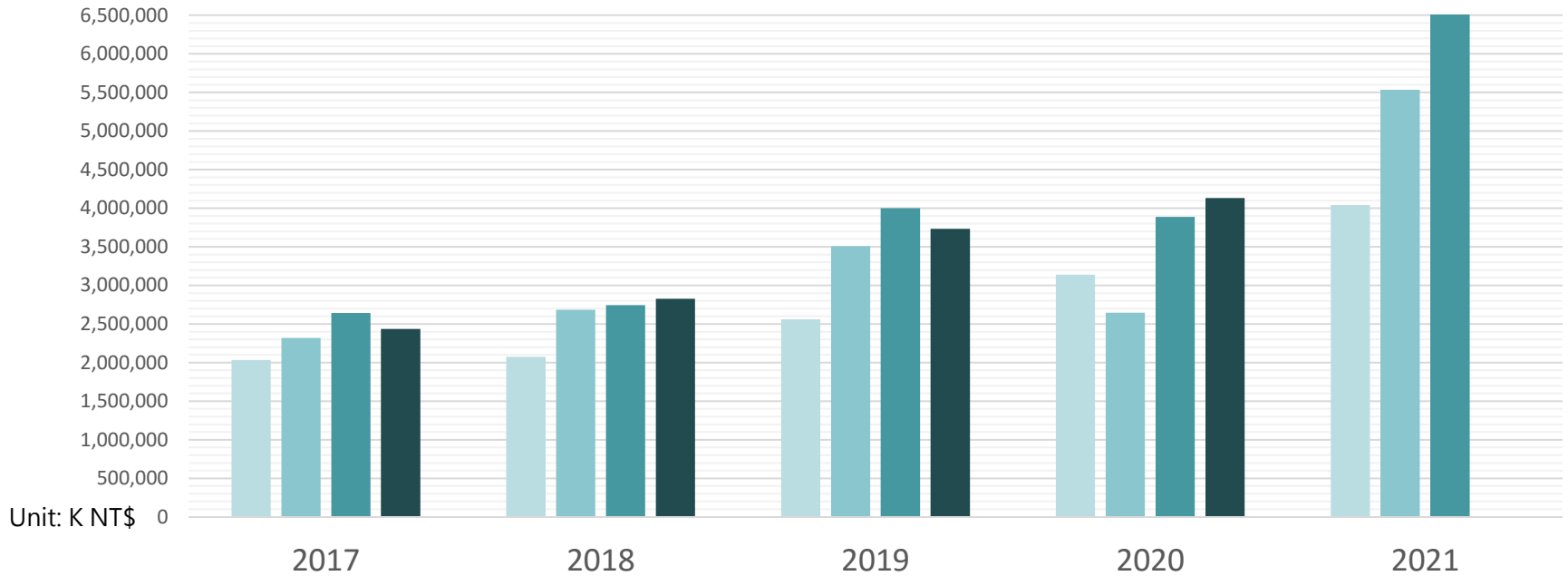
# Product Mix



# Sitronix Group Revenue



# Quarterly Revenue & EPS



# 8016 Consolidated Income Statement

Item	Q3 21		Q1-Q3 21		Q2 21		Q1 21		Q1-Q4 20		Q3 20	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	6,585,814	-	16,162,970	-	5,534,516	-	4,042,640	-	13,804,562	-	3,887,941	-
Gross Profit	3,799,273	58%	8,852,829	55%	3,146,831	57%	1,906,725	47%	4,785,825	34%	1,253,220	32%
Operating Expense	1,216,581	19%	3,044,331	19%	1,058,320	19%	769,430	19%	2,495,301	18%	628,945	16%
Operating Income	2,584,478	39%	5,816,665	36%	2,094,621	38%	1,137,566	28%	2,383,048	17%	624,540	16%
Income before Tax	2,649,223	40%	5,950,672	37%	2,144,026	39%	1,157,423	29%	2,523,626	18%	628,840	16%
Net Income*	1,883,701	29%	4,230,425	26%	1,560,121	28%	786,603	19%	1,384,818	10%	315,601	8%
EPS	15.69	-	35.24	-	13.00	-	6.55	-	11.53	-	2.63	-

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"



# 8016 Consolidated Balance Sheet

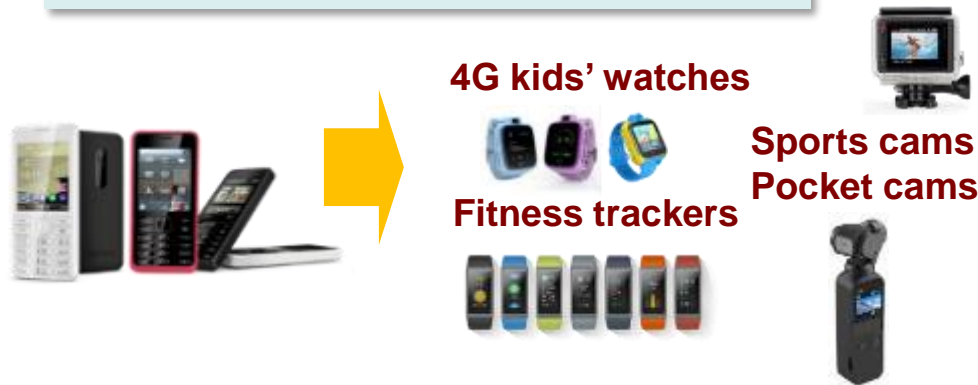
Item	2021/9/30	2021/6/30	2021/3/31	2020/12/31	2020/9/30
<b>Total Assets</b>	19,949,309	18,007,392	15,205,696	13,816,160	12,691,112
<b>Current Assets</b>	16,051,297	14,619,722	12,168,616	11,544,737	10,741,502
<b>Cash &amp; Equivalents</b>	7,951,964	8,189,048	5,352,063	5,586,541	3,751,335
<b>AR</b>	1,902,991	1,652,183	1,335,828	1,378,563	1,239,710
<b>Inventory</b>	1,995,865	1,980,952	1,778,865	1,543,734	1,818,842
<b>Total Liability</b>	6,968,459	7,263,450	6,341,128	4,537,083	3,886,615
<b>AP</b>	2,291,092	2,089,573	1,965,114	1,893,923	1,616,864
<b>Shareholder Eqt.</b>	12,980,850	10,743,942	8,864,568	9,279,077	8,804,497

Unit: NT\$ thousands  
Accounting standard: IFRS

# AIoT Device Display Driver IC

## Small-sized DDIC (1-3 inch displays)

2018: 500M pcs  
2019: 400M pcs  
2020: 300M pcs

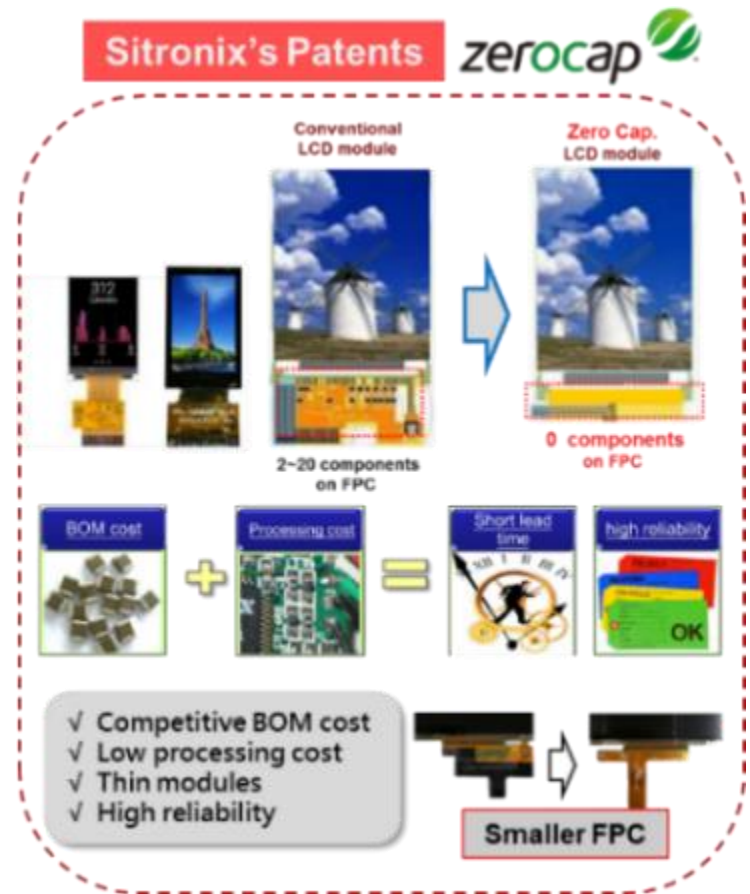


## Mid-sized DDIC (4-6 inch displays)

2018: > 130M pcs  
2019: > 250M pcs  
2020: > 320M pcs



## Differentiation



# AIoT applications

## Tablet & Touch & POS & industrial

- WXGA Tablet
- HD Tablet
- FHD Tablet



## Work From Home

- Projector
- Printer
- Sound Station



## Wearable

- QQVGA for Band
- QVGA for Watch
- OLED for Band & Watch

## Outdoor & Automotive

- Sport Cams
- Navigator
- Aerial camera
- CSD / HUD
- E-mirror
- Cluster / Knob



## Medical

- WVGA for Monitor
- Portable Medical
- QQVGA for thermometer



## Smart Home

- WVGA for Echo
- QVGA for Door lock
- FHD Tablet



# AIoT applications

## Appendix

智慧音新 smart speakers



## Appendix

行車紀錄器 dashcams



## Appendix

移动 POS 器具 payment terminal



移动扫描PDA用于仓储进出管理 etc warehouse barcode scanners



## Appendix

门禁终端, 可视门铃, 电子锁 smart door locks



考勤机 employee time clock systems



宝宝监视器 baby monitors

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# Industrial Display Driver ICs

Diversification

TN / STN / mono TFT / color TFT



**Ultra Low Power a-TFT Drivers**  
for new applications  
IoT, wearable devices, e-payment...

Wearable Devices



# Auto Display Driver ICs

< 6 inch displays

7 - 9 inch displays

Diversification

### Instrument Cluster Display

- Analog No Display
- Hybrid (Analog + Digital) Meters
- Full Digital Virtual Cockpit



### Automobile Monitors

- Multi-Function CSD
- Display Audio
- Climate Control
- Rearview Mirror Display
- Overhead Monitor
- Twin CSDs Display Audio + Navigation
- Dual Headrest

- Segment TN
- Character TN
- Graphic STN
- Mono TFT
- Color TFT



# Optical Sensors 光學感測晶片

## Optical sensor for displays :

### Proximity Sensors (PS)

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

### Ambient Light Sensors (ALS)

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

G1: PS + ALS 2-in-1 visible solution (2010)

G2: PS + ALS 2-in-1 invisible solution (2018)

- Under-display 屏下方方案 for AMOLED displays
- Slit type 狹縫方案 for TFT displays

### Color temperature Sensors (RGB)

色溫感測晶片 → 調節螢幕色溫

... screen color temperature control

G3: PS + RGB sensors (2019)

G4: PS + RGB sensors (2021)

- Slit type & under display
- for better reading experience



## PS + ALS shipment

2018 : >340M pcs  
2019 : >650M pcs  
2020 : >720M pcs



### 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



# Optical Sensors 光學感測晶片

## Optical sensor for Cameras :

### 3ch RGB sensor

色溫感測晶片 → 協助後相機白平衡校正  
white balance correction (2021)

### Flicker detection sensors

閃頻偵測晶片 → 協助消除光源物理閃爍  
Flicker detection (2021)

## 3ch RGB + flicker shipment

2020 : 0

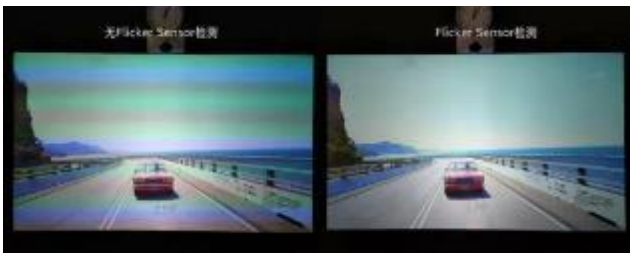
2021 : Stay Tuned



### 3ch RGB sensor :

Camera RGB sensors are used for **white balance correction**. Different light sources come with different color temperatures, which can create unrealistic color casts in photos. White balance is the process of removing such color casts so that objects that appear white in person are rendered white in the photo..

環境中充斥著各種不同的光線，這些光線有著不同的色溫，因此手機數位相機在進行拍照時，需要對這些光線進行校正，才能呈現出正常的白色。依據 RGB 色溫感測器、影像感測器所測量的色溫來自動校正調整白平衡。



### Flicker detection sensors :

Detects the 50 Hz or 60 Hz flickers produced by incandescent or fluorescent lights. Helps eliminate the streaks and distortion effects caused by the flickering.

用於檢測環境中由白熾燈或螢光燈所產生的50Hz或60Hz光源物理閃爍。協助手機攝像頭之圖像系統能夠消除人造光源的閃爍而出現的條紋和失真效果。

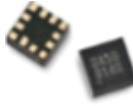


# MEMS sensors 微機電感測晶片



## G-sensor shipment

2018 : >30M pcs  
 2019 : >55M pcs  
 2020 : >80M 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

MOTION  
DETECTION

屏幕旋轉  
Screen rotation

自動靜音  
Automatic mute

遊戲  
Game control

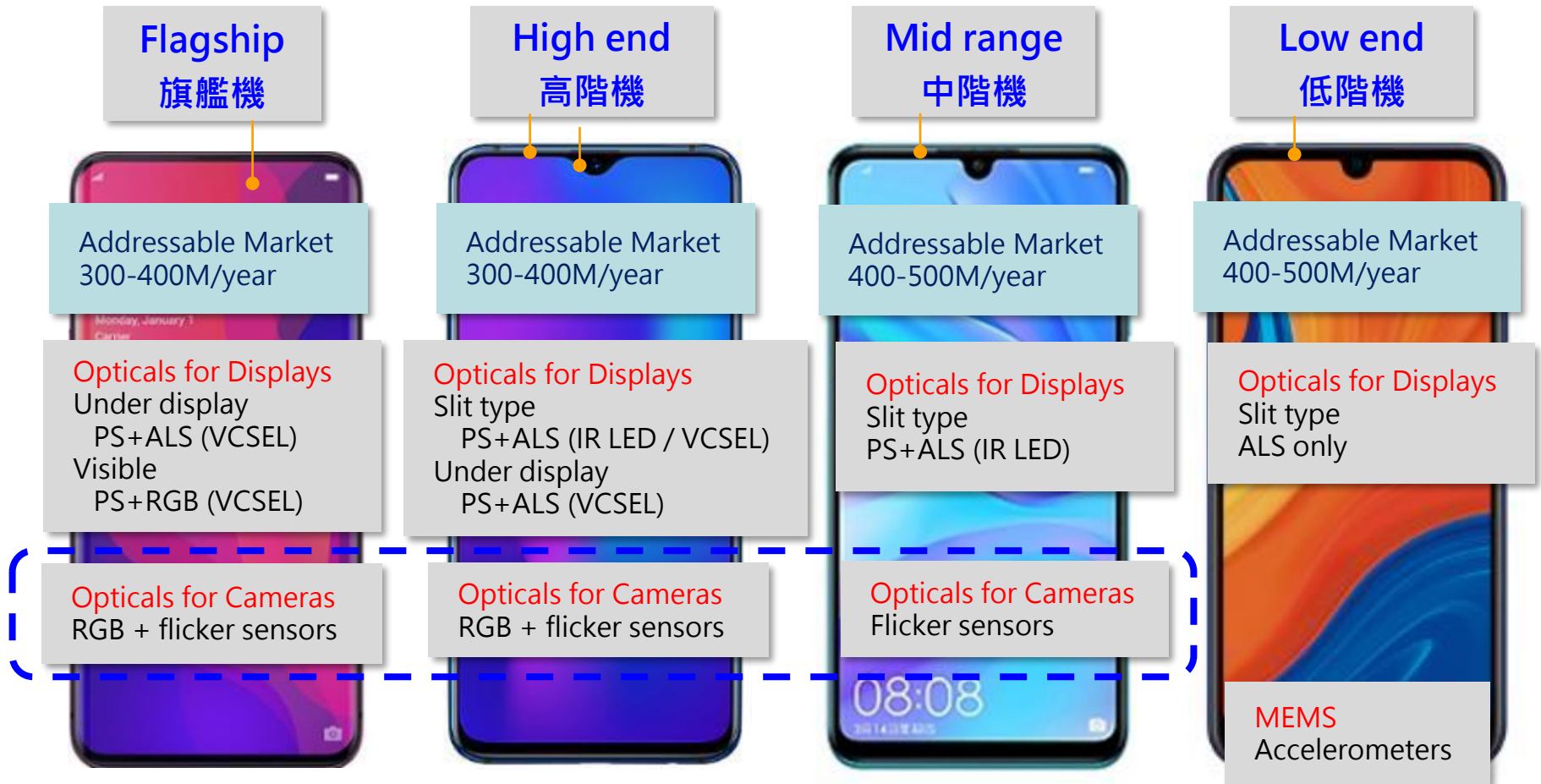
手勢偵測  
Gesture detection

接聽輔助  
Answering aid

# Before 2020

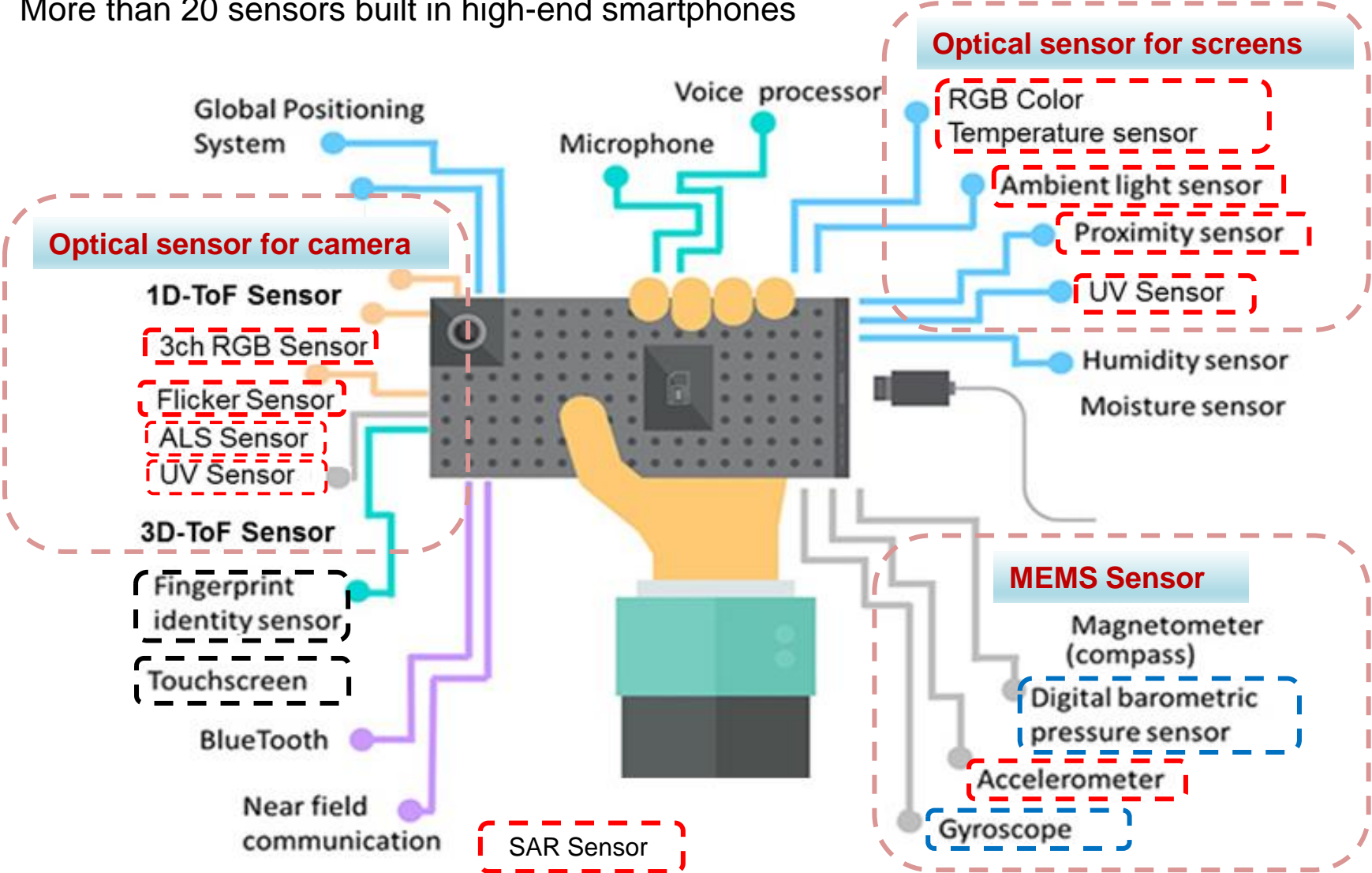


# 2021: Three Smartphone sensors



# Stay Tuned

More than 20 sensors built in high-end smartphones

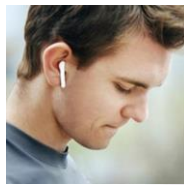


# Wearable Devices : DDI + Optical + MEMS + Touch IC

## True wireless stereo (TWS) earbuds

Accelerometers → click detection 敲擊偵測

Proximity sensors → on/off switch 功能啟用開關



### 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
- 音樂播放 Music mode  
單擊暫停 Click to pause  
雙擊換曲 Double click to switch



Gesture control



On/off control



Proximity detection (ELA)



Ambient dimming control ( Smart speaker)

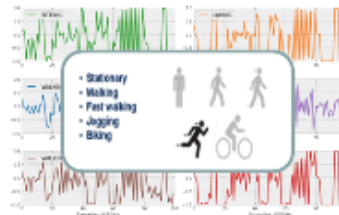
## Smart watches & fitness trackers

Accelerometers → motion detection 移動偵測

Optical sensors → heartbeat detection 心律偵測 & UV sensors 紫外線感測



### 運動偵測 / 計步 Motion detection



### 抬手亮屏 / 動態心率輔助 Heartbeat detection



### 睡眠偵測 / 久坐提醒 Sleep quality monitoring




# Support AIoT related solutions




Smart city  
Traffic management

The image shows a night view of a city skyline with various smart city icons overlaid, including a Wi-Fi signal, a location pin, and a network of nodes connected by lines.



Smart home  
Smart grid

The image shows a modern smart home at night with various smart home icons overlaid, including a Wi-Fi router, a lightbulb, and a smart meter.



AIoT devices  
Smart payment

The image shows a person's hand holding a smartphone displaying a chatbot interface for ordering coffee. The chatbot says "Here is a list of your last order." and shows a list of items: Capuchino, Hot, Size: XL, Quantity: 1. There are buttons for "Cancel" and "Reorder".



Connected cars

The image shows a futuristic car interior with a steering wheel and a dashboard displaying various data points and icons, representing a connected car.

AMADA Mazak

Makita

HITACHI Inspire the Next

Continental

TOYOTA

Ferrari

Mercedes-Benz

BMW

HYUNDAI

BOSCH Panasonic

cms electronics SIEMENS

TOKYO ELECTRON MITSUBISHI ELECTRIC

NISSEI PHILIPS

KEYSIGHT TECHNOLOGIES

OMRON

EPSON

BRAUN

Schneider Electric

Honeywell

CITIZEN

SAMSUNG

dyson

TCL SONY

Midea amazon

LG Electrolux

NEC TOTO Google



AIoT

VW

MITSUBISHI

VOLVO

SKODA AUTO

BHTC COMFORT IN MOTION

YAMAHA

DENSO ALPSALPINE Entering the Core

AVAYA brother

LEXMARK

FUJI XEROX

Gigaset

KYOCERA

Canon

hp

LEGO

GARMIN

GoPro

小天才 TECNO mobile

LANDI 联迪 ASUS

NOKIA HUAWEI

Jio

Verifone

Raritan Know more. Manage smarter

Itron

三星电气 SAMSUNG ELECTRIC

威胜集团 Wansheng Group

mi

# Our Strategy

## 多樣化 (Diversification)

提供完整產品綫, 一站式採購服務  
One-stop shopping

分散應用, 分散市場, 降低風險  
Risk reduction

高成長+高毛利之產品組合  
Balance GM & sales growth

## 差異化 (Differentiation)

持續創造俱市場競爭力產品  
Make existing products better

持續擴展市場滲透率  
Market share gains

持續孵化新產品  
Incubated new products





# We'd love to hear from you!

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*Lighting up your life.*

**Sitronix**