

Investor Conferences

2Q 2022

Sitronix Technology Corp.

矽創電子股份有限公司

8016: TT

Sitronix

Sitronix Confidential. Do Not Copy or Distribute.

免責聲明

- This presentation includes forward-looking statements. All statements, other than statements of historical facts, that address activities, events or developments that Sitronix Corp. expects or anticipates will or may occur in the future (including but not limited to projections, targets, estimates and business plans) are forward-looking statements.
- Sitronix actual results or developments may differ materially from those indicated by these forward-looking statements as a result of various factors and uncertainties, including but not limited to material cost increase, market demand, change in legal, financial and regulatory frameworks, government policies, financial market conditions, and other risks and factors beyond our control.
- Sitronix does not undertake any obligation to publicly update any forward-looking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.

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

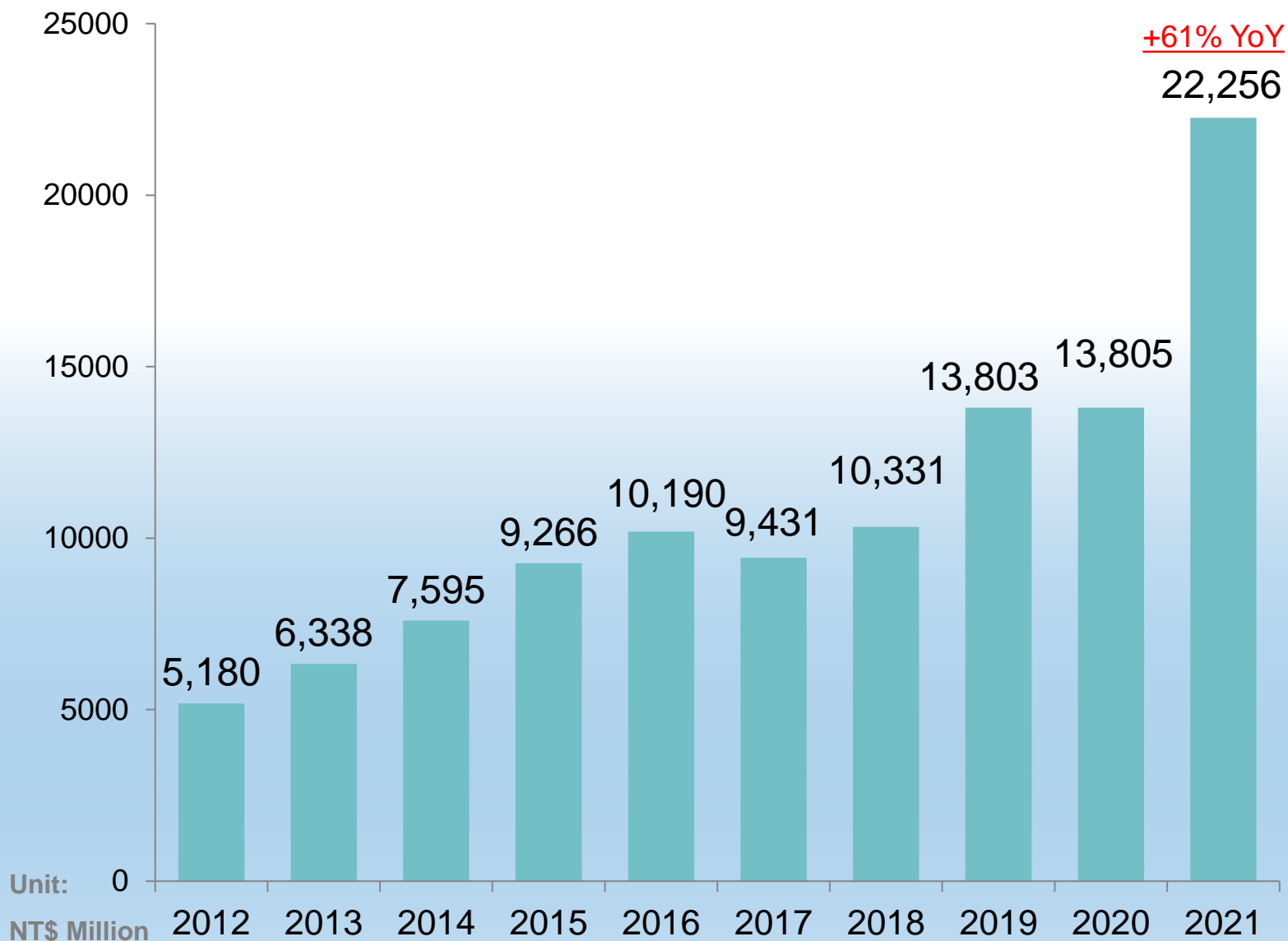
Sitronix

Display Driver IC

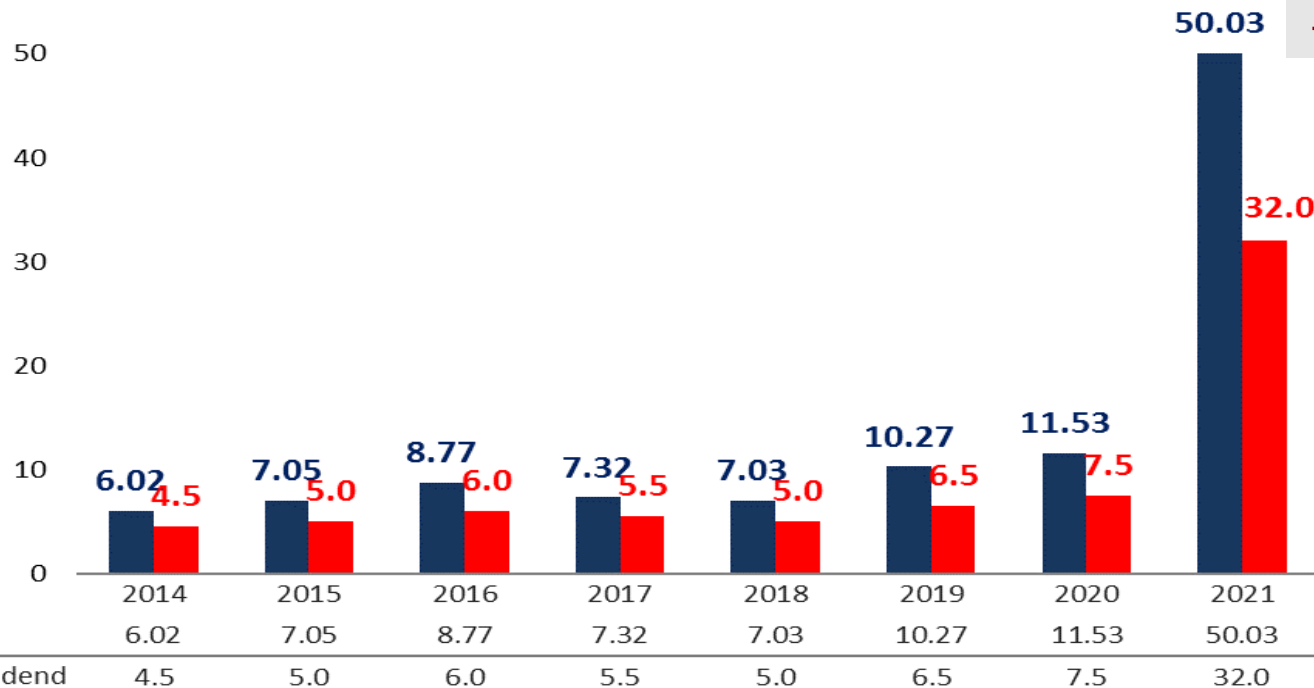
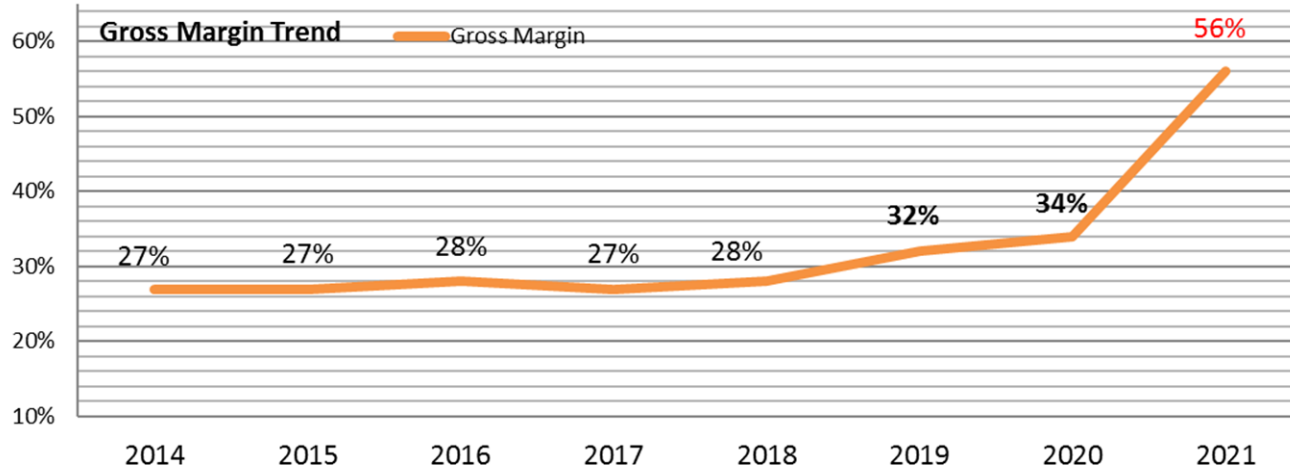


Incubator since 2009

矽創集團合併營收



EPS & 毛利趨勢

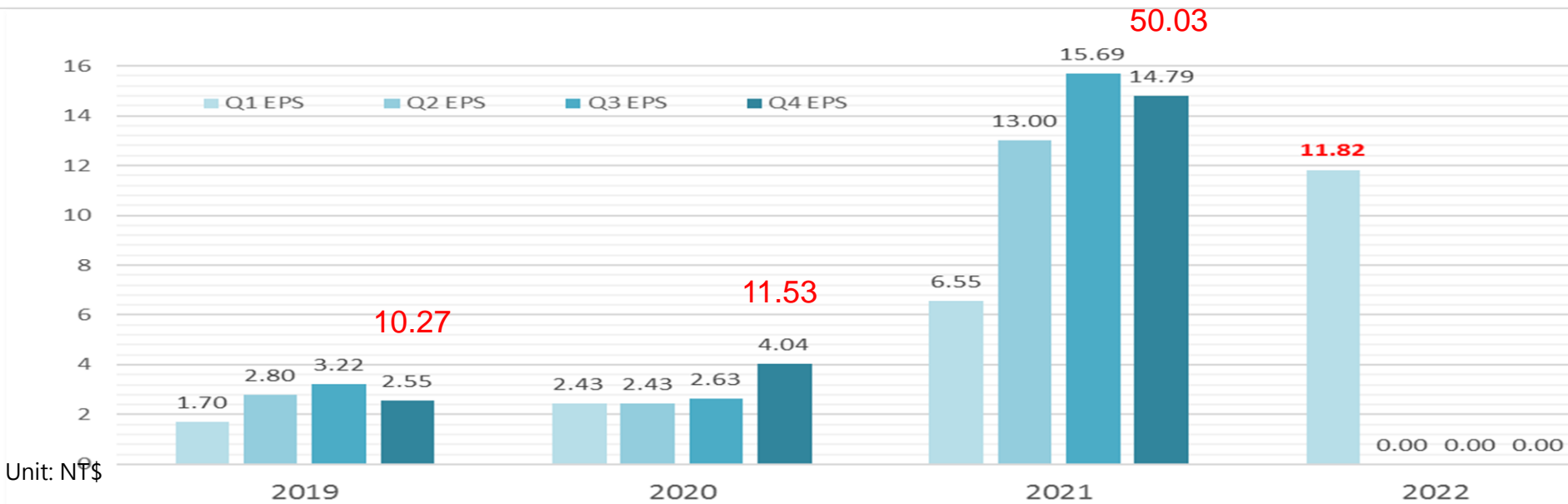
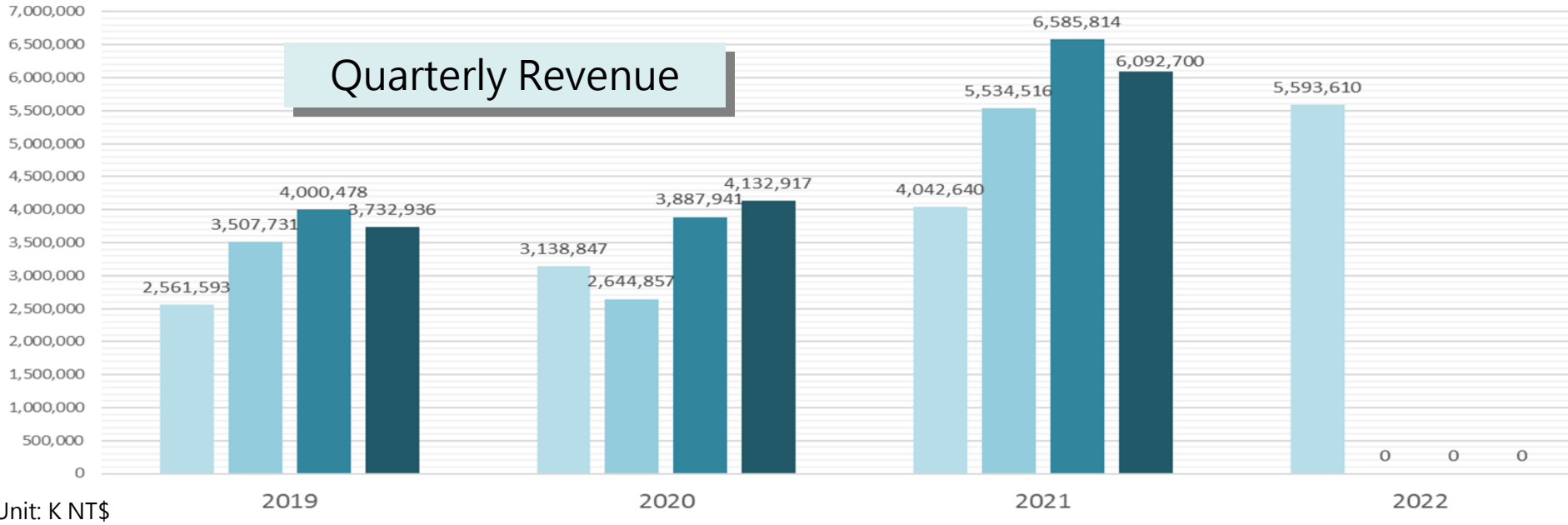


Unit: NT\$
Accounting
standard: IFRS

■ EPS
■ Dividend

合併季營收 & EPS

Quarterly Revenue



8016 損益表

Item	Q1 22		Q1-Q4 21		Q4 21		Q3 21		Q2 21		Q1 21		Q1-Q4 20	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	5,593,610	-	22,255,670	-	6,092,700	-	6,585,814	-	5,534,516	-	4,042,640	-	13,804,562	-
Gross Profit	3,011,343	54%	12,351,136	56%	3,498,307	57%	3,799,273	58%	3,146,831	57%	1,906,725	47%	4,785,825	34%
Operating Expense	1,063,741	19%	4,202,687	19%	1,158,356	19%	1,216,581	19%	1,058,320	19%	769,430	19%	2,495,301	18%
Operating Income	1,947,900	35%	8,156,897	37%	2,340,232	38%	2,584,478	39%	2,094,621	38%	1,137,566	28%	2,383,048	17%
Income before Tax	2,067,536	37%	8,353,772	38%	2,403,100	39%	2,649,223	40%	2,144,026	39%	1,157,423	29%	2,523,626	18%
Net Income*	1,417,887	25%	6,005,760	27%	1,775,335	29%	1,883,701	29%	1,560,121	28%	786,603	19%	1,384,818	10%
EPS	11.82	-	50.03	-	14.79	-	15.69	-	13.00	-	6.55	-	11.53	-

Unit: NT\$ thousands (except EPS)

Accounting standard: IFRS

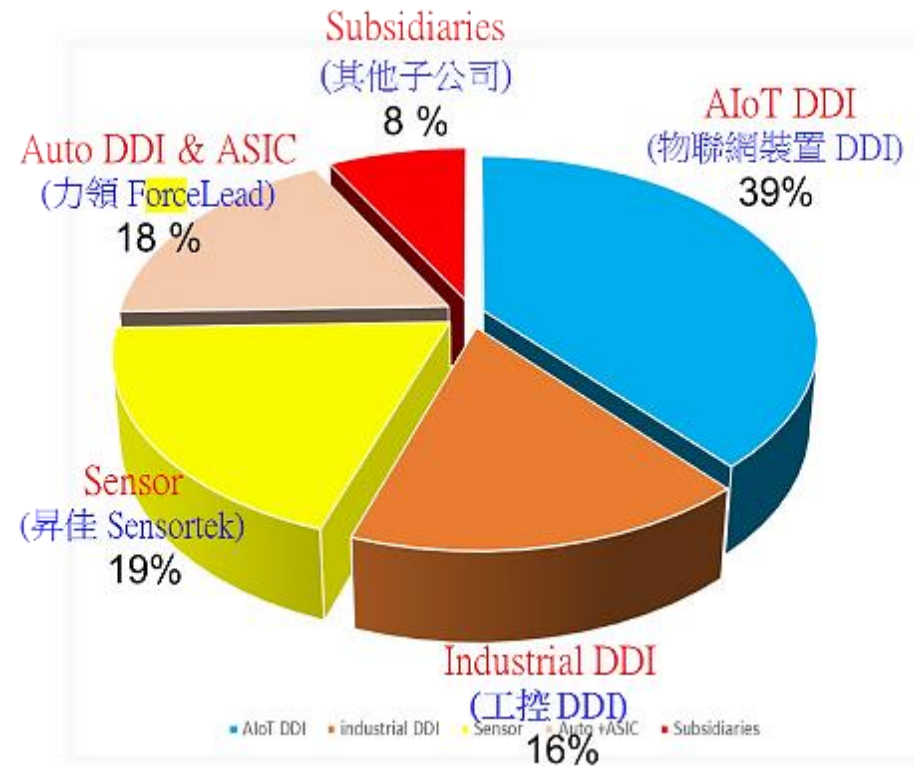
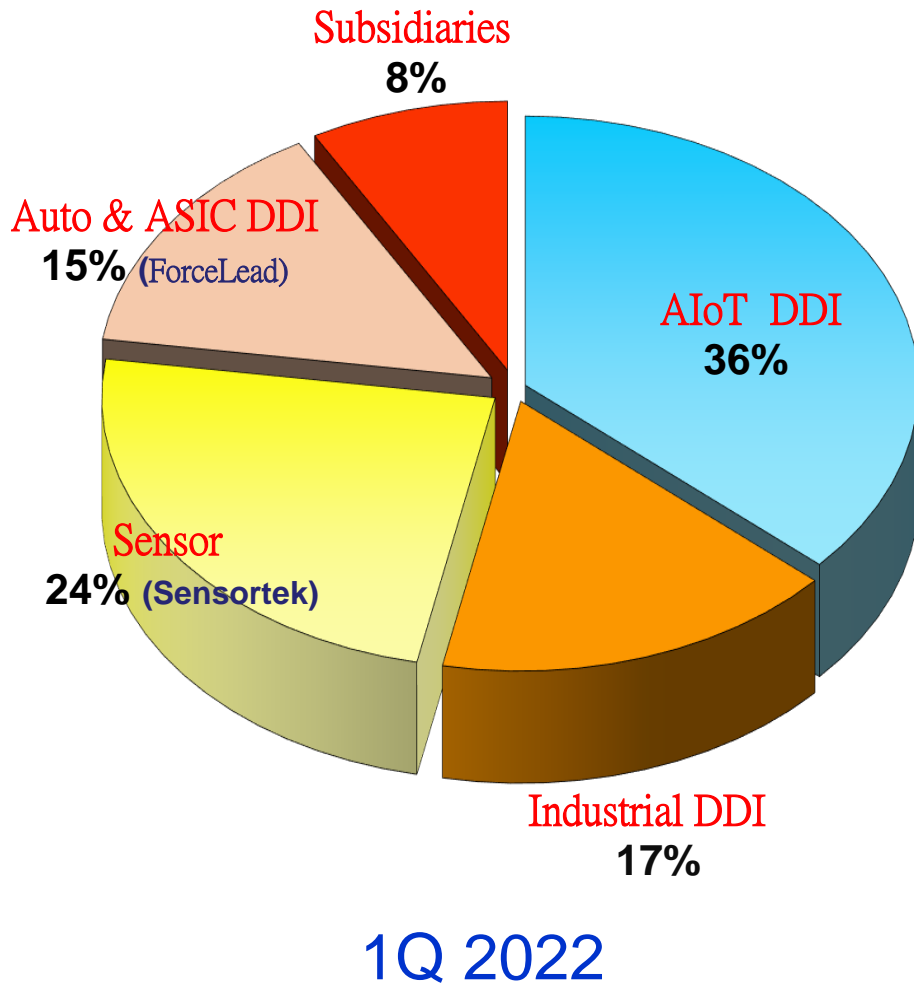
* Listed on the English translation of our financial statements as "Profit (loss), attributable to owners of parent"

8016 資產負債表

Item	2022/3/31	2021/12/31	2021/9/30	2021/6/30	2021/3/31
Total Assets	25,874,023	22,672,777	19,949,309	18,007,392	15,205,696
Current Assets	21,049,198	18,086,920	16,051,297	14,619,722	12,168,616
Cash & Equivalents	9,953,822	7,930,508	7,951,964	8,189,048	5,352,063
AR	2,086,052	1,952,110	1,902,991	1,652,183	1,335,828
Inventory	3,418,072	2,450,568	1,995,865	1,980,952	1,778,865
Total Liability	13,659,083	7,475,710	6,968,459	7,263,450	6,341,128
AP	2,868,209	2,480,335	2,291,092	2,089,573	1,965,114
Shareholder Eq.	12,214,940	15,197,067	12,980,850	10,743,942	8,864,568

Unit: NT\$ thousands
Accounting standard: IFRS

產品組合佔比



AIoT裝置顯示器驅動 ICs

Small-sized DDIC ... 1-3 inch displays

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

4G kids' watches



Sports cams Pocket cams



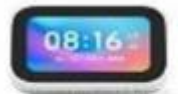
Fitness trackers



Mid-sized DDIC ... 4-6 inch displays

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

Smart speakers

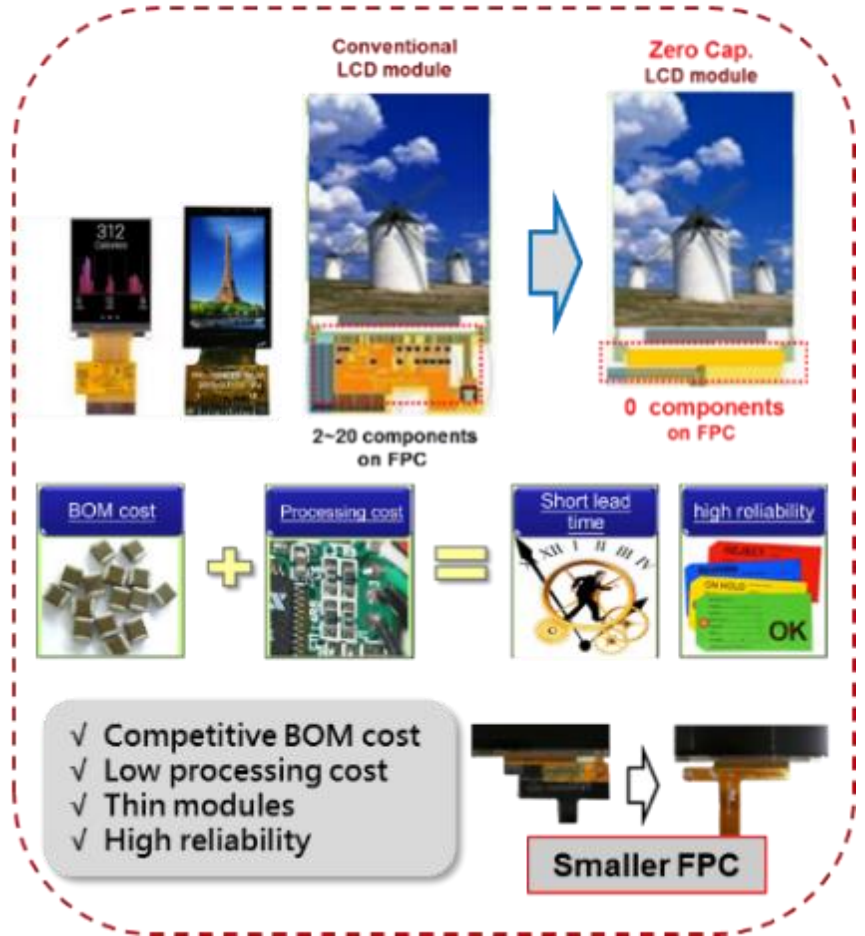


Payment terminals



Differentiation

Sitronix's Patents



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



工控類顯示器驅動 ICs

Diversification

TN / STN / mono TFT / color TFT



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

- 2019 : >650M pcs
- 2020 : >720M pcs
- 2021 : >660M 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



Sensitivity & feature Upgrades → ASP Boosts
感度及功能提升 → 平均價格提升

G1: PS + ALS visible solution 1x
G2: PS + ALS invisible solution → 3x → 6x → 10x (MP) (H sensitivity)
- Under-display solution for AMOLED

G3: PS + RGB visible solution (2019) 1x
G4: PS + RGB invisible solution (2021) 3x (MP)

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 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。

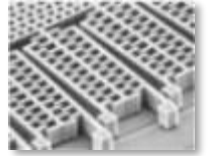


Flicker detection sensors :

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.

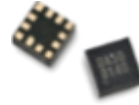
用於檢測環境中由白熾燈或螢光燈所產生的50Hz或60Hz光源物理閃爍。協助手機攝像頭之圖像系統能夠消除人造光源的閃爍而出現的條紋和失真效果。

MEMS sensors 微機電感測晶片



G-sensor shipment

2019 : >55M pcs
2020 : >80M pcs
2021: >120M 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



2021: 三個感知器參與手機應用

We are developing high-performance products and moving to high-end

2010 - 2018

2018 – now

Entry-Level

Mid range

High end

Flagship

Addressable Market
400-500M/year

Addressable Market
400-500M/year

Addressable Market
300-400M/year

Addressable Market
300-400M/year

Opticals for Displays
Slit type
ALS only

Opticals for Displays
Slit type
PS+ALS (IR LED)

Opticals for Displays
Slit type
PS+ALS (IR LED / VCSEL)
Under display
PS+ALS (VCSEL)

Opticals for Displays
Under display
PS+ALS (VCSEL)
Visible
PS+RGB (VCSEL)

Opticals for Cameras
Flicker sensors

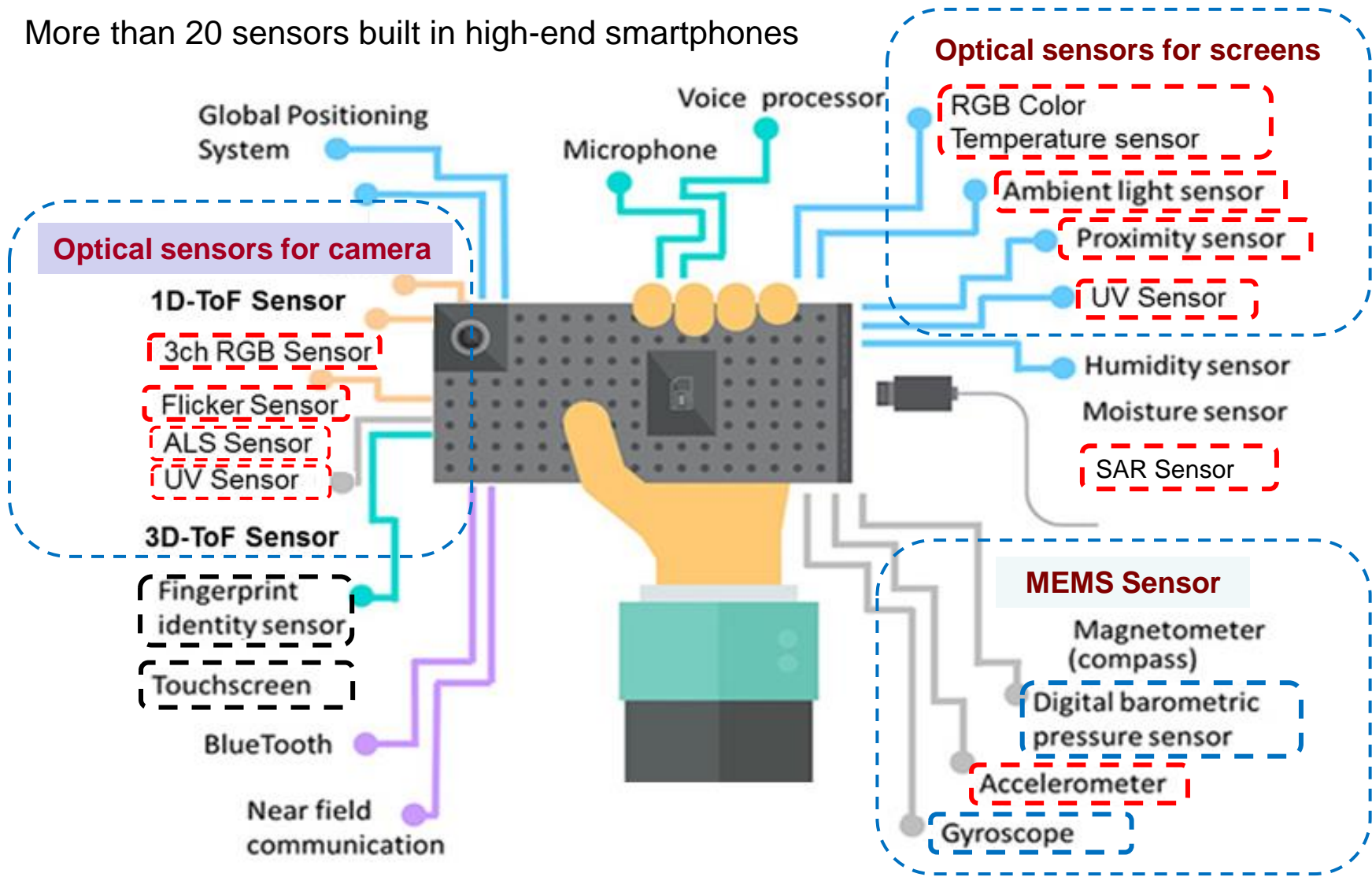
Opticals for Cameras
RGB + flicker sensors

Opticals for Cameras
RGB + flicker sensors

MEMS
Accelerometers

敬請期待

More than 20 sensors built in high-end smartphones

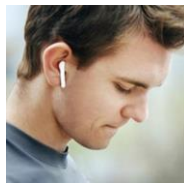


穿戴式裝置： 顯示器IC + 光學感測器 + MEMS + 觸控IC

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)



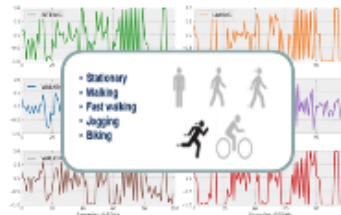
Smart watches & fitness trackers

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



支持 AIoT 相關解決方案



AIoT

AMADA **Mazak** **Makita** **HITACHI** **Continental** **TOYOTA** **FERRARI** **Mercedes-Benz** **BMW** **HYUNDAI**

BOSCH **Panasonic** **cms electronics** **SIEMENS** **TOKYO ELECTRON** **MITSUBISHI ELECTRIC** **VW** **MITSUBISHI** **VOLVO** **SKODA**

NISSEI **PHILIPS** **KEYSIGHT TECHNOLOGIES** **OMRON** **EPSON** **BRAUN** **Schneider Electric** **BHTC** **YAMAHA**

Honeywell **CITIZEN** **SAMSUNG** **dyson** **SONY** **TCL** **Midea** **amazon** **LG** **Electrolux** **NEC** **TOTO** **Google** **DENSO** **ALPSALPINE** **AVAYA** **brother** **LEXMARK** **FUJI XEROX** **Gigaset** **KYOCERA** **Canon** **hp** **LEGO** **GARMIN** **GoPro** **小天才** **TECNO mobile** **LANDI 联想** **ASUS** **NOKIA** **HUAWEI** **Jio** **Verifone** **Raritan** **Itron** **三星电气** **威胜集团** **mi**

產品策略

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



AIoT Device

- › Smartphone
- › Feature Phone
- › Wearable devices
- › AIoT devices

Industrial

- › Office Automation
- › Industrial Instruments
- › Portable Medical Devices

Automotive

- › Cluster Display
- › Navigation Display
- › Center Information Display

FORCELEAD

Optical Sensor & MEMS sensor

sensortek

We'd love to hear from you!

Strategic investment Director

Jacky Chou 周德雲

Tel: +886-2-2659 1276 ext 2206

E-mail: jacky_chou@sitronix.com.tw

Investor Relations Officer

Tom Huang

Tel: +886-2-2659 1276 ext 2255

E-mail: tom_huang@sitronix.com.tw

Website: <http://www.sitronix.com.tw>

Taipei office:

6F., No. 608, Ruiguang Rd., Neihu Dist., Taipei City 114, Taiwan

台北市內湖區瑞光路608號6樓

Lighting up your life.

Sitronix