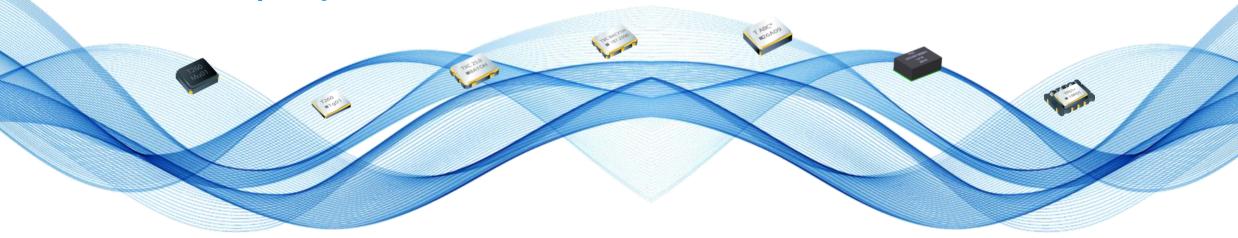


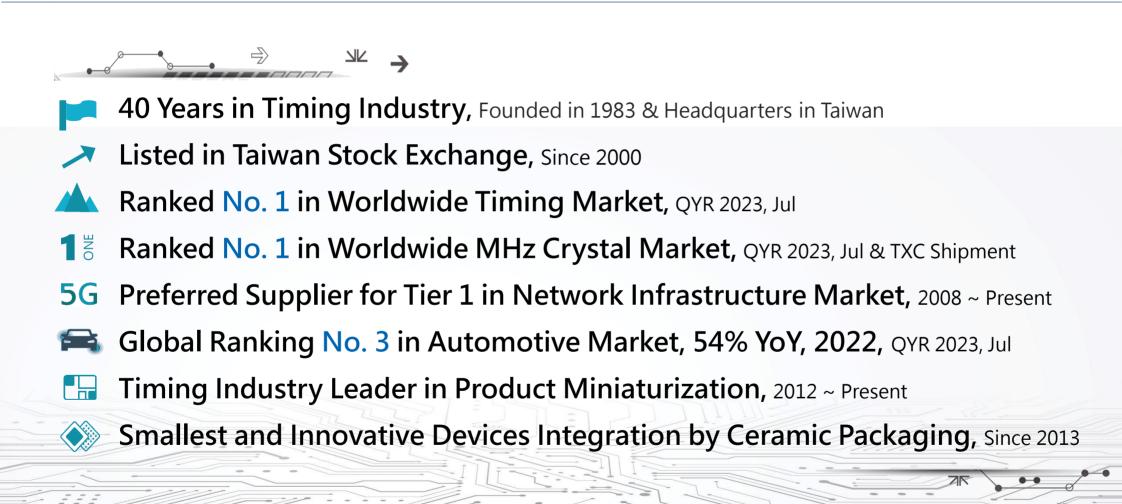
# Making Every Connection Better \_\_\/\

**Precise Clock for Seamless Synchronization & Ultimate Data Transmission** 

Think of Frequency, Think of TXC



## **Market Leader with Sustainability**



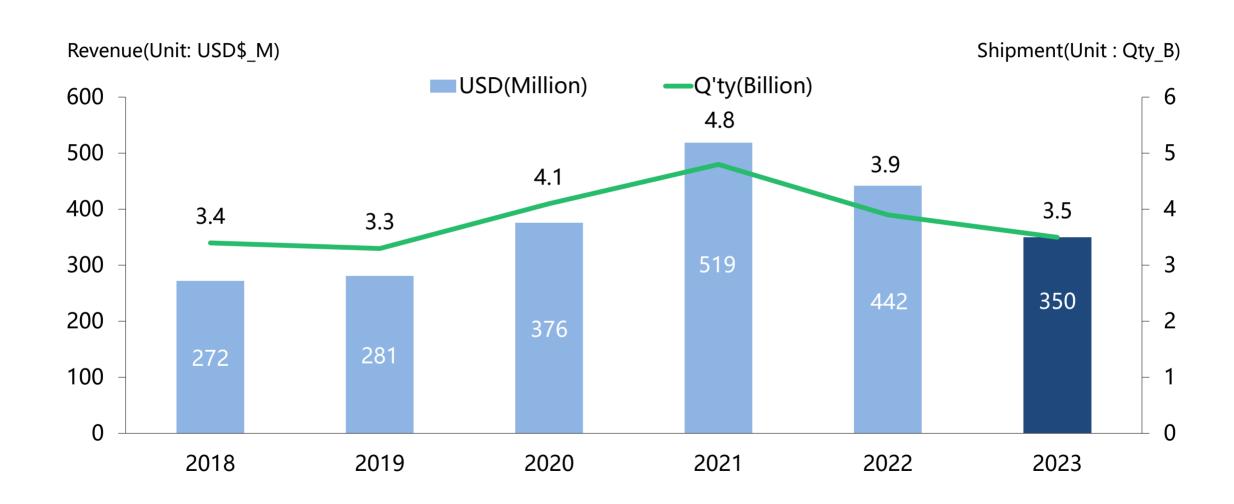
# **Worldwide Timing Market Overview**

Ra	ank	Vendors	Revenue (Million_USD)			Market Share (%)	
2021	2022	Company Name	2021	2022	YoY%	2021	2022
1	1	TXC	<b>\$</b> 519	\$442	-14.8%	11.7%	11.1%
2	2	Epson	\$425	\$379	-10.7%	9.6%	9.5%
3	3	NDK	\$366	\$352	-3.9%	8.3%	8.8%
4	4	KCD(Kyocera)	\$359	\$311	-13.4%	8.1%	7.8%
7	5	Sitime	\$218	\$283	29.6%	4.9%	7.1%
5	6	KDS	\$338	\$268	-20.6%	7.6%	6.7%
6	7	Microchip	\$222	\$226	2.1%	5.0%	5.7%
8	8	TKD	\$176	\$128	-26.8%	4.0%	3.2%
11	9	Rakon	\$121	\$114	-5.9%	2.8%	2.9%
13	10	Hosonic	\$113	\$110	-2.2%	2.6%	2.8%
		Other Companies	\$1,565	\$1,375	-12.1%	35.4%	34.5%
		Total Revenue	\$4,422	\$3,988	-9.8%	100.00%	100.00%

Source: QYR Research Jul. 2023

## **Revenue Growth By Years**

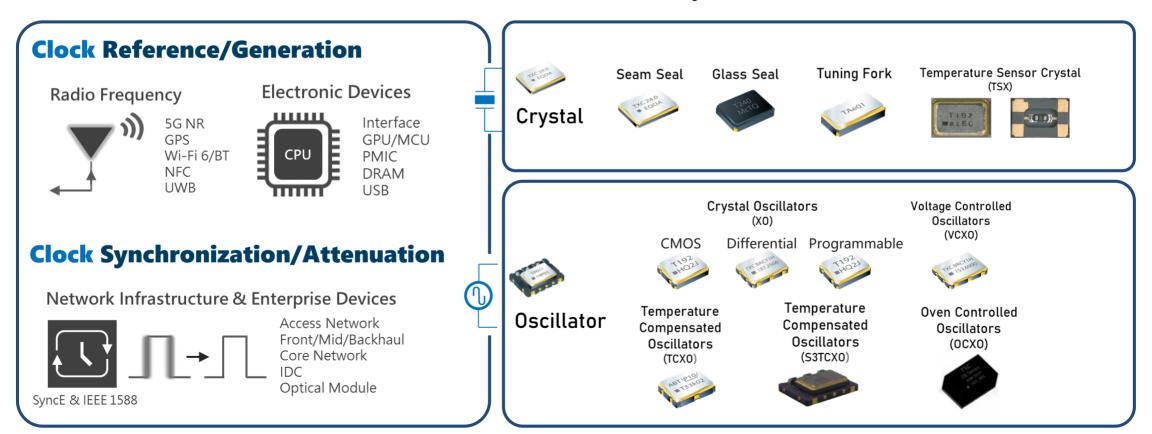
**Organic & Sustainable Business Expansion** 



## **Timing Devices is Essential Key to All Electronics**



**Quartz offers the most Clear & Low Noise Clock to make every Connections Better** 



#### **Global Presence**





#### **Manufacture Facilities**

1991



- MHz Crystal
- TSX
- XO
- TCXO
- VCXO
- OCXO

1999



- kHz/MHz Crystal



- TSX
- XO
- TCXO
  - 4+1 manufacturing facilities
  - 200+ automated production lines
  - 430M + monthly capacity(Timing Devices)
  - 3 R&D centers (PCF, NGB & CKG)
  - 400+ engineers

2013



- MHz Crystal
- TSX

2021



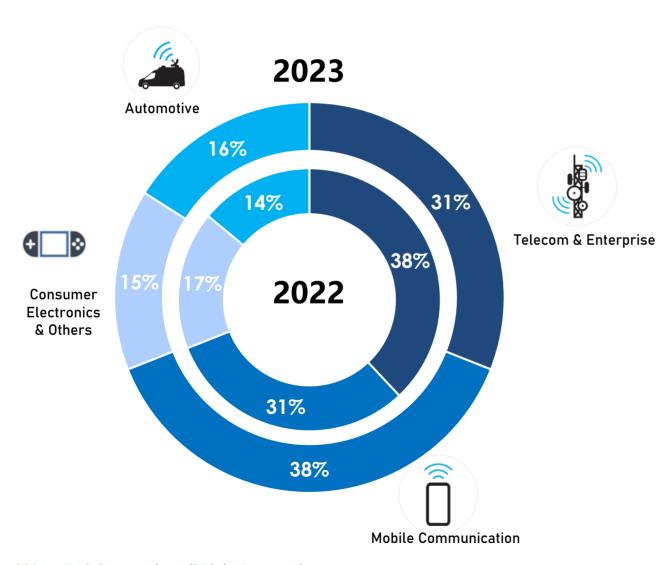
- kHz/MHz Crystal
- XO

2024 Under Construction



## **Revenue Growth By Segments**

#### **Diversified Market & Customer Matrix**



#### **Key Diversified Growth Drivers**

#### **5G Mobile Devices**

Miniature Product, High Frequency Products

#### **5G Telecom & Infrastructure**

Precise & Ultra Low Phase Noise Oscillators

#### **High Speed Datacom**

Ultra High Frequency & Ultra Low Phase Jitter Oscillators

#### **Vehicle Electrifications**

Mass Adoption on Crystal & Oscillator for Autonomous Driving

#### **Our Focuses**

#### **Provide the Cleanest & Most Stable Clock source to every hearts of Electronics**

Precise Stability & Ultra Low Phase Noise & Jitter



High Frequency, Ultra Stability & Miniature

**Mobile Devices** 



High Reliability & Quality



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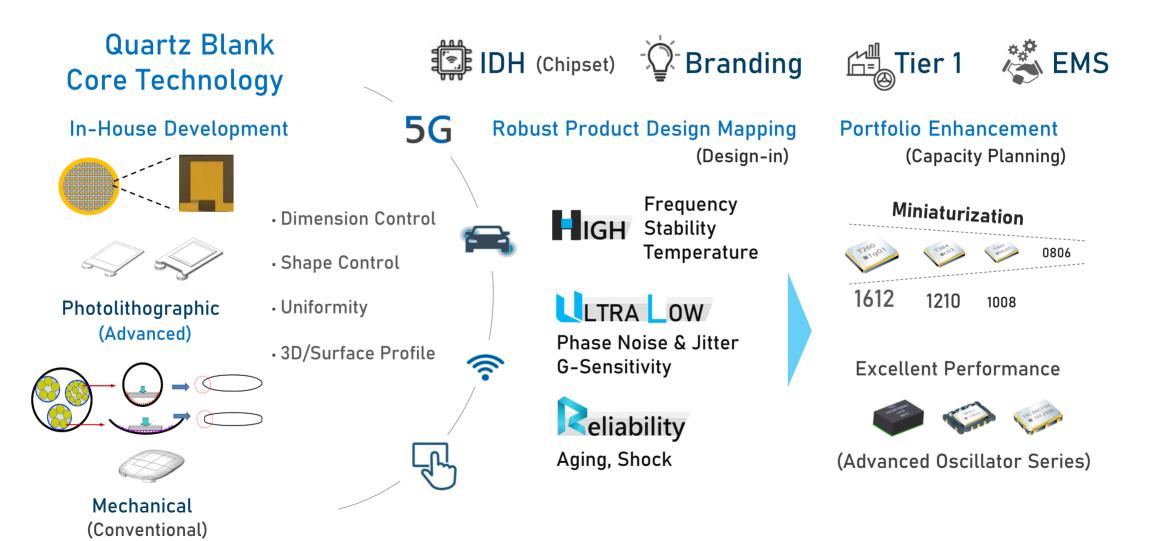
#### **Advanced Crystal & Oscillator Growth Target in AI Ecosystem**

Features Requirement of HPC/High Speed Transmission/Meta-mobility



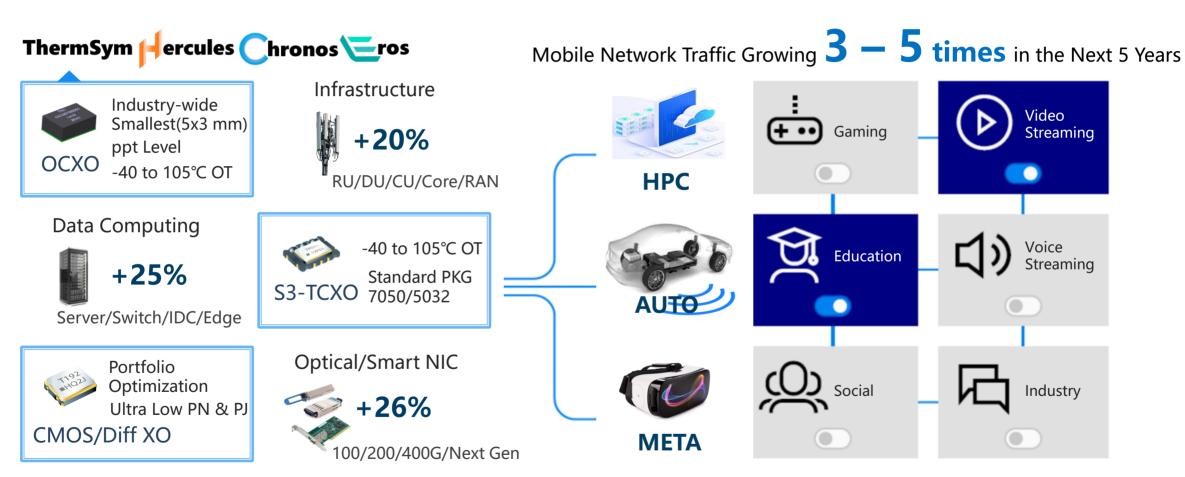
## **Our Core Competitiveness**

**Improvement and Enhancement of Technology** 



## Increase Data Traffic is folding Business growth

**Data Transmission Upgrade for Advanced Oscillators Deployment** 



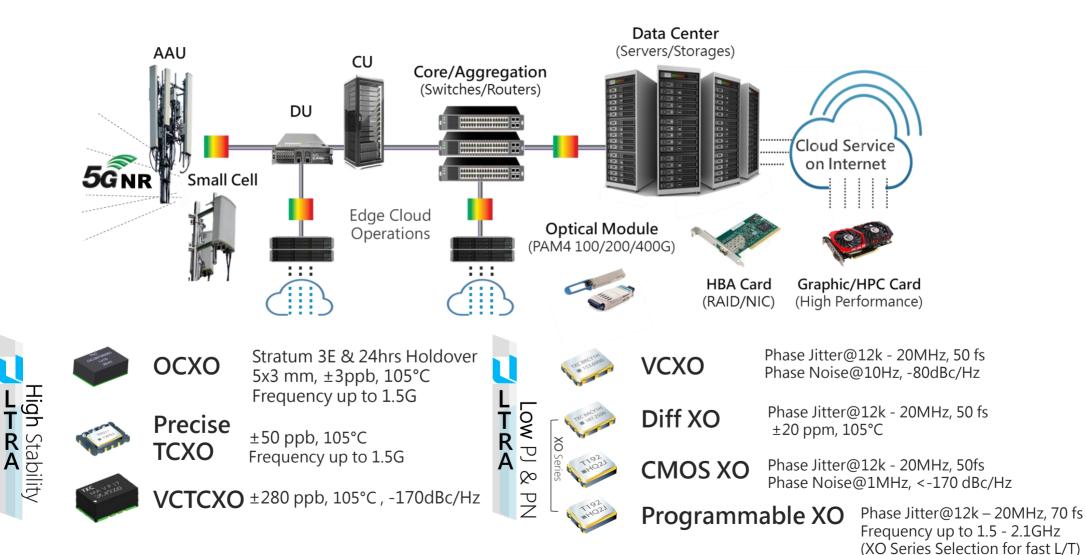
+% CAGR of equipment or device sales revenues projection during 2022-2025

Data Traffic (EB per Month): 2021: **84**, 2024: **255**, 2027: **368** 

Source: Ericsson Mobility Report, June 2023

## **Telecommunication & Enterprise**

Extra High-Frequency, Ultra-Low Phase Noise & Jitter & Stability Performance



## **Mobile Connectivity & Devices Ecosystems**

Miniature, Higher Frequency & Ultra Low Phase Noise



World's Smallest Series

#### IGH Frequency Accuracy & Stability





MHz Crystal







TCXO(CMOS/Clipped)

1612

1210

Next 0806

1008 8 - 320 MHz

Miniature,  $1.0 \times 0.8$  (mm)

Miniature, 1.6 x 1.2 (mm) 19.2 – 76.8MHz

PJ@12k - 20MHz, 0.05 - 0.3 psLow EMI CMOS XO

PN@100kHz, -166 dBc/Hz Stability, ±0.5 ppm

#### **Electrification & Smarter Vehicles**

#### **Define Key Growth Applications with Strong Forecast & Projections**

Automotive Grade, AEC-Q100, AEC-Q200 & Other Specified Compliances



**Autonomous** 



**Safety & Motion** 





**Smart Cockpit** 



(2016 Size)

**Body Control** 



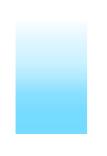
**XTAL** (Seam Type) **Electric Vehicle** (100-180 PCS)

> **Gasoline Vehicle** (60-100 PCS)



+% CAGR of TXC Sales Estimation during 2022-2026

< Note: Reference to AVG 30 PCS of Usage in Traditional Vehicle>



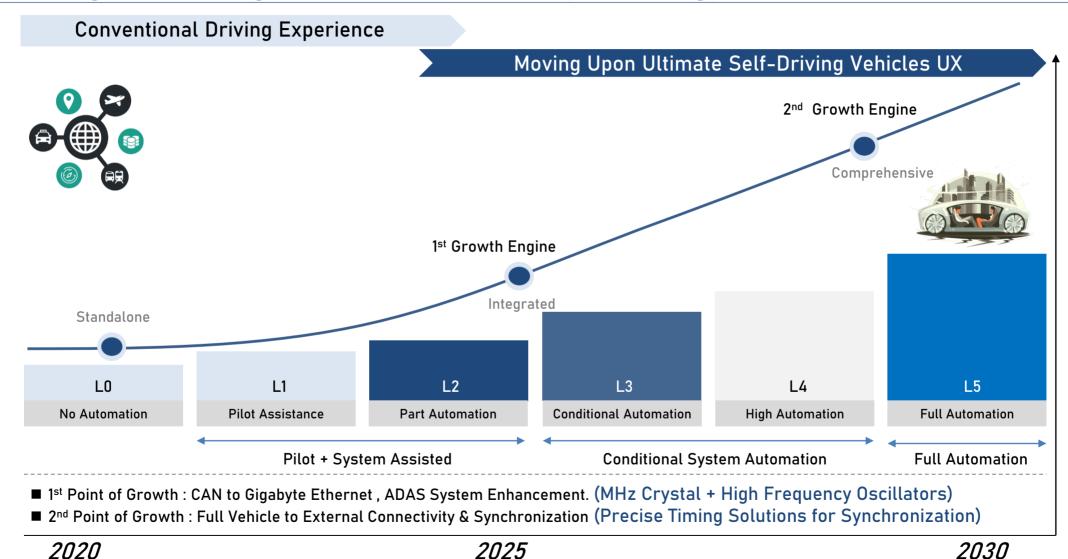
CAGR Electricc Vehicle Market Sales Forecast, 2024 to 2029

2024

# Timing Value Creation Opportunity

# **Heading Toward Next Level - Autonomous Driving**

**Self-Driving Boost Timing Demand with New Trendy Technology** 



#### **2024 CAPEX**



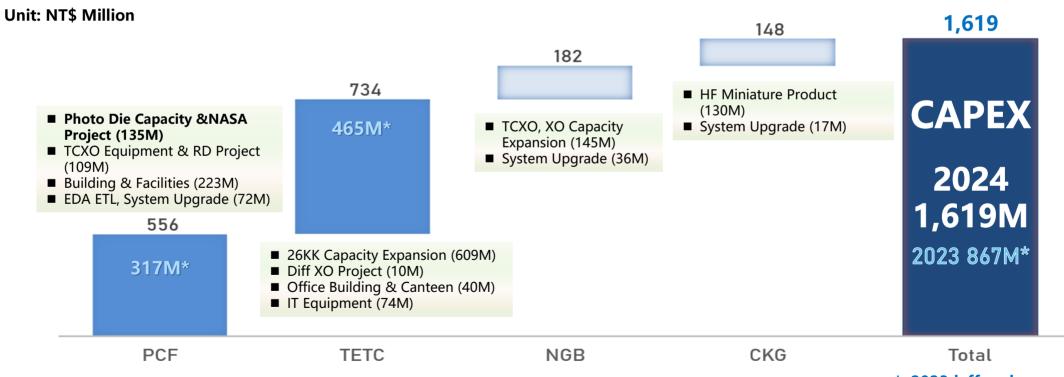
#### **A+ Enhancements**

✓ Core Technology✓ Advanced Process





- ✓ Environment
- ✓ Social Responsibility
- ✓ Governance



\*: 2023defferedcapex

# **Statements of Comprehensive Income**

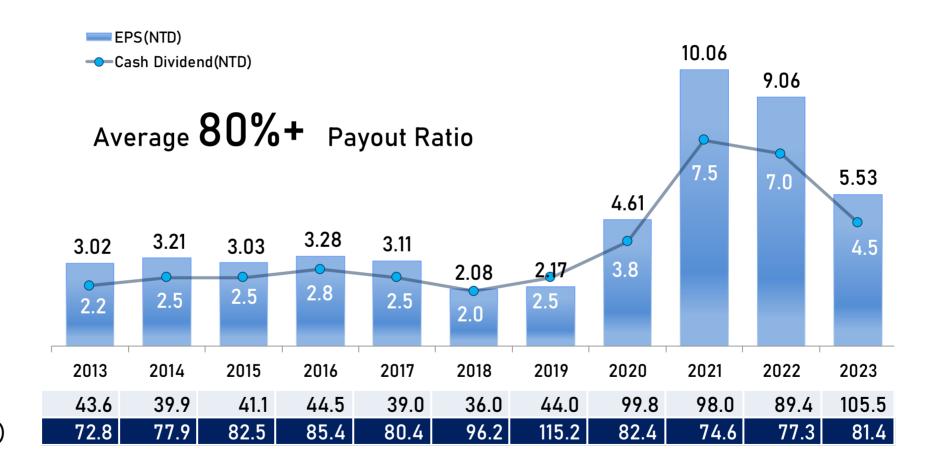
Unit: NT\$ Million	Q1'24	Q4'23	QoQ	Q1'23	YOY
Net Revenue	2,754	3,040	-9.4%	2,298	19.8%
Gross Profit	1,000	1,148	-12.9%	793	26.0%
Operating Expenses	534	529	0.8%	448	19.2%
Operating Profit	466	618	-24.7%	345	34.8%
Non-Operating Items	181	-124	246.9%	6	3119.0%
Income before Tax	647	495	30.8%	351	84.3%
Net Income	537	408	31.7%	287	87.3%
Basic EPS (NT\$)	1.73	1.31	32.1%	0.93	86.0%
Gross Margin(%)	36.30%	37.75%		34.52%	
OPEX(%)	19.39%	17.42%		19.49%	
Operating Margin(%)	16.91%	20.33%		15.03%	
Income before Tax Margin(%)	23.50%	16.27%		15.28%	
Net Profit Margin(%)	19.51%	13.42%		12.48%	

### **Balance Sheet**

Unit: NT\$ Million	Mar. '24		Dec. '23		Mar. '23	
ltem	Amount	%	Amount	%	Amount	%
Cash & Cash equivalents	4,231	21.4%	4,204	22.3%	4,456	23.1%
NR+AR	3,006	15.2%	3,255	17.3%	2,744	14.2%
Inventories	2,662	13.4%	2,470	13.1%	2,711	14.1%
Current Assets	11,519	58.2%	10,812	57.4%	10,830	56.2%
PP&E	5,798	29.3%	5,770	30.7%	6,181	32.1%
Total Assets	19,797	100.0%	18,822	100.0%	19,262	100.0%
Current Liabilities	4,274	21.6%	4,768	25.3%	3,474	18.0%
Non-current Liabilities	2,798	14.1%	2,180	11.6%	2,957	15.4%
Total Liabilities	7,073	35.7%	6,949	36.9%	6,431	33.4%
Total Shareholders' Equity	12,725	64.3%	11,874	63.1%	12,830	66.6%
A/R Turnover Days	104		115		125	
Inventory Turnover Days	134		135		164	
Inventory Turnover Days (exclu.)	121		122		149	
Current Ratio(%)	270%		227%		312%	
Debt Ratio(%) 35.7%		36.9%		33.4%		
Book Value Per Share(NT\$)	41.08		38.33		41.42	
ROA(%)	11.4%		9.1%		6.1%	
ROE(%)	17.5%		14.1%		9.1%	

#### EPS & DPS

#### **High Dividends Payout, with Sustainable Business Growth**



Unit: NT\$

Share Price

Payout Ratio(%)

## Healthy Growth with Value based Sustainability

**Dedicate on Continuous Enhancement of Environment, Society, and Governance** 



Top 6%~20% Listed Corporates of the 10<sup>th</sup> Corporate Governance Evaluation

Taiwan Best-in-Class 100

The Excellent Enterprise Award in Taoyuan City

IDB the 4th Gender Mainstreaming Benchmark Manufacturer

BSI Sustainability Leader Award

"Conform to 1.5°C temperature control target" label from CommonWealth Magazine

ISO 14064 Greenhouse Gas Emissions Verification

#### ® ® Roadmap

- ISO 50001 Energy Management System Verification
- ISO 14067 product carbon footprint Verification
- 2030 RE30%, 2050 RE100% & Net Zero Carbon

# **Thank You**

Think of Frequency, Think of TAG

