# TXC Corporation Investor Conference

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The financial forecasts and forward-looking statements in the release reflect the current belief of TXC as of the date of this release and TXC undertakes no obligation to update these forecasts and forward-looking statements for events or circumstances that occur subsequent to such date.

The statements in respect of historical matters may contain unaudited information, which may have certain deficiency or weakness so as not to fairly present financial condition or the results of operations of TXC.

### **Market Leader with Sustainability**





- Listed in Taiwan Stock Exchange, Since 2000
- **Ranked No. 1 in Worldwide Timing Market,** QYR 2023, Jul
- **Ranked No. 1 in Worldwide MHz Crystal Market,** QYR 2023, Jul & TXC Shipment
- 5G Preferred Supplier for Tier 1 in Network Infrastructure Market, 2008 ~ Present
- Global Ranking No. 3 in Automotive Market, 54% YoY, 2022, QYR 2023, Jul
- Timing Industry Leader in Product Miniaturization, 2012 ~ Present

-

Smallest and Innovative Devices Integration by Ceramic Packaging, Since 2013

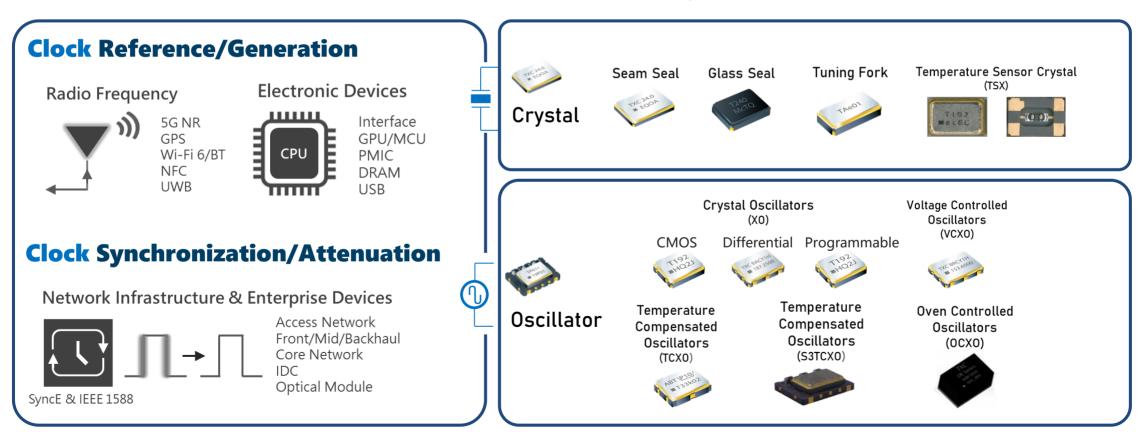
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# **Timing Devices is Essential Key to All Electronics**

Making Pulse to the Connections

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



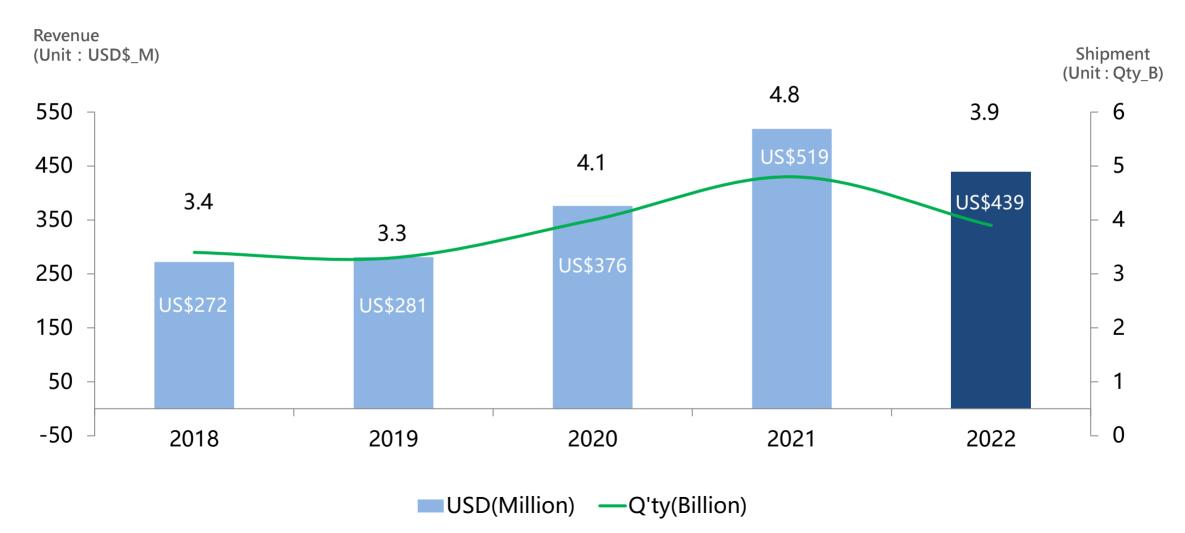
### **Worldwide Timing Market Overview**

Ra	nk	Vendors	R	evenue (Millior	Market Share (%)		
2021	2022	Company Name	2021	2022	YoY%	2021	2022
1	1	ТХС	\$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

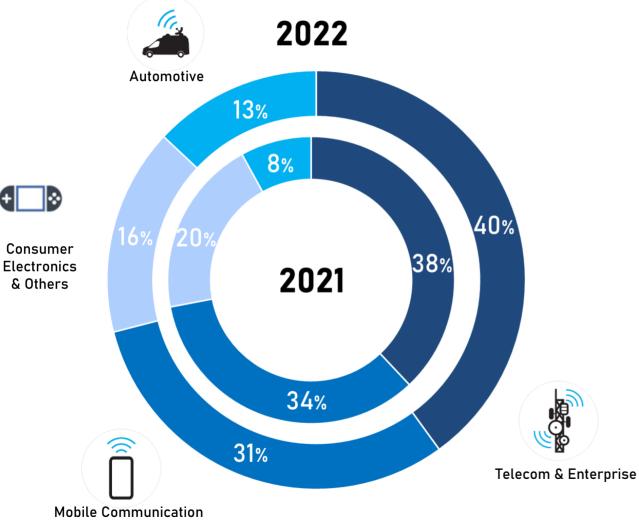
### **Revenue Growth By Years**

### **Organic & Sustainable Business Expansion**



### **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**

High Frequency & Low Phase Jitter Oscillators

#### **Vehicle Electrifications**

Mass Adoption on Crystal & Oscillator for Autonomous Driving



## **Manufacture Facilities**

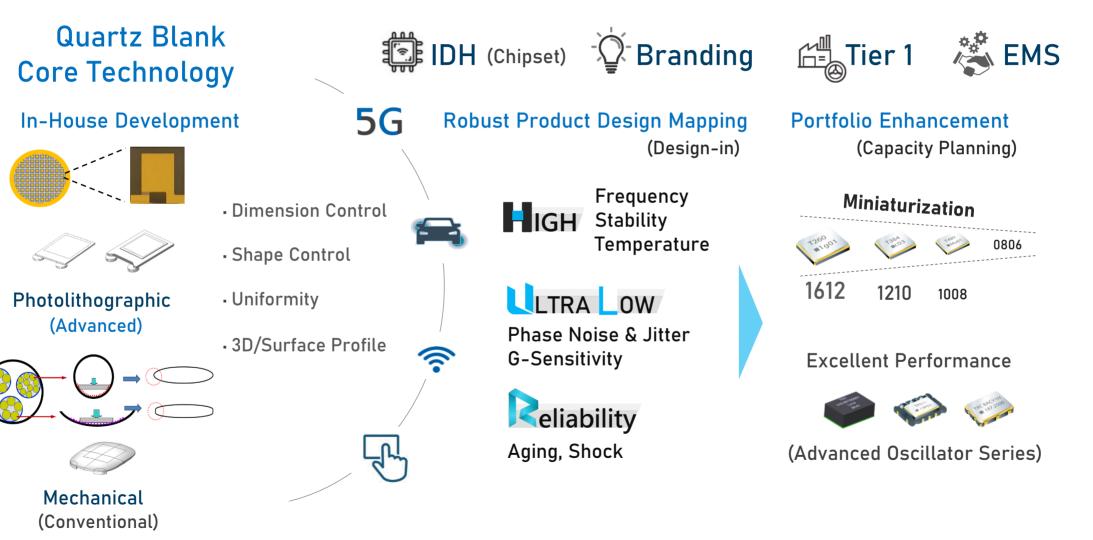
#### 1991



2013

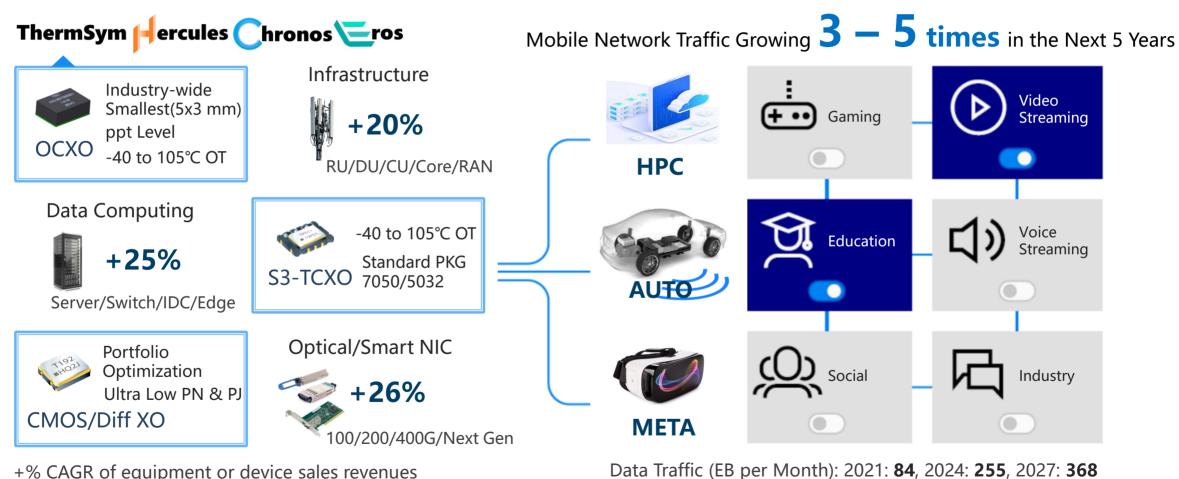
## **Our Core Competitiveness**

**Improvement and Enhancement of Technology** 



## **Increase Data Traffic is folding Business growth**

Data Transmission Upgrade for Advanced Oscillators Deployment

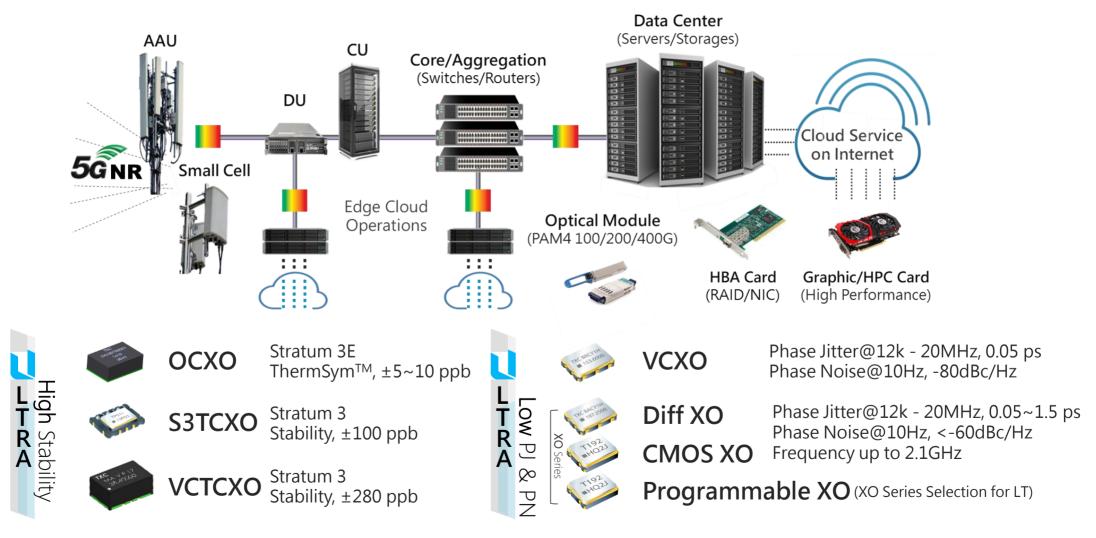


+% CAGR of equipment or device sales revenues projection during 2022-2025

Source: Ericsson Mobility Report, June 2023

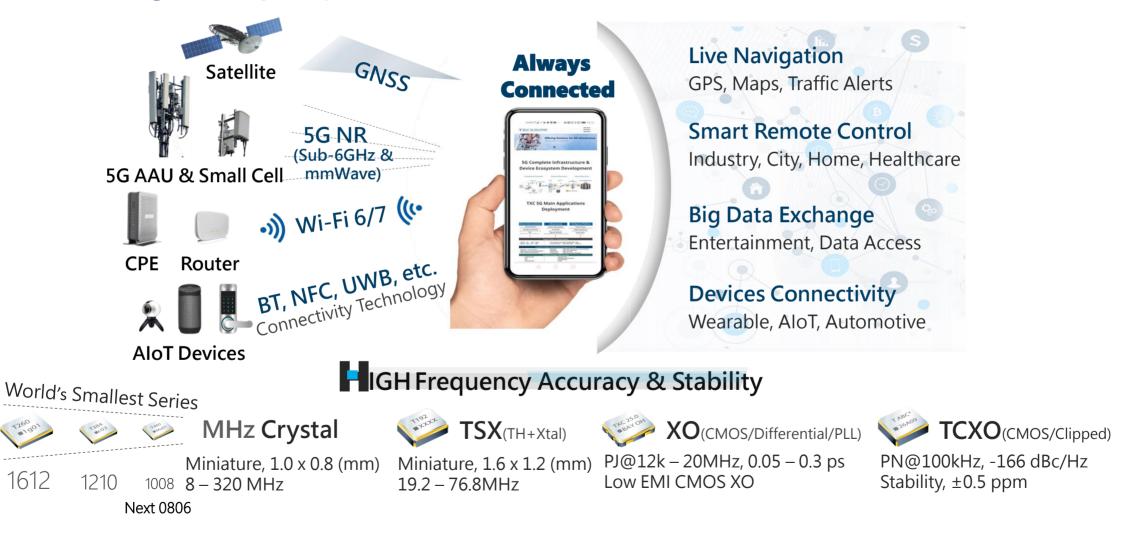
## **Telecommunication & Enterprise**

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



## **Mobile Connectivity & Devices Ecosystems**

Miniature, Higher Frequency & Ultra Low Phase Noise



## **Total Solutions for 5G Application**

Solution	Size	Key Parameters	5G Main Application
OCXO	5032 – 1409	Stability, ±5~10 ppb	AAU 5G New Core
S3TCXO	5032/7050	Stability, ±100 ppb	5GNR Infrastructure (AAU, DU/CU, Core, Optical)
ТСХО	1612 – 2520	Phase Noise@100kHz, -166dBc/Hz	
VCXO	2520 – 7050	Phase Jitter@12k - 20MHz, 0.05 ps	
Diff XO	2520 – 7050	Phase Jitter@12k - 20MHz, 0.05 ps	Intelligence Platform (Smart Device, Edge Computing, Automotive)
PLL XO	2520 – 7050	Frequency, 10MHz - 2.1GHz	Mobile/Multi Access Edge Computing
XO	1612 – 2520	Phase Jitter@12k - 20MHz, 0.3 ps	Device Interconnection
TSX	1210 – 2520	Frequency, 19.2 – 76.8MHz	(Mobile Phone, Mobile, Computing, CPE)
Crystal	1008 – 5032	Frequency, 8 – 320MHz	

### **Trustworthy Quality for Mission Critical Scenarios**



### Zero Risk Approach

(Lowest DPPM Target per Management Standard & System)

### IATF 16949 Certified & VDA 6.3 Mgt.

(Qualified Manufacture Facilities)

### Reliability

(AEC-Q100, AEC-Q200 & Other Specified Compliances)

### **Product Robustness**

(Design per Classification by Application, Refer to ASIL)

### **Automotive Main Applications Deployment**

**Device Connectivity IVI System** (Wi-Fi, BT, UWB, etc) **Smart Cockpit Connected Car AI** Applications (5G/LTE, V2X, GNSS, etc) Infotainment Communication **Security Power Steering EV** Applications Camera **Braking System BMS, OBC, Inverter** Radar/Lidar **Electric Vehicle ADAS** Safety Seliability with AEC-Q100/200 & Other Specified Compliances Glass Crystal Seam Crystal TSX XO 1.6 x 1.2 – 5.0 x 3.2 (mm)  $2.0 \times 1.6 - 8.0 \times 4.5$  (mm)  $2.0 \times 1.6 - 2.5 \times 2.0 \text{ (mm)}$  $1.6 \times 1.2 - 5.0 \times 3.2$  (mm) G3 – G1  $G_{3} - G_{0}$  $G_{3} - G_{2}$ G3 – G1 Low EMI

Instrument Cluster **Interior Control Unit** Smart Key



TCXO

2.0 x 1.6 - 3.2 x 2.5 (mm)

**One Cavity Version** 

G3 – G2

## **Electrification & Smarter Vehicles**

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

Automotive Grade, AEC-Q100, AEC-Q200 & Other Specified Compliances **Electric Vehicle** (100-180 PCS) **Autonomous** Safety & Motion **XTAL** XO **+43%** +16% (Glass Type) (G1 Grade) **Gasoline Vehicle** (60-100 PCS) **Smart Cockpit Body Control** ΓCXΟ **XTAL** +33%+36% (2016 Size) (Seam Type) +% CAGR of TXC Sales Estimation during 2022-2026 <Note: Reference to AVG 30 PCS of Usage in Traditional Vehicle>

> **21%** CAGR Electricc Vehicle Market Sales Forecast, 2024 to 2029 2024

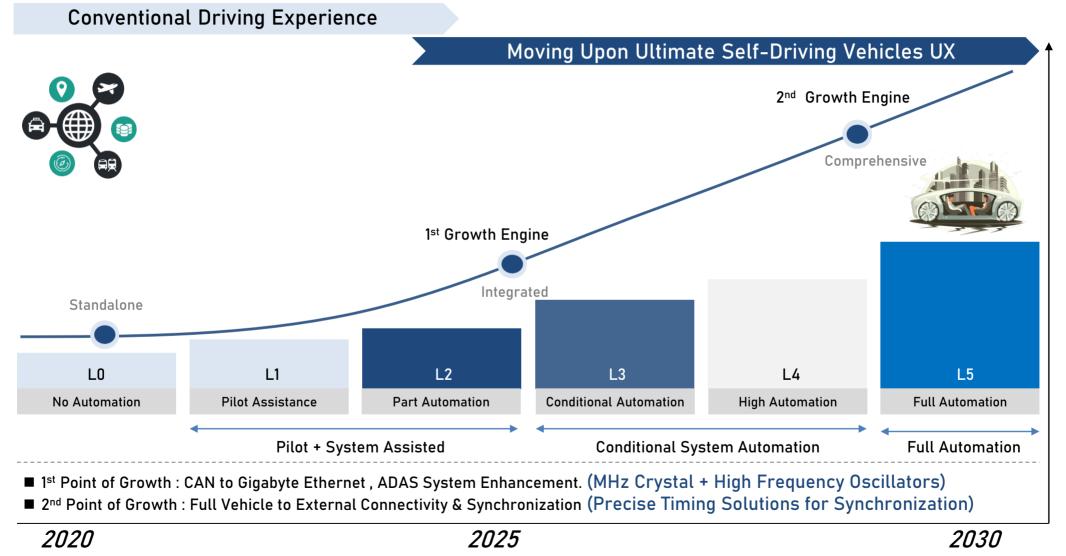
### **Total Automotive Solutions**

Туре	Solution	MHz	Size	Grade
	Glass (2/4 Pads)	4 - 62.4	3225 – 8045	G3 – G0
SMD Crystal	<b>Seam</b> (4 Pads)	8 - 80	1612 – 5032	G3 – G1
AEC-Q200 Compliant	<b>kHz (TF)</b> (2 Pads)	32.768 kHz	3215	G3 – G1
	<b>TSX</b> (4 Pads)	19.2/38.4/ 55.2	2016/2520	G3 – G2
SMD	XO <sup>*Low EMI XO</sup> (CMOS)	32k − 125 ※ 10 − 40	1612 − 5032 ※ 2016/2520	G3 – G1 × G3 – G1
Oscillator AEC-Q100	<b>Diff XO</b> (LVPECL/LVDS)	50 – 156.25	3225	G3 – G1
Compliant	<b>TCXO</b> (Clipped Sinewave)	6 – 52	2016 – 3225	G3 – G2

Grade : Operating Temperature, G3: -40 to 85°C, G2: -40 to 105°C, G1: -40 to 125°C, G0: -40 to 150°C

## Heading Toward Next Level - Autonomous Driving

Self-Driving Boost Timing Demand with New Trendy Technology



Timing Value Creation Opportunity

## **Deployment & Expansion**

### **Stronger Growth & Penetration of Automotive Market**

### Deployed

- IC Design House by Applications (Designed-in)
- Global Tier 1 & Branding(EV) AVL (Product Verified & Factory Audited)
- Growth in China Area
  (50%+ Market Share)

- Automotive Comprehensive Ecosystem (Applications Focus)
- Modularization, Electrification & HPC (Now implemented for Level 2 above)
- Strong Growth in EV Market
  (32% of CAGR during 2021-2025)

10%

3

Expanding

Timing Industry Leader

2025

Market Share

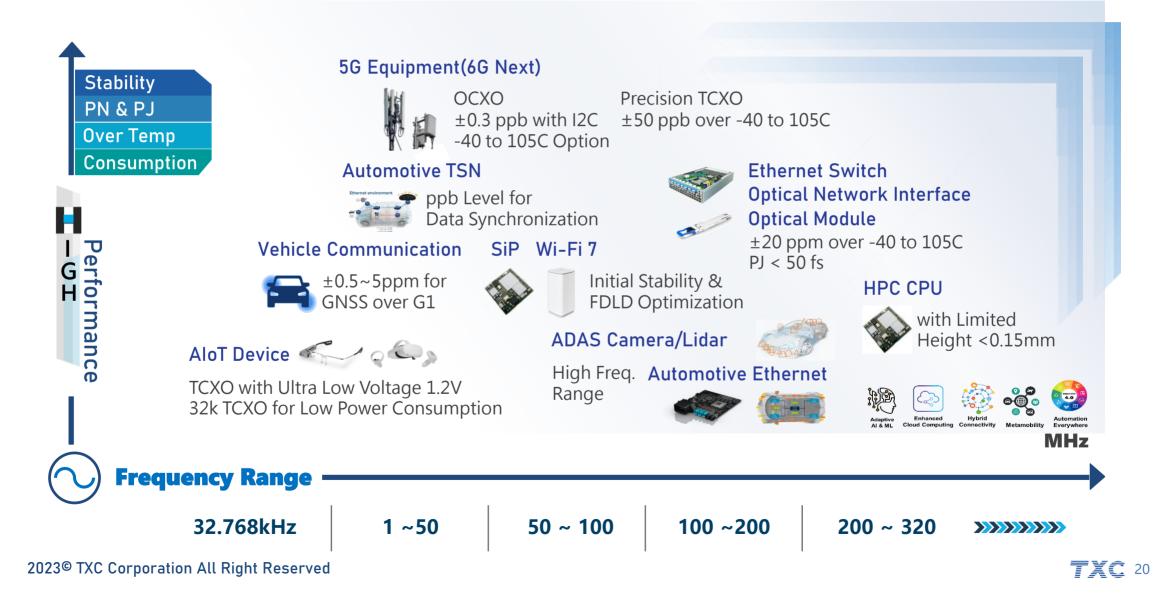
Global Ranking

2022

2018-2020 2021

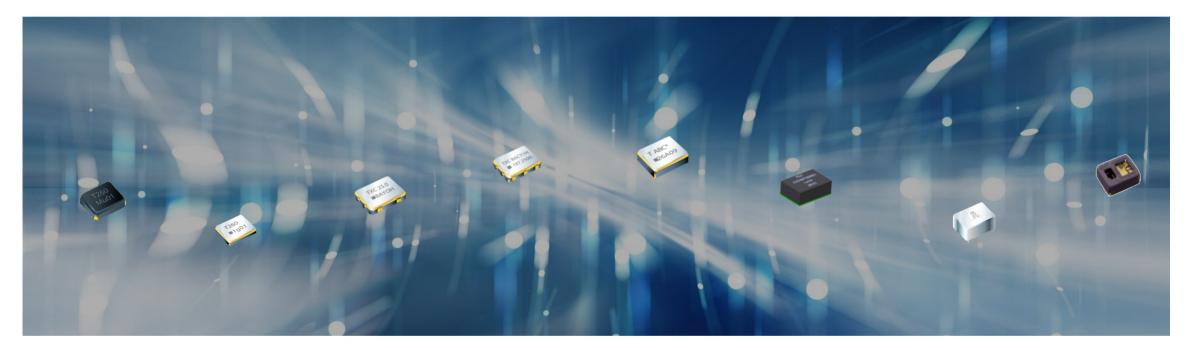
## **Timing Solutions Cover All Requirements**

Ultra High Frequency, Ultra Low Stability, Phase Noise & Jitter as Purest Clock Source



## **Leading Timing Industry Moving Forward**

**T**XC Evolved Sensing, Computing, & Communication Technology with AI-Embedded Devices



Innovative Leadership in High Growth Rate Market Segments. (~10+% R&D Investment)





Precise Timing Solution for Telecommunication & Data Computing



Higher Frequency & Miniature in Communications





## **Statements of Comprehensive Income**

	(Prop	erty Exclude	ed)		(Consolidated)					
Unit: NT\$ Million	Q3'23	Q2'23	QoQ	YOY	Q3'23	Q2'23	QoQ	YOY		
Net Revenue	3,072	2,422	26.8%	-10.4%	3,086	2,426	27.2%	-10.1%		
Gross Profit	1,084	831	30.4%	-16.4%	1,087	832	30.6%	-16.7%		
Operating Expenses	534	474	12.7%	-7.7%	537	477	12.5%	-8.2%		
Operating Profit	550	357	53.9%	-23.4%	550	355	54.9%	-23.6%		
Non-Operating Items	178	147	21.1%	-46.1%	171	141	21.2%	-47.8%		
Income before Tax	728	504	44.3%	-30.6%	721	496	45.3%	-31.1%		
Net Income	605	429	41.2%	-29.0%	598	421	42.2%	-29.8%		
Basic EPS (NT\$)	1.95	1.38	41.3%	-29.1%	1.94	1.35	43.7%	-29.5%		
Gross Margin(%)	35.27%	34.31%			35.22%	34.30%				
OPEX(%)	17.37%	19.55%			17.39%	19.66%				
Operating Margin(%)	17.90%	14.75%			17.83%	14.64%				
Income before Tax Margin(%)	23.70%	20.83%			23.37%	20.46%				
Net Profit Margin(%)	19.70%	17.70%			19.39%	17.34%				

## **Statements of Comprehensive Income**

	(Prop	erty Excluded)		(Consolidated)				
Unit: NT\$ Million	Q1~Q3'23	Q1~Q3'22	YOY	Q1~Q3'23	Q1~Q3'22	YOY		
Net Revenue	7,790	10,136	-23.1%	7,810	10,162	-23.1%		
Gross Profit	2,706	3,868	-30.0%	2,712	3,885	-30.2%		
Operating Expenses	1,447	1,676	-13.7%	1,461	1,697	-13.9%		
Operating Profit	1,258	2,191	-42.6%	1,251	2,188	-42.8%		
Non-Operating Items	330	711	-53.5%	318	702	-54.7%		
Income before Tax	1,589	2,902	-45.3%	1,569	2,890	-45.7%		
Net Income	1,326	2,373	-44.1%	1,306	2,363	-44.7%		
Basic EPS (NT\$)	4.28	7.66	-44.1%	4.22	7.63	-44.7%		
Gross Margin(%)	34.73%	38.16%		34.73%	38.23%			
OPEX(%)	18.58%	16.54%		18.71%	16.70%			
Operating Margin(%)	16.15%	21.62%		16.02%	21.53%			
Income before Tax Margin(%)	20.39%	28.63%		20.08%	28.44%			
Net Profit Margin(%)	17.02%	23.41%		16.72%	23.25%			

### **Balance Sheet**

Unit: NT\$ Million	Sep.	'23	Dec	. '22	Sep. '22	
ltem	Amount	%	Amount	%	Amount	%
Cash & Cash equivalents	3,521	18.9%	4,223	21.3%	3,608	18.0%
NR+AR	3,426	18.4%	3,557	17.9%	3,964	19.8%
Inventories	2,382	12.8%	2,700	13.6%	3,052	15.3%
Current Assets	10,289	55.3%	11,412	57.5%	11,565	57.8%
PP&E	5,970	32.1%	6,320	31.8%	6,313	31.6%
Total Assets	18,596	100.0%	19,851	100.0%	20,002	100.0%
Current Liabilities	4,534	24.4%	4,336	21.8%	4,703	23.5%
Non-current Liabilities	2,326	12.5%	3,042	15.3%	3,238	16.2%
Total Liabilities	6,860	36.9%	7,378	37.2%	7,942	39.7%
Total Shareholders' Equity	11,736	63.1%	12,473	62.8%	12,061	60.3%
A/R Turnover Days	123		106		108	
Inventory Turnover Days	130	6	120		124	
Inventory Turnover Days (exclu.)	124	4	105		105	
Current Ratio(%)	227	%	26	3%	24	6%
Debt Ratio(%)	36.9	9%	37.	2%	39	.7%
Book Value Per Share(NT\$)	37.8	39	40	.27	38	3.94
ROA(%)	9.3	%	14.	0%	15.6%	
R0E(%)	14.4	%	22.2%		25.4%	

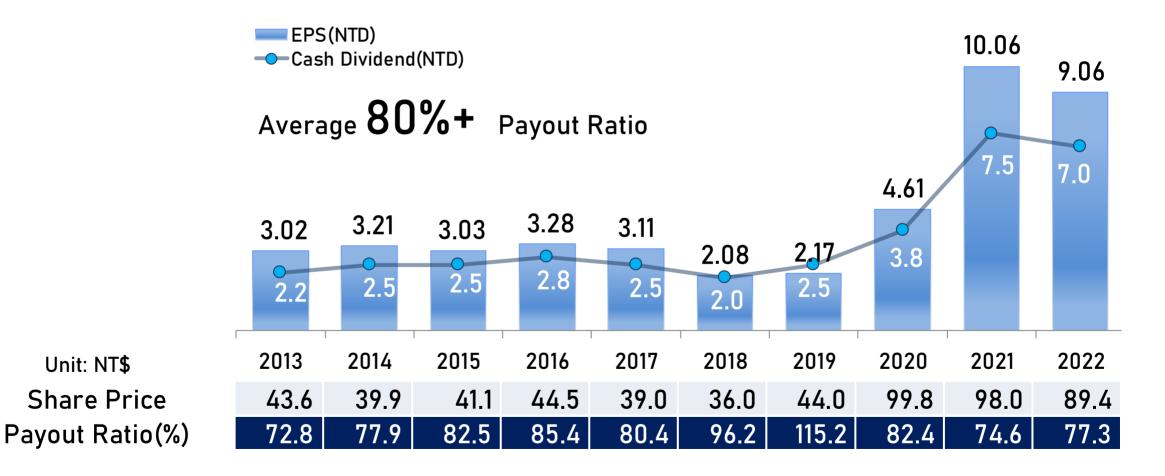
TXC	產品資訊	解決方案	服務支援	關於晶技	投資人專區	ESG專區	₽ 搜尋	繁中 ▼
月營收報告	月損益報告	財務報告						

#### 2023 月損益報告

單位:新台幣仟元

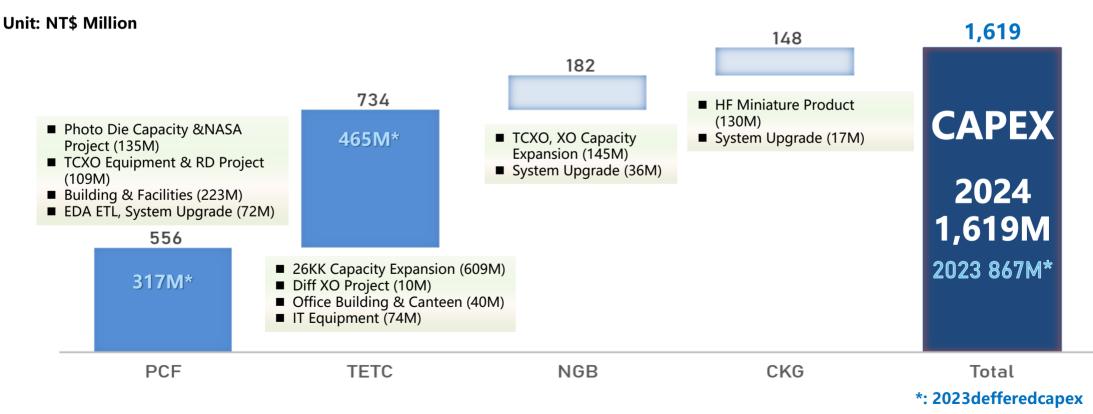
年/月(合併)	2023/1	2023/2	2023/3	2023/4	2023/5	2023/6	2023/7	2023/8	2023/9	2023/10	2023/11	2023/12	2023合計
營業收入	730,895	812,132	754,961	791,922	808,522	825,641	941,553	1,037,312	1,111,549	1,090,113	1,035,631	910,171	10,850,402
營業成本	469,934	548,354	492,293	516,237	529,684	550,597	608,979	677,685	722,315	702,013	641,987	566,893	7,026,971
營業毛利	260,961	263,778	262,668	275,685	278,838	275,044	332,574	359,627	389,234	388,100	393,644	343,278	3,823,431
營業費用	139,533	150,364	154,801	158,677	157,799	169,083	167,983	179,743	188,491	183,213	178,666	174,224	2,002,577
營業利益	121,428	113,414	107,867	117,008	121,039	105,961	164,591	179,884	200,743	204,887	214,978	169,054	1,820,854
營業外收支	(53,378)	24,842	41,461	30,952	39,243	79,349	35,872	67,709	82,281	23,661	(43,976)	(68,753)	259,263
稅前損益	68,050	138,256	149,328	147,960	160,282	185,310	200,463	247,593	283,024	228,548	171,002	100,301	2,080,117
稅前EPS	0.22	0.45	0.48	0.48	0.51	0.60	0.65	0.80	0.91	0.74	0.55	0.33	6.72

### **EPS & DPS** High Dividends Payout, with Sustainable Business Growth



### **2024 CAPEX**





TXC Confidential and Proprietary [Level B]

## Healthy Growth with Value based Sustainability

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



- Top 6%~20% Listed Corporates of the 9<sup>th</sup> Corporate Governance Evaluation
  - Top 249 Enterprises of CommonWealth Magazine
- The Excellent Enterprise Award in Taoyuan City
- **IDB** the 4<sup>th</sup> Gender Mainstreaming Benchmark Manufacturer
- 😴 BSI Sustainability Leader Award
- **1.5**C

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

• Operating solar power generation system to switch to renewable energy.

**ISO** ISO 14064 Greenhouse Gas Emissions Verification

### Roadmap

- ISO 50001 Energy Management System Verification
- ISO 14067 product carbon footprint Verification
- 2030 RE25% · 2050 RE100% & Net Zero Carbon

## Thank You

# Think of Frequency, Think of

# **Q&A Section** Thank You