

Zhen Ding Technology Holding (4958 TT)

2Q24 and 1H24 Investor Conference

August 13th, 2024

- Zhen Ding Technology Holding's statements of its current expectations are forward looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.
- Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.



AGENDA

1

2Q24 & 1H24 Financial Results

Eddie Chiang, Chief Financial Officer

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Company Strategy

Charles Shen, Chairman

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IC Substrate Business Update

D.J. Lee, Director & Chief Operating Officer



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Zhen Ding Tech. Holding

2Q24 & 1H24 Financial Results

Eddie Chiang, Chief Financial Officer

2Q24 Financial Results

(Unit: NT\$ million, unless otherwise stated)

	2Q24	2Q23	YoY (%)
Revenue	32,411	23,537	+37.7%
Gross Profit	4,247	2,123	+100.1%
Gross Margin	13.1%	9.0%	+4.1ppts
Operating Expense	4,891	4,011	+21.9%
Operating Profit	(644)	(1,888)	
Operating Margin	-2.0%	-8.0%	+6.0ppts
Non-Operating Income/Expense	1,153	1,393	-17.2%
Net Income	667	150	+343.9%
Net Margin	2.1%	0.6%	+1.5ppts
Net Income to Parent	486	(90)	
EPS (NT\$) ⁽¹⁾	0.51	(0.09)	
R&D Expense	2,858	2,298	+24.4%
Depreciation and Amortization	4,346	4,042	+7.5%
Cash Inflow Generated from Operations	1,899	3,471	-45.3%
Cash and Cash Equivalents ⁽²⁾	69,461	59,916	+15.9%
ROE(%) ⁽³⁾	2.0%	0.5%	+1.5ppts

Note : (1) Weighted Average Shares outstanding as of 1H24 : 944,956 thousand shares (actual issuance 947,049 thousand shares, with 2,093 thousand shares held in treasury)
(2) Including current financial assets at amortized cost (time deposits, etc.) (3) ROE is annualized data calculated based on the average of equity attributable to owners of parent

1H24 Financial Results

(Unit: NT\$ million, unless otherwise stated)

	1H24	1H23	YoY (%)
Revenue	64,922	55,082	+17.9%
Gross Profit	9,584	7,198	+33.2%
Gross Margin	14.8%	13.1%	+1.7ppts
Operating Expense	9,485	7,867	+20.6%
Operating Profit	99	(669)	
Operating Margin	0.2%	-1.2%	+1.4ppts
Non-Operating Income/Expense	1,908	1,075	+77.5%
Net Income	2,103	1,013	+107.6%
Net Margin	3.2%	1.8%	+1.4ppts
Net Income to Parent	1,463	414	+253.5%
EPS (NT\$) ⁽¹⁾	1.55	0.44	
R&D Expense	5,493	4,236	+29.7%
Depreciation and Amortization	8,577	8,000	+7.2%
Cash Inflow Generated from Operations	10,161	15,216	-33.2%
Cash and Cash Equivalents ⁽²⁾	69,461	59,916	+15.9%
ROE(%) ⁽³⁾	3.1%	1.6%	+1.5ppts

Note : (1) Weighted Average Shares outstanding as of 1H24 : 944,956 thousand shares (actual issuance 947,049 thousand shares, with 2,093 thousand shares held in treasury)
(2) Including current financial assets at amortized cost (time deposits, etc.) (3) ROE is annualized data calculated based on the average of equity attributable to owners of parent

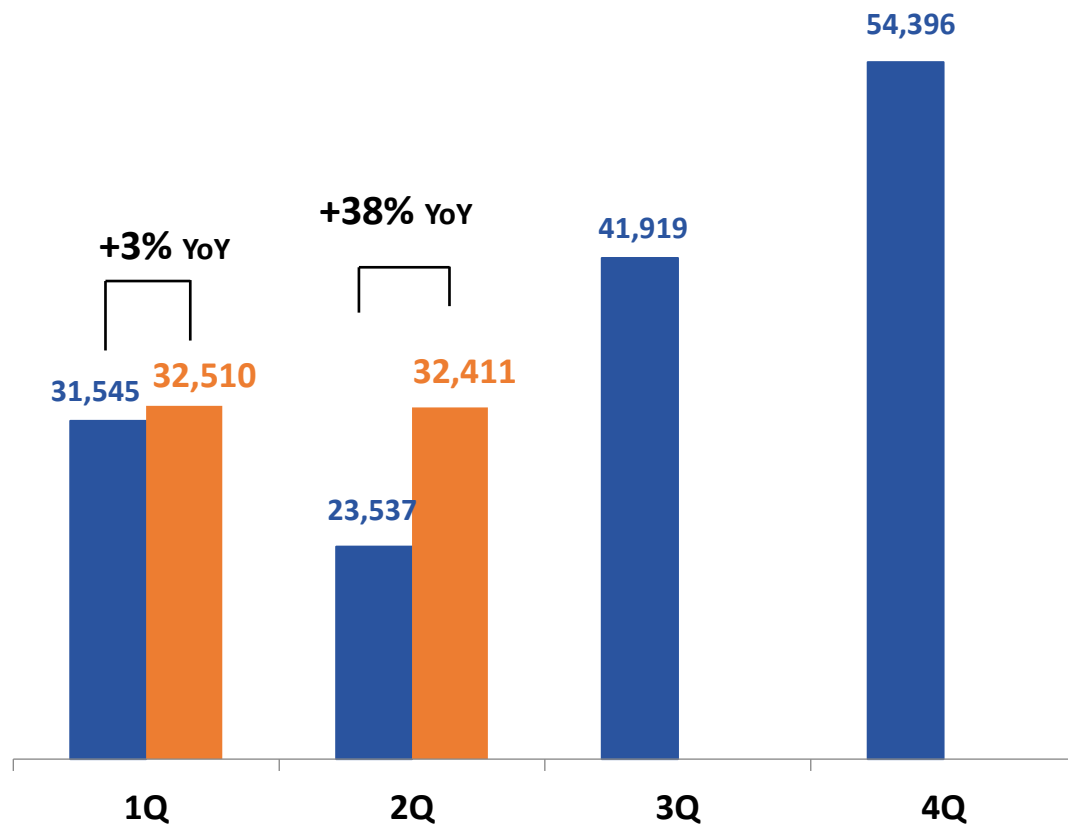
Quarterly Operation Results

Revenue

■ 2023

■ 2024

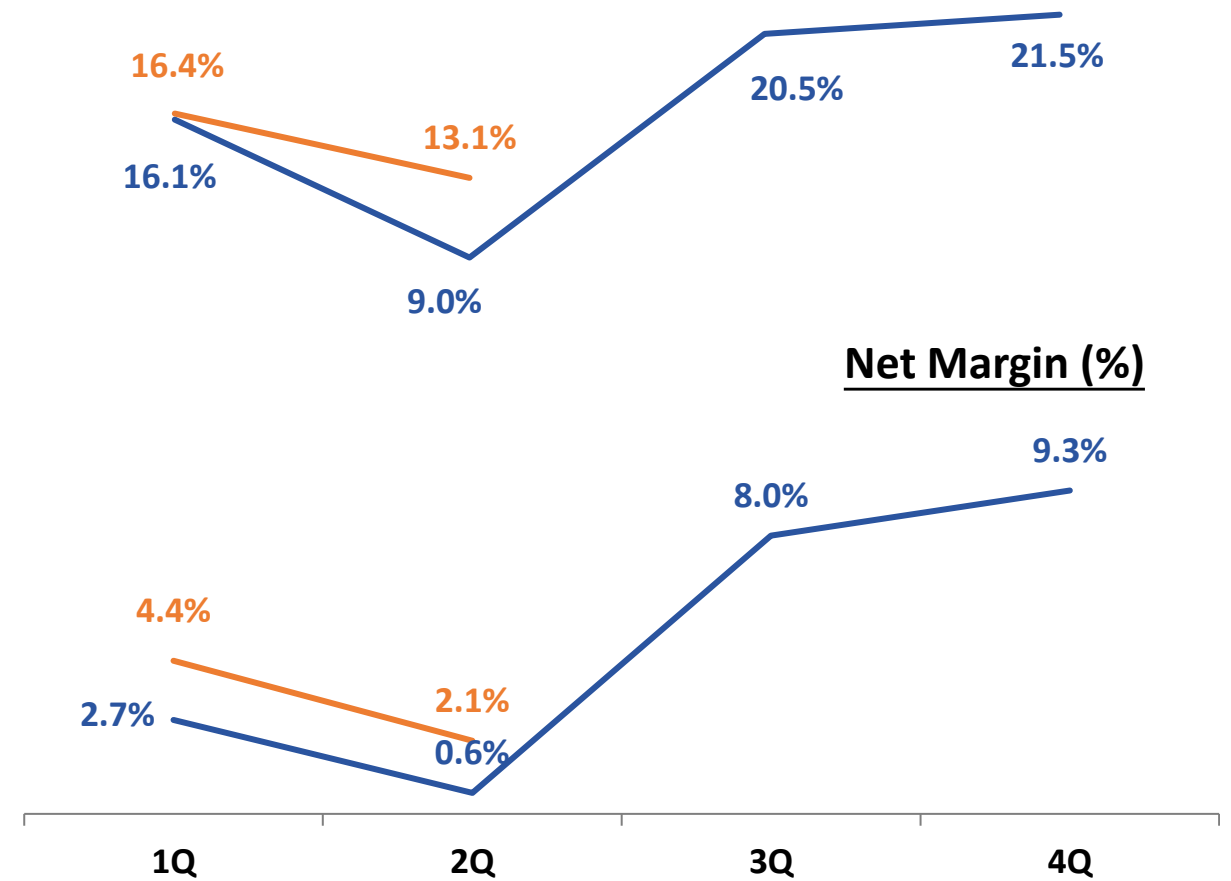
Unit: NT\$ million



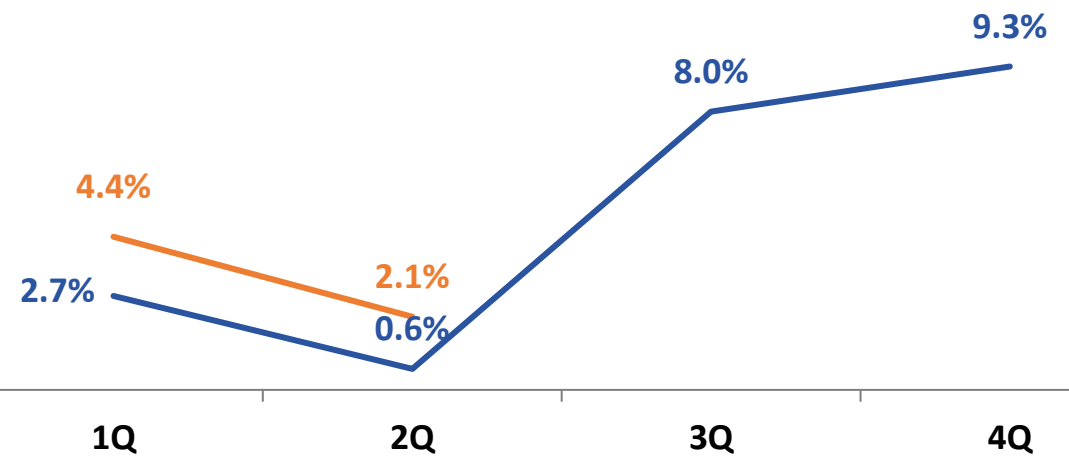
Gross Margin (%)

— 2023

— 2024

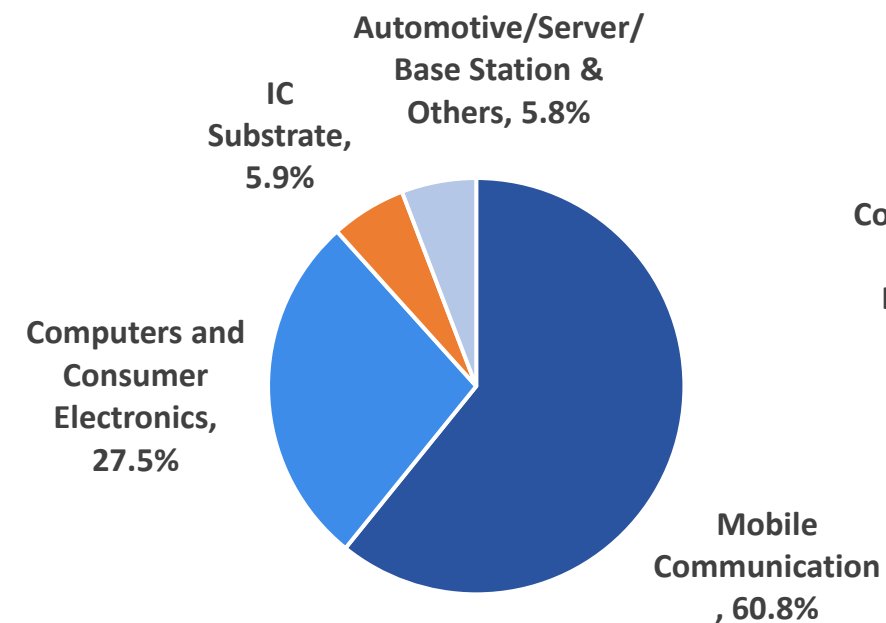


Net Margin (%)

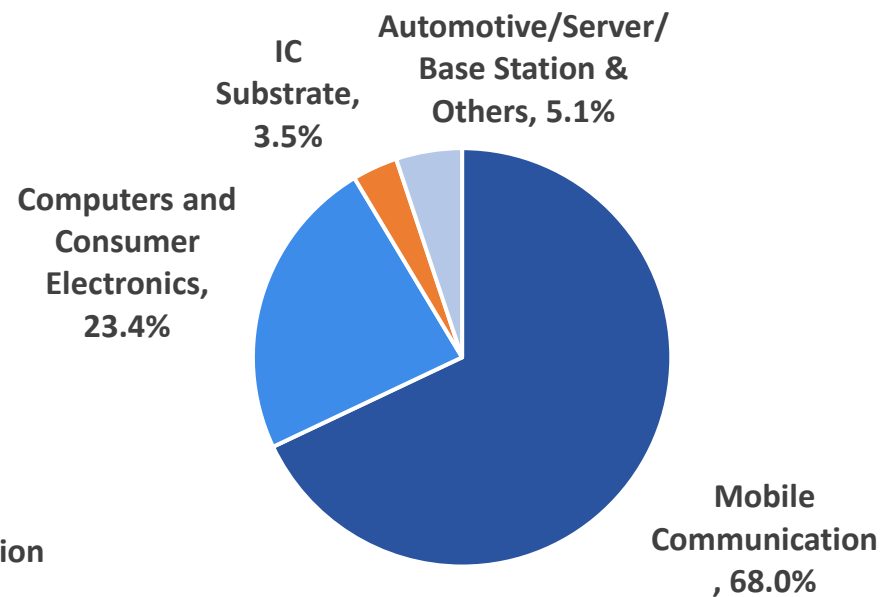


Revenue Breakdown – By Applications

1H24 Revenue NT\$64.9bn



1H23 Revenue NT\$55.1bn



Applications	1H24 Revenue YoY%
Mobile Communication	5.4%
Computers and Consumer Electronics	38.6%
IC Substrate	96.7%
Automotive/Server/Base Station & Others	33.3%

Consolidated Balance Sheet and Key Indices

	2024-6-30		2023-6-30		Unit: NT\$ million Change	
	Amount	%	Amount	%	Amount	%
Cash and Cash Equivalents ⁽²⁾	69,461	28.2%	59,916	26.8%	9,545	+1.4ppts
Notes & Accounts Receivable	22,317	9.1%	17,496	7.5%	4,821	+1.6ppts
Inventories	18,784	7.6%	13,784	5.9%	5,000	+1.7ppts
Property, Plant and Equipment ⁽³⁾	112,558	45.7%	108,559	48.5%	3,999	-2.8ppts
Total Assets	246,563	100.0%	223,833	100.0%	22,730	
Debt	54,590	22.1%	47,455	21.2%	7,135	+0.9ppts
Notes & Accounts Payable	37,251	15.1%	35,325	15.8%	1,926	-0.7ppts
Total Liabilities	107,321	43.5%	98,219	43.9%	9,102	
Total Equity	139,242	56.5%	125,615	56.1%	13,627	

Key Indices

A/R Turnover Days	72	78
Inventory Turnover Days	61	66
Current Ratio (x)	1.76	1.30
PPE Turnover (x) ⁽⁴⁾	1.17	1.03

Note : (1) Weighted Average Shares outstanding as of 1H24 : 944,956 thousand shares (actual issuance 947,049 thousand shares, with 2,093 thousand shares held in treasury) (2) Including current financial assets at amortized cost (time deposits, etc.) (3) PPE includes investment property (4) PPE Turnover = annualized net revenue / average net property, plant and equipment

2014-2023 Financial Summary

Unit: NT\$ million

Period	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Revenue	75,954	85,738	82,393	109,238	117,913	120,068	131,279	155,022	171,356	151,398
Gross Profit	14,323	16,427	12,542	17,833	26,061	27,222	26,584	30,537	39,888	27,459
Net Income	6,735	7,731	3,456	6,772	11,536	12,402	11,508	13,694	20,535	9,432
Net Income to Parent	6,735	7,731	3,456	5,172	8,448	8,685	8,095	9,651	14,197	6,189
Depreciation & Amortization	4,293	4,850	5,295	5,679	6,820	7,955	8,405	11,875	14,638	16,323
EPS (NT\$)	9.12	9.80	4.29	6.43	10.50	9.93	8.90	10.21	15.02	6.550
DPS (NT\$)	3.67	4.50	2.20	3.30	4.46	4.50	4.50	5.00	6.00	3.275
Payout Ratio (%)	40.2%	45.9%	51.3%	51.3%	42.5%	45.3%	50.6%	49.0%	40.0%	50.0%
Cash and Cash Equivalents*	23,482	31,572	30,241	33,296	49,154	43,071	46,775	35,179	57,599	65,970
Property, Plant and Equipment	30,073	32,074	32,262	36,681	41,913	46,243	68,177	86,073	104,814	109,965
Capital	7,386	8,047	8,047	8,047	8,047	9,022	9,470	9,470	9,470	9,470
ROE (%)	23.33%	20.82%	8.59%	14.49%	17.30%	14.72%	11.84%	12.59%	16.67%	7.10%
Debt Ratio (%)	62.54%	53.70%	59.72%	55.33%	44.25%	35.41%	42.56%	42.01%	42.87%	44.67%

* Including current financial assets at amortized cost (time deposits, etc.)

Company Strategy

Charles Shen, Chairman

Business Review and Outlook

1

2Q24 revenue increased by 37.7% YoY, ahead of previous expectation. All four major applications achieved double-digit YoY growth:

We previously expected a sequential decline in 2Q24 revenue due to the impact of customer product transition. However, the reported 2Q24 revenue was roughly flat QoQ, ahead of previous expectation. 2Q24 revenue reached the second highest for the same period, with all four major product applications achieved double-digit YoY growth. Specifically, revenue for IC substrates and Automotive/Server/Base Station both set record highs for a single quarter.

2

Entering the traditional peak season in 2H24, we expect demand for customers' new products to increase and revenue for IC substrates, servers, and automotive products to grow:

Driven by the demand for customers' new products and the increasing orders for IC substrates, servers, and automotive products, we expect that the performance in 2H24 will follow the pattern of traditional peak seasons. The utilization rate is expected to remain high, and the revenue growth will exceed previous expectation.

3

The launch of various AI edge devices (AI smartphones, AI PCs, intelligent automotive, AIoT, etc.) will drive spec upgrades and content growth of PCBs:

As more edge devices integrate more AI functionalities, product designs become increasingly complex, which will drive corresponding adjustments in PCBs. This potentially will drive spec upgrades and content growth across Zhen Ding's all types of PCBs.

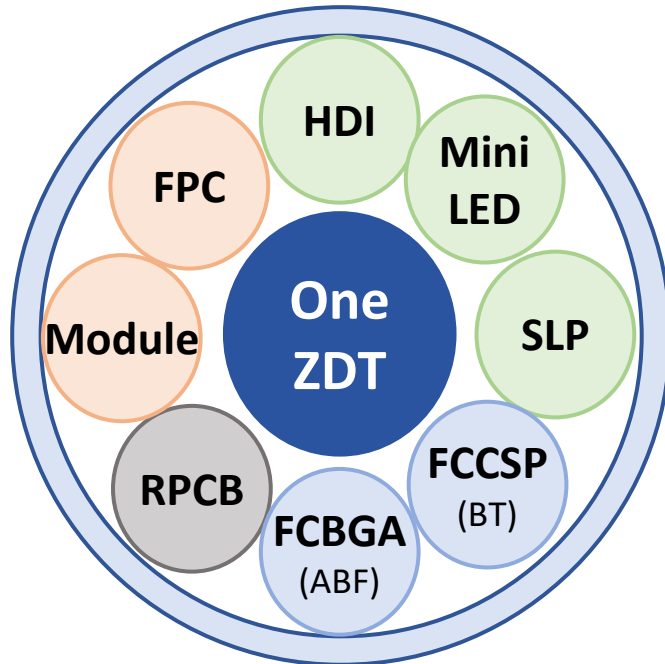
4

Secured new orders for optical business; the first phase of the new fab in Thailand is set to enter trial production in 1H25 and mass production in small scale in 2H25:

The optical business has successfully secured orders from top-tier customers and will begin contributing to revenue from 3Q24. The capacity of the first phase of the new fab in Thailand will focus on high-end server, automotive, and optical applications. Once the new fab enters mass production, it will be able to meet the growing customer demand for related products.

One ZDT: We Offer A Full Range of PCBs for AI

From AI Edge Devices to AI Servers – AI Increases Design Complexity for PCBs
ZDT Offers the Most Comprehensive and Advanced PCBs for All Kinds of AI Applications



AI

Cloud



AI Server



Edge Server



High
Performance
Memory

Channel



Optical



Switch



Base Station

Device



AI Smartphone/
Chip



AI PC



AI Tablet



Wearable
Devices



AR/VR
Metaverse



Intelligent Vehicle/
Smart Cockpit
Domain Controller

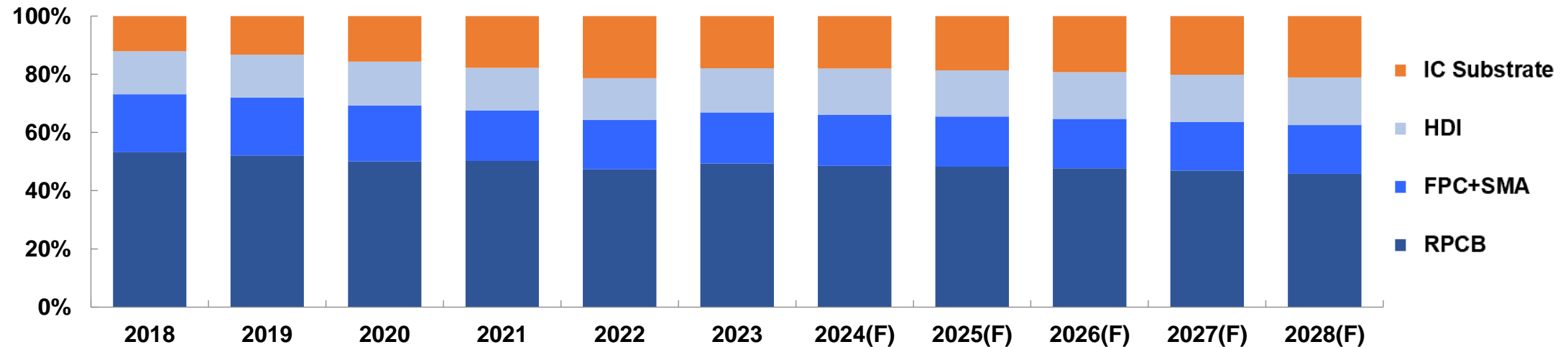


Autopilot Chip/
mmWave Radar



NEV/
Battery

In 2024, HDI to Have the Highest Growth in the PCB Industry, Followed by IC Substrate

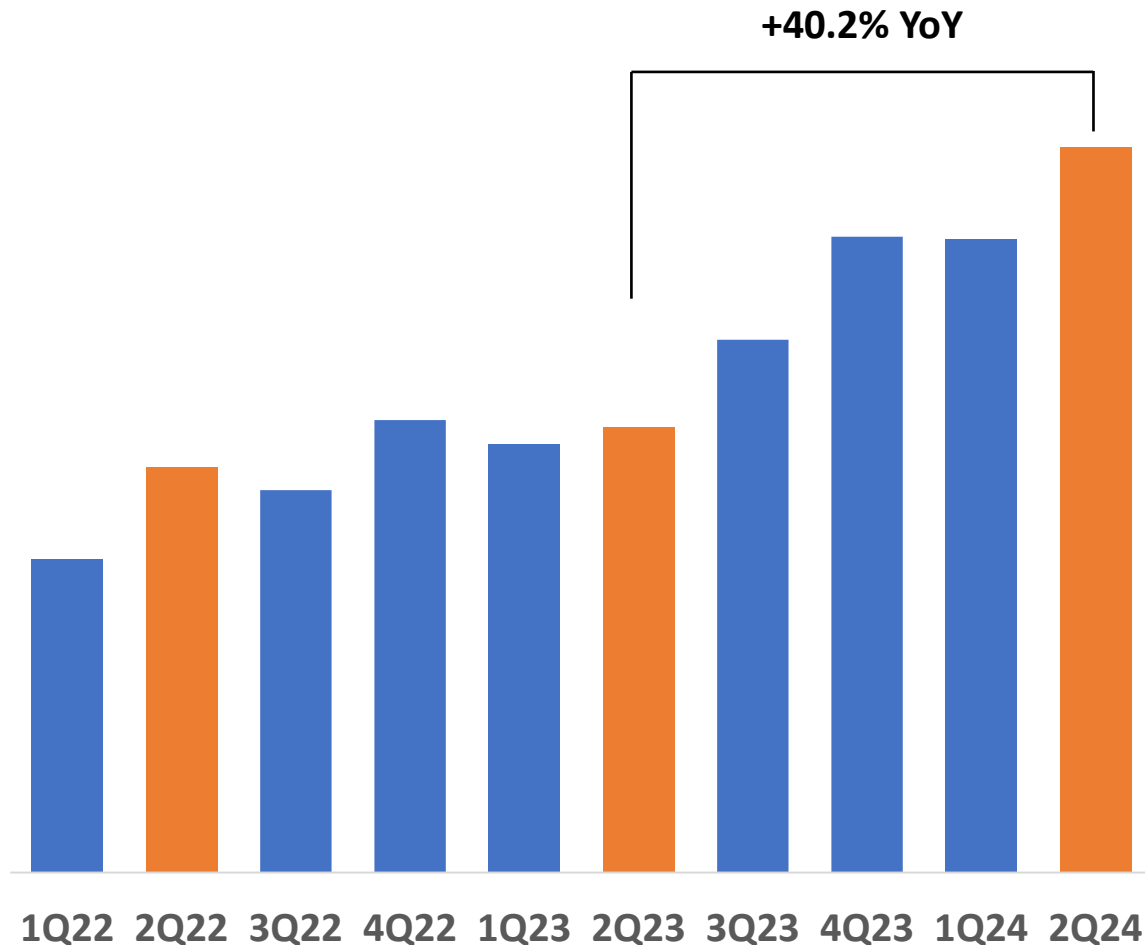


Product	Item	2018	2019	2020	2021	2022	2023	2024(F)	2025(F)	2026(F)	2027(F)	2028(F)	2023-2028 CAGR
RPCB	Value	33,225	31,969	32,674	40,641	38,720	34,292	35,451	37,430	39,116	40,429	41,405	3.8%
	%	53.2%	52.1%	50.1%	50.2%	47.4%	49.3%	48.5%	48.3%	47.7%	46.9%	45.8%	
FPC+SMA	Value	12,395	12,195	12,483	14,058	13,842	12,191	12,779	13,327	13,899	14,495	15,117	4.4%
	%	19.9%	19.9%	19.1%	17.4%	16.9%	17.5%	17.5%	17.2%	17.0%	16.8%	16.7%	
HDI	Value	9,222	9,008	9,874	11,811	11,763	10,536	11,628	12,356	13,130	13,952	14,826	7.1%
	%	14.8%	14.7%	15.1%	14.6%	14.4%	15.2%	15.9%	15.9%	16.0%	16.2%	16.4%	
IC Substrate	Value	7,554	8,139	10,188	14,410	17,415	12,498	13,168	14,444	15,844	17,380	19,065	8.8%
	%	12.1%	13.3%	15.6%	17.8%	21.3%	18.0%	18.0%	18.6%	19.3%	20.1%	21.1%	
Total		62,396	61,311	65,219	80,920	81,740	69,517	73,026	77,558	81,989	86,257	90,413	5.4%
YoY Change (%)		6.0%	-1.7%	6.4%	24.1%	1.0%	-15.0%	5.0%	6.2%	5.7%	5.2%	4.8%	

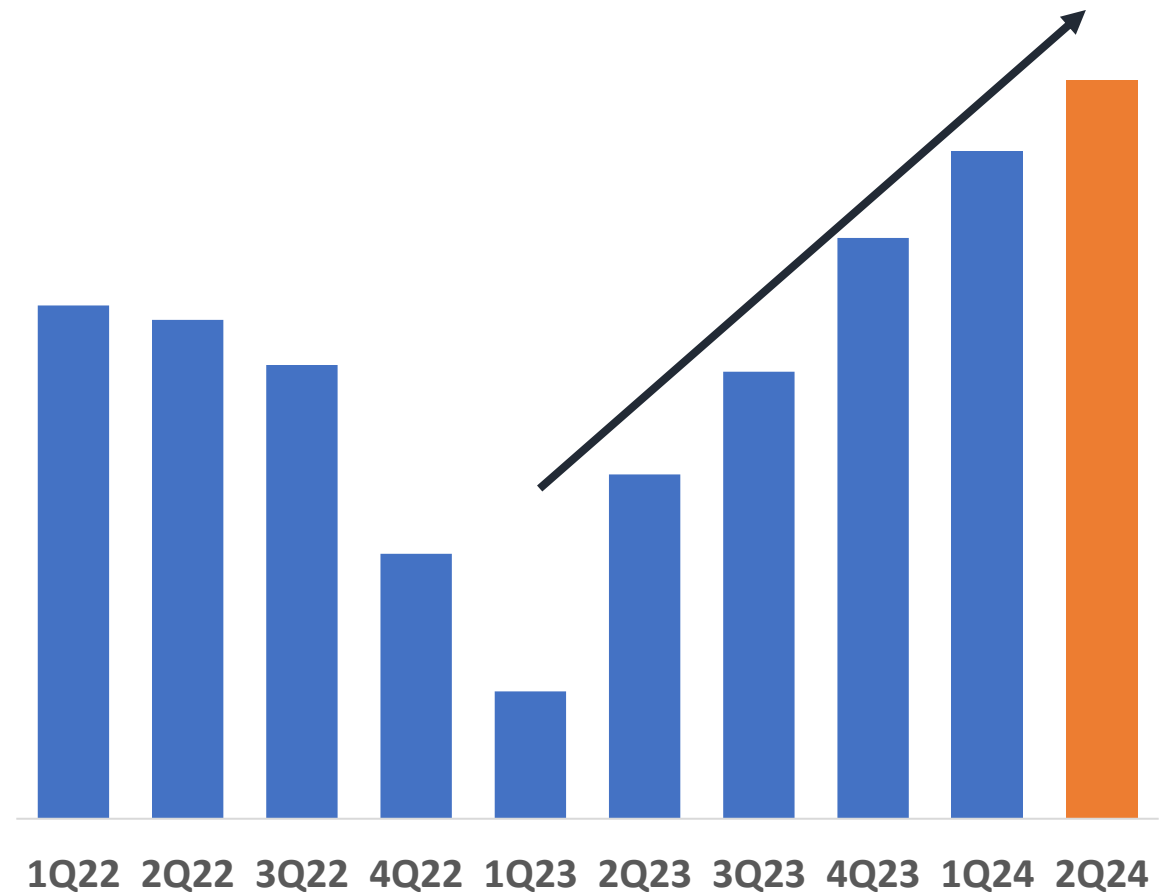
Source : Prismark(2024/5) ; 2025~28's data is calculated based on Prismark's estimation

Continued Effort to Diversify Product Portfolio

ZDT's 2Q24 Revenue for Automotive/Server/Base Station Achieved 40.2% YoY Growth



ZDT's 2Q24 Revenue for IC Substrates Continues to Reach a Record High



Construction of New Fab in Thailand is Progressing According to Plan

(Dec 2023) Thailand Prachinburi Park (Phase 1) :
High-end RPCB/HDI



(Current) Thailand Prachinburi Park (Phase 1) :
High-end RPCB/HDI



- The construction of the new fab in Prachinburi Province, Thailand is progressing according to plan. We will host a topping out ceremony for the main building on August 26th, with equipment installation by the end of this year, trial production in 1H25, and mass production in small scale in 2H25.
- Phase 1 capacity will focus on high-end server, automotive, and optical applications, providing high-end RPCB/HDI products.
- It will be ZDT's key manufacturing site in Southeast Asia.



IC Substrate Business Update

D.J. Lee, Director & Chief Operating Officer

IC Substrate Business Update

1

IC substrate revenue again reached a record high for a single quarter in 2Q24, with revenue contribution increasing to 5.9% in 1H24. IC substrate revenue will maintain at rapid growth this year:

- IC substrate revenue increased by 96.7% YoY in 1H24, and it is expected to maintain rapid growth for the entire year. In the mid-term, we maintain our goal of achieving a >50% revenue CAGR for IC substrate during 2023-2027.

2

Our ABF substrates passed the qualification for 2nm platform by an industry leader:

- Our ABF substrates successfully passed the qualification for the next-generation 2nm platform by an industry leader in the first half of the year, demonstrating that our technology capabilities can now match the most advanced semiconductor processes. Our future development strategy will continue to focus on mid- to high-end products.

3

The utilization rate of ABF substrates continues to increase, and we will add additional capacity for ABF Fab 1 by the end of this year:

- For ABF substrates, there is strong demand for high-end AI, networking, and automotive products. We are actively engaging customers in these key areas and expect an increase in utilization rate in 2H24, with revenue to reach a record high quarter by quarter.
- In response to the growing demand for large body size (over 70mm x 70mm) and high layer counts (over 16 layers) customer orders, we will add additional capacity for our ABF Fab 1 by the end of this year.

4

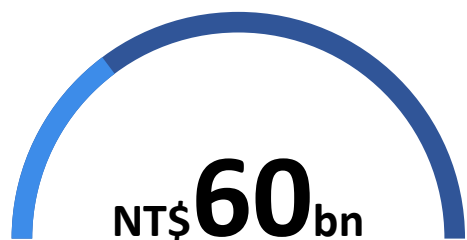
The utilization rate of BT substrates remains high, and revenue for 2H24 will surpass that of 1H24:

- Our BT substrates are primarily used in smartphone processors, memory, and RF applications, and we closely collaborate with top-tier customers. The utilization rate of BT substrates exceeded 80% in 1H24. In 2H24, driven by the peak season of consumer electronics, revenue is expected to surpass that of 1H24.
- Fine line 6/8um Embedded Trace Substrate (ETS) is expected to enter mass production by the end of the year. Additionally, in 2024, the newly developed DDR-5 and NAND substrates will gradually enter mass production. Our yield is also on par with Tier 1 players.

IC Substrate Capacity Expansion Plan

		2023				2024				2025				2026			
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
SZ ABF Substrate Plant (Two Fabs’ floor area in total: 170,000 m²)	Fab 1 (Mid to high-end products)	Installation															
		Sample certification															
		Mass production, target yield: comparable to tier 1 peers										Full utilization, target yield: comparable to tier 1 peers					
	Fab 2 (High end products)											Installation					
												Sample certification					
													Mass production				
QHD BT Substrate Plant (Two Fab’s floor area in total: 60,000 m²)	Fab 1	Industry Leading Quality															
	Fab 2	Mass Production			Utilization at 80%+					Industry Leading Quality							

IC Substrate Goals



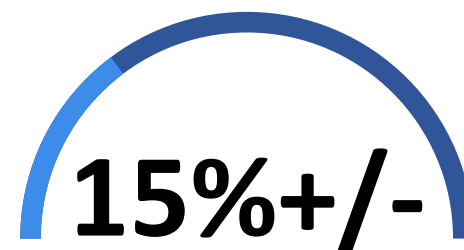
IC Substrate Capex:

Plan to invest NT\$60bn
from 2022~2027



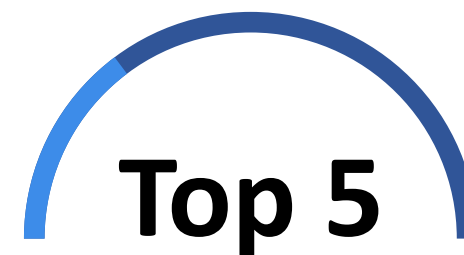
IC Substrate Revenue:

2023~2027 Revenue
CAGR >50%



IC Substrate Revenue:

Account for 15 %+/- of
company's consolidated
revenue in 2027



IC Substrate Market Share:

Aim to become one of the
global top 5 companies in the
IC substrate market in 2030



Q&A



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Zhen Ding Tech. Holding

THANK YOU